



AAPA Research Department

## AAPA Bibliography

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# Keyword Table of Contents

Keyword Table of Contents .....	2
ACA and Affordable Care Act .....	4
Academic Medical Centers .....	8
Access to Care .....	9
Accountable Care Organizations.....	13
Audit and Feedback .....	14
Autonomy.....	15
Burnout .....	16
Career Choice and Mobility .....	17
Clinical Care .....	18
Communities of Practice .....	20
Compensation.....	22
Cost and Cost Effectiveness.....	24
Diversity Issues.....	30
Drugs and Prescribing .....	32
Education .....	33
Effectiveness.....	38
Efficiency.....	39
Electronic Health Records/Electronic Medical Records .....	43
Emergency Department.....	45
Federal Trade Commission.....	47
Insurance.....	51
Internship and Residency .....	54
Job Satisfaction .....	57
Legislation and Policy .....	58
Licensing .....	62
Malpractice .....	64

Medicaid .....	65
Medically Underserved Areas .....	68
Medicare .....	70
Nursing and Nurse Practitioners .....	73
Organization & Administration .....	76
PAs .....	82
PA Education .....	94
PA Role .....	97
PA Utilization .....	99
PA Value .....	102
Patient Care Team .....	103
Patient Education .....	105
Patient Satisfaction .....	106
Physicians .....	109
Primary Care .....	113
Quality .....	118
Recertification, Certification and Accreditation .....	122
Reimbursement .....	124
Rural .....	126
Scope of Practice .....	128
Six Key Elements .....	129
Specialization .....	130
Supply and Demand .....	131
Team Based Learning and Care .....	134
Trends in Healthcare .....	137
Veterans .....	140
Workforce .....	141
Workload .....	148

# ACA and Affordable Care Act

Abrams, M., Nuzum, R., Mika, S., & Lawlor, G. (2011). *Realizing Health Reform's Potential: How the Affordable Care Act Will Strengthen Primary Care and Benefit Patients, Providers, and Payers.* Retrieved from <https://www.commonwealthfund.org/publications/issue-briefs/2011/jan/realizing-health-reforms-potential-how-affordable-care-act-will>

Allen, S. M., Ballweg, R. A., Cosgrove, E. M., Engle, K. A., Robinson, L. R., Rosenblatt, R. A., & Wenrich, M. D. (2013). Challenges and opportunities in building a sustainable rural primary care workforce in alignment with the Affordable Care Act: the WWAMI program as a case study. *Acad Med, 88*(12), 1862-1869. doi:10.1097/ACM.0000000000000008

Altman, S. H., Butler, A. S., & Shern, L. (2016). Assessing Progress on the Institute of Medicine Report The Future of Nursing. In S. H. Altman, A. S. Butler, & L. Shern (Eds.), *Assessing Progress on the Institute of Medicine Report The Future of Nursing.* Washington (DC).

Angeles, J. (2012). *Federal Guidance Needed for States to Fully Assess Option.* Retrieved from <https://www.cbpp.org/sites/default/files/atoms/files/3-13-12health.pdf>

Angeles, J., & Broaddus, M. (2012). *Federal Government will Pick up Nearly all Costs of Health Reform's Medicaid Expansion.* Retrieved from <https://www.cbpp.org/research/federal-government-will-pick-up-nearly-all-costs-of-health-reforms-medicaid-expansion>

Arons, J. (2012). *Women and Obamacare What's at Stake for Women if the Supreme Court Strikes Down the Affordable Care Act?* Retrieved from <https://www.americanprogress.org/issues/women/reports/2012/05/02/11512/women-and-obamacare/>

Bachrach, D., & Boozang, P. (2011). Federally-Facilitated Exchanges and the Continuum of State Options. *National Academy of Social Insurance.*

Bachrach, D., Boozang, P., Dutton, M., & Lam, A. (2011). *HHS Proposed Rules on Exchange Implementation Requirements.*

Bachrach, D., Dutton, M., Tolbert, J., & Harris, J. (2012). *The Role of the Basic Health Program in the Coverage Continuum: Opportunities, Risks & Considerations for States.* Retrieved from <https://kaiserfamilyfoundation.files.wordpress.com/2013/01/8283.pdf>

Baker, K., & Krehely, J. (2011). *Changing the Game: What Health Reform Means for Gay, Lesbian, Bisexual and Transgender Americans.*

Balto, D. (2010). *Making Health Care Competition Work How to Ensure Health Insurance Reform Is Transparent and Effective.* Retrieved from <https://www.americanprogress.org/issues/economy/reports/2010/06/25/7986/making-health-care-competition-work/>

Balto, D. (2011). Making Health Reform Work Accountable Care Organizations and Competition. Retrieved from <http://www.dcantitrustlaw.com/assets/content/documents/CAP/Making%20Health%20Reform%20Work.pdf>

Berenson, R. (2010). Shared Savings Program for Accountable Care Organizations: A Bridge to Nowhere? *AJMC, 16*(10).

- Berenson, R., & Zuckerman, S. (2010). *How Will Hospitals Be Affected by Health Care Reform? Timely Analysis of Immediate Health Policy Issues*. Retrieved from <http://scphi.org/wordpress/wp-content/uploads/2011/01/66028physicians.pdf>
- Berenson, R. A., & Burton, R. A. (2011). *Accountable Care Organizations in Medicare and the Private Sector: A Status Update*. Urban Institute. Retrieved from <http://www.urban.org/research/publication/accountable-care-organizations-medicare-and-private-sector-status-update>
- Blumberg, L. J. (2010). *Does the Patient Protection and Affordable Care Act Permit the Purchase of Health Insurance Across State Lines?* Retrieved from <http://www.urban.org/sites/default/files/publication/29066/412195-Does-the-Patient-Protection-and-Affordable-Care-Act-Permit-the-Purchase-of-Health-Insurance-Across-State-Lines-.PDF>
- Blumberg, L. J. (2010). *How Will the Patient Protection and Affordable Care Act Affect Small, Medium, and Large Businesses?* Retrieved from <http://www.urban.org/research/publication/how-will-patient-protection-and-affordable-care-act-affect-small-medium-and-large-businesses>
- Blumberg, L. J., Buettgens, M., & Feder, J. (2012). *The Individual Mandate in Perspective*. Retrieved from <http://www.urban.org/sites/default/files/publication/25231/412533-The-Individual-Mandate-in-Perspective.PDF>
- Bovbjerg, R. R. (2010). *Will the Patient Protection and Affordable Care Act Address the Problems Associated with Medical Malpractice?* Retrieved from <http://www.rwjf.org/en/library/research/2010/08/will-the-patient-protection-and-affordable-care-act-address-the-.html>
- Bovbjerg, R. R., & Berenson, R. A. (2012). *The Value of Clinical Practice Guidelines as Malpractice "Safe Harbors"*. Retrieved from <http://www.rwjf.org/en/library/research/2012/04/the-value-of-clinical-practice-guidelines-as-malpractice--safe-h.html>
- Buettgens, M., & Carroll, C. (2012). *Eliminating the Individual Mandate - Effects on Premiums Coverage and Uncompensated Care*. Retrieved from <http://www.urban.org/research/publication/eliminating-individual-mandate-effects-premiums-coverage-and-uncompensated-care>
- Buettgens, M., Garrett, B., & Holahan, J. (2010). *Why the Individual Mandate Matters Timely Analysis of Immediate Health Policy Issues*. Retrieved from <http://www.urban.org/sites/default/files/publication/29456/412280-Why-the-Individual-Mandate-Matters.PDF>
- Buettgens, M., & Hall, M. A. (2011). Who Will Be Uninsured After Health Insurance Reform? Retrieved from <http://www.rwjf.org/en/library/research/2011/03/who-will-be-uninsured-after-health-insurance-reform-.html>
- Cafarella, N., & Carrk, T. (2011). *Myth vs. Fact: Health Care Reform in Massachusetts The State Model for the Affordable Care Act Is Working and Broadly Popular*. Retrieved from <https://www.americanprogress.org/issues/healthcare/reports/2011/04/13/9530/myth-vs-fact-health-care-reform-in-massachusetts/>
- Carrk, T. (2011). *How Conservative Attacks on Health Care Reform Will Affect You Attempts to Repeal Affordable Care Act Have Serious Consequences*.

- Collins, S. R., Davis, K., Nicholson, J., & Stremikis, K. (2010). Realizing Health Reform's Potential: Small Businesses and the Affordable Care Act of 2010.
- Collins, S. R., Garber, T., & Robertson, R. (2011). *Realizing Health Reform's Potential: How the Affordable Care Act Is Helping Young Adults Stay Covered*.
- Collins, S. R., Rustgi, S. D., & Doty, M. M. (2010). *Realizing Health Reform's Potential: Women and the Affordable Care Act of 2010*. Cook, F. L. (2011). Perspective--the need for public deliberation: giving the public a voice on affordable health insurance. *J Health Polit Policy Law*, 36(5), 879-885. doi:10.1215/03616878-1407667
- Corlette, S., & Volk, J. (2010). *Active Purchasing for Health Insurance Exchanges: An Analysis of Options*. Retrieved from <https://www.nasi.org/research/2011/active-purchasing-health-insurance-exchanges-analysis-option>
- Davis, K., Guterman, S., Collins, S. R., Stremikis, K., Rustgi, S. D., & Nuzman, R. (2010). *Starting on the Path to a High Performance Health System: Analysis of the Payment and System Reform Provisions in the Patient Protection and Affordable Care Act of 2010*. Retrieved from <http://www.commonwealthfund.org/publications/fund-reports/2010/sep/analysis-of-the-payment-and-system-reform-provisions>
- Eibner, C., Girosi, F., Price, C. C., & McGlynn, E. A. (2011). Grandfathering in the Small Group Market Under the Patient Protection and Affordable Care Act. *Rand Health Q*, 1(3), 16.
- Feder, J., & Cutler, D. M. (2010). *Achieving Accountable and Affordable Care Key Health Policy Choices to Move the Health Care System Forward*.  
<https://www.americanprogress.org/issues/healthcare/reports/2010/12/20/8844/achieving-accountable-and-affordable-care/>
- Garfield, R. L., & Damico, A. (2012). Medicaid expansion under health reform may increase service use and improve access for low-income adults with diabetes. *Health Aff (Millwood)*, 31(1), 159-167. doi:10.1377/hlthaff.2011.0903
- Goldman, T. R. (2012). Health reform gets its day in court--the Supreme one. *Health Aff (Millwood)*, 31(1), 8-11. doi:10.1377/hlthaff.2011.1310
- Gresenz, C. R., Laugesen, M. J., Yesus, A., & Escarce, J. J. (2011). Relative Affordability of Health Insurance Premiums under CHIP Expansion Programs and the ACA. *J Health Polit Policy Law*, 36(5), 859-877. doi:10.1215/03616878-1407658
- Iglehart, J. K. (2012). Primary care update--light at the end of the tunnel? *N Engl J Med*, 366(23), 2144-2146. doi:10.1056/NEJMp1205537
- Jacobson, P. D., & Jazowski, S. A. (2011). Physicians, the Affordable Care Act, and primary care: disruptive change or business as usual? *J Gen Intern Med*, 26(8), 934-937. doi:10.1007/s11606-011-1695-8
- Jost, T. S. (2010). Health Insurance Exchanges and the Affordable Care Act: Eight Difficult Issues. The Commonwealth Fund. Retrieved from <http://www.commonwealthfund.org/publications/fund-reports/2010/sep/health-insurance-exchanges-and-the-affordable-care-act>

- Jost, T. S. (2010). Health Insurance Exchanges and the Affordable Care Act: Key Policy Issues. Retrieved from <http://www.commonwealthfund.org/publications/fund-reports/2010/jul/health-insurance-exchanges-and-the-affordable-care-act>
- Jost, T. S. (2011). Employers And The Exchanges Under The Small Business Health Options Program: Examining The Potential And The Pitfalls. *Health Affairs*, 31(2), 267-274. doi:10.1377/hlthaff.2011.1011
- Koh, H. K., & Sebelius, K. G. (2010). Promoting prevention through the Affordable Care Act. *N Engl J Med*, 363(14), 1296-1299. doi:10.1056/NEJMp1008560
- Muennig, P., Sampat, B., Tilipman, N., Brown, L. D., & Glied, S. A. (2011). We all want it, but we don't know what it is: toward a standard of affordability for health insurance premiums. *J Health Polit Policy Law*, 36(5), 829-853. doi:10.1215/03616878-1407640
- Park, M., Cherry, D., & Decker, S. L. (2011). Nurse practitioners, certified nurse midwives, and physician assistants in physician offices. *NCHS Data Brief*(69), 1-8.
- Phillips, R. L., Jr. (2012). International learning on increasing the value and effectiveness of primary care (I LIVE PC). *J Am Board Fam Med*, 25 Suppl 1, S2-5. doi:10.3122/jabfm.2012.02.120005
- Rosenthal, M. B., Cutler, D. M., & Feder, J. (2011). The ACO rules--striking the balance between participation and transformative potential. *N Engl J Med*, 365(4), e6. doi:10.1056/NEJMp1106012
- Shields, M. C., Patel, P. H., Manning, M., & Sacks, L. (2011). A model for integrating independent physicians into accountable care organizations. *Health Aff (Millwood)*, 30(1), 161-172. doi:10.1377/hlthaff.2010.0824
- Testimony of Paul N. Van De Water: Senior Fellow, Center on Budget and Policy Priorities Before the Subcommittee on Oversight Committee on Ways and Means U.S. House of Representatives*, (2012).
- Waidmann, T., Ormond, B. A., & Boubjerg, R. (2011). The Role of Prevention in Bending the Cost Curve. Urban Institute. Retrieved from <http://www.urban.org/sites/default/files/alfresco/publication-pdfs/412429-The-Role-of-Prevention-in-Bending-the-Cost-Curve.PDF>
- Zuckerman, S., & Berenson, R. (2010). *How Will Physicians Be Affected by Health Care Reform? Timely Analysis of Immediate Health Policy Issues*. Retrieved from <http://www.urban.org/sites/default/files/publication/28881/412155-How-Will-Hospitals-Be-Affected-by-Health-Care-Reform-.PDF>

# Academic Medical Centers

Glotzbecker, B. E., Yolin-Raley, D. S., DeAngelo, D. J., Stone, R. M., Soiffer, R. J., & Alyea, E. P., 3rd. (2013). Impact of physician assistants on the outcomes of patients with acute myelogenous leukemia receiving chemotherapy in an academic medical center. *J Oncol Pract*, 9(5), e22233. doi:10.1200/JOP.2012.000841

Lee, V. S., Miller, T., Daniels, C., Paine, M., Gresh, B., & Betz, A. L. (2016). Creating the Exceptional Patient Experience in One Academic Health System. *Acad Med*, 91(3), 338-344. doi:10.1097/ACM.0000000000001007

Moote, M., Krsek, C., Kleinpell, R., & Todd, B. (2011). Physician assistant and nurse practitioner utilization in academic medical centers. *Am J Med Qual*, 26(6), 452-460. doi:10.1177/1062860611402984

Nestler, D. M., Fratzke, A. R., Church, C. J., Scanlan-Hanson, L., Sadosty, A. T., Halasy, M. P., & Hess, E. P. (2012). Effect of a physician assistant as triage liaison provider on patient throughput in an academic emergency department. *Acad Emerg Med*, 19(11), 1235-1241. doi:10.1111/acem.12010

Ogunfiditimi, F., Takis, L., Paige, V. J., Wyman, J. F., & Marlow, E. (2013). Assessing the productivity of advanced practice providers using a time and motion study. *J Healthc Manag*, 58(3), 173-185; discussion 185-176.

Resnick, A. S., Todd, B. A., Mullen, J. L., & Morris, J. B. (2006). How do surgical residents and non-physician practitioners play together in the sandbox? *Curr Surg*, 63(2), 155-164. doi:10.1016/j.cursur.2005.12.009

Russell, J. C., Kaplowe, J., & Heinrich, J. (1999). One hospital's successful 20-year experience with physician assistants in graduate medical education. *Acad Med*, 74(6), 641-645.

Sucov, A., Sidman, R., & Valente, J. (2009). A cost-efficiency analysis to increase clinician staffing in an academic emergency department. *Acad Med*, 84(9), 1211-1216. doi:10.1097/ACM.0b013e3181b187fc

# Access to Care

- Benatar, S., Hughes, D., Howell, E. M., & Kenney, G. (2010). *Swimming Upstream Improving Access to Indigent Health Care in the Midst of Major Economic Challenges*.
- Bevis, L. C., Berg-Copas, G. M., Thomas, B. W., Vasquez, D. G., Wetta-Hall, R., Brake, D., & Harrison, P. (2008). Outcomes of tube thoracostomies performed by advanced practice providers vs trauma surgeons. *Am J Crit Care, 17*(4), 357-363.
- Bishop, T. F., Seirup, J. K., Pincus, H. A., & Ross, J. S. (2016). Population Of US Practicing Psychiatrists Declined, 2003-13, Which May Help Explain Poor Access To Mental Health Care. *Health Aff (Millwood), 35*(7), 1271-1277. doi:10.1377/hlthaff.2015.1643
- Braverman, P., & Egarter, S. (2008). *Overcoming Obstacles to Health*. Retrieved from <http://www.rwjf.org/en/library/research/2008/02/overcoming-obstacles-to-health.html>
- Cassidy, A. (2011). *Health Policy Brief: Community Development and Health*. Retrieved from <http://www.rwjf.org/en/library/research/2011/11/community-development-and-health.html>
- Cassidy, A. (2011). Small Business Tax Credits. The Affordable Care Act offers incentives so that more of these companies will help provide their employees with health insurance.
- Cassidy, A. (2012). *Health Policy Brief: Essential Health Benefits*. Retrieved from [http://www.healthaffairs.org/healthpolicybriefs/brief.php?brief\\_id=68](http://www.healthaffairs.org/healthpolicybriefs/brief.php?brief_id=68)
- Claxton, G., Rae, M., Panchal, N., Lundy, J., & Damico, A. (2011). *Employer Health Benefits 2011 Annual Survey*. Retrieved from <https://kaiserfamilyfoundation.files.wordpress.com/2013/04/8225.pdf>
- Cohen, R. A., Gindi, R. M., & Kirzinger, W. K. (2011). Financial Burden of Medical Care - Early Release Estimates from the NHIS. Retrieved from [https://www.cdc.gov/nchs/data/nhis/health\\_insurance/financial\\_burden\\_of\\_medical\\_care\\_032012.pdf](https://www.cdc.gov/nchs/data/nhis/health_insurance/financial_burden_of_medical_care_032012.pdf)
- Colla, C. H., Dow, W. H., & Dube, A. (2011). *The Labor Market Impact of Employer Health Benefit Mandates: Evidence from San Francisco's Health Care Security Ordinance*. Retrieved from <http://www.rwjf.org/en/library/research/2011/07/the-labor-market-impact-of-employer-health-benefit-mandates-.html>
- Cook, M., & Riley, L. (2013). NPs as Usual Care Providers. *AANP Research Brief, 1*(1).
- Courtot, B., Klein, A., Howell, E., & Benatar, S. (2009). Covering Kids & Families® Evaluation Mathematica Policy Research, Inc. The Urban Institute
- Cramer, C. L., Orlowski, J. P., & DeNicola, L. K. (2008). Pediatric intensivist extenders in the pediatric ICU. *Pediatr Clin North Am, 55*(3), 687-708, xi-xii. doi:10.1016/j.pcl.2008.02.007
- Dehn, R. W., Berkowitz, O., & Coombs, J. M. (2016). Commentaries on health services research. *JAAPA, 29*(12), 1-2. doi:10.1097/01.JAA.0000508209.40675.df
- Dies, N., Rashid, S., Shandling, M., Swallow, C., Easson, A. M., & Kennedy, E. (2016). Physician assistants reduce resident workload and improve care in an academic surgical setting. *JAAPA, 29*(2), 41-46. doi:10.1097/01.JAA.0000476214.34937.50

- Everett, C. M., Morgan, P., & Jackson, G. L. (2016). Patient characteristics associated with primary care PA and APRN roles. *JAAPA*, 29(12), 1-6. doi:10.1097/01.JAA.0000508217.65992.72
- Kaiser Family Foundation (2010). *Health Reform and Communities of Color: Implications for Racial and Ethnic Health Disparities*. Retrieved from <http://www.kff.org/disparities-policy/issue-brief/health-reform-and-communities-of-color-implications/>
- Robert Wood Johnson Foundation (2009). Beyond Health Care: New Directions to a Healthier America. Retrieved from <http://www.commissiononhealth.org/PDF/779d4330-8328-4a21-b7a3-deb751dafaab/Beyond%20Health%20Care%20-%20New%20Directions%20to%20a%20Healthier%20America.pdf>
- The Robert Graham Center (2007). *Access Granted - The primary care payoff*. Retrieved from <http://www.graham-center.org/content/dam/rgc/documents/publications-reports/monographs-books/rgcmo-access-granted.pdf>
- Hartmann, M., & Graziadei, J. (2017). Rural Health Care: Thirty Miles at Sea — Providing Consistent Care in an Inconsistent Environment. Retrieved from <http://catalyst.nejm.org/rural-health-care-thirty-miles-sea-consistent-care/>
- Hing, E., & Uddin, S. (2011). Physician Assistant and Advance Practice Nurse Care in Hospital Outpatient Departments: United States, 2008–2009.
- Johnston, B. F. (2010). *Reaching Uninsured Children: Iowa's Income Tax Return and CHIP Project*. Retrieved from <https://folio.iupui.edu/bitstream/handle/10244/907/67710.pdf?sequence=1>
- Kates, J., Wexler, A., & Valentine, A. (2011). *Donor funding for health in low- and middle-income countries, 2002-2009*. Retrieved from [http://www.who.int/workforcealliance/knowledge/resources/KFF\\_Jan2013.pdf](http://www.who.int/workforcealliance/knowledge/resources/KFF_Jan2013.pdf)
- Kirkland, J. W. (1991). Guidelines and indications for coronary artery bypass graft surgery: A report of the American College of Cardiology/American Heart Association task force on assessment of diagnostic and therapeutic cardiovascular procedures (subcommittee on coronary artery bypass graft surgery). *American College of Cardiology*, 17(3), 543-589. doi:10.1016/S0735-1097(10)80169-X
- Kurti, L., & Rudland, S. (2010). *Evaluation of the Queensland Physician's Assistant Pilot*. Retrieved from <http://citeseerx.ist.psu.edu/viewdoc/download;jsessionid=0B32768A123E8B51662A178C309118F1?doi=10.1.1.174.3411&rep=rep1&type=pdf>
- Ledford, M. K., Lambrew, J. M., Rothman, D. J., & Podesta, J. D. (2008). *The Health Care Delivery System: A Blueprint for Reform*. Retrieved from [http://static.stevereads.com/papers\\_to\\_read/the\\_health\\_delivery\\_system\\_a\\_blueprint\\_for\\_reform.pdf](http://static.stevereads.com/papers_to_read/the_health_delivery_system_a_blueprint_for_reform.pdf)
- Lueck, S. (2009). What Level of Coverage Will Health Reform Likely Provide? The Basics of Actuarial Value. *Center on Budget and Policy Priorities*.
- Maggio, E. (2009). Rural Hospitals Struggle to Attract Patients and Remain Viable: Fact Sheet (pp. 2): RAND Corporation.

- Miller, W., Riehl, E., Napier, M., Barber, K., & Dabideen, H. (1998). Use of physician assistants as surgery/trauma house staff at an American College of Surgeons-verified Level II trauma center. *J Trauma*, 44(2), 372-376.
- Mullan, F., & Frehywot, S. (2007). Non-physician clinicians in 47 sub-Saharan African countries. *The Lancet*, 370(9605), 2158-2163. doi:10.1016/s0140-6736(07)60785-5
- Nelson, S. C., & Hooker, R. S. (2016). Physician Assistants and Nurse Practitioners in Rural Washington Emergency Departments. *J Physician Assist Educ*, 27(2), 56-62. doi:10.1097/JPA.0000000000000074
- Osborn, R., Squires, D., Doty, M. M., Sarnak, D. O., & Schneider, E. C. (2016). In New Survey Of Eleven Countries, US Adults Still Struggle With Access To And Affordability Of Health Care. *Health Aff (Millwood)*, 35(12), 2327-2336. doi:10.1377/hlthaff.2016.1088
- Page, L. (2008). Mid Level Boost or Burden? *Medical Economics*.
- Practice, T. L. O. P. (2016). The Landscape Of Physician Practice. *Health Affairs*, 35(3), 388-389. doi:10.1377/hlthaff.2016.0028
- Pulchini, J., Ippolito, R., & O'Rourke, N. C. (2009). *Role Maximization of Nurse Practitioners and Physician Assistants in Boston: A Position Paper of the Workforce Capacity Subgroup. Mayor's Taskforce on Improving Access to Primary Care in Boston*. Retrieved from [https://www.researchgate.net/publication/256662406\\_Pulchini\\_J\\_Ippolito\\_R\\_O'Rourke\\_N\\_e\\_t\\_al\\_2009\\_Role\\_Maximization\\_of\\_Nurse\\_Practitioners\\_and\\_Physician\\_Assistants\\_in\\_Boston\\_A\\_Position\\_Paper\\_of\\_the\\_Workforce\\_Capacity\\_Subgroup\\_Mayor's\\_Taskforce\\_on\\_Improvi](https://www.researchgate.net/publication/256662406_Pulchini_J_Ippolito_R_O'Rourke_N_e_t_al_2009_Role_Maximization_of_Nurse_Practitioners_and_Physician_Assistants_in_Boston_A_Position_Paper_of_the_Workforce_Capacity_Subgroup_Mayor's_Taskforce_on_Improvi)
- Rayburn, W. F., & Tracy, E. E. (2016). Changes in the Practice of Obstetrics and Gynecology. *Obstet Gynecol Surv*, 71(1), 43-50. doi:10.1097/OGX.0000000000000264
- Resnick, C. M., Daniels, K. M., Flath-Sporn, S. J., Doyle, M., Heald, R., & Padwa, B. L. (2016). Physician Assistants Improve Efficiency and Decrease Costs in Outpatient Oral and Maxillofacial Surgery. *J Oral Maxillofac Surg*, 74(11), 2128-2135. doi:10.1016/j.joms.2016.06.195
- Rick, T. J., & Ballweg, R. (2017). Physician Assistants and the Expanding Global Health-Care Workforce. *Am J Trop Med Hyg*. doi:10.4269/ajtmh.17-0176
- Ross, N., & Parle, J. (2008). Physician assistants: a UK perspective on clinical need, education and regulation. *The Clinical Teacher*, 5(1). doi:10.1111/j.1743-498X.2007.00181.x
- Russell, J. C., Kaplowe, J., & Heinrich, J. (1999). One hospital's successful 20-year experience with physician assistants in graduate medical education. *Acad Med*, 74(6), 641-645.
- Schoen, C. (2009). *Insurance design matters: underinsured trends, health and financial risks, and principles for reform*.
- Silver, M. P., Hamilton, A. D., Biswas, A., & Warrick, N. I. (2016). A systematic review of physician retirement planning. *Hum Resour Health*, 14(1), 67. doi:10.1186/s12960-016-0166-z
- Skillman, S. M., Snyder, C. R., Frogner, B. K., & Patterson, D. G. (2016). The behavioral health workforce needed for integration with primary care: Information for health workforce planning. *Center for Health Workforce Studies*, 18.

Timmons, E. (2016). Healthcare License Turf Wars: The Effects of Expanded Nurse Practitioner and Physician Assistant Scope of Practice on Medicaid Patient Access. *Mercatus Center: George Mason University*.

Zimmerman, J. (1997). Nurse practitioners, physician assistants, and certified nurse-midwives: primary care providers in rural areas. *Prairie Rose*, 66(2), 8a-11a.

# Accountable Care Organizations

- Balto, D. (2011). Making Health Reform Work Accountable Care Organizations and Competition. Retrieved from <http://www.dcantitrustlaw.com/assets/content/documents/CAP/Making%20Health%20Reform%20Work.pdf>
- Burke, T., & Rosenbaum, S. (2010). Accountable Care Organizations: Implications for Antitrust Policy. *BNA's Health Law Reporter, 19(10)*.
- Fisher, E. S., & Shortell, S. M. (2010). *Accountable Care Organizations: Accountable for What, to Whom, and How?* Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/20959584>
- Merlis, M. (2010). *Health Policy Brief: Accountable Care Organizations.* Retrieved from [http://www.healthaffairs.org/healthpolicybriefs/brief.php?brief\\_id=23](http://www.healthaffairs.org/healthpolicybriefs/brief.php?brief_id=23)
- Shields, M. C., Patel, P. H., Manning, M., & Sacks, L. (2011). A model for integrating independent physicians into accountable care organizations. *Health Aff (Millwood), 30(1)*, 161-172. doi:10.1377/hlthaff.2010.082

# Audit and Feedback

Colla, C. H., Dow, W. H., & Dube, A. (2011). *The Labor Market Impact of Employer Health Benefit Mandates: Evidence from San Francisco's Health Care Security Ordinance*. Retrieved from <https://www.rwjf.org/en/library/research/2011/07/the-labor-market-impact-of-employer-health-benefit-mandates-.html>

Dahabreh, I. J., Chung, M., Kitsios, G. D., Terasawa, T., Raman, G., Tatsioni, A., Schmid, C. H. (2012). *Comprehensive Overview of Methods and Reporting of Meta-Analyses of Test Accuracy*. Retrieved from Rockville, MD: www.effectivehealthcare.ahrq.gov/reports/final.cfm

Fang, R. (2012). Providing Practice-Based Evidence of PA Value to Healthcare System and Patients by Enhancing PA Data Collection and Research.

LaBarbera, D. M. (2010). Gender differences in the vocational satisfaction of physician assistants. *JAAPA*, 23(10), 33-34, 36-39.

Will, K. K., Williams, J., Hilton, G., Wilson, L., & Geyer, H. (2016). Perceived efficacy and utility of postgraduate physician assistant training programs. *JAAPA*, 29(3), 46-48.  
doi:10.1097/01.JAA.0000480569.39885.c8

# Autonomy

AAPA (2016). *Chart cosignature: what is best for patient care?* Retrieved from Alexandria, VA:  
<https://www.aapa.org/WorkArea/DownloadAsset.aspx?id=634>

Hooker, R. S. (2015). Is physician assistant autonomy inevitable? *Journal of the American Academy of Physician Assistants*, 28(1), 18-20.

Rubenstein, E. B., Fender, A., Rolston, K. V., Elting, L. S., Prasco, P., Palmer, J. (1995). Vascular access by physician assistants: evaluation of an implantable peripheral port system in cancer patients. *J Clin Oncol*, 13(6), 1513-1519.

# Burnout

Benson, M. A., Peterson, T., Salazar, L., Morris, W., Hall, R., Howlett, B., & Phelps, P. (2016). Burnout in Rural Physician Assistants: An Initial Study. *J Physician Assist Educ*, 27(2), 81-83.  
doi:10.1097/JPA.0000000000000069

Salim, A., Teixeira, P., Chan, L., Oncel, D., Inaba, K., Brown, C., & Berne, T. V. (2007). Impact of the 80-Hour Workweek on Patient Care at a Level I Trauma Center. *JAMA*, 298(8), 708-714.  
doi:10.1001/archsurg.142.8.708

Salyers, M. P., Bonfils, K. A., Luther, L., Firmin, R. L., White, D. A., Adams, E. L., & Rollins, A. L. (2016). The Relationship Between Professional Burnout and Quality and Safety in Healthcare: A Meta-Analysis. *J Gen Intern Med*. doi:10.1007/s11606-016-3886-9

Shanafelt, T. D., Hasan, O., Dyrbye, L. N., Sinsky, C., Satele, D., Sloan, J., & West, C. P. (2015). Changes in Burnout and Satisfaction With Work-Life Balance in Physicians and the General US Working Population Between 2011 and 2014. *Mayo Clin Proc*, 90(12), 1600-1613.  
doi:10.1016/j.mayocp.2015.08.023

Willard-Grace, R., Hessler, D., Rogers, E., Dube, K., Bodenheimer, T., & Grumbach, K. (2014). Team structure and culture are associated with lower burnout in primary care. *J Am Board Fam Med*, 27(2), 229-238. doi:10.3122/jabfm.2014.02.130215

# Career Choice and Mobility

- Coplan, B., Cawley, J., & Stoehr, J. (2013). Physician assistants in primary care: trends and characteristics. *Ann Fam Med*, 11(1), 75-79. doi:10.1370/afm.1432
- Flinkman, M., Leino-Kilpi, H., & Salanterä, S. (2010). Nurses' intention to leave the profession: integrative review. *J Adv Nurs*, 66(7), 1422-1434. doi:10.1111/j.1365-2648.2010.05322.x
- Hauer, K. E., Durning, S. J., Kernan, W. N., Fagan, M. J., Mintz, M., O'Sullivan, P. S., & Schwartz, M. D. (2008). Factors associated with medical students' career choices regarding internal medicine. *JAMA*, 300(10), 1154-1164. doi:10.1001/jama.300.10.1154
- Hooker, R. S., Cawley, J. F., & Leinweber, W. (2010). Career flexibility of physician assistants and the potential for more primary care. *Health Aff (Millwood)*, 29(5), 880-886. doi:10.1377/hlthaff.2009.0884
- LaBarbera, D. M. (2010). Gender differences in the vocational satisfaction of physician assistants. *JAAPA*, 23(10), 33-34, 36-39.
- Morgan, P. A., & Hooker, R. S. (2010). Choice of specialties among physician assistants in the United States. *Health Aff (Millwood)*, 29(5), 887-892. doi:10.1377/hlthaff.2008.0835
- Rodgers, G. P., Conti, J. B., Feinstein, J. A., Griffin, B. P., Kennett, J. D., Shah, S., & Williams, J. L. (2009). ACC 2009 survey results and recommendations: Addressing the cardiology workforce crisis A report of the ACC board of trustees workforce task force. *J Am Coll Cardiol*, 54(13), 1195-1208. doi:10.1016/j.jacc.2009.08.001
- Warner, M. L., Maio, C., & Hudmon, K. S. (2013). Career patterns of physician assistants: a retrospective longitudinal study. *JAAPA*, 26(6), 44-48. doi:10.1097/01.jaa.0000430342.95024.13

# Clinical Care

- AAPA (2016). *PA education: preparation for excellence*. Retrieved from Alexandria, VA: <https://www.aapa.org/WorkArea/DownloadAsset.aspx?id=580>
- Armitage, M., & Shepherd, S. (2005). A new professional in the healthcare workforce: role, training, assessment and regulation. *Clin Med (Lond)*, 5(4), 311-314.
- Ballweg, Sullivan, Brown, & Vetrosky. (2011). *Physician Assistant: A Guide to Clinical Practice, 5th Edition*
- Brown, J. B., Boles, M., Mullooly, J. P., & Levinson, W. (1999). Effect of clinician communication skills training on patient satisfaction. A randomized, controlled trial. *Ann Intern Med*, 131(11), 822-829.
- Buch, K. E., Genovese, M. Y., Conigliaro, J. L., Nguyen, S. Q., Byrn, J. C., Novembre, C. L., & Divino, C. M. (2008). Non-physician practitioners' overall enhancement to a surgical resident's experience. *J Surg Educ*, 65(1), 50-53. doi:10.1016/j.jsurg.2007.07.002
- Carpenter, D. (2006). Perspectives on the physician assistant specialty credentialing debate. Education, not certification. *JAAPA*, 19(8), 16, 19-20.
- Choo, K. J., Arora, V. M., Barach, P., Johnson, J. K., & Farnan, J. M. (2014). How do supervising physicians decide to entrust residents with unsupervised tasks? A qualitative analysis. *J Hosp Med*, 9(3), 169-175. doi:10.1002/jhm.2150
- Dorn, S. D. (2010). Mid-level providers in gastroenterology. *Am J Gastroenterol*, 105(2), 246-251. doi:10.1038/ajg.2009.275
- Ekwo, E., Daniels, M., Oliver, D., & Fethke, C. (1979). The physician assistant in rural primary care practices: physician assistant activities and physician supervision at satellite and non-satellite practice sites. *Med Care*, 17(8), 787-795.
- Hong, K., Georgiades, C. S., Hebert, J., Wahlin, T., Mitchell, S. E., & Geschwind, J. F. (2006). Incorporating physician assistants and physician extenders in the contemporary interventional oncology practice. *Tech Vasc Interv Radiol*, 9(3), 96-100. doi:10.1053/j.tvir.2007.02.005
- Hussaini, S. S., Bushardt, R. L., Gonsalves, W. C., Hilton, V. O., Hornberger, B. J., Labagnara, F. A., & Williams, J. S. (2016). Accreditation and implications of clinical postgraduate PA training programs. *JAAPA*, 29(5), 1-7. doi:10.1097/01.JAA.0000482298.17821.fb
- Kauffman, M., & Ferretti, S. M. (2014). The accelerated physician assistant pathway: a three-year medical school curriculum for physician assistants to obtain DO degrees. *Acad Med*, 89(12), 1645-1648. doi:10.1097/ACM.0000000000000307
- Kilminster, S. M., & Jolly, B. C. (2000). Effective supervision in clinical practice settings: a literature review. *Med Educ*, 34(10), 827-840.
- Lee, V. S., Miller, T., Daniels, C., Paine, M., Gresh, B., & Betz, A. L. (2016). Creating the Exceptional Patient Experience in One Academic Health System. *Acad Med*, 91(3), 338-344. doi:10.1097/ACM.0000000000001007

- Lipner, R. S., Young, A., Chaudhry, H. J., Duhigg, L. M., & Papadakis, M. A. (2016). Specialty Certification Status, Performance Ratings, and Disciplinary Actions of Internal Medicine Residents. *Acad Med*, 91(3), 376-381. doi:10.1097/ACM.0000000000001055
- Marzucco, J. (2016). Endoscopy by nonphysicians: Conclusions based on faulty data. *JAAPA*, 29(4), 1. doi:10.1097/01.JAA.0000481416.34409.de
- Mathur, M., Rampersad, A., Howard, K., & Goldman, G. M. (2005). Physician assistants as physician extenders in the pediatric intensive care unit setting-A 5-year experience. *Pediatr Crit Care Med*, 6(1), 14-19. doi:10.1097/01.PCC.0000149133.50687.A1
- McLaughlin, R. J., Fasser, C. E., Spence, L. R., & Holcomb, J. D. (2010). Development and implementation of a health behavioral counseling curriculum for physician assistant cancer education. *J Cancer Educ*, 25(1), 9-15. doi:10.1007/s13187-010-0038-5
- Morgan, P., Everett, C. M., & Hing, E. (2014). Time spent with patients by physicians, nurse practitioners, and physician assistants in community health centers, 2006-2010. *Healthc (Amst)*, 2(4), 232-237. doi:10.1016/j.hjdsi.2014.09.009
- Oswanski, M. F., Sharma, O. P., & Raj, S. S. (2004). Comparative review of use of physician assistants in a level I trauma center. *Am Surg*, 70(3), 272-279.
- Resnick, A. S., Todd, B. A., Mullen, J. L., & Morris, J. B. (2006). How do surgical residents and non-physician practitioners play together in the sandbox? *Curr Surg*, 63(2), 155-164. doi:10.1016/j.cursur.2005.12.009
- Spence, L. R., Fasser, C. E., McLaughlin, R. J., & Holcomb, J. D. (2010). Self-assessment of cancer competencies and physician assistant cancer education: instrument development and baseline testing. *J Physician Assist Educ*, 21(3), 4-12.

# Communities of Practice

- Boutwell, A. E., Johnson, M. B., Rutherford, P., Watson, S. R., Vecchioni, N., Auerbach, B. S., Wagner, C. (2011). An early look at a four-state initiative to reduce avoidable hospital readmissions. *Health Aff (Millwood)*, 30(7), 1272-1280. doi:10.1377/hlthaff.2011.0111
- Capstack, T. M., Seguijia, C., Vollono, L. M., Moser, J. D., Meisenberg, B. R., & Michalik, H. J. (2016). A Comparison of Conventional and Expanded Physician Assistant Hospitalist Staffing Models at a Community Hospital.
- Doty, M. M., Abrams, M. K., Hernandez, S. E., Stremikis, K., & Beal, A. C. (2010). *Enhancing the Capacity of Community Health Centers to Achieve High Performance*. Retrieved from [http://www.commonwealthfund.org/~media/Files/Publications/Fund%20Report/2010/May/1392\\_Doty\\_enhancing\\_capacity\\_community\\_hlt\\_ctrs\\_2009\\_FQHC\\_survey\\_v5.pdf](http://www.commonwealthfund.org/~media/Files/Publications/Fund%20Report/2010/May/1392_Doty_enhancing_capacity_community_hlt_ctrs_2009_FQHC_survey_v5.pdf)
- Gresenz, C. R., & Escarce, J. J. (2011). Spillover effects of community uninsurance on working-age adults and seniors: an instrumental variables analysis. *Med Care*, 49(9), e14-21. doi:10.1097/MLR.0b013e31822dc7f4
- Haveman, R. H. (2010). Principles to guide the development of population health incentives. *Prev Chronic Dis*, 7(5), A94.
- Henry, L. R., & Hooker, R. S. (2014). Caring for the disadvantaged: the role of physician assistants. *JAAPA*, 27(1), 36-42. doi:10.1097/01.JAA.0000438532.92138.53
- Hing, E., Hooker, R. S., & Ashman, J. J. (2011). Primary health care in community health centers and comparison with office-based practice. *J Community Health*, 36(3), 406-413. doi:10.1007/s10900-010-9322-x
- Hing, E., & Uddin, S. (2010). Visits to primary care delivery sites: United States, 2008. *NCHS Data Brief*(47), 1-8.
- Kurtzman, E. T., Barnow, B. S., Johnson, J. E., Simmens, S. J., Infeld, D. L., & Mullan, F. (2017). Does the Regulatory Environment Affect Nurse Practitioners' Patterns of Practice or Quality of Care in Health Centers? *Health Serv Res*, 52 Suppl 1, 437-458. doi:10.1111/1475-6773.12643
- Lewis, S. (2010). Creating Incentives to Improve Population Health. *Preventing Chronic Disease*, 7(5), 1-4.
- McGinnis, J. M. (2010). Observations on incentives to improve population health. *Prev Chronic Dis*, 7(5), A92.
- Morgan, P., Everett, C. M., & Hing, E. (2014). Time spent with patients by physicians, nurse practitioners, and physician assistants in community health centers, 2006-2010. *Healthc (Amst)*, 2(4), 232-237. doi:10.1016/j.hjdsi.2014.09.009
- Seidman, G., & Atun, R. (2017). Does task shifting yield cost savings and improve efficiency for health systems? A systematic review of evidence from low-income and middle-income countries. *Hum Resour Health*, 15(1), 29. doi:10.1186/s12960-017-0200-9
- Yang, B. K., Trinkoff, A. M., Zito, J. M., Burcu, M., Safer, D. J., Storr, C. L., Idzik, S. (2017). Nurse Practitioner Independent Practice Authority and Mental Health Service Delivery in U.S.

Community Health Centers. *Psychiatr Serv*, appips201600495.  
doi:10.1176/appi.ps.201600495

# Compensation

- AAMC. (2014). Starting Salaries for Physician Specialties. Retrieved from <https://members.aamc.org/eweb/upload/2014%20Annual%20Report%20non-flash.pdf>
- Altman, D. (2011). *Employer Health Benefits 2011 Annual Survey*. Kaiser Family Foundation. <https://kaiserfamilyfoundation.files.wordpress.com/2013/04/8225.pdf>
- Baxter, E. (2015). How the Gender Wage Gap Differs by Occupation . Center for American Progress. <https://www.americanprogress.org/issues/women/news/2015/04/14/110959/how-the-gender-wage-gap-differs-by-occupation/>
- Chalupa, R. L., & Hooker, R. S. (2016). The education, role, distribution, and compensation of physician assistants in orthopedic surgery. *JAAPA*, 29(5), 1-7. doi:10.1097/01.JAA.0000482318.38700.d1
- Filipova, A. A. (2014). Factors influencing the satisfaction of rural physician assistants: a cross-sectional study. *J Allied Health*, 43(1), 22-31.
- Freeborn, D. K., & Hooker, R. S. (1995). Satisfaction of physician assistants and other nonphysician providers in a managed care setting. *Public Health Rep*, 110(6), 714-719.
- Hooker, R. S., Kuilman, L., & Everett, C. M. (2015). Physician Assistant Job Satisfaction: A Narrative Review of Empirical Research. *J Physician Assist Educ*, 26(4), 176-186. doi:10.1097/JPA.0000000000000047
- Leibbrandt, A., & List, J. (2012). Do Women Avoid Salary Negotiations? Evidence from a Large Scale Natural Field Experiment. *Management Sciences*, 19(9), 2016-2024. doi:10.3386/w18511
- Morgan, P. A., & Hooker, R. S. (2010). Choice of specialties among physician assistants in the United States. *Health Aff (Millwood)*, 29(5), 887-892. doi:10.1377/hlthaff.2008.0835
- Morgan, P., Everett, C. M., Humeniuk, K. M., & Valentin, V. L. (2016). Physician assistant specialty choice: Distribution, salaries, and comparison with physicians. *JAAPA*, 29(7), 46-52. doi:10.1097/01.JAA.0000484301.35696.16
- Nuckols, T. K., Bhattacharya, J., Wolman, D. M., Ulmer, C., & Escarce, J. J. (2009). Cost implications of reduced work hours and workloads for resident physicians. *N Engl J Med*, 360(21), 2202-2215. doi:10.1056/NEJMsa0810251
- Parks, A. L., & Redberg, R. F. (2016). Women in medicine and patient outcomes: Equal rights for better work? *JAMA Internal Medicine*. doi:10.1001/jamainternmed.2016.7883
- Perry, J. J. (2009). The Rise and Impact of Nurse Practitioners and Physician Assistants on Their Own and Cross-Occupation Incomes. *Contemporary Economic Policy*, 27(4), 491-511. doi:10.1111/j.1465-7287.2009.00162.x
- Record, J. C., McCally, M., Schweitzer, S. O., Blomquist, R. M., & Berger, B. D. (1980). New health professions after a decade and a half: delegation, productivity and costs in primary care. *J Health Polit Policy Law*, 5(3), 470-497.
- Rodgers, G. P., Conti, J. B., Feinstein, J. A., Griffin, B. P., Kennett, J. D., Shah, S., & Williams, J. L. (2009). ACC 2009 survey results and recommendations: Addressing the cardiology workforce

crisis A report of the ACC board of trustees workforce task force. *J Am Coll Cardiol*, 54(13), 1195-1208. doi:10.1016/j.jacc.2009.08.001

Smith, N., Cawley, J. F., & McCall, T. C. (2017). Examining the Gap: Compensation Disparities between Male and Female Physician Assistants. *Womens Health Issues*. doi:10.1016/j.whi.2017.05.001

Thourani, V. H., & Miller, J. I., Jr. (2006). Physicians assistants in cardiothoracic surgery: a 30-year experience in a university center. *Ann Thorac Surg*, 81(1), 195-199; discussion 199-200. doi:10.1016/j.athoracsur.2005.07.031

Zorn, J., Snyder, J., & Satterblom, K. (2009). Analysis of incomes of new graduate physician assistants and gender, 1998-2006. *J Allied Health*, 38(3), 127-131.

Morgan, P., Everett, C. M., Humeniuk, K. M., & Valentin, V. L. (2016). Physician assistant specialty choice: Distribution, salaries, and comparison with physicians. *JAAPA*, 29(7), 46-52. doi:10.1097/01.JAA.0000484301.35696.16

# Cost and Cost Effectiveness

- Ackermann, R. J., & Kemle, K. A. (1998). The effect of a physician assistant on the hospitalization of nursing home residents. *J Am Geriatr Soc*, 46(5), 610-614.
- Adamson, T. E. (1971). Critical issues in the use of physician associates and assistants. *Am J Public Health*, 61(9), 1765-1779.
- Addison, E. (2012). *Safety Net Hospital Programs Improve Quality and Reduce Costs*. Retrieved from <https://www.rand.org/news/press/2017/06/23.html>
- Angeles, J. (2010). Making Health Care More Affordable: The New Premium and Cost-Sharing Credits. In T. C. o. B. a. P. Priorities (Ed.).
- Angeles, J. (2011). *Out-of-Pocket Medical Costs Would Skyrocket for Low-Income Seniors and People with Disabilities Under the Ryan Budget Plan*. Retrieved from <https://www.cbpp.org/research/out-of-pocket-medical-costs-would-skyrocket-for-low-income-seniors-and-people-with>
- Arrow, K. J. (1963). UNCERTAINTY AND THE WELFARE ECONOMICS OF MEDICAL CARE. *The American Economic Review*, 53(5), 941-973.
- Ashwood, J. S., Gaynor, M., Setodji, C. M., Reid, R. O., Weber, E., & Mehrotra, A. (2016). Retail Clinic Visits For Low-Acuity Conditions Increase Utilization And Spending. *Health Aff (Millwood)*, 35(3), 449-455. doi:10.1377/hlthaff.2015.0995
- Bailit, M. H., Phillips, K., & Long, A. (2010). *Paying for the Medical Home: Payment Models to Support Patient-Centered Medical Home Transformation in the Safety Net*. Retrieved from Seattle, WA: <http://www.safetynetmedicalhome.org/sites/default/files/policy-brief-1.pdf>
- Berenson, R. A., & Burton, R. A. (2012). *Next Steps for ACOs*. Retrieved from <http://www.rwjf.org/en/library/research/2012/01/next-steps-for-acos.html>
- Berenson, R. A., & Coughlin, T. A. (2011). *Success Factors in High Quality Low Cost Plans* Retrieved from [http://www.commonwealthfund.org/~media/files/publications/fund-report/2011/mar/1482\\_berenson\\_success\\_factors\\_five\\_plans\\_final\\_disclaimer.pdf](http://www.commonwealthfund.org/~media/files/publications/fund-report/2011/mar/1482_berenson_success_factors_five_plans_final_disclaimer.pdf)
- Bernstein, J., Chollet, D., & Peterson, G. G. (2010). *Encouraging Appropriate Use of Preventive Health Services*. Retrieved from file:///C:/Users/dmelton/Downloads/reformhealthcare\_IB2.pdf
- Bernstein, J., Chollet, D. J., & Peterson, S. (2010). Financial Incentives for Health Care Providers and Consumers. *Mathematica*, 5.
- Berenson, R. A. (2010). Out of Whack: Pricing Distortions in the Medicare Physician Fee Schedule.
- Blumm, R. (2008). Is now the time to hire a surgical PA? A physician assistant can extend your reach and relieve your stress. *Contemporary Surgery*, 64(12), 562+.
- Bovbjerg, R. R., & Chen, V. (2011). State Budgets Under Federal Health Reform: The Extent and Causes of Variations in Estimated Impacts.
- Braverman, P., & Egerter, S. (2008). *Overcoming Obstacles to Health*. Retrieved from <http://www.rwjf.org/en/library/research/2008/02/overcoming-obstacles-to-health.html>

- Cassidy, A. (2010). *Patient-Centered Medical Homes*. Retrieved from [http://healthaffairs.org/healthpolicybriefs/brief\\_pdfs/healthpolicybrief\\_25.pdf](http://healthaffairs.org/healthpolicybriefs/brief_pdfs/healthpolicybrief_25.pdf)
- Buettgens, M., Dorn, S., & Carroll, C. (2011). *Consider Savings as Well as Costs*. Retrieved from <http://www.urban.org/sites/default/files/publication/27391/412361-ACA-and-State-Governments-Consider-Savings-as-Well-as-Costs.PDF>
- Buchanan, J. L., & Hosek, S. D. (1983). *Costs, Productivity, and the Utilization of Physician's Extenders in Air Force Primary Medicine Clinics*. Retrieved from <https://www.rand.org/content/dam/rand/pubs/reports/2006/R2896.pdf>
- Chandra, A., Gruber, J., & McKnight, R. (2010). Patient Cost Sharing in Low Income Populations. *American Economic Review*, 100(2), 303-308. doi:10.1257/aer.100.2.303
- CHCQ. (2011). *Lessons Learned in Public Reporting: Crossing the Cost and Efficiency Frontier*. Retrieved from <http://www.rwjf.org/en/library/research/2011/05/lessons-learned-in-public-reporting.html>
- Craig, C. K., Holmes, J. H. t., & Carter, J. E. (2017). Return on investment of advanced practice medical degrees: NPs vs. PAs. *JAAPA*, 30(6), 35-38. doi:10.1097/01.JAA.0000516349.73631.c2
- Davenport, K., Hodin, R. M., & Feder, J. (2010). *The "Dual Eligible" Opportunity Improving Care and Reducing Costs for Individuals Eligible for Medicare and Medicaid*. Retrieved from [https://www.communitycatalyst.org/doc-store/publications/dual\\_eligibles.pdf](https://www.communitycatalyst.org/doc-store/publications/dual_eligibles.pdf)
- Davis, K. (2010, August 2, 2010). Coherent and Transparent Health Care Payment: Sending the Right Signals in the Marketplace.
- Dehn, R. W., Berkowitz, O., & Coombs, J. M. (2016). Commentaries on health services research. *JAAPA*, 29(12), 1-2. doi:10.1097/01.JAA.0000508209.40675.df
- Doan, Q., Hall, W., Shechter, S., Kissoon, N., Sheps, S., Singer, J., Johnson, D. (2014). Forecasting the effect of physician assistants in a pediatric ED. *JAAPA*, 27(8), 35-41. doi:10.1097/01.JAA.0000451860.95151.e1
- Dorn, S. D. (2010). Mid-level providers in gastroenterology. *Am J Gastroenterol*, 105(2), 246-251. doi:10.1038/ajg.2009.275
- Eibner, C. (2008). *Is the Economic Burden of Providing Health Insurance Greater for Small Firms Than for Large Firms?* Retrieved from [https://www.rand.org/pubs/research\\_briefs/RB9340/index1.html](https://www.rand.org/pubs/research_briefs/RB9340/index1.html)
- Ellis, M., & Krol, E. (2005). A case study on the use of physician assistants in college health. *Pediatr Clin North Am*, 52(1), 1-8, vii. doi:10.1016/j.pcl.2004.10.001
- Essary, A. C., Coplan, B. H., Cawley, J. F., Schneller, E. S., & Ohsfeldt, R. L. (2016). Women, family medicine, and career choice: An opportunity cost analysis. *JAAPA*, 29(9), 44-48. doi:10.1097/01.JAA.0000490949.02814.bc
- Grimes, K., & Prada, G. (2016). Value of Physician Assistants: Understanding the Role of Physician Assistants within Health Systems. *The Conference Board of Canada*.

- Grzybicki, D. M., Sullivan, P. J., Oppy, J. M., Bethke, A. M., & Raab, S. S. (2002). The economic benefit for family/general medicine practices employing physician assistants. *Am J Manag Care*, 8(7), 613-620.
- Hammon, M., & Hammon, W. E. (2005). Properly billing for "incident to" clinical services/treatments provided by auxiliary staff. *J Okla State Med Assoc*, 98(4), 159-160.
- Hedges, J. R. (2005). Physician extenders in the emergency department. *Emerg Med J*, 22(5), 314-315. doi:10.1136/emj.2004.022996
- Hiza, E. A., Gottschalk, M. B., Umpierrez, E., Bush, P., & Reisman, W. M. (2015). Effect of a Dedicated Orthopaedic Advanced Practice Provider in a Level I Trauma Center: Analysis of Length of Stay and Cost. *J Orthop Trauma*, 29(7), e225-230. doi:10.1097/BOT.0000000000000261
- Hooker, R. S. (2002). A cost analysis of physician assistants in primary care. *JAAPA*, 15(11), 39-42, 45, 48.
- Hooker, R. S., & Muchow, A. N. (2015). Modifying State Laws for Nurse Practitioners and Physician Assistants Can Reduce Cost Of Medical Services. *Nursing Economics*, 33(2), 88-94.
- Hsiao, W. C., Knight, A. G., Kappel, S., & Done, N. (2011). What other states can learn from Vermont's bold experiment: embracing a single-payer health care financing system. *Health Aff (Millwood)*, 30(7), 1232-1241. doi:10.1377/hlthaff.2011.0515
- Hughes, N. (2005). Should you add a PA or an NP to your practice? *J Med Pract Manage*, 20(4), 203-206.
- Hussey, P. S., Eibner, C., Ridgely, M. S., & McGlynn, E. A. (2009). Controlling U.S. Health Care Spending — Separating Promising from Unpromising Approaches. *New England Journal of Medicine*, 361(22), 2109-2111. doi:doi:10.1056/NEJMp0910315
- Johansen, M. E. (2017). Comparing Medical Ecology, Utilization, and Expenditures Between 1996-1997 and 2011-2012. *Annals of Family Medicine*, 15(4), 313-321.
- Laurant, M., Harmsen, M., Wollersheim, H., Grol, R., Faber, M., & Sibbald, B. (2009). The impact of nonphysician clinicians: do they improve the quality and cost-effectiveness of health care services? *Med Care Res Rev*, 66(6 Suppl), 36S-89S. doi:10.1177/1077558709346277
- Ledford, M. K., Lambrew, J. M., Rothman, D. J., & Podesta, J. D. (2008). *The Health Care Delivery System: A Blueprint for Reform*. Retrieved from [http://static.stevereads.com/papers\\_to\\_read/the\\_health\\_care\\_delivery\\_system\\_a\\_blueprint\\_for\\_reform.pdf](http://static.stevereads.com/papers_to_read/the_health_care_delivery_system_a_blueprint_for_reform.pdf)
- Levy, C., Palat, S. I., & Kramer, A. M. (2007). Physician practice patterns in nursing homes. *J Am Med Dir Assoc*, 8(9), 558-567. doi:10.1016/j.jamda.2007.06.015
- Lewis, G. H., Vaithianathan, R., Hockey, P. M., Hirst, G., & Bagian, J. P. (2011). Counter heroism, common knowledge, and ergonomics: concepts from aviation that could improve patient safety. *Milbank Q*, 89(1), 4-38. doi:10.1111/j.1468-0009.2011.00623.x
- Mafi, J. N., Wee, C. C., Davis, R. B., & Landon, B. E. (2016). Comparing Use of Low-Value Health Care Services Among U.S. Advanced Practice Clinicians and Physicians. *Ann Intern Med*. doi:10.7326/M15-2152

- Marzucco, J., Mancini, M. E., & Dehn, R. W. (2016). Commentaries on health services research. *JAAPA*, 29(4), 1-2. doi:10.1097/01.JAA.0000481416.34409.de
- McCarthy, D., & Klein, S. (2010). The Triple Aim Journey: Improving Population Health and Patients' Experience of Care, While Reducing Costs. *Commonwealth Fund*, 48.
- McCue, M., Hall, M., & Liu, X. (2013). Impact of medical loss regulation on the financial performance of health insurers. *Health Aff (Millwood)*, 32(9), 1546-1551. doi:10.1377/hlthaff.2012.1316
- Moses, H., Matheson, D. H., Dorsey, E. R., George, B. P., Sadoff, D., & Yoshimura, S. (2013). The anatomy of health care in the United States. *JAMA*, 310(18), 1947-1963. doi:10.1001/jama.2013.281425
- Nabagiez, J. P., Shariff, M. A., Molloy, W. J., Demissie, S., & McGinn, J. T., Jr. (2016). Cost Analysis of Physician Assistant Home Visit Program to Reduce Readmissions After Cardiac Surgery. *Ann Thorac Surg*. doi:10.1016/j.athoracsur.2016.03.077
- Nelson, E. C., Jacobs, A. R., Cordner, B. A., & Johnson, K. G. (1975). Financial Impact of Physician Assistants on Medical Practice. *New England Journal of Medicine*, 293, 527-530. doi:10.1056/NEJM197509112931104
- Nuckols, T. K., Bhattacharya, J., Wolman, D. M., Ulmer, C., & Escarce, J. J. (2009). Cost implications of reduced work hours and workloads for resident physicians. *NEngl J Med*, 360(21), 2202-2215. doi:10.1056/NEJMsa0810251
- O'Connor, T. M., & Hooker, R. S. (2007). Extending rural and remote medicine with a new type of health worker: physician assistants. *Aust J Rural Health*, 15(6), 346-351. doi:10.1111/j.1440-1584.2007.00926.x
- Patient Cost-Sharing Under the Affordable Care Act*. (2012). Retrieved from <http://www.kff.org/health-costs/report/patient-cost-sharing-under-the-affordable-care/>
- Perloff, J., DesRoches, C. M., & Buerhaus, P. (2016). Comparing the Cost of Care Provided to Medicare Beneficiaries Assigned to Primary Care Nurse Practitioners and Physicians. *Health Serv Res*, 51(4), 1407-1423. doi:10.1111/1475-6773.12425
- Record, J. C., McCally, M., Schweitzer, S. O., Blomquist, R. M., & Berger, B. D. (1980). New health professions after a decade and a half: delegation, productivity and costs in primary care. *J Health Polit Policy Law*, 5(3), 470-497.
- Resnick, C. M., Daniels, K. M., Flath-Sporn, S. J., Doyle, M., Heald, R., & Padwa, B. L. (2016). Physician Assistants Improve Efficiency and Decrease Costs in Outpatient Oral and Maxillofacial Surgery. *J Oral Maxillofac Surg*, 74(11), 2128-2135. doi:10.1016/j.joms.2016.06.195
- Riley, L., Litsch, T., & Cook, M. L. (2016). Preparing the next generation of health care providers: A description and comparison of nurse practitioner and medical student tuition in 2015. *J Am Assoc Nurse Pract*, 28(1), 6-10. doi:10.1002/2327-6924.12332
- Robie, S., Dill, M. J., & Hooker, R. S. (2016). Commentaries on health services research. *JAAPA*, 29(6), 1-2. doi:10.1097/01.JAA.0000483108.72025.bb
- Rosenberg, S. M., Rosenthal, D. A., Rajan, D. K., Millward, S. F., Baum, R. A., Silberzweig, J. E. (2008). Position statement: the role of physician assistants in interventional radiology. *J Vasc Interv Radiol*, 19(12), 1685-1689. doi:10.1016/j.jvir.2008.09.004

- Russell, J. C., Kaplowe, J., & Heinrich, J. (1999). One hospital's successful 20-year experience with physician assistants in graduate medical education. *Acad Med*, 74(6), 641-645.
- Salsberg, E., & Quigley, L. (2016). Are we facing a physician assistant surplus? *JAAPA*, 29(11), 40-44. doi:10.1097/01.JAA.0000502865.59093.ef
- Seidman, G., & Atun, R. (2017). Does task shifting yield cost savings and improve efficiency for health systems? A systematic review of evidence from low-income and middle-income countries. *Hum Resour Health*, 15(1), 29. doi:10.1186/s12960-017-0200-9
- Shields, M. C., Patel, P. H., Manning, M., & Sacks, L. (2011). A model for integrating independent physicians into accountable care organizations. *Health Aff (Millwood)*, 30(1), 161-172. doi:10.1377/hlthaff.2010.0824
- Skillman, S. M., Snyder, C. R., Frogner, B. K., & Patterson, D. G. (2016). The behavioral health workforce needed for integration with primary care: Information for health workforce planning. *Center for Health Workforce Studies*, 18.
- Song, Z., Safran, D. G., Landon, B. E., He, Y., Ellis, R. P., Mechanic, R. E., & Chernew, M. E. (2011). Health care spending and quality in year 1 of the alternative quality contract. *N Engl J Med*, 365(10), 909-918. doi:10.1056/NEJMsa1101416
- Stewart, A., & Catanzaro, R. (2005). Can physician assistants be effective in the UK? *Clin Med (Lond)*, 5(4), 344-348.
- Sucov, A., Sidman, R., & Valente, J. (2009). A cost-efficiency analysis to increase clinician staffing in an academic emergency department. *Acad Med*, 84(9), 1211-1216. doi:10.1097/ACM.0b013e3181b187fc
- Timmermans, M. J. C., van den Brink, G. T., van Vught, A., Adang, E., van Berlo, C. L. H., Boxtel, K. V., Laurant, M. G. H. (2017). The involvement of physician assistants in inpatient care in hospitals in the Netherlands: a cost-effectiveness analysis. *BMJ Open*, 7(7), e016405. doi:10.1136/bmjopen-2017-016405
- Troidle, L., & Smith, G. O. (2005). Can physician assistants fill the gaps in the nephrology workforce? *Nephrol News Issues*, 19(4), 65, 67.
- Ubel, P. A., Zhang, C. J., Hesson, A., Davis, J. K., Kirby, C., Barnett, J., & Hunter, W. G. (2016). Study Physician And Patient Communication Identifies Missed Opportunities To Help Reduce Patients' Out-Of-Pocket Spending. *Health Aff (Millwood)*, 35(4), 654-661. doi:10.1377/hlthaff.2015.1280
- Valentin, V. L., Dehn, R. W., & Baker, M. D. (2016). Commentaries on health services research. *JAAPA*, 29(2), 1-2. doi:10.1097/01.JAA.0000476223.32259.b0
- Van Citters, A. D., Larson, B. K., Carluzzo, K. L., Gbemudu, J. N., Kreindler, S. A., Wu, F. M., & Fisher, E. S. (2012). *Four Health Care Organizations' Efforts to Improve Patient Care and Reduce Costs*. Retrieved from <http://www.commonwealthfund.org/publications/case-studies/2012/jan/four-health-care-organizations>
- Williams, J. D., Song, P. H., & Pink, G. H. (2015). Estimated cost of rural freestanding emergency departments. *Rural Health Research Gateway*.

Wozniak, G. D. (1995). Physician utilization of non physician practitioners *AMA socioeconomic characteristics of medical practice 1995*.

Zuckerman, S. (2010). *Timely Analysis of Immediate Health Policy Issues*. Retrieved from <http://www.urban.org/research/publication/what-are-provisions-new-law-containing-costs-and-how-effective-will-they-be>

# Diversity Issues

- Bahls, C. (2011). *Health Policy Brief: Achieving Equity in Health*. Retrieved from [http://healthaffairs.org/healthpolicybriefs/brief\\_pdfs/healthpolicybrief\\_53.pdf](http://healthaffairs.org/healthpolicybriefs/brief_pdfs/healthpolicybrief_53.pdf)
- Baker, K., & Krehely, J. (2011). *Changing the Game: What Health Reform Means for Gay, Lesbian, Bisexual and Transgender Americans*. Retrieved from <https://www.americanprogress.org/issues/lgbt/reports/2011/03/29/9200/changing-the-game/>
- Baxter, E. (2015). How the Gender Wage Gap Differs by Occupation \_ Center for American Progress.
- Everett, C. M., Schumacher, J. R., Wright, A., & Smith, M. A. (2009). Physician assistants and nurse practitioners as a usual source of care. *J Rural Health*, 25(4), 407-414. doi:10.1111/j.1748-0361.2009.00252.x
- Foundation, K. F. (2010). *Health Reform and Communities of Color: Implications for Racial and Ethnic Health Disparities*. Retrieved from <http://www.kff.org/disparities-policy/issue-brief/health-reform-and-communities-of-color-implications/>
- Jacobson, C. K., & Smith, D. T. (2015). Racial and ethnic differences in physician assistant salaries. *JAAPA*, 28(6). doi:10.1097/01.JAA.0000465219.19481.4d
- Jena, A. B., Olenski, A. R., & Blumenthal, D. M. (2016). Sex Differences in Physician Salary in US Public Medical Schools. *JAMA Intern Med*, 176(9), 1294-1304. doi:10.1001/jamainternmed.2016.3284
- Jha, A. K., Orav, E. J., & Epstein, A. M. (2011). Low--Quality, High--Cost Hospitals, Mainly in South, Care for Sharply Higher Shares of Elderly Black, Hispanic, and Medicaid Patients. *Health Affairs*, 30(30), 1904-1911.
- Kates, J., & Fleischman, J. (2011). *The Women, Girls, and Gender Equality Principle of the U.S. Global Health Initiative (GHI): Assessment of the GHI Plus Country Strategies*. Retrieved from <http://www.kff.org/global-health-policy/report/the-women-girls-and-gender-equality-principle/>
- Lieberman, D., & Lalwani, A. (1994). Physician-only and physician assistant statutes: a case of perceived but unfounded conflict. *J Am Med Womens Assoc*, 49(5), 146-149.
- Liu, C. M., Chien, C. W., Chou, P., Liu, J. H., Chen, V. T., Wei, J., & Lang, H. C. (2005). An analysis of job satisfaction among physician assistants in Taiwan. *Health Policy*, 73(1), 66-77. doi:10.1016/j.healthpol.2004.10.004
- Miller, P. W. (2008). The Gender Pay Gap in the US: Does Sector Make a Difference? *Journal of Labor Research*, 30(1), 52-74. doi:10.1007/s12122-008-9050-5
- Moving Toward Racial and Ethnic Equity in Health Care*. (2011). Retrieved from <http://www.rwjf.org/en/library/research/2011/03/moving-toward-racial-and-ethnic-equity-in-health-care.html>
- Moving Toward Racial and Ethnic Equity in Health Care*. (2011). Retrieved from <http://www.rwjf.org/en/library/research/2011/03/moving-toward-racial-and-ethnic-equity-in-health-care.html>

- Nolte, E., & McKee, M. (2011). Variations in amenable mortality--trends in 16 high-income nations. *Health Policy*, 103(1), 47-52. doi:10.1016/j.healthpol.2011.08.002
- Parks, A. L., & Redberg, R. F. (2016). Women in medicine and patient outcomes: Equal rights for better work? *JAMA Internal Medicine*. doi:10.1001/jamainternmed.2016.7883
- Rose, S. L., Sanghani, R. M., Schmidt, C., Karafa, M. T., Kodish, E., & Chisolm, G. M. (2015). Gender Differences in Physicians' Financial Ties to Industry: A Study of National Disclosure Data. *PLoS One*, 10(6), e0129197. doi:10.1371/journal.pone.0129197
- Smith, N., Cawley, J. F., & McCall, T. C. (2017). Examining the Gap: Compensation Disparities between Male and Female Physician Assistants. *Womens Health Issues*. doi:10.1016/j.whi.2017.05.001
- Smith, D. T., & Jacobson, C. K. (2016). Racial and Gender Disparities in the Physician Assistant Profession. *Health Serv Res*, 51(3), 892-909. doi:10.1111/1475-6773.12358
- Silberman, P., Estes, E. H., Jr., Dubay, K. L., & Holmes, M. (2007). Weathering the practitioner workforce shortage. *NC Med J*, 68(3), 159-168.
- Valentin, V. L., Dehn, R. W., & Baker, M. D. (2016). Commentaries on health services research. *JAAPA*, 29(2), 1-2. doi:10.1097/01.JAA.0000476223.32259.b0
- Zorn, J., Snyder, J., & Satterblom, K. (2009). Analysis of incomes of new graduate physician assistants and gender, 1998-2006. *J Allied Health*, 38(3), 127-131.

# Drugs and Prescribing

- Choudhry, N. K., Avorn, J., Glynn, R. J., Antman, E. M., Schneeweiss, S., Toscano, M., Economic Evaluation, T. (2011). Full coverage for preventive medications after myocardial infarction. *N Engl J Med*, 365(22), 2088-2097. doi:10.1056/NEJMsa1107913
- Fujimoto, S., Mizuno, R., Saito, Y., & Nakamura, S. (2004). Clinical application of wave intensity for the treatment of essential hypertension. *Heart Vessels*, 19(1), 19-22. doi:10.1007/
- Goldman, D. P., Geoffrey F. Joyce, Pinar Karaca-Mandic, William B. Vogt, Eric Sun, Anupam B. Jena, & Zheng, Y. (2009). Prescription Drug Cost Sharing: A Powerful Policy Lever to Use with Care. Santa Monica, CA: RAND Corporation.
- Gujral, H., Visconti, C., & Collantes, R. (2004). The role of physician extenders in managing patients with chronic hepatitis C. *Cleve Clin J Med*, 71 Suppl 3, S33-37.
- Muench, U., Coffman, J., & Spetz, J. (2015). Does Independent Scope of Practice Affect Prescribing Outcomes, Healthcare Costs, and Utilization? Retrieved from <http://www.healthcostinstitute.org/wp-content/uploads/2016/08/HCCI-Issue-Brief-Independent-Prescribing-Outcomes.pdf>
- Redacted. (NA). *Comparative effectiveness review of self measured blood pressure monitoring*. Retrieved from Rockville, MD
- Rose, S. L., Sanghani, R. M., Schmidt, C., Karafa, M. T., Kodish, E., & Chisolm, G. M. (2015). Gender Differences in Physicians' Financial Ties to Industry: A Study of National Disclosure Data. *PLoS One*, 10(6), e0129197. doi:10.1371/journal.pone.0129197
- Roumie, C. L., Halasa, N. B., Edwards, K. M., Zhu, Y., Dittus, R. S., & Griffin, M. R. (2005). Differences in antibiotic prescribing among physicians, residents, and nonphysician clinicians. *Am J Med*, 118(6), 641-648. doi:10.1016/j.amjmed.2005.02.013
- Sanchez, G. V., Hersh, A. L., Shapira, D. J., Cawley, J., & Hicks, L. A. (2016). Outpatient antibiotic prescribing among U.S. nurse practitioners and physician assistants. *Oxford Journal: Open Forum Infectious Diseases*, 3(3). doi:10.1093/ofid/ofw168
- Subramanian, U., Kerr, E. A., Klamerus, M. L., Zikmund-Fisher, B. J., Holleman, R. G., & Hofer, T. P. (2009). Treatment decisions for complex patients: differences between primary care physicians and midlevel providers. *Am J Manag Care*, 15(6), 373-380.
- Suda, K. J., Roberts, R. M., Hunkler, R. J., & Taylor, T. H. (2016). Antibiotic prescriptions in the community by type of provider in the United States, 2005-2010. *J Am Pharm Assoc (2003)*, 56(6), 621-626 e621. doi:10.1016/j.japh.2016.08.015

# Education

Accreditation Review Commission on Education for the Physician Assistant, I. (2010). *Accreditation Standards for Physician Assistant Education: fourth edition*. Retrieved from Johns Creek, GA: <http://www.arc-pa.org/wp-content/uploads/2016/10/Standards-4th-Ed-March-2016.pdf>

Adamson, T. E. (1971). Critical issues in the use of physician associates and assistants. *Am J Public Health, 61*(9), 1765-1779.

Alamiri, N. N., Maliska, C. M., 3rd, Chancellor-McIntosh, H., & Sclabas, G. (2017). Comparing Surgical Clerkship Performance of Medical and Physician Assistant Students. *J Surg Educ*. doi:10.1016/j.jsurg.2016.11.006

Allen, S. M., Ballweg, R. A., Cosgrove, E. M., Engle, K. A., Robinson, L. R., Rosenblatt, R. A., Wenrich, M. D. (2013). Challenges and opportunities in building a sustainable rural primary care workforce in alignment with the Affordable Care Act: the WWAMI program as a case study. *Acad Med, 88*(12), 1862-1869. doi:10.1097/ACM.0000000000000008

Armitage, M., & Shepherd, S. (2005). A new professional in the healthcare workforce: role, training, assessment and regulation. *Clin Med (Lond), 5*(4), 311-314.

Baker, S. R., & Merkulov, A. (2005). The radiology assistant: a contrarian's view. *Emerg Radiol, 11*(4), 187-192. doi:10.1007/s10140-005-0400-9

Brown, G. R., Hale, L. S., Britz, M. C., Schrader, M. J., Sholtz, S. L., & Unruh, M. J. (2015). A Survey of Kansas Physicians' Perceptions of Physician Assistant Education and Qualifications. *Kansas Journal of Medicine, 8*(1), 8.

Brown, J. B., Boles, M., Mullooly, J. P., & Levinson, W. (1999). Effect of clinician communication skills training on patient satisfaction. A randomized, controlled trial. *Ann Intern Med, 131*(11), 822-829

Buch, K. E., Genovese, M. Y., Conigliaro, J. L., Nguyen, S. Q., Byrn, J. C., Novembre, C. L., & Divino, C. M. (2008). Non-physician practitioners' overall enhancement to a surgical resident's experience. *J Surg Educ, 65*(1), 50-53. doi:10.1016/j.jsurg.2007.07.002

Carpenter, D. (2006). Perspectives on the physician assistant specialty credentialing debate. Education, not certification. *JAAPA, 19*(8), 16, 19-20.

Cash, B. D., Schoenfeld, P. S., & Ransohoff, D. F. (1999). Licensure, use, and training of paramedical personnel to perform screening flexible sigmoidoscopy. *Gastrointest Endosc, 49*(2), 163-169.

Cawley, J. F. (2008). Physician assistants and Title VII support. *Acad Med, 83*(11), 1049-1056. doi:10.1097/ACM.0b013e3181890533

Craig, C. K., Holmes, J. H. t., & Carter, J. E. (2017). Return on investment of advanced practice medical degrees: NPs vs. PAs. *JAAPA, 30*(6), 35-38. doi:10.1097/01.JAA.0000516349.73631.c2

Crapanzano, K., & Vath, R. J. (2017). Long-Term Effect of a Stigma-Reduction Educational Intervention for Physician Assistants. *J Physician Assist Educ, 28*(2), 92-95. doi:10.1097/JPA.0000000000000117

- Cuff, P. A. (2016). Envisioning the Future of Health Professional Education: Workshop Summary  
*Envisioning the Future of Health Professional Education: Workshop Summary*. Washington (DC).
- Davis, A., Radix, S. M., Cawley, J. F., Hooker, R. S., & Walker, C. S. (2015). Access and Innovation in a time of rapid change: physician assistant scope of practice. *Annals of Health Law*, 24(1), 286-336.
- Dawen, C. (2015). BY THE NUMBERS: Physician Assistant Education Association 2015. *Physician Assistant Education Association*.
- DeMots, H., Coombs, B., Murphy, E., & Palac, R. (1987). Coronary arteriography performed by a physician assistant. *Am J Cardiol*, 60(10), 784-787.
- Dorn, S. D. (2010). Mid-level providers in gastroenterology. *Am J Gastroenterol*, 105(2), 246-251. doi:10.1038/ajg.2009.275
- Dozois, E. J., Holubar, S. D., Tsikitis, V. L., Malireddy, K., Cima, R. R., Farley, D. R., & Larson, D. W. (2009). Perceived impact of the 80-hour workweek: five years later. *J Surg Res*, 156(1), 3-15. doi:10.1016/j.jss.2009.02.003
- Evans, T. C., Wick, K. H., Brock, D. M., Schaad, D. C., & Ballweg, R. (2006). Academic degrees and clinical practice characteristics: the University of Washington physician assistant program: 1969-2000. *J Rural Health*, 22(3), 212-219. doi:10.1111/j.1748-0361.2006.00034.x
- Eyal, N., Cancedda, C., Kyamanywa, P., & Hurst, S. A. (2015). Non-physician Clinicians in Sub-Saharan Africa and the Evolving Role of Physicians. *Int J Health Policy Manag*, 5(3), 149-153. doi:10.15171/ijhpm.2015.215
- Fowkes, V., Cawley, J. F., Herlihy, N., & Cuadrado, R. R. (1996). Evaluating the potential of international medical graduates as physician assistants in primary care. *Acad Med*, 71(8), 886-892.
- Fujimoto, S., Mizuno, R., Saito, Y., & Nakamura, S. (2004). Clinical application of wave intensity for the treatment of essential hypertension. *Heart Vessels*, 19(1), 19-22. doi:10.1007/
- Glicken, A. D. (2008). Excellence in physician assistant training through faculty development. *Acad Med*, 83(11), 1107-1110. doi:10.1097/ACM.0b013e3181890aa0
- Glicken, A. D., & Miller, A. A. (2013). Physician assistants: from pipeline to practice. *Acad Med*, 88(12), 1883-1889. doi:10.1097/ACM.0000000000000009
- Grabenkort, W. R., Meissen, H. H., Gregg, S. R., & Coopersmith, C. M. (2017). Acute Care Nurse Practitioners and Physician Assistants in Critical Care: Transforming Education and Practice. *Crit Care Med*, 45(7), 1111-1114. doi:10.1097/CCM.0000000000002536
- Graeff, E. C., Leafman, J. S., Wallace, L., & Stewart, G. (2014). Job satisfaction levels of physician assistant faculty in the United States. *J Physician Assist Educ*, 25(2), 15-20.
- Grover, A., Orlowski, J. M., & Erikson, C. E. (2016). The Nation's Physician Workforce and Future Challenges. *Am J Med Sci*, 351(1), 11-19. doi:10.1016/j.amjms.2015.10.009
- Hart, A. M., & Bowen, A. (2016). New Nurse Practitioners' Perceptions of Preparedness for and Transition Into Practice. *The Journal for Nurse Practitioners*. doi:10.1016/j.nurpra.2016.04.018

- Hass, V. (2016). Physician assistants and nurse practitioners are not interchangeable. *JAAPA*, 29(4), 9-12. doi:10.1097/01.JAA.0000481408.81044.4e
- Hauer, K. E., Durning, S. J., Kernan, W. N., Fagan, M. J., Mintz, M., O'Sullivan, P. S., Schwartz, M. D. (2008). Factors associated with medical students' career choices regarding internal medicine. *JAMA*, 300(10), 1154-1164. doi:10.1001/jama.300.10.1154
- Hong, K., Georgiades, C. S., Hebert, J., Wahlin, T., Mitchell, S. E., & Geschwind, J. F. (2006). Incorporating physician assistants and physician extenders in the contemporary interventional oncology practice. *Tech Vasc Interv Radiol*, 9(3), 96-100. doi:10.1053/j.tvir.2007.02.005
- Hooker, R. S. (2008). The extension of rheumatology services with physician assistants and nurse practitioners. *Best Pract Res Clin Rheumatol*, 22(3), 523-533. doi:10.1016/j.berh.2007.12.006
- Hooker, R. S., Cawley, J. F., & Leinweber, W. (2010). Career flexibility of physician assistants and the potential for more primary care. *Health Aff (Millwood)*, 29(5), 880-886. doi:10.1377/hlthaff.2009.0884
- Jecker, N. S. (2010). The ethics of substituting physician assistants, nurse practitioners, and residents for attending physicians. *Am J Bioeth*, 10(8), 11-13. doi:10.1080/15265161.2010.494459
- Jones, P. E., & Cawley, J. F. (2009). Workweek restrictions and specialty-trained physician assistants: potential opportunities. *J Surg Educ*, 66(3), 152-157. doi:10.1016/j.jsurg.2009.03.033
- Jones, P. E., & Hooker, R. S. (2001). Physician assistants in Texas. *Tex Med*, 97(1), 68-73.
- Kauffman, M., & Ferretti, S. M. (2014). The accelerated physician assistant pathway: a three-year medical school curriculum for physician assistants to obtain DO degrees. *Acad Med*, 89(12), 1645-1648. doi:10.1097/ACM.0000000000000307
- Kilminster, S. M., & Jolly, B. C. (2000). Effective supervision in clinical practice settings: a literature review. *Med Educ*, 34(10), 827-840.
- Larson, E. H., & Hart, L. G. (2007). Growth and change in the physician assistant workforce in the United States, 1967-2000. *J Allied Health*, 36(3), 121-130.
- Legler, C. F., Cawley, J. F., & Fenn, W. H. (2007). Physician assistants: education, practice and global interest. *Med Teach*, 29(1), e22-25. doi:10.1080/01421590601034696
- Levy, C., Palat, S. I., & Kramer, A. M. (2007). Physician practice patterns in nursing homes. *J Am Med Dir Assoc*, 8(9), 558-567. doi:10.1016/j.jamda.2007.06.015
- Lipner, R. S., Young, A., Chaudhry, H. J., Duhigg, L. M., & Papadakis, M. A. (2016). Specialty Certification Status, Performance Ratings, and Disciplinary Actions of Internal Medicine Residents. *Acad Med*, 91(3), 376-381. doi:10.1097/ACM.0000000000001055
- McDaniel, M. J., Hildebrandt, C. A., & Russell, G. B. (2016). Central Application Service for Physician Assistants Ten-Year Data Report, 2002 to 2011. *J Physician Assist Educ*, 27(1), 17-23. doi:10.1097/JPA.0000000000000063
- McLaughlin, R. J., Fasser, C. E., Spence, L. R., & Holcomb, J. D. (2010). Development and implementation of a health behavioral counseling curriculum for physician assistant cancer education. *J Cancer Educ*, 25(1), 9-15. doi:10.1007/s13187-010-0038-5

- Nyberg, S. M., Waswick, W., Wynn, T., & Keuter, K. (2007). Midlevel providers in a Level I trauma service: experience at Wesley Medical Center. *J Trauma*, 63(1), 128-134. doi:10.1097/01.ta.0000221765.90190.73
- O'Connor, T. M., & Hooker, R. S. (2007). Extending rural and remote medicine with a new type of health worker: physician assistants. *Aust J Rural Health*, 15(6), 346-351. doi:10.1111/j.1440-1584.2007.00926.x
- Paniagua, H., & Stewart, A. (2005). Medical care practitioners: introducing a new profession into the UK. *Br J Nurs*, 14(7), 405-408. doi:10.12968/bjon.2005.14.7.17949
- Pape, H. C., & Pfeifer, R. (2009). Restricted duty hours for surgeons and impact on residents quality of life, education, and patient care: a literature review. *Patient Saf Surg*, 3(1), 3. doi:10.1186/1754-9493-3-3
- Pezzi, C., Leibrandt, T., Suryadevara, S., Heller, J., Hurley-Martonik, D., & Kukora, J. (2008). Current and planned use for physician extenders in general surgery training programs: a survey of the program directors in surgery. *Journal of Surgical Education*, 65(1), 30. doi:10.1016/j.jsurg.2008.01.052
- Pezzi, C., Leibrandt, T., Suryadevara, S., Heller, J. K., Hurley-Martonik, D., & Kukora, J. S. (2009). The present and future use of physician extenders in general surgery training programs: one response to the 80-hour work week. *J Am Coll Surg*, 208(4), 587-591. doi:10.1016/j.jamcollsurg.2009.01.009
- Phillips, R. L., Dodoo, M. S., Petterson, S., Xierali, I., Bazemore, A., Teevan, B., Rudd, J. (2009). What Influences Medical Student & Resident Choices?
- Pritchett, C. V., Hervey-Jumper, S. L., Aliu, O., & Hayanga, A. J. (2011). Legislating change in surgical residency. *Arch Surg*, 146(8), 972-974. doi:10.1001/archsurg.2011.221
- Reines, H. D., Robinson, L., Duggan, M., O'Brien B, M., & Aulenbach, K. (2006). Integrating midlevel practitioners into a teaching service. *Am J Surg*, 192(1), 119-124. doi:10.1016/j.amjsurg.2006.01.047
- Resnick, A. S., Todd, B. A., Mullen, J. L., & Morris, J. B. (2006). How do surgical residents and non-physician practitioners play together in the sandbox? *Curr Surg*, 63(2), 155-164. doi:10.1016/j.cursur.2005.12.009
- Reynolds, E. W., & Bricker, J. T. (2007). Nonphysician clinicians in the neonatal intensive care unit: meeting the needs of our smallest patients. *Pediatrics*, 119(2), 361-369. doi:10.1542/peds.2006-1084
- Riley, L., Litsch, T., & Cook, M. L. (2016). Preparing the next generation of health care providers: A description and comparison of nurse practitioner and medical student tuition in 2015. *J Am Assoc Nurse Pract*, 28(1), 6-10. doi:10.1002/2327-6924.12332
- Rosenberg, S. M., Rosenthal, D. A., Rajan, D. K., Millward, S. F., Baum, R. A., Silberzweig, J. E. (2008). Position statement: the role of physician assistants in interventional radiology. *J Vasc Interv Radiol*, 19(12), 1685-1689. doi:10.1016/j.jvir.2008.09.004
- Russell, J. C., Kaplowe, J., & Heinrich, J. (1999). One hospital's successful 20-year experience with physician assistants in graduate medical education. *Acad Med*, 74(6), 641-645.

Salsberg, E. S. (2015). Is the Physician Shortage Real? Implications for the Recommendations of the Institute of Medicine Committee on the Governance and Financing of Graduate Medical Education. *Acad Med*, 90(9), 1210-1214. doi:10.1097/ACM.0000000000000837

Spence, L. R., Fasser, C. E., McLaughlin, R. J., & Holcomb, J. D. (2010). Self-assessment of cancer competencies and physician assistant cancer education: instrument development and baseline testing. *J Physician Assist Educ*, 21(3), 4-12.

Stahlfeld, K. R., Robinson, J. M., & Burton, E. C. (2008). What do physician extenders in a general surgery residency really do? *J Surg Educ*, 65(5), 354-358. doi:10.1016/j.jsurg.2008.06.002

Staiger, D. O., Marshall, S. M., Goodman, D. C., Auerbach, D., & Buerhaus, P. (2016). Association between having a highly educated spouse and physician practice in rural underserved areas. *Journal of American Medical Association*, 315(9), 939-941. doi:10.1001/jama.2015.16972

Stecker, M. S., Armenoff, D., & Johnson, M. S. (2004). Physician Assistants in Interventional Radiology Practice. *Journal of Vascular and Interventional Radiology*, 15(3), 221-227. doi:10.1097/01.rvi.0000099529.29957.0b

Stewart, A., & Catanzaro, R. (2005). Can physician assistants be effective in the UK? *Clin Med (Lond)*, 5(4), 344-348.

Thourani, V. H., & Miller, J. I., Jr. (2006). Physicians assistants in cardiothoracic surgery: a 30-year experience in a university center. *Ann Thorac Surg*, 81(1), 195-199; discussion 199-200. doi:10.1016/j.athoracsur.2005.07.031

Vanderveen, K., Chen, M., & Scherer, L. (2007). Effects of resident duty-hours restrictions on surgical and nonsurgical teaching faculty. *Arch Surg*, 142(8), 759-764; discussion 764-756. doi:10.1001/archsurg.142.8.759

Victorino, G. P., & Organ, C. H., Jr. (2003). Physician assistant influence on surgery residents. *Arch Surg*, 138(9), 971-975; discussion 975-976. doi:10.1001/archsurg.138.9.971

Weitz, T., Anderson, P., & Taylor, D. (2009). Advancing scope of practice for advanced practice clinicians: more than a matter of access. *Contraception*, 80(2), 105-107. doi:10.1016/j.contraception.2009.04.013

White, G. L., Jr., & Davis, A. M. (1999). Physician assistants as partners in physician-directed care. *South Med J*, 92(10), 956-960.

Willigendael, E. M., Teijink, J. A., Bartelink, M. L., Langenberg, M., Welten, R. J., Buller, H. R., & Prins, M. H. (2005). Combined training of GPs and practice-assistants on peripheral arterial disease: positive effects after six months. *Fam Pract*, 22(5), 520-522. doi:10.1093/fampra/cmi041

Willigendael, E. M., Teijink, J. A., Bartelink, M. L., Langenberg, M., Welten, R. J., Buller, H. R., & Prins, M. H. (2005). Combined training of GPs and practice-assistants on peripheral arterial disease: positive effects after six months. *Fam Pract*, 22(5), 520-522. doi:10.1093/fampra/cmi041

# Effectiveness

- Bachrach, D., Dutton, M., Tolbert, J., & Harris, J. (2012). *The Role of the Basic Health Program in the Coverage Continuum: Opportunities, Risks & Considerations for States*. Retrieved from <https://kaiserfamilyfoundation.files.wordpress.com/2013/01/8283.pdf>
- Balto, D. (2010). *Making Health Care Competition Work How to Ensure Health Insurance Reform Is Transparent and Effective*. Retrieved from <https://www.americanprogress.org/issues/economy/reports/2010/06/25/7986/making-health-care-competition-work/>
- Glotzbecker, B. E., Yolin-Raley, D. S., DeAngelo, D. J., Stone, R. M., Soiffer, R. J., & Alyea, E. P., 3rd. (2013). Impact of physician assistants on the outcomes of patients with acute myelogenous leukemia receiving chemotherapy in an academic medical center. *J Oncol Pract*, 9(5), e228-233. doi:10.1200/JOP.2012.000841
- Mendenhall, R. C., Repicky, P. A., & Neville, R. E. (1980). Assessing the Utilization and Productivity of Nurse Practitioners and Physician's Assistants: Methodology and Findings on Productivity. *Medical Care*, 18(6), 609-623.
- N.A. (2011). *A Community's Approach to Reducing Readmissions*. Retrieved from <http://www.rwjf.org/en/library/research/2011/09/lessons-learned-in-performance-measurement.html>
- Phillips, R. L., Jr. (2012). International learning on increasing the value and effectiveness of primary care (I LIVE PC). *J Am Board Fam Med*, 25 Suppl 1, S2-5. doi:10.3122/jabfm.2012.02.120005
- Sorbero, M. E., Farley, D. O., Mattke, S., & Lovejoy, S. L. (2008). *Outcome measures for effective teamwork in inpatient care: final report*. Rand Corporation.
- Stewart, A., & Catanzaro, R. (2005). Can physician assistants be effective in the UK? *Clin Med (Lond)*, 5(4), 344-348.
- Virani, S. S., Akeroyd, J. M., Ramsey, D. J., Chan, W. J., Frazier, L., Nasir, K., & Petersen, L. A. (2016). Comparative effectiveness of outpatient cardiovascular disease and diabetes care delivery between advanced practice providers and physician providers in primary care: Implications for care under the Affordable Care Act. *Am Heart J*, 181, 74-82. doi:10.1016/j.ahj.2016.07.020

# Efficiency

- Adamson, T. E. (1971). Critical issues in the use of physician associates and assistants. *Am J Public Health, 61*(9), 1765-1779.
- Blumm, R. (2008). Is now the time to hire a surgical PA? A physician assistant can extend your reach and relieve your stress. *Contemporary Surgery, 64*(12), 562.
- Braverman, P., & Egerter, S. (2008). *Overcoming Obstacles to Health*. Retrieved from <http://www.rwjf.org/en/library/research/2008/02/overcoming-obstacles-to-health.html>
- Buchbinder, M., Regan, J., Aldea, M., & Makowski, D. (2017). Improving Mental Health Services Through Physician Assistants: Legislation in Several Southern States. *South Med J, 110*(4), 239-243. doi:10.14423/SMJ.0000000000000638
- Carzoli, R. P., Martinez-Cruz, M., Cuevas, L. L., Murphy, S., & Chiu, T. (1994). Comparison of neonatal nurse practitioners, physician assistants, and residents in the neonatal intensive care unit. *Pediatrics Adolescent Medicine, 148*(12), 1271-1276.
- CHCQ. (2011). *Lessons Learned in Public Reporting: Crossing the Cost and Efficiency Frontier*. Retrieved from <http://www.rwjf.org/en/library/research/2011/05/lessons-learned-in-public-reporting.html>
- Christmas, A. B., Reynolds, J., Hodges, S., Franklin, G. A., Miller, F. B., Richardson, J. D., & Rodriguez, J. L. (2005). Physician Extenders Impact Trauma Systems. *The Journal of Trauma: Injury, Infection, and Critical Care, 58*(5), 917-920. doi:10.1097/01.ta.0000162736.06947.e3
- Cramer, C. L., Orlowski, J. P., & DeNicola, L. K. (2008). Pediatric intensivist extenders in the pediatric ICU. *Pediatr Clin North Am, 55*(3), 687-708, xi-xii. doi:10.1016/j.pcl.2008.02.007
- Desomeaux, M., Stewart, M., Grimes, K., & Prada, G. (2016). Gaining Efficiency.Increasing the Use of Physician Assistants in Canada.
- Doan, Q., Hall, W., Shechter, S., Kissoon, N., Sheps, S., Singer, J., & Johnson, D. (2014). Forecasting the effect of physician assistants in a pediatric ED. *JAAPA, 27*(8), 35-41. doi:10.1097/01.JAA.0000451860.95151.e1
- Dodds, P. R. (2009). Utilizing a medical chain of responsibility. *Conn Med, 73*(1), 39-40.
- Finn, K. M., Heffner, R., Chang, Y., Bazari, H., Hunt, D., Pickell, K., Karson, A. (2011). Improving the discharge process by embedding a discharge facilitator in a resident team. *J Hosp Med, 6*(9), 494-500. doi:10.1002/jhm.924
- Dubaybo, B. A., Samson, M. K., & Carlson, R. W. (1991). The role of physician-assistants in critical care units. *Chest, 99*(1), 89-91. doi:10.1378/chest.99.1.89
- Edwards, J. N., & Lashbrook, A. (2011). Achieving Efficiency: Lessons from Four Top-Performing Hospitals. *1528*(15).
- Everett, C. M., Morgan, P., & Jackson, G. L. (2016). Patient characteristics associated with primary care PA and APRN roles. *JAAPA, 29*(12), 1-6. doi:10.1097/01.JAA.0000508217.65992.72
- Federal Trade Commission. (2016). *FTC staff supports department of Veterans Affairs proposed rule to grant full practice authority to advanced practice registered nurses*. Retrieved from

<https://www.ftc.gov/news-events/press-releases/2016/07/ftc-staff-supports-department-veterans-affairs-proposed-rule>

Finn, K. M., Heffner, R., Chang, Y., Bazari, H., Hunt, D., Pickell, K., & Karson, A. (2011). Improving the discharge process by embedding a discharge facilitator in a resident team. *J Hosp Med*, 6(9), 494-500. doi:10.1002/jhm.924

Fox, D. M. (2010). Realizing and Allocating Savings From Improving Health Care Quality and Efficiency. *Preventing Chronic Disease*, 7(5), A99.

Grimes, K., & Prada, G. (2016). Value of Physician Assistants: Understanding the Role of Physician Assistants within Health Systems. *The Conference Board of Canada*.

Grzybicki, D. M., Sullivan, P. J., Oppy, J. M., Bethke, A. M., & Raab, S. S. (2002). The economic benefit for family/general medicine practices employing physician assistants. *Am J Manag Care*, 8(7), 613-620.

Kirkland, J. W. (1991). Guidelines and indications for coronary artery bypass graft surgery. *Journal of the American College of Cardiology*, 17(3).

A report of the American College of Cardiology/American Heart Association task force on assessment of diagnostic and therapeutic cardiovascular procedures (subcommittee on coronary artery bypass graft surgery). *American College of Cardiology*, 17(3), 543-589. doi:10.1016/S0735-1097(10)80169-X

Kocher, R., & Sahni, N. R. (2011). Rethinking health care labor. *N Engl J Med*, 365(15), 1370-1372. doi:10.1056/NEJMp1109649

Larson, E. H., Hart, L. G., & Ballweg, R. (2001). National estimates of physician assistant productivity. *J Allied Health*, 30(3), 146-152.

Marzucco, J., Mancini, M. E., & Dehn, R. W. (2016). Commentaries on health services research. *JAAPA*, 29(4), 1-2. doi:10.1097/01.JAA.0000481416.34409.de

McCullough, J. S., Casey, M., Moscovice, I., & Prasad, S. (2010). The effect of health information technology on quality in U.S. hospitals. *Health Aff (Millwood)*, 29(4), 647-654. doi:10.1377/hlthaff.2010.0155

Mendenhall, R. C., Repicky, P. A., & Neville, R. E. (1980). Assessing the Utilization and Productivity of Nurse Practitioners and Physician's Assistants: Methodology and Findings on Productivity. *Medical Care*, 18(6), 609-623.

Moote, M., Krsek, C., Kleinpell, R., & Todd, B. (2011). Physician assistant and nurse practitioner utilization in academic medical centers. *Am J Med Qual*, 26(6), 452-460. doi:10.1177/1062860611402984

Morgan, P., Everett, C. M., & Hing, E. (2014). Time spent with patients by physicians, nurse practitioners, and physician assistants in community health centers, 2006-2010. *Healthc (Amst)*, 2(4), 232-237. doi:10.1016/j.hjdsi.2014.09.009

N/A. (2008). Competitive concerns bring PAs, NPs into triage area. *ED Manag*, 20(6), 67-68.

Nestler, D. M., Fratzke, A. R., Church, C. J., Scanlan-Hanson, L., Sadosty, A. T., Halasy, M. P., & Hess, E. P. (2012). Effect of a physician assistant as triage liaison provider on patient throughput in an

academic emergency department. *Acad Emerg Med*, 19(11), 1235-1241.  
doi:10.1111/acem.12010

Ogunfiditimi, F., Takis, L., Paige, V. J., Wyman, J. F., & Marlow, E. (2013). Assessing the productivity of advanced practice providers using a time and motion study. *J Healthc Manag*, 58(3), 173-185; discussion 185-176.

Ostbye, T., Krause, K. M., Pollak, K. I., Gradison, M., & Michener, J. L. (2009). Family Physicians as Team Leaders: "Time" to Share the Care. *CDC: Center for Disease Control and Prevention*, 6(2), A59.

Pedersen, D. M., Chappell, B., Elison, G., & Bunnell, R. (2008). The productivity of PAs, APRNs, and physicians in Utah. *JAAPA*, 21(1), 42-44, 47.

Pedersen, D. M., Chappell, B., Elison, G., & Bunnell, R. (2008). The productivity of PAs, APRNs, and physicians in Utah. *JAAPA*, 21(1), 42-44, 47.

Pickard, T. (2016). Turning point--Where are we trying to go? *JAAPA*, 29(4), 1-3.  
doi:10.1097/01.JAA.0000481748.00164.38

Record, J. C., McCally, M., Schweitzer, S. O., Blomquist, R. M., & Berger, B. D. (1980). New health professions after a decade and a half: delegation, productivity and costs in primary care. *J Health Polit Policy Law*, 5(3), 470-497.

Resnick, C. M., Daniels, K. M., Flath-Sporn, S. J., Doyle, M., Heald, R., & Padwa, B. L. (2016). Physician Assistants Improve Efficiency and Decrease Costs in Outpatient Oral and Maxillofacial Surgery. *J Oral Maxillofac Surg*, 74(11), 2128-2135. doi:10.1016/j.joms.2016.06.195

Rodgers, G. P., Conti, J. B., Feinstein, J. A., Griffin, B. P., Kennett, J. D., Shah, S., & Williams, J. L. (2009). ACC 2009 survey results and recommendations: Addressing the cardiology workforce crisis A report of the ACC board of trustees workforce task force. *J Am Coll Cardiol*, 54(13), 1195-1208. doi:10.1016/j.jacc.2009.08.001

Ross, A. C., Polansky, M. N., Parker, P. A., & Palmer, J. L. (2010). Understanding the role of physician assistants in oncology. *J Oncol Pract*, 6(1), 26-30. doi:10.1200/JOP.091062

Salsberg, E., & Quigley, L. (2016). Are we facing a physician assistant surplus? *JAAPA*, 29(11), 40-44.  
doi:10.1097/01.JAA.0000502865.59093.ef

Seidman, G., & Atun, R. (2017). Does task shifting yield cost savings and improve efficiency for health systems? A systematic review of evidence from low-income and middle-income countries. *Hum Resour Health*, 15(1), 29. doi:10.1186/s12960-017-0200-9

Sorbero, M. E., Farley, D. O., Mattke, S., & Lovejoy, S. L. (2008). *Outcome measures for effective teamwork in inpatient care: final report*. Rand Corporation.

Sucov, A., Sidman, R., & Valente, J. (2009). A cost-efficiency analysis to increase clinician staffing in an academic emergency department. *Acad Med*, 84(9), 1211-1216.  
doi:10.1097/ACM.0b013e3181b187fc

Tunis, S. R., Berenson, R. A., Phurrough, S. E., & Mohr, P. E. (2011). *Improving the Quality and Efficiency of the Medicare Program Through Coverage Policy: Timely Analysis of Immediate Health Policy Issues*. Retrieved from

<http://www.urban.org/sites/default/files/publication/27516/412392-Improving-the-Quality-and-Efficiency-of-the-Medicare-Program-Through-Coverage-Policy.PDF>

# Electronic Health Records/Electronic Medical Records

Baker, S. R., & Merkulov, A. (2005). The radiology assistant: a contrarian's view. *Emerg Radiol*, 11(4), 187-192. doi:10.1007/s10140-005-0400-9

Chalupa, R. L., & Hooker, R. S. (2016). The education, role, distribution, and compensation of physician assistants in orthopedic surgery. *JAAPA*, 29(5), 1-7  
doi:10.1097/01.JAA.0000482318.38700.d1

Chan, K. S., Holzer, J., Scholle, S. H., Fowles, J. B., Renner, P., & Weiner, J. P. (2011). The Development and Testing of EHR-Based Care Coordination Performance Measures in Ambulatory Care. Retrieved from [http://www.commonwealthfund.org/~media/files/publications/issue-brief/2011/nov/1551\\_chan-devel\\_testing\\_ehrbased\\_care\\_coord\\_tech\\_report.pdf](http://www.commonwealthfund.org/~media/files/publications/issue-brief/2011/nov/1551_chan-devel_testing_ehrbased_care_coord_tech_report.pdf)

Charles, D., King, J., Patel, V., & Furukawa, M. F. (2013). *Adoption of Electronic Health Record Systems among U.S. Non-federal Acute Care Hospitals: 2008-2012*. Retrieved from <https://www.healthit.gov/sites/default/files/oncdatabrief9final.pdf>

Doan, Q., Hall, W., Shechter, S., Kissoon, N., Sheps, S., Singer, J., & Johnson, D. (2014). Forecasting the effect of physician assistants in a pediatric ED. *JAAPA*, 27(8), 35-41.  
doi:10.1097/01.JAA.0000451860.95151.e1

Ferris, N. (2010). *Electronic Health Record Standards*. Retrieved from [http://www.healthaffairs.org/healthpolicybriefs/brief.php?brief\\_id=26](http://www.healthaffairs.org/healthpolicybriefs/brief.php?brief_id=26)

Ferris, N. (2010). *Meaningful Use' Of Electronic Health Records. Hospitals and doctors will soon be eligible for federal incentives to help acquire and use health information technology*. Retrieved from [http://www.healthaffairs.org/healthpolicybriefs/brief.php?brief\\_id=24](http://www.healthaffairs.org/healthpolicybriefs/brief.php?brief_id=24)

Goldstein, N. (2005). Look what's next in telemedicine: the physician assistant and telemedicine. *Hawaii Med J*, 64(5), 116.

Grabenkort, W. R., Meissen, H. H., Gregg, S. R., & Coopersmith, C. M. (2017). Acute Care Nurse Practitioners and Physician Assistants in Critical Care: Transforming Education and Practice. *Crit Care Med*, 45(7), 1111-1114. doi:10.1097/CCM.0000000000002536

Green, L. V., Savin, S., & Lu, Y. (2013). Primary care physician shortages could be eliminated through use of teams, nonphysicians, and electronic communication. *Health Aff (Millwood)*, 32(1), 11-19. doi:10.1377/hlthaff.2012.1086

Grabenkort, W. R., Meissen, H. H., Gregg, S. R., & Coopersmith, C. M. (2017). Acute Care Nurse Practitioners and Physician Assistants in Critical Care: Transforming Education and Practice. *Crit Care Med*, 45(7), 1111-1114. doi:10.1097/CCM.0000000000002536

Jamoom, E., Beatty, P., Bercovitz, A., Woodwell, D., Palso, K., & Rechtsteiner, E. (2012). Physician adoption of electronic health record systems: United States, 2011. *NCHS Data Brief*(98), 1-8.

Jamoom, E., Patel, V., King, J., & Furukawa, M. F. (2013). *Physician Experience With Electronic Health Record Systems That Meet Meaningful Use Criteria: NAMCS Physician Workflow Survey, 2011*. Retrieved from Center for Disease Control and Prevention.

- Lewis, G. (2010). *Predictive Modeling in Action: How 'Virtual Wards' Help High-Risk Patients Receive Hospital Care at Home*. Retrieved from [http://www.commonwealthfund.org/~media/Files/Publications/Issue%20Brief/2010/Aug/1430\\_Lewis\\_predictive\\_modeling\\_in\\_action\\_virtual\\_wards\\_intl\\_brief.pdf](http://www.commonwealthfund.org/~media/Files/Publications/Issue%20Brief/2010/Aug/1430_Lewis_predictive_modeling_in_action_virtual_wards_intl_brief.pdf)
- Love, D., Custer, W., & Miller, P. (2010). *All-Payer Claims Databases: State Initiatives to Improve Health Care Transparency*. Retrieved from <http://www.commonwealthfund.org/publications/issue-briefs/2010/sep/all-payer-claims-databases>
- McLeod, N., & Montane, G. (2010). The radiologist assistant: the solution to radiology workforce needs. *Emerg Radiol*, 17(3), 253-256. doi:10.1007/s10140-006-0505-9
- McCullough, J. S., Casey, M., Moscovice, I., & Prasad, S. (2010). The effect of health information technology on quality in U.S. hospitals. *Health Aff (Millwood)*, 29(4), 647-654. doi:10.1377/hlthaff.2010.0155
- O'Connor, T. M., & Hooker, R. S. (2007). Extending rural and remote medicine with a new type of health worker: physician assistants. *Aust J Rural Health*, 15(6), 346-351. doi:10.1111/j.1440-1584.2007.00926.x
- Project HealthDesign – Phase II: Grantee Technical Architectures and Implementations*. (2011). Retrieved from <http://www.rwjf.org/en/library/research/2011/10/project-healthdesign--phase-ii.html>
- Salsberg, E. S. (2015). Is the Physician Shortage Real? Implications for the Recommendations of the Institute of Medicine Committee on the Governance and Financing of Graduate Medical Education. *Acad Med*, 90(9), 1210-1214. doi:10.1097/ACM.0000000000000837

# Emergency Department

- Brook, C., Chomut, A., & Jeanmonod, R. K. (2012). Physician assistants contribution to emergency department productivity. *West J Emerg Med*, 13(2), 181-185. doi:10.5811/westjem.2011.6.6746
- Bloemhoff, A., Schoonhoven, L., de Kreek, A. J., van Grunsven, P. M., Laurant, M. G., & Berben, S. A. (2016). Solo emergency care by a physician assistant versus an ambulance nurse: a cross-sectional document study. *Scand J Trauma Resusc Emerg Med*, 24, 86. doi:10.1186/s13049-016-0279-3
- Camargo, C. A., Jr., Ginde, A. A., Singer, A. H., Espinola, J. A., Sullivan, A. F., Pearson, J. F., & Singer, A. J. (2008). Assessment of emergency physician workforce needs in the United States, 2005. *Acad Emerg Med*, 15(12), 1317-1320. doi:10.1111/j.1553-2712.2008.00264.x
- Counselman, F. L., Graffeo, C. A., & Hill, J. T. (2000). Patient satisfaction with physician assistants (PAs) in an ED fast track. *Am J Emerg Med*, 18(6), 661-665. doi:10.1053/ajem.2000.16301
- Hedges, J. R. (2005). Physician extenders in the emergency department. *Emerg Med J*, 22(5), 314-315. doi:10.1136/emj.2004.022996
- Freed, G. L., Dunham, K. M., Loveland-Cherry, C., Martyn, K. K., Moote, M. J., & American Board of Pediatrics Research Advisory, C. (2011). Private practice rates among pediatric subspecialists. *Pediatrics*, 128(4), 673-676. doi:10.1542/peds.2011-1063
- Ginde, A. A., Espinola, J. A., Sullivan, A. F., Blum, F. C., & Camargo, C. A., Jr. (2010). Use of midlevel providers in US EDs, 1993 to 2005: implications for the workforce. *Am J Emerg Med*, 28(1), 90-94. doi:10.1016/j.ajem.2008.09.028
- Hedges, J. R. (2005). Physician extenders in the emergency department. *Emerg Med J*, 22(5), 314-315. doi:10.1136/emj.2004.022996
- Jecker, N. S. (2010). The ethics of substituting physician assistants, nurse practitioners, and residents for attending physicians. *Am J Bioeth*, 10(8), 11-13. doi:10.1080/15265161.2010.494459
- Menchine, M. D., Wiechmann, W., & Rudkin, S. (2009). Trends in midlevel provider utilization in emergency departments from 1997 to 2006. *Acad Emerg Med*, 16(10), 963-969. doi:10.1111/j.1553-2712.2009.00521.x
- N/A. (2008). Competitive concerns bring PAs, NPs into triage area. *ED Manag*, 20(6), 67-68.
- Nestler, D. M., Fratzke, A. R., Church, C. J., Scanlan-Hanson, L., Sadosty, A. T., Halasy, M. P., Hess, E. P. (2012). Effect of a physician assistant as triage liaison provider on patient throughput in an academic emergency department. *Acad Emerg Med*, 19(11), 1235-1241. doi:10.1111/acem.12010
- Oswanski, M. F., Sharma, O. P., & Raj, S. S. (2004). Comparative review of use of physician assistants in a level I trauma center. *Am Surg*, 70(3), 272-279.
- Pavlik, D., Sacchetti, A., Seymour, A., & Blass, B. (2016). Physician Assistant Management of Pediatric Patients in a General Community Emergency Department: A Real World Analysis. *Pediatr Emerg Care*. doi:10.1097/PEC.0000000000000949

Smith, J. S., Tevis, B., & Murali, K. (2005). Commentary from the front lines: American physician assistants working in a United Kingdom emergency department. *Emerg Med J*, 22(5), 322-324. doi:10.1136/emj.2004.021493

Sucov, A., Sidman, R., & Valente, J. (2009). A cost-efficiency analysis to increase clinician staffing in an academic emergency department. *Acad Med*, 84(9), 1211-1216. doi:10.1097/ACM.0b013e3181b187fc

Williams, J. D., Song, P. H., & Pink, G. H. (2015). Estimated cost of rural freestanding emergency departments. *Rural Health Research Gateway*.

# Federal Trade Commission

Accreditation Review Commission on Education for the Physician Assistant, I. (2010). *Accreditation Standards for Physician Assistant Education: fourth edition*. Retrieved from Johns Creek, GA: <http://www.arc-pa.org/wp-content/uploads/2016/10/Standards-4th-Ed-March-2016.pdf>

Agarwal, A., Zhang, W., Kuo, Y., & Sharma, G. (2016). Process and Outcome Measures among COPD Patients with a Hospitalization Cared for by an Advance Practice Provider or Primary Care Physician. *PLoS One*, 11(2), e0148522. doi:10.1371/journal.pone.0148522

Althausen, P. L., Shannon, S., Owens, B., Coll, D., Cvitash, M., Lu, M., Bray, T. J. (2013). Impact of hospital-employed physician assistants on a level II community-based orthopaedic trauma system. *Journal of Orthopaedic Trauma*, 27(4), e87-e91.

American Congress of Obstetricians and Gynecologists, T. F. o. C. P. (2016). *Collaboration in practice: implementing team-based care*. Retrieved from Washington, DC: <http://www.acog.org/Resources-And-Publications/Task-Force-and-Work-Group-Reports/Collaboration-in-Practice-Implementing-Team-Based-Care>

AAPA (2014). [Letter from Jennifer L. Dorn to the Department of Veterans Affairs on RIN 2900-AP44 advanced practice registered nurses].

AAPA (2015). Moving the PA profession forward: AAPA revises model state legislation for PAs. *PA Professional*, 7-8.

AAPA (2016). *Chart cosignature: what is best for patient care?* Retrieved from Alexandria, VA: <https://www.aapa.org/WorkArea/DownloadAsset.aspx?id=634>

AAPA (2016). *List of Licensing Boards*. Retrieved from Alexandria, VA: <https://www.aapa.org/threecolumnlanding.aspx?id=347>

AAPA (2016). *PAs and practice ownership*. Retrieved from Alexandria, VA: <https://www.aapa.org/WorkArea/DownloadAsset.aspx?id=6442451343>

AAPA (2016). *The six key elements of a modern PA practice act*. Retrieved from Alexandria, VA: <https://www.aapa.org/WorkArea/DownloadAsset.aspx?id=628>

Brock, D. M., Nicholson, J. G., & Hooker, R. S. (2016). Physician Assistant and Nurse Practitioner Malpractice Trends. *Med Care Res Rev*. doi:10.1177/1077558716659022

Carzoli, R. P., Martinez-Cruz, M., Cuevas, L. L., Murphy, S., & Chiu, T. (1994). Comparison of neonatal nurse practitioners, physician assistants, and residents in the neonatal intensive care unit. *Pediatrics Adolescent Medicine*, 148(12), 1271-1276.

Committee, C. S. o. C. A. (2008). *Final report of findings*. Retrieved from <http://www.coloradohealthinstitute.org/key-issues/detail/health-care-workforce/collaborative-scopes-of-care-advisory-committee-final-report-of-findings>

Costa, D. K., Wallace, D.J., Barnato, A.E., & Kahn, J.M. . (2014). Nurse practitioner/physician assistant staffing and critical care mortality. *Chest Journal*, 146(6), 1566-1573.

- Davis, A., Radix, S. M., Cawley, J. F., Hooker, R. S., & Walker, C. S. (2015). Access and Innovation in a time of rapid change: physician assistant scope of practice. *Annals of Health Law*, 24(1), 286-336.
- Department of Veteran's Affairs, V. s. H. A. (2013). *VHA DIRECTIVE 1063: utilization of physician assistants*. Retrieved from Washington, DC:  
[http://www.va.gov/vhapublications/ViewPublication.asp?pub\\_ID=2958](http://www.va.gov/vhapublications/ViewPublication.asp?pub_ID=2958)
- Desai, T., Ali, S., Fang, X., Thompson, W., Jawa, P., & Vachharajani, T. (2016). Equal work for unequal pay: the gender reimbursement gap for healthcare providers in the United States. *Postgrad Med J*, 92(1092), 571-575. doi:10.1136/postgradmedj-2016-134094
- Dhuper, S., & Choksi, S. (2009). Replacing an academic internal medicine residency program with a physician assistant--hospitalist model: a comparative analysis study. *Am J Med Qual*, 24(2), 132-139. doi:10.1177/1062860608329646
- E, S. (2015). Implications for the Recommendations of the Institute of Medicine Committee on the governance and Financing of Graduate Medical Education. *Academic Medicine*, 90(9), 1210.
- Eibner, C., P., H., Ridgely, M. S., & McGlynn, E. A. (2009). *Controlling health care spending in Massachusetts: an analysis of options*. Retrieved from  
[http://www.rand.org/pubs/technical\\_reports/TR733.html](http://www.rand.org/pubs/technical_reports/TR733.html)
- Essary, A. C., Green, E. P., & Gans, D. N. (2016). Compensation and Production in Family Medicine by Practice Ownership. *Health Services Research and Managerial Epidemiology*, 3(0). doi:10.1177/2333392815624111
- Everett, C., Thorpe, C., Palta, M., Carayon, P., Bartels, C. & Smith M.A. . (2013). Physician Assistants And Nurse Practitioners Perform Effective Roles On Teams Caring For Medicare Patients With Diabetes. *Health Affairs*, 32(11), 1942-1948.
- Federal Trade Commission, O. o. P. A. (2016). *FTC staff supports department of Veterans Affairs proposed rule to grant full practice authority to advanced practice registered nurses*. Retrieved from <https://www.ftc.gov/news-events/press-releases/2016/07/ftc-staff-supports-department-veterans-affairs-proposed-rule>
- Federal Trade Commission, O. o. P. P. (2015). Letter from the Federal Trade Commission's Office of Policy Planning, Bureau of Economics and Bureau of Competition to Representative Kirkton.
- Gilman, D. J., & Koslov. T.l., e. a. (2014). *Policy perspectives: competition advocacy and the regulation of advanced practice nurse practitioners*. Retrieved from <https://www.ftc.gov/reports/policy-perspectives-competition-regulation-advanced-practice-nurses>
- Glotzbecker, B., Yolin-Raley, D. S., DeAngelo, D. J., Stone, R. M., Soiffer, R. J., & Alyea, E. P. (2013). Impact of Physician Assistants on the Outcomes of Patients With Acute Myelogenous Leukemia Receiving Chemotherapy in an Academic Medical Center. *Journal of Oncology Practice*.
- Graves, J. A., Mishra, P., Dittus, R. S., Parikh, R., Perloff, J., & Buerhaus, P. I. (2016). Role of Geography and Nurse Practitioner Scope-of-Practice in Efforts to Expand Primary Care System Capacity: Health Reform and the Primary Care Workforce. *Med Care*, 54(1), 81-89. doi:10.1097/MLR.0000000000000454

Green, L. V., Savin, S., & Lu, Y. (2013). Primary care physician shortages could be eliminated through use of teams, nonphysicians, and electronic communication. *Health Aff (Millwood)*, 32(1), 11-19. doi:10.1377/hlthaff.2012.1086

Hing, E., & Hsiao, C. (2015). In which states are physician assistants or nurse practitioners more likely to work in primary care. *Journal of the American Academy of Physician Assistants*, 28(9), 46-553.

Hooker, R. S. (2002). A cost analysis of physician assistants in primary care. *JAAPA*, 15(11), 39-42, 45, 48 passim.

Hooker, R. S. (2015). Is physician assistant autonomy inevitable? *Journal of the American Academy of Physician Assistants*, 28(1), 18-20.

Hooker, R. S., & Muchow, A. N. (2015). Modifying State Laws for Nurse Practitioners and Physician Assistants Can Reduce Cost Of Medical Services. *Nursing Economics*, 33(2), 88-94.

Hooker, R. S., Nicholson, J., & Le, T. (2009). DOES THE EMPLOYMENT OF PHYSICIAN ASSISTANTS AND NURSE PRACTITIONERS INCREASE LIABILITY? *Journal of Medical Licensure and Discipline*, 95(2).

Hormann, B. M., Bello, S. J., Hartman, A. R., & Jacobs, M. (2004). The effects of a full-time physician assistant staff on postoperative outcomes in the cardiothoracic ICU: 1-year results. *Surgical Physician Assistant*, 10(10), 38-41.

Jones, P. E., & Hooker, R. S. (2001). Physician assistants in Texas. *Tex Med*, 97(1), 68-73.

Larson, E. B., Patterson, D. G., Garberson, L. A., & Andrilla, H. A. (2016). *Supply and Distribution of the Behavioral Health Workforce in Rural America*. Retrieved from <http://www.nccpa.net/Uploads/docs/2015StatisticalProfilebySpecialty.pdf>

Mafi, J. N., Wee, C. C., Davis, R. B., & Landon, B. E. (2016). Comparing Use of Low-Value Health Care Services Among U.S. Advanced Practice Clinicians and Physicians. *Ann Intern Med*. doi:10.7326/M15-2152

Miller, W., Riehl, E., Napier, M., Barber, K., & Dabideen, H. (1998). Use of physician assistants as surgery/trauma house staff at an American College of Surgeons-verified Level II trauma center. *J Trauma*, 44(2), 372-376.

Mitchell, C. C., Ashley, S. W., Zinner, M. J., & Moore, F. D., Jr. (2007). Predicting future staffing needs at teaching hospitals: use of an analytical program with multiple variables. *Arch Surg*, 142(4), 329-334. doi:10.1001/archsurg.142.4.329

Moote, M., Englesbe, M., Bahl, V., Hu, H.M., Thompson, M., Kubus, J. & Campbell, D., Jr. (2010). PA-driven VTE risk assessment improves compliance with recommended prophylaxis. *Journal of American Academy of Physician Assistants*, 23(6), 27-35.

Morgan, P., Himmerick, K. A., Leach, B., Dieter, P., & Everett, C. (2016). Scarcity of Primary Care Positions May Divert Physician Assistants Into Specialty Practice. *Med Care Res Rev*. doi:10.1177/1077558715627555

Morgan, P. A., Shah, N. D., Kaufman, J. S., & Albanese, M. A. (2008). Impact of physician assistant care on office visit resource use in the United States. *Health Serv Res*, 43(5 Pt 2), 1906-1922. doi:10.1111/j.1475-6773.2008.00874.x

- Nabagiez, J. P., Shariff, M. A., Khan, M. A., Molloy, W. J., & McGinn, J. T., Jr. (2013). Physician assistant home visit program to reduce hospital readmissions. *.Journal of Thoracic Cardiovascular Surgery*, 145(1), 225-233.
- Naylor, M. D., & E.T., K. (2010). The role of nurse practitioners in reinventing primary care. *Health Affairs*, 29(5), 893-899.
- PAs, A. A. o. (2016). *PA education: preparation for excellence*. Retrieved from Alexandria, VA: <https://www.aapa.org/WorkArea/DownloadAsset.aspx?id=580>
- Pedersen, D. M., Chappell, B., Elison, G., & Bunnell, R. (2008). The productivity of PAs, APRNs, and physicians in Utah. *JAAPA*, 21(1), 42-44, 47.
- Radix, S. M. (2016). Continuing to move the PA profession forward: AAPA's new guidelines for state regulation of PAs. *PA Professional, American Academy of Physician Assistants*, 8-9.
- Rathfon, E., et al. (2014). *Renal physicians and physician assistants: excellence in team-based medicine*. Retrieved from <https://www.aapa.org/WorkArea/DownloadAsset.aspx?id=2776>
- Resnick, C. M., Daniels, K. M., Flath-Sporn, S. J., Doyle, M., Heald, R., & Padwa, B. L. (2016). Physician Assistants Improve Efficiency and Decrease Costs in Outpatient Oral and Maxillofacial Surgery. *J Oral Maxillofac Surg*, 74(11), 2128-2135. doi:10.1016/j.joms.2016.06.195
- Roblin, D. W., Howard, D. H., Becker, E. R., Adams, E. K., & Roberts, M. H. (2004). Use of midlevel practitioners to achieve labor cost savings in the primary care practice of an MCO. *Health Services Research*, 39(3), 607-625.
- Schwarz, H. B., Fritz, J. V., Govindarajan, R., Murray, R. P., Boyle, K. B., Getchius, T. S., & Freimer, M. (2015). Neurology advanced practice providers: A position paper of the American Academy of Neurology. *Neurology: Clinical Practice*, 5(4), 333-337.
- Sutton, J. P., Ramos, C., & Lucado, J. (2010). US physician assistant (PA) supply by state and county in 2009. *Journal of the American Academy of Physician Assistants*, 23(9), e5-e8.
- U.S. Congress (1986). *Nurse practitioners, physician assistants, and certified nurse-midwives: a policy analysis*. Retrieved from Washington, DC: <http://ota.fas.org/reports/8615.pdf>
- Virani, S. S., Maddox, T. M., Chan, P. S., Tang, F., Akeroyd, J. M., Risch, S. A., Petersen, L. A. (2015). Provider type and quality of outpatient cardiovascular disease care. *Journal of American College of Cardiology*, 66(16), 1803-1812.
- Wilson, I. B., Landon, B. E., Hirschhorn, L. R., McInnes, K., Ding, L., Marsden, P. V., & Cleary, P. D. (2005). Quality of HIV care provided by nurse practitioners, physician assistants, and physicians. *Ann Intern Med*, 143(10), 729-736.

# Insurance

- Adamson, T. E. (1971). Critical issues in the use of physician associates and assistants. *Am J Public Health, 61*(9), 1765-1779.
- Arrow, K. J. (1963). UNCERTAINTY AND THE WELFARE ECONOMICS OF MEDICAL CARE. *The American Economic Review, 53*(5), 941-973.
- Bernstein, J., Chollet, D., & Peterson, S. (2010). *How Does Insurance Coverage Improve Health Outcomes?* Retrieved from file:///C:/Users/dmelton/Downloads/Reformhealthcare\_IB1.pdf
- Buettgens, M., & Carroll, C. (2012). *Eliminating the Individual Mandate - Effects on Premiums Coverage and Uncompensated Care.* Retrieved from <http://www.urban.org/research/publication/eliminating-individual-mandate-effects-premiums-coverage-and-uncompensated-care>
- Buettgens, M., Dorn, S., & Carroll, C. (2011). *Consider Savings as Well as Costs.* Retrieved from <http://www.urban.org/sites/default/files/publication/27391/412361-ACA-and-State-Governments-Consider-Savings-as-Well-as-Costs.PDF>
- Carey, R. (2010). *Health Insurance Exchanges: Key Issues for State Implementation.* Retrieved from <http://www.rwjf.org/en/library/research/2010/09/health-insurance-exchanges.html>
- Cassidy, A. (2010). *Pre-Existing Condition Insurance Plan.* Retrieved from [http://healthaffairs.org/healthpolicybriefs/brief\\_pdfs/healthpolicybrief\\_34.pdf](http://healthaffairs.org/healthpolicybriefs/brief_pdfs/healthpolicybrief_34.pdf)
- Cassidy, A. (2012). *Health Policy Brief: Essential Health Benefits.* Retrieved from [http://www.healthaffairs.org/healthpolicybriefs/brief.php?brief\\_id=68](http://www.healthaffairs.org/healthpolicybriefs/brief.php?brief_id=68)
- Chandra, A., Gruber, J., & McKnight, R. (2010). Patient Cost Sharing in Low Income Populations. *American Economic Review, 100*(2), 303-308. doi:10.1257/aer.100.2.303
- Chappell, A. C. (2011). The value of health insurance: Few of the uninsured have adequate resources to pay potential hospital bills. *ASPE Research Brief.* Retrieved from <https://aspe.hhs.gov/system/files/pdf/113146/rb.pdf>
- Choudhry, N. K., Avorn, J., Glynn, R. J., Antman, E. M., Schneeweiss, S., Toscano, M. (2011). Full coverage for preventive medications after myocardial infarction. *N Engl J Med, 365*(22), 2088-2097. doi:10.1056/NEJMsa1107913
- Claxton, G., Rae, M., Panchal, N., Lundy, J., & Damico, A. (2011). *Employer Health Benefits 2011 Annual Survey.* Retrieved from <https://kaiserfamilyfoundation.files.wordpress.com/2013/04/8225.pdf>
- Cohen, R. A., Gindi, R. M., & Kirzinger, W. K. (2011). Financial Burden of Medical Care - Early Release Estimates from the NHIS. Retrieved from [https://www.cdc.gov/nchs/data/nhis/health\\_insurance/financial\\_burden\\_of\\_medical\\_care\\_032012.pdf](https://www.cdc.gov/nchs/data/nhis/health_insurance/financial_burden_of_medical_care_032012.pdf)
- Colla, C. H., Dow, W. H., & Dube, A. (2011). *The Labor Market Impact of Employer Health Benefit Mandates: Evidence from San Francisco's Health Care Security Ordinance.* Retrieved from <http://www.rwjf.org/en/library/research/2011/07/the-labor-market-impact-of-employer-health-benefit-mandates-.html>

- Cook, F. L. (2011). Perspective--the need for public deliberation: giving the public a voice on affordable health insurance. *J Health Polit Policy Law*, 36(5), 879-885. doi:10.1215/03616878-1407667
- Corlette, S., & Volk, J. (2010). *Active Purchasing for Health Insurance Exchanges: An Analysis of Options*. Retrieved from Washington D.C.:
- Counselman, F. L., Graffeo, C. A., & Hill, J. T. (2000). Patient satisfaction with physician assistants (PAs) in an ED fast track. *Am J Emerg Med*, 18(6), 661-665. doi:10.1053/ajem.2000.16301
- Eibner, C. (2008). *Is the Economic Burden of Providing Health Insurance Greater for Small Firms Than for Large Firms?* Retrieved from [https://www.rand.org/pubs/research\\_briefs/RB9340/index1.html](https://www.rand.org/pubs/research_briefs/RB9340/index1.html)
- Eibner, C., Girosi, F., Price, C. C., Cordova, A., Hussey, P. S., Beckman, A., & McGlynn, E. A. (2010). *Establishing State Health Insurance Exchanges Implications for Health Insurance Enrollment, Spending, and Small Businesses*. Retrieved from Santa Monica, CA:
- Gresenz, C. R., & Escarce, J. J. (2011). Spillover effects of community uninsurance on working-age adults and seniors: an instrumental variables analysis. *Med Care*, 49(9), e14-21. doi:10.1097/MLR.0b013e31822dc7f4
- Gresenz, C. R., Laugesen, M. J., Yesus, A., & Escarce, J. J. (2011). Relative Affordability of Health Insurance Premiums under CHIP Expansion Programs and the ACA. *J Health Polit Policy Law*, 36(5), 859-877. doi:10.1215/03616878-1407658
- Holahan, J. (2011). The 2007-09 recession and health insurance coverage. *Health Aff (Millwood)*, 30(1), 145-152. doi:10.1377/hlthaff.2010.1003
- Hong, K., Georgiades, C. S., Hebert, J., Wahlin, T., Mitchell, S. E., & Geschwind, J. F. (2006). Incorporating physician assistants and physician extenders in the contemporary interventional oncology practice. *Tech Vasc Interv Radiol*, 9(3), 96-100. doi:10.1053/j.tvir.2007.02.005
- Iglehart, J. K. (2012). Primary care update--light at the end of the tunnel? *N Engl J Med*, 366(23), 2144-2146. doi:10.1056/NEJMp1205537
- Johnston, B. F. (2010). *Reaching Uninsured Children: Iowa's Income Tax Return and CHIP Project*. Retrieved from <https://folio.iupui.edu/bitstream/handle/10244/907/67710.pdf?sequence=1>
- Jost, T. S. (2010). *Health Insurance Exchanges and the Affordable Care Act: Key Policy Issues*. Retrieved from <http://www.commonwealthfund.org/publications/fund-reports/2010/jul/health-insurance-exchanges-and-the-affordable-care-act>
- Jost, T. S. (2011). Employers And The Exchanges Under The Small Business Health Options Program: Examining The Potential And The Pitfalls. *Health Affairs*, 31(2), 267-274. doi:10.1377/hlthaff.2011.1011
- Kenney, G. M., Lynch, V., Cook, A., & Phong, S. (2010). Who and where are the children yet to enroll in Medicaid and the children's health insurance program? *Health Aff (Millwood)*, 29(10), 1920-1929. doi:10.1377/hlthaff.2010.0747
- Kocher, R., & Sahni, N. R. (2011). Rethinking health care labor. *N Engl J Med*, 365(15), 1370-1372. doi:10.1056/NEJMp1109649

Koh, H. K., & Sebelius, K. G. (2010). Promoting prevention through the Affordable Care Act. *N Engl J Med*, 363(14), 1296-1299. doi:10.1056/NEJMmp1008560

Long, S. K., Yemane, A., & Stockley, K. (2010). The Importance of Young Adult Provisions in Massachusetts' Health Reform. Retrieved from <http://www.rwjf.org/en/library/research/2010/08/the-importance-of-young-adult-provisions-in-massachusetts--healt.html>

Lueck, S. (2009). What Level of Coverage Will Health Reform Likely Provide? The Basics of Actuarial Value. *Center on Budget and Policy Priorities*. <https://www.cbpp.org/research/what-level-of-coverage-will-health-reform-likely-provide-the-basics-of-actuarial-value>

Lueck, S. (2010). States Should Structure Insurance Exchanges to Minimize Adverse Selection. *Center on Budget and Policy Priorities*. <https://www.cbpp.org/research/states-should-structure-insurance-exchanges-to-minimize-adverse-selection>

McLean, T. R. (2002). Crossing the quality chasm: autonomous physician extenders will necessitate a shift to enterprise liability coverage for health care delivery. *Health Matrix Clevel*, 12(2), 239-295.

Muennig, P., Sampat, B., Tilipman, N., Brown, L. D., & Glied, S. A. (2011). We all want it, but we don't know what it is: toward a standard of affordability for health insurance premiums. *J Health Polit Policy Law*, 36(5), 829-853. doi:10.1215/03616878-1407640

Newhouse, J. P. (2010). Assessing health reform's impact on four key groups of Americans. *Health Aff (Millwood)*, 29(9), 1714-1724. doi:10.1377/hlthaff.2010.0595

Nicoletti, B. (2006). How to bill for services performed by nonphysician practitioners. *Fam Pract Manag*, 13(5), 45-46, 48.

Ouslander, J. G., Lamb, G., Perloe, M., Givens, J. H., Kluge, L., Rutland, T., Saliba, D. (2010). Potentially avoidable hospitalizations of nursing home residents: frequency, causes, and costs: [see editorial comments by Drs. Jean F. Wyman and William R. Hazzard, pp 760-761]. *J Am Geriatr Soc*, 58(4), 627-635. doi:10.1111/j.1532-5415.2010.02768.x

Reschovsky, J. D., Ghosh, A., Stewart, K. A., & Chollet, D. J. (2012). Durable medical equipment and home health among the largest contributors to area variations in use of Medicare services. *Health Aff (Millwood)*, 31(5), 956-964. doi:10.1377/hlthaff.2011.0243

Schoen, C. (2009). *Insurance design matters: underinsured trends, health and financial risks, and principles for reform*. The Commonwealth Fund. Retrieved from <https://www.help.senate.gov/imo/media/doc/Schoen.pdf>

Strumpf, E., Levesque, J. F., Coyle, N., Hutchison, B., Barnes, M., & Wedel, R. J. (2012). Innovative and diverse strategies toward primary health care reform: lessons learned from the Canadian experience. *J Am Board Fam Med*, 25 Suppl 1, S27-33. doi:10.3122/jabfm.2012.02.110215

Swartz, K. (2011). Expert reflection--easier said than done. *J Health Polit Policy Law*, 36(5), 855-857. doi:10.1215/03616878-1407649

Walt, C. D., Proctor, B. D., & Smith, J. C. (2010). *Income, Poverty, and Health Insurance Coverage in the United States: 2009*. Retrieved from <https://www.census.gov/prod/2010pubs/p60-238.pdf>

# Internship and Residency

- Buch, K. E., Genovese, M. Y., Conigliaro, J. L., Nguyen, S. Q., Byrn, J. C., Novembre, C. L., & Divino, C. M. (2008). Non-physician practitioners' overall enhancement to a surgical resident's experience. *J Surg Educ*, 65(1), 50-53. doi:10.1016/j.jsurg.2007.07.002
- Choo, K. J., Arora, V. M., Barach, P., Johnson, J. K., & Farnan, J. M. (2014). How do supervising physicians decide to entrust residents with unsupervised tasks? A qualitative analysis. *J Hosp Med*, 9(3), 169-175. doi:10.1002/jhm.2150
- DeMots, H., Coombs, B., Murphy, E., & Palac, R. (1987). Coronary arteriography performed by a physician assistant. *Am J Cardiol*, 60(10), 784-787.
- Dhuper, S., & Choksi, S. (2009). Replacing an academic internal medicine residency program with a physician assistant--hospitalist model: a comparative analysis study. *Am J Med Qual*, 24(2), 132-139. doi:10.1177/1062860608329646
- Dozois, E. J., Holubar, S. D., Tsikitis, V. L., Malireddy, K., Cima, R. R., Farley, D. R., & Larson, D. W. (2009). Perceived impact of the 80-hour workweek: five years later. *J Surg Res*, 156(1), 3-15. doi:10.1016/j.jss.2009.02.003
- Finn, K. M., Heffner, R., Chang, Y., Bazari, H., Hunt, D., Pickell, K., & Karson, A. (2011). Improving the discharge process by embedding a discharge facilitator in a resident team. *J Hosp Med*, 6(9), 494-500. doi:10.1002/jhm.924
- Gershengorn, H. B., Wunsch, H., Wahab, R., Leaf, D. E., Brodie, D., Li, G., & Factor, P. (2011). Impact of nonphysician staffing on outcomes in a medical ICU. *Chest*, 139(6), 1347-1353. doi:10.1378/chest.10-2648
- Hauer, K. E., Durning, S. J., Kernan, W. N., Fagan, M. J., Mintz, M., O'Sullivan, P. S., & Schwartz, M. D. (2008). Factors associated with medical students' career choices regarding internal medicine. *JAMA*, 300(10), 1154-1164. doi:10.1001/jama.300.10.1154
- Iglehart, J. K. (2012). Primary care update--light at the end of the tunnel? *N Engl J Med*, 366(23), 2144-2146. doi:10.1056/NEJMmp1205537
- Jecker, N. S. (2010). The ethics of substituting physician assistants, nurse practitioners, and residents for attending physicians. *Am J Bioeth*, 10(8), 11-13. doi:10.1080/15265161.2010.494459
- Jones, P. E., & Cawley, J. F. (2009). Workweek restrictions and specialty-trained physician assistants: potential opportunities. *J Surg Educ*, 66(3), 152-157. doi:10.1016/j.jsurg.2009.03.033
- Lipner, R. S., Young, A., Chaudhry, H. J., Duhigg, L. M., & Papadakis, M. A. (2016). Specialty Certification Status, Performance Ratings, and Disciplinary Actions of Internal Medicine Residents. *Acad Med*, 91(3), 376-381. doi:10.1097/ACM.0000000000001055
- Mathur, M., Rampersad, A., Howard, K., & Goldman, G. M. (2005). Physician assistants as physician extenders in the pediatric intensive care unit setting-A 5-year experience. *Pediatr Crit Care Med*, 6(1), 14-19. doi:10.1097/01.PCC.0000149133.50687.A1
- Moote, M., Krsek, C., Kleinpell, R., & Todd, B. (2011). Physician assistant and nurse practitioner utilization in academic medical centers. *Am J Med Qual*, 26(6), 452-460. doi:10.1177/1062860611402984

- Nuckols, T. K., Bhattacharya, J., Wolman, D. M., Ulmer, C., & Escarce, J. J. (2009). Cost implications of reduced work hours and workloads for resident physicians. *N Engl J Med*, 360(21), 2202-2215. doi:10.1056/NEJMsa0810251
- Nyberg, S. M., Waswick, W., Wynn, T., & Keuter, K. (2007). Midlevel providers in a Level I trauma service: experience at Wesley Medical Center. *J Trauma*, 63(1), 128-134. doi:10.1097/01.ta.0000221765.90190.73
- Oswanski, M. F., Sharma, O. P., & Raj, S. S. (2004). Comparative review of use of physician assistants in a level I trauma center. *Am Surg*, 70(3), 272-279.
- Pezzi, C., Leibbrandt, T., Suryadevara, S., Heller, J. K., Hurley-Martonik, D., & Kukora, J. S. (2009). The present and future use of physician extenders in general surgery training programs: one response to the 80-hour work week. *J Am Coll Surg*, 208(4), 587-591. doi:10.1016/j.jamcollsurg.2009.01.009
- Pritchett, C. V., Hervey-Jumper, S. L., Aliu, O., & Hayanga, A. J. (2011). Legislating change in surgical residency. *Arch Surg*, 146(8), 972-974. doi:10.1001/archsurg.2011.221
- Reines, H. D., Robinson, L., Duggan, M., O'Brien B, M., & Aulenbach, K. (2006). Integrating midlevel practitioners into a teaching service. *Am J Surg*, 192(1), 119-124. doi:10.1016/j.amjsurg.2006.01.047
- Resnick, A. S., Todd, B. A., Mullen, J. L., & Morris, J. B. (2006). How do surgical residents and non-physician practitioners play together in the sandbox? *Curr Surg*, 63(2), 155-164. doi:10.1016/j.cursur.2005.12.009
- Roumie, C. L., Halasa, N. B., Edwards, K. M., Zhu, Y., Dittus, R. S., & Griffin, M. R. (2005). Differences in antibiotic prescribing among physicians, residents, and nonphysician clinicians. *Am J Med*, 118(6), 641-648. doi:10.1016/j.amjmed.2005.02.013
- Rudy, E. B., Davidson, L. J., Daly, B., Clochesy, J. M., Sereika, S., Baldissari, M., & Ryan, C. (1998). Care activities and outcomes of patients cared for by acute care nurse practitioners, physician assistants, and resident physicians: a comparison. *Am J Crit Care*, 7(4), 267-281.
- Russell, J. C., Kaplowe, J., & Heinrich, J. (1999). One hospital's successful 20-year experience with physician assistants in graduate medical education. *Acad Med*, 74(6), 641-645.
- Singh, S., Fletcher, K. E., Schapira, M. M., Conti, M., Tarima, S., Biblo, L. A., & Whittle, J. (2011). A comparison of outcomes of general medical inpatient care provided by a hospitalist-physician assistant model vs a traditional resident-based model. *J Hosp Med*, 6(3), 122-130. doi:10.1002/jhm.826
- Stahlfeld, K. R., Robinson, J. M., & Burton, E. C. (2008). What do physician extenders in a general surgery residency really do? *J Surg Educ*, 65(5), 354-358. doi:10.1016/j.jsurg.2008.06.002
- Sucov, A., Sidman, R., & Valente, J. (2009). A cost-efficiency analysis to increase clinician staffing in an academic emergency department. *Acad Med*, 84(9), 1211-1216. doi:10.1097/ACM.0b013e3181b187fc
- Thourani, V. H., & Miller, J. I., Jr. (2006). Physicians assistants in cardiothoracic surgery: a 30-year experience in a university center. *Ann Thorac Surg*, 81(1), 195-199; discussion 199-200. doi:10.1016/j.athoracsur.2005.07.031

Vanderveen, K., Chen, M., & Scherer, L. (2007). Effects of resident duty-hours restrictions on surgical and nonsurgical teaching faculty. *Arch Surg*, 142(8), 759-764; discussion 764-756.  
doi:10.1001/archsurg.142.8.759

Victorino, G. P., & Organ, C. H., Jr. (2003). Physician assistant influence on surgery residents. *Arch Surg*, 138(9), 971-975; discussion 975-976. doi:10.1001/archsurg.138.9.971

# Job Satisfaction

- Dozois, E. J., Holubar, S. D., Tsikitis, V. L., Malireddy, K., Cima, R. R., Farley, D. R., & Larson, D. W. (2009). Perceived impact of the 80-hour workweek: five years later. *J Surg Res*, 156(1), 3-15. doi:10.1016/j.jss.2009.02.003
- Flinkman, M., Leino-Kilpi, H., & Salanterä, S. (2010). Nurses' intention to leave the profession: integrative review. *J Adv Nurs*, 66(7), 1422-1434. doi:10.1111/j.1365-2648.2010.05322.x
- Freeborn, D. K., & Hooker, R. S. (1995). Satisfaction of physician assistants and other nonphysician providers in a managed care setting. *Public Health Rep*, 110(6), 714-719.
- Graeff, E. C., Leafman, J. S., Wallace, L., & Stewart, G. (2014). Job satisfaction levels of physician assistant faculty in the United States. *J Physician Assist Educ*, 25(2), 15-20.
- Hooker, R. S., Kuilman, L., & Everett, C. M. (2015). Physician Assistant Job Satisfaction: A Narrative Review of Empirical Research. *J Physician Assist Educ*, 26(4), 176-186. doi:10.1097/JPA.0000000000000047
- LaBarbera, D. M. (2010). Gender differences in the vocational satisfaction of physician assistants. *JAAPA*, 23(10), 33-34, 36-39.
- Liu, C. M., Chien, C. W., Chou, P., Liu, J. H., Chen, V. T., Wei, J., Lang, H. C. (2005). An analysis of job satisfaction among physician assistants in Taiwan. *Health Policy*, 73(1), 66-77. doi:10.1016/j.healthpol.2004.10.004
- Murrells, T., Robinson, S., & Griffiths, P. (2009). Nurses' job satisfaction in their early career: is it the same for all branches of nursing? *J Nurs Manag*, 17(1), 120-134. doi:10.1111/j.1365-2834.2008.00854.x
- Pape, H. C., & Pfeifer, R. (2009). Restricted duty hours for surgeons and impact on residents quality of life, education, and patient care: a literature review. *Patient Saf Surg*, 3(1), 3. doi:10.1186/1754-9493-3-3
- Shanafelt, T. D., Hasan, O., Dyrbye, L. N., Sinsky, C., Satele, D., Sloan, J., & West, C. P. (2015). Changes in Burnout and Satisfaction With Work-Life Balance in Physicians and the General US Working Population Between 2011 and 2014. *Mayo Clin Proc*, 90(12), 1600-1613. doi:10.1016/j.mayocp.2015.08.023
- Trybou, J., Gemmel, P., Van Vaerenbergh, Y., & Annemans, L. (2014). Hospital-physician relations: the relative importance of economic, relational and professional attributes to organizational attractiveness. *BMC Health Serv Res*, 14, 232. doi:10.1186/1472-6963-14-232
- Vanderveen, K., Chen, M., & Scherer, L. (2007). Effects of resident duty-hours restrictions on surgical and nonsurgical teaching faculty. *Arch Surg*, 142(8), 759-764; discussion 764-756. doi:10.1001/archsurg.142.8.759
- Waddimba, A. C., Scribani, M., Krupa, N., May, J. J., & Jenkins, P. (2016). Frequency of satisfaction and dissatisfaction with practice among rural-based, group-employed physicians and non-physician practitioners. *BMC Health Serv Res*, 16(1), 613. doi:10.1186/s12913-016-1777-8

# Legislation and Policy

AAPA (2015). Moving the PA profession forward: AAPA revises model state legislation for PAs. *PA Professional*, 7-8.

Angeles, J. (2011). *Out-of-Pocket Medical Costs Would Skyrocket for Low-Income Seniors and People with Disabilities Under the Ryan Budget Plan*. Retrieved from <https://www.cbpp.org/research/out-of-pocket-medical-costs-would-skyrocket-for-low-income-seniors-and-people-with>

Angeles, J. (2012). *Federal Guidance Needed for States to Fully Assess Option*. Retrieved from <https://www.cbpp.org/sites/default/files/atoms/files/3-13-12health.pdf>

Bachrach, D., Boozang, P., Dutton, M., & Lam, A. (2011). *HHS Proposed Rules on Exchange Implementation Requirements*. Retrieved from <http://www.statenetwork.org/wp-content/uploads/2014/11/Manatt-Analysis-of-HHS-proposed-exchange-implementation-rules5.pdf>

Baxter, R. J. (2010). Making better use of the policies and funding we already have. *Prev Chronic Dis*, 7(5), A97.

Buchbinder, M., Regan, J., Aldea, M., & Makowski, D. (2017). Improving Mental Health Services Through Physician Assistants: Legislation in Several Southern States. *South Med J*, 110(4), 239-243. doi:10.14423/SMJ.0000000000000638

Buettgens, M., Holahan, J., & Carroll, C. (2011). Health Reform Across the States: Increased Insurance Coverage and Federal Spending on the Exchanges and Medicaid Timely Analysis of Immediate Health Policy Issues

Carrk, T. (2011). *The Anniversary of the Affordable Care Act: A Year Later, the False Attacks Continue*. Center for American Progress. Retrieved from <https://www.americanprogress.org/issues/healthcare/reports/2011/03/21/9279/the-anniversary-of-the-affordable-care-act/>

Cawley, J. F. (2008). Physician assistants and Title VII support. *Acad Med*, 83(11), 1049-1056. doi:10.1097/ACM.0b013e3181890533

Cook, F. L. (2011). Perspective--the need for public deliberation: giving the public a voice on affordable health insurance. *J Health Polit Policy Law*, 36(5), 879-885. doi:10.1215/03616878-1407667

Daniels, N. (2001). Justice, health, and healthcare. *Am J Bioeth*, 1(2), 2-16. doi:10.1162/152651601300168834

Estes, E. H., Jr., & Carter, R. D. (2005). Accommodating a new medical profession: the history of physician assistant regulatory legislation in North Carolina. *NC Med J*, 66(2), 103-107.

Epstein, R. M., Fiscella, K., Lesser, C. S., & Stange, K. C. (2010). Why the nation needs a policy push on patient-centered health care. *Health Aff (Millwood)*, 29(8), 1489-1495. doi:10.1377/hlthaff.2009.0888

Frogner, B. K., Skillman, S. M., & Snyder, C. R. (2016). Characteristics of Veterans in Allied Healthcare Occupations. Retrieved from <http://depts.washington.edu/fammed/chws/wp->

[content/uploads/sites/5/2016/11/Characteristics\\_Veterans\\_Allied-Hlth\\_FR\\_2016\\_Nov\\_Frogner.pdf](content/uploads/sites/5/2016/11/Characteristics_Veterans_Allied-Hlth_FR_2016_Nov_Frogner.pdf)

Garfield, R. L., & Damico, A. (2012). Medicaid expansion under health reform may increase service use and improve access for low-income adults with diabetes. *Health Aff (Millwood)*, 31(1), 159-167. doi:10.1377/hlthaff.2011.0903

Goldberg, D. J. (2005). Laser physician legal responsibility for physician extender treatments. *Lasers Surg Med*, 37(2), 105-107. doi:10.1002/lsm.20215

Goldman, T. R. (2012). Health reform gets its day in court--the Supreme one. *Health Aff (Millwood)*, 31(1), 8-11. doi:10.1377/hlthaff.2011.1310

Grover, A., Orlowski, J. M., & Erikson, C. E. (2016). The Nation's Physician Workforce and Future Challenges. *Am J Med Sci*, 351(1), 11-19. doi:10.1016/j.amjms.2015.10.009

Hsiao, W. C., Knight, A. G., Kappel, S., & Done, N. (2011). What other states can learn from Vermont's bold experiment: embracing a single-payer health care financing system. *Health Aff (Millwood)*, 30(7), 1232-1241. doi:10.1377/hlthaff.2011.0515

Jacobson, P. D., & Jazowski, S. A. (2011). Physicians, the Affordable Care Act, and primary care: disruptive change or business as usual? *J Gen Intern Med*, 26(8), 934-937. doi:10.1007/s11606-011-1695-8

Johansen, M. E. (2017). Comparing Medical Ecology, Utilization, and Expenditures Between 1996-1997 and 2011-2012. *Annals of Family Medicine*, 15(4), 313-321.

Koh, H. K., & Sebelius, K. G. (2010). Promoting prevention through the Affordable Care Act. *N Engl J Med*, 363(14), 1296-1299. doi:10.1056/NEJMp1008560

McMichael, B. (2017). Beyond Physicians: The Effect of Licensing and Liability Laws on the Supply of Nurse Practitioners and Physician Assistants. Retrieved from <https://www.mercatus.org/publications/licensing-liability-laws-nurses-physician-assistants>

Ledford, M. K., Lambrew, J. M., Rothman, D. J., & Podesta, J. D. (2008). *The Health Care Delivery System: A Blueprint for Reform*. Retrieved from <https://www.americanprogress.org/issues/healthcare/reports/2008/10/31/5129/the-health-care-delivery-system-a-blueprint-for-reform/>

Long, S. K., Yemane, A., & Stockley, K. (2010). The Importance of Young Adult Provisions in Massachusetts' Health Reform. Retrieved from <http://www.rwjf.org/en/library/research/2010/08/the-importance-of-young-adult-provisions-in-massachusetts--healt.html>

McLean, T. R. (2002). Crossing the quality chasm: autonomous physician extenders will necessitate a shift to enterprise liability coverage for health care delivery. *Health Matrix Clevel*, 12(2), 239-295.

McMichael, B. J. (2017). The Demand for Healthcare Regulation: The Effect of Political Spending on Occupational Licensing Laws. *Southern Economic Journal*. doi:10.1002/soej.12211

*Medicaid Policy Options for Meeting the Needs of Adults with Mental Illness Under the ACA*. (2011). Retrieved from <https://kaiserfamilyfoundation.files.wordpress.com/2013/01/8181.pdf>

- Miller, A. (2010). *Implementing Health Reform: Employer & Consumer Issues*. Retrieved from Washington, D. C.: [http://www.allhealthpolicy.org/wp-content/uploads/2017/03/Implementing\\_Health\\_Reform\\_Employer\\_and\\_Consumer\\_Issues\\_101.pdf](http://www.allhealthpolicy.org/wp-content/uploads/2017/03/Implementing_Health_Reform_Employer_and_Consumer_Issues_101.pdf)
- Moses, R. E., & Feld, A. D. (2007). Physician liability for medical errors of nonphysician clinicians: nurse practitioners and physician assistants. *Am J Gastroenterol, 102*(1), 6-9. doi:10.1111/j.1572-0241.2006.00804.x
- Newhouse, J. P. (2010). Assessing health reform's impact on four key groups of Americans. *Health Aff (Millwood), 29*(9), 1714-1724. doi:10.1377/hlthaff.2010.0595
- N.A. (2011). *The 1099 Provision: A tax-reporting requirement for businesses, designed to raise revenues to finance health reform, is now likely to be repealed*. Retrieved from [http://healthaffairs.org/healthpolicybriefs/brief\\_pdfs/healthpolicybrief\\_40.pdf](http://healthaffairs.org/healthpolicybriefs/brief_pdfs/healthpolicybrief_40.pdf)
- Pop Quiz: Assessing Americans' Familiarity With the Health Care Law.* (2011). Retrieved from <http://www.kff.org/health-reform/poll-finding/pop-quiz-assessing-americans-familiarity-with-the/>
- Park, M., Cherry, D., & Decker, S. L. (2011). Nurse practitioners, certified nurse midwives, and physician assistants in physician offices. *NCHS Data Brief*(69), 1-8.
- Phillips, R. L., Jr. (2012). International learning on increasing the value and effectiveness of primary care (I LIVE PC). *J Am Board Fam Med, 25 Suppl 1*, S2-5. doi:10.3122/jabfm.2012.02.120005
- Pritchett, C. V., Hervey-Jumper, S. L., Aliu, O., & Hayanga, A. J. (2011). Legislating change in surgical residency. *Arch Surg, 146*(8), 972-974. doi:10.1001/archsurg.2011.221
- Rosenberg, S. M., Rosenthal, D. A., Rajan, D. K., Millward, S. F., Baum, R. A., Silberzweig, J. E., (2008). Position statement: the role of physician assistants in interventional radiology. *J Vasc Interv Radiol, 19*(12), 1685-1689. doi:10.1016/j.jvir.2008.09.004
- Rosenthal, M. B., Cutler, D. M., & Feder, J. (2011). The ACO rules--striking the balance between participation and transformative potential. *N Engl J Med, 365*(4), e6. doi:10.1056/NEJMmp1106012
- Sadler, A. M., Jr., & Davis, A. (2017). How PAs became licensed to practice in the United States. *JAAPA, 30*(7), 46-49. doi:10.1097/01.JAA.0000520540.23452.06
- Sahoo, A. (2009). Mass Legislative Initiative Could Radically change medical spa industry. *The Aesthetic Guide*.
- Sekscenski, E. S., Sansom, S., Bazell, C., Salmon, M. E., & Mullan, F. (1994). State practice environments and the supply of physician assistants, nurse practitioners, and certified nurse-midwives. *N Engl J Med, 331*(19), 1266-1271. doi:10.1056/NEJM199411103311905
- Shields, M. C., Patel, P. H., Manning, M., & Sacks, L. (2011). A model for integrating independent physicians into accountable care organizations. *Health Aff (Millwood), 30*(1), 161-172. doi:10.1377/hlthaff.2010.0824
- Stange, K. (2014). How does provider supply and regulation influence health care markets? Evidence from nurse practitioners and physician assistants. *J Health Econ, 33*, 1-27. doi:10.1016/j.jhealeco.2013.10.009

Testimony of Robert Greenstein: President, Center on Budget and Policy Priorities Before the House Budget Committee Hearing on "Strengthening the Safety Net" (Center on Budget and Policy Priorities 2012).

U.S. Congress, (1986). *Nurse Practitioners, Physician Assistants, and Certified Nurse-Midwives: A Policy Analysis*. Washington, D.C.: U.S. Government Printing Office.

Weitz, T., Anderson, P., & Taylor, D. (2009). Advancing scope of practice for advanced practice clinicians: more than a matter of access. *Contraception*, 80(2), 105-107.  
doi:10.1016/j.contraception.2009.04.013

Willis, J. B. (1993). Barriers to PA practice in primary care and rural medically underserved areas. *Journal of the American Academy of Physician Assistants*, 6(6), 418-422.

Zuckerman, S., & Berenson, R. (2010). *How Will Physicians Be Affected by Health Care Reform? Timely Analysis of Immediate Health Policy Issues*. Retrieved from <http://www.urban.org/sites/default/files/publication/28881/412155-How-Will-Hospitals-Be-Affected-by-Health-Care-Reform-.PDF>

# Licensing

- Adamson, T. E. (1971). Critical issues in the use of physician associates and assistants. *Am J Public Health, 61*(9), 1765-1779.
- Arrow, K. J. (1963). UNCERTAINTY AND THE WELFARE ECONOMICS OF MEDICAL CARE. *The American Economic Review, 53*(5), 941-973.
- Buchbinder, M., Regan, J., Aldea, M., & Makowski, D. (2017). Improving Mental Health Services Through Physician Assistants: Legislation in Several Southern States. *South Med J, 110*(4), 239-243. doi:10.14423/SMJ.0000000000000638
- Cash, B. D., Schoenfeld, P. S., & Ransohoff, D. F. (1999). Licensure, use, and training of paramedical personnel to perform screening flexible sigmoidoscopy. *Gastrointest Endosc, 49*(2), 163-169.
- Cawley, J. F. (2008). Physician assistants and Title VII support. *Acad Med, 83*(11), 1049-1056. doi:10.1097/ACM.0b013e3181890533
- Committee, C. S. o. C. A. (2008). *Final report of findings*. Retrieved from <http://www.coloradohealthinstitute.org/key-issues/detail/health-care-workforce/collaborative-scopes-of-care-advisory-committee-final-report-of-findings>
- Estes, E. H., Jr., & Carter, R. D. (2005). Accommodating a new medical profession: the history of physician assistant regulatory legislation in North Carolina. *N C Med J, 66*(2), 103-107.
- Kirkland, J. W. (1991). Guidelines and indications for coronary artery bypass graft surgery A report of the American College of Cardiology/American Heart Association task force on assessment of diagnostic and therapeutic cardiovascular procedures (subcommittee on coronary artery bypass graft surgery). *American College of Cardiology, 17*(3), 543-589. doi:10.1016/S0735-1097(10)80169-X
- McLean, T. R. (2002). Crossing the quality chasm: autonomous physician extenders will necessitate a shift to enterprise liability coverage for health care delivery. *Health Matrix Clevel, 12*(2), 239-295.
- Ross, N., & Parle, J. (2008). Physician assistants: a UK perspective on clinical need, education and regulation. *The Clinical Teacher, 5*(1). doi:10.1111/j.1743-498X.2007.00181.x
- Salibian, A. A., Mahboubi, H., Patel, M. S., Kuan, E. C., Malinoski, D. J., Vagefi, P. A., & Djalilian, H. R. (2016). The National Ambulatory Medical Care Survey: PAs and NPs in outpatient surgery. *JAAPA, 29*(5), 47-53. doi:10.1097/01.JAA.0000482302.40692.20
- Sekscenski, E. S., Sansom, S., Bazell, C., Salmon, M. E., & Mullan, F. (1994). State practice environments and the supply of physician assistants, nurse practitioners, and certified nurse-midwives. *N Engl J Med, 331*(19), 1266-1271. doi:10.1056/NEJM19941103311905
- Tabor, J., Jennings, N., Kohler, L., Degnan, B., Eng, H., Campos-Outcalt, D., & Derksen, D. (2016). AzCRH 2015 Supply and Demand Study of Arizona Health Practitioners and Professionals. *THE UNIVERSITY OF ARIZONA CENTER FOR RURAL HEALTH REPORT*.
- Timmons, E. J. (2017). The effects of expanded nurse practitioner and physician assistant scope of practice on the cost of Medicaid patient care. *Health Policy, 121*(2), 189-196. doi:10.1016/j.healthpol.2016.12.002

White, G. L., Jr., & Davis, A. M. (1999). Physician assistants as partners in physician-directed care. *South Med J*, 92(10), 956-960.

Young, A., Chaudhry, H. J., Pei, X., Halbesleben, K., Polk, D. H., & Dugan, M. (2015). A census of actively licensed physicians in the united states. *Journal of Medical Regulation*, 101(2), 8-23.

# Malpractice

- Bovbjerg, R. R. (2010). *Will the Patient Protection and Affordable Care Act Address the Problems Associated with Medical Malpractice?* Retrieved from <http://www.rwjf.org/en/library/research/2010/08/will-the-patient-protection-and-affordable-care-act-address-the-.html>
- Bovbjerg, R. R., & Berenson, R. A. (2012). *The Value of Clinical Practice Guidelines as Malpractice "Safe Harbors"*. Retrieved from <http://www.rwjf.org/en/library/research/2012/04/the-value-of-clinical-practice-guidelines-as-malpractice--safe-h.html>
- Brock, D. M., Nicholson, J. G., & Hooker, R. S. (2016). Physician Assistant and Nurse Practitioner Malpractice Trends. *Med Care Res Rev*. doi:10.1177/1077558716659022
- Cawley, J., Rohrs, R., & Hooker, R. S. (1998). PHYSICIAN ASSISTANTS AND MALPRACTICE RISK: FINDINGS FROM THE NATIONAL PRACTITIONER DATA BANK. *Federation Bulletin*, 85(4), 242-247.
- Conklin, A., Vilamovska, A. M., Vries, H., & Hatziandreu, E. (2009). Room for improvement Strong patient safety systems could limit health, social and economic harms from medical error. Santa Monica, CA: RAND Corporation.
- Levy, C., Palat, S. I., & Kramer, A. M. (2007). Physician practice patterns in nursing homes. *J Am Med Dir Assoc*, 8(9), 558-567. doi:10.1016/j.jamda.2007.06.015
- McLean, T. R. (2002). Crossing the quality chasm: autonomous physician extenders will necessitate a shift to enterprise liability coverage for health care delivery. *Health Matrix Clevel*, 12(2), 239-295.
- Nicholson, J., Nancarrow, S., & Hudak, N. M. (2016). Commentaries on health services research. *JAAPA*, 29(5), 1-2. doi:10.1097/01.JAA.0000482297.10198.98
- Pape, H. C., & Pfeifer, R. (2009). Restricted duty hours for surgeons and impact on residents quality of life, education, and patient care: a literature review. *Patient Saf Surg*, 3(1), 3. doi:10.1186/1754-9493-3-3
- Schaffer, A. C., Jena, A. B., Seabury, S. A., Singh, H., Chalasani, V., & Kachalia, A. (2017). Rates and Characteristics of Paid Malpractice Claims Among US Physicians by Specialty, 1992-2014. *JAMA Intern Med*. doi:10.1001/jamainternmed.2017.0311

# Medicaid

- Angeles, J. (2011). *Hatch-Upton Report On Costs to States of Expanding Medicaid Relies On Seriously Flawed Estimates*. Center on Budget and Policy Priorities. Retrieved from <https://www.cbpp.org/research/hatch-upton-report-on-costs-to-states-of-expanding-medicaid-relies-on-seriously-flawed>
- Arrow, K. J. (1963). UNCERTAINTY AND THE WELFARE ECONOMICS OF MEDICAL CARE. *The American Economic Review*, 53(5), 941-973.
- Assuring Access to Affordable Coverage: Medicaid and the Children's Health Insurance Program Final Rule*. (2012). Retrieved from <https://www.medicaid.gov/affordable-care-act/provisions/downloads/medicaidchip-eligibility-final-rule-fact-sheet-final-3-16-12.pdf>
- Bachrach, D. (2010). *Payment Reform: Creating a Sustainable Future for Medicaid*. Retrieved from <https://www.chcs.org/resource/payment-reform-creating-a-sustainable-future-for-medicaid/>
- Bachrach, D., Boozang, P., & Dutton, M. (2011). *Medicaid's Role in the Health Benefits Exchange: A Road Map for States*. Retrieved from <http://www.nashp.org/medicaids-role-health-benefit-exchange-road-map-states/>
- Cassidy, A. (2010). *Extra Federal Support For Medicaid*. Retrieved from [http://healthaffairs.org/healthpolicybriefs/brief\\_pdfs/healthpolicybrief\\_19.pdf](http://healthaffairs.org/healthpolicybriefs/brief_pdfs/healthpolicybrief_19.pdf)
- Center for Healthcare Strategies, I. (2011). *Implementing the Medicaid Prim Care Rate Increase - Roadmap for States*. Retrieved from <https://www.chcs.org/resource/implementing-the-medicaid-primary-care-rate-increase-a-roadmap-for-states/>
- Davenport, K., Hodin, R. M., & Feder, J. (2010). *The "Dual Eligible" Opportunity Improving Care and Reducing Costs for Individuals Eligible for Medicare and Medicaid*. Retrieved from [https://www.communitycatalyst.org/doc-store/publications/dual\\_eligibles.pdf](https://www.communitycatalyst.org/doc-store/publications/dual_eligibles.pdf)
- Dual Eligibles: Medicaid's Role for Low-Income Medicare Beneficiaries*. (2011). Retrieved from <http://www.kff.org/medicaid/fact-sheet/dual-eligibles-medicaids-role-for-low-income-2/>
- Finkelstein, A., Taubman, S., Wright, B., Bernstein, M., Gruber, J., Newhouse, J. P., & Oregon Health Study, G. (2012). The Oregon Health Insurance Experiment: Evidence from the First Year. *Q J Econ*, 127(3), 1057-1106.
- Foundation, K. F. (2012). Medicaid's role for women across the lifespan: Current Issues and the Impact of the Affordable Care Act.
- Garfield, R. L., & Damico, A. (2012). Medicaid expansion under health reform may increase service use and improve access for low-income adults with diabetes. *Health Aff (Millwood)*, 31(1), 159-167. doi:10.1377/hlthaff.2011.0903
- Hammon, M., & Hammon, W. E. (2005). Properly billing for "incident to" clinical services/treatments provided by auxiliary staff. *J Okla State Med Assoc*, 98(4), 159-160.
- Hing, E., & Schappert, S. M. (2012). Generalist and specialty physicians: supply and access, 2009-2010. *NCHS Data Brief*(105), 1-8.

- Hing, E., & Uddin, S. (2010). Visits to primary care delivery sites: United States, 2008. *NCHS Data Brief*(47), 1-8.
- Intrator, O., Feng, Z., Mor, V., Gifford, D., Bourbonniere, M., & Zinn, J. (2005). The employment of nurse practitioners and physician assistants in U.S. nursing homes. *Gerontologist*, 45(4), 486-495.
- Jha, A. K., Orav, E. J., & Epstein, A. M. (2011). Low--Quality, High--Cost Hospitals, Mainly in South, Care for Sharply Higher Shares of Elderly Black, Hispanic, and Medicaid Patients. *Health Affairs*, 30(30), 1904-1911.
- Kenney, G. M., Lynch, V., Cook, A., & Phong, S. (2010). Who and where are the children yet to enroll in Medicaid and the children's health insurance program? *Health Aff (Millwood)*, 29(10), 1920-1929. doi:10.1377/hlthaff.2010.0747
- Lawson, E. H., Carreon, R., Veselovskiy, G., & Escarce, J. J. (2011). Collection of language data and services provided by health plans. *Am J Manag Care*, 17(12), e479-487.
- Liu, S., & Croake, S. (2010). *How Are the Experiences of Individuals with Severe Mental Illness Different from Those of Other Medicaid Buy-In Participants?* Retrieved from <http://www.nasuad.org/hcbs/article/how-are-experiences-individuals-severe-mental-illness-different-those-other-medicaid>
- Medicaid Policy Options for Meeting the Needs of Adults with Mental Illness Under the ACA.* (2011). Retrieved from <https://kaiserfamilyfoundation.files.wordpress.com/2013/01/8181.pdf>
- Medicaid's Long-Term Care Users: Spending Patterns Across Institutional and Community-based Settings.* (2011). Retrieved from <http://www.kff.org/medicaid/issue-brief/medicaids-long-term-care-users-spending-patterns/>
- Medicaid's Role for Hispanic Americans.* (2011). Retrieved from <http://www.kff.org/disparities-policy/fact-sheet/medicaids-role-for-hispanic-americans/>
- Medicaid's Role for Dual-Eligible Beneficiaries.* (2013). Retrieved from <http://www.kff.org/medicaid/issue-brief/medicaids-role-for-dual-eligible-beneficiaries/>
- Medicaid Long-Term Services and Supports: Key Changes in the Health Reform Law.* (2010). Retrieved from <http://www.kff.org/health-reform/issue-brief/medicaid-long-term-services-and-supports-key/>
- Medicaid and HIV: A National Analysis.* (2011). Retrieved from <http://www.kff.org/hivaids/report/medicaid-and-hiv-a-national-analysis/>
- Newhouse, J. P. (2010). Assessing health reform's impact on four key groups of Americans. *Health Aff (Millwood)*, 29(9), 1714-1724. doi:10.1377/hlthaff.2010.0595
- Ouslander, J. G., Lamb, G., Perloe, M., Givens, J. H., Kluge, L., Rutland, T., & Saliba, D. (2010). Potentially avoidable hospitalizations of nursing home residents: frequency, causes, and costs: [see editorial comments by Drs. Jean F. Wyman and William R. Hazzard, pp 760-761]. *J Am Geriatr Soc*, 58(4), 627-635. doi:10.1111/j.1532-5415.2010.02768.x
- Park, M., Cherry, D., & Decker, S. L. (2011). Nurse practitioners, certified nurse midwives, and physician assistants in physician offices. *NCHS Data Brief*(69), 1-8.

Rosenberg, S. M., Rosenthal, D. A., Rajan, D. K., Millward, S. F., Baum, R. A., Silberzweig, J. E., & American Academy of Physician, A. (2008). Position statement: the role of physician assistants in interventional radiology. *J Vasc Interv Radiol*, 19(12), 1685-1689.  
doi:10.1016/j.jvir.2008.09.004

Sommers, A. S., Paradise, J., & Miller, C. (2011). Physician willingness and resources to serve more Medicaid patients: perspectives from primary care physicians. *Medicare Medicaid Res Rev*, 1(2). doi:10.5600/mmrr.001.02.a01

*State Medicaid Agencies Prepare for Health Care Reform While Continuing to Face Challenges from the Recession.* (2010). Retrieved from <http://www.kff.org/health-reform/issue-brief/state-medicaid-agencies-prepare-for-health-care-reform-while-continuing-to-face-challenges-from-the-recession/>

Timmons, E. (2016). Healthcare License Turf Wars: The Effects of Expanded Nurse Practitioner and Physician Assistant Scope of Practice on Medicaid Patient Access. *Mercatus Center: George Mason University*.

Timmons, E. J. (2017). The effects of expanded nurse practitioner and physician assistant scope of practice on the cost of Medicaid patient care. *Health Policy*, 121(2), 189-196.  
doi:10.1016/j.healthpol.2016.12.002

Volk, J., & Pettersson, J. (2011). *Global and Episodic Bundling: An Overview and Considerations for Medicaid*. Academy Health. Retrieved from [http://www.statecoverage.org/files/SCI\\_report\\_navigantFINAL2.pdf](http://www.statecoverage.org/files/SCI_report_navigantFINAL2.pdf)

# Medically Underserved Areas

Cawley, J. F. (2008). Physician assistants and Title VII support. *Acad Med*, 83(11), 1049-1056. doi:10.1097/ACM.0b013e3181890533

Center, N. a. R. G. (2007). *Access Denied - A look at America's medically disenfranchised*. Retrieved from <http://www.graham-center.org/content/dam/rgc/documents/publications-reports/monographs-books/Access%20Denied.pdf>

Chandra, A., Gruber, J., & McKnight, R. (2010). Patient Cost Sharing in Low Income Populations. *American Economic Review*, 100(2), 303-308. doi:10.1257/aer.100.2.303

Cooper, R. A. (2007). New directions for nurse practitioners and physician assistants in the era of physician shortages. *Acad Med*, 82(9), 827-828. doi:10.1097/ACM.0b013e31812f7939

Derose, K. P., Escarce, J. J., & Lurie, N. (2008). *Immigrants and Healthcare: A complex picture*. Retrieved from [https://www.rand.org/pubs/research\\_briefs/RB9317/index1.html](https://www.rand.org/pubs/research_briefs/RB9317/index1.html)

Ekwo, E., Daniels, M., Oliver, D., & Fethke, C. (1979). The physician assistant in rural primary care practices: physician assistant activities and physician supervision at satellite and non-satellite practice sites. *Med Care*, 17(8), 787-795.

Evans, T. C., Wick, K. H., Brock, D. M., Schaad, D. C., & Ballweg, R. (2006). Academic degrees and clinical practice characteristics: the University of Washington physician assistant program: 1969-2000. *J Rural Health*, 22(3), 212-219. doi:10.1111/j.1748-0361.2006.00034.x

Friedberg, M. W., Coltin, K. L., Safran, D. G., Dresser, M., & Schneider, E. C. (2010). Medical home capabilities of primary care practices that serve sociodemographically vulnerable neighborhoods. *Arch Intern Med*, 170(11), 938-944. doi:10.1001/archinternmed.2010.110

Grumbach, K. (2003). Who is Caring for the Underserved? A Comparison of Primary Care Physicians and Nonphysician Clinicians in California and Washington. *The Annals of Family Medicine*, 1(2), 97-104. doi:10.1370/afm.49

Henry, L. R., & Hooker, R. S. (2014). Caring for the disadvantaged: the role of physician assistants. *JAAPA*, 27(1), 36-42. doi:10.1097/01.JAA.0000438532.92138.53

Kenney, G. M., Lynch, V., Cook, A., & Phong, S. (2010). Who and where are the children yet to enroll in Medicaid and the children's health insurance program? *Health Aff (Millwood)*, 29(10), 1920-1929. doi:10.1377/hlthaff.2010.0747

Lynch, V., Phong, S., Kenney, G., & Macri, J. (2010). Uninsured Children: Who Are They and Where Do They Live?

McKinnon, M. F., Elizondo, E., Bonfiglio, S. M., Hunter-Buskey, R. N., Placide, F. P., & Bunnell, R. A. (2016). A history of PAs in the US Public Health Service. *JAAPA*, 29(12), 51-56. doi:10.1097/01.JAA.0000508213.19590.19

Medicaid and Community Health Centers: The Relationship Between Coverage for Adults and Primary Care Capacity in Medically Underserved Communities. (2012). Retrieved from <http://www.kff.org/health-reform/issue-brief/medicaid-and-community-health-centers-the-relationship/>

Phadera, L., Lynch, V., & Long, S. K. (2010). Massachusetts Health Reform in 2008: Who are the Remaining Uninsured Adults?

Pulchini, J., Ippolito, R., & O'Rourke, N. C. (2009). *Role Maximization of Nurse Practitioners and Physician Assistants in Boston: A Position Paper of the Workforce Capacity Subgroup. Mayor's Taskforce on Improving Access to Primary Care in Boston*. Retrieved from

Robert Graham Center. (2007). *Access Denied - A look at America's medically disenfranchised*. Retrieved from <http://www.graham-center.org/content/dam/rgc/documents/publications-reports/monographs-books/Access%20Denied.pdf> Filipova, A. A. (2014). Factors influencing the satisfaction of rural physician assistants: a cross-sectional study. *J Allied Health*, 43(1), 22-31.

Sekscenski, E. S., Sansom, S., Bazell, C., Salmon, M. E., & Mullan, F. (1994). State practice environments and the supply of physician assistants, nurse practitioners, and certified nurse-midwives. *N Engl J Med*, 331(19), 1266-1271. doi:10.1056/NEJM19941103311905

Silberman, P., Estes, E. H., Jr., Dubay, K. L., & Holmes, M. (2007). Weathering the practitioner workforce shortage. *NC Med J*, 68(3), 159-168.

Staiger, D. O., Marshall, S. M., Goodman, D. C., Auerbach, D., & Buerhaus, P. (2016). Association between having a highly educated spouse and physician practice in rural underserved areas. *Journal of American Medical Association*, 315(9), 939-941. doi:10.1001/jama.2015.16972

Timmons, E. (2016). Healthcare License Turf Wars: The Effects of Expanded Nurse Practitioner and Physician Assistant Scope of Practice on Medicaid Patient Access. *Mercatus Center: George Mason University*.

# Medicare

Ackermann, R. J., & Kemle, K. A. (1998). The effect of a physician assistant on the hospitalization of nursing home residents. *J Am Geriatr Soc*, 46(5), 610-614.

Agarwal, A., Zhang, W., Kuo, Y., & Sharma, G. (2016). Process and Outcome Measures among COPD Patients with a Hospitalization Cared for by an Advance Practice Provider or Primary Care Physician. *PLoS One*, 11(2), e0148522. doi:10.1371/journal.pone.0148522

Cassidy, A. (2010). *Health Policy Brief: Health Reform's Changes in Medicare*. Retrieved from [http://healthaffairs.org/healthpolicybriefs/brief\\_pdfs/healthpolicybrief\\_17.pdf](http://healthaffairs.org/healthpolicybriefs/brief_pdfs/healthpolicybrief_17.pdf)

Cassidy, A. (2011). *Medicare Advantage Plans*. Retrieved from [http://healthaffairs.org/healthpolicybriefs/brief\\_pdfs/healthpolicybrief\\_48.pdf](http://healthaffairs.org/healthpolicybriefs/brief_pdfs/healthpolicybrief_48.pdf)

Coldiron, B., & Ratnarathorn, M. (2014). Scope of physician procedures independently billed by mid-level providers in the office setting. *JAMA Dermatol*, 150(11), 1153-1159. doi:10.1001/jamadermatol.2014.1773

*Competitive Bidding Update—One Year Implementation Update*. (2012). Retrieved from <https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/DMEPOSCompetitiveBid/Downloads/Competitive-Bidding-Update-One-Year-Implementation.pdf>

Cubanski, J., Swoope, C., Damico, A., & Neuman, T. (2014). *Health Care on a Budget: The Financial Burden of Health Spending by Medicare Households*. Retrieved from <http://www.kff.org/medicare/issue-brief/health-care-on-a-budget-the-financial-burden-of-health-spending-by-medicare-households/>

Davenport, K., Hodin, R. M., & Feder, J. (2010). *The "Dual Eligible" Opportunity Improving Care and Reducing Costs for Individuals Eligible for Medicare and Medicaid*. Retrieved from [https://www.communitycatalyst.org/doc-store/publications/dual\\_eligibles.pdf](https://www.communitycatalyst.org/doc-store/publications/dual_eligibles.pdf)

Ebeler, J., Neuman, T., & Cubanski, J. (2011). *Independent Payment Advisory Board: A New Approach to Controlling Medicare Spending*. Retrieved from <http://www.kff.org/health-reform/issue-brief/the-independent-payment-advisory-board-a-new/>

Epstein, A. M., Jha, A. K., & Orav, E. J. (2011). The relationship between hospital admission rates and rehospitalizations. *N Engl J Med*, 365(24), 2287-2295. doi:10.1056/NEJMsa1101942

Gresenz, C. R., & Escarce, J. J. (2011). Spillover effects of community uninsurance on working-age adults and seniors: an instrumental variables analysis. *Med Care*, 49(9), e14-21. doi:10.1097/MLR.0b013e31822dc7f4

Grover, A., Orlowski, J. M., & Erikson, C. E. (2016). The Nation's Physician Workforce and Future Challenges. *Am J Med Sci*, 351(1), 11-19. doi:10.1016/j.amjms.2015.10.009

Hammon, M., & Hammon, W. E. (2005). Properly billing for "incident to" clinical services/treatments provided by auxiliary staff. *J Okla State Med Assoc*, 98(4), 159-160.

Hing, E., & Schappert, S. M. (2012). Generalist and specialty physicians: supply and access, 2009-2010. *NCHS Data Brief*(105), 1-8.

- Hooker, R. S., Cipher, D. J., & Sekscenski, E. (2005). Patient satisfaction with physician assistant, nurse practitioner, and physician care: a national survey of Medicare beneficiaries. *JCOM*, 12(2), 88-92.
- Iglehart, J. K. (2012). Primary care update--light at the end of the tunnel? *N Engl J Med*, 366(23), 2144-2146. doi:10.1056/NEJMp1205537
- Lawson, E. H., Carreon, R., Veselovskiy, G., & Escarce, J. J. (2011). Collection of language data and services provided by health plans. *Am J Manag Care*, 17(12), e479-487.
- Lumpkin, J. (2011). [Robert Wood Johnson Foundation comments on Availability of Medicare Data for Performance Measurement -File No. CMS-5059-P].
- Medicare Beneficiary Savings and ACA* (2012). Retrieved from <https://aspe.hhs.gov/basic-report/medicare-beneficiary-savings-and-affordable-care-act>
- N.A. (2010). *Medicare Fraud & Abuse*. Retrieved from [https://www.cms.gov/Outreach-and-Education/Medicare-Learning-Network-MLN/MLNProducts/downloads/fraud\\_and\\_abuse.pdf](https://www.cms.gov/Outreach-and-Education/Medicare-Learning-Network-MLN/MLNProducts/downloads/fraud_and_abuse.pdf)
- Newhouse, J. P. (2010). Assessing health reform's impact on four key groups of Americans. *Health Aff (Millwood)*, 29(9), 1714-1724. doi:10.1377/hlthaff.2010.0595
- Ouslander, J. G., Lamb, G., Perloe, M., Givens, J. H., Kluge, L., Rutland, T., & Saliba, D. (2010). Potentially avoidable hospitalizations of nursing home residents: frequency, causes, and costs: [see editorial comments by Drs. Jean F. Wyman and William R. Hazzard, pp 760-761]. *J Am Geriatr Soc*, 58(4), 627-635. doi:10.1111/j.1532-5415.2010.02768.x
- Park, M., Cherry, D., & Decker, S. L. (2011). Nurse practitioners, certified nurse midwives, and physician assistants in physician offices. *NCHS Data Brief*(69), 1-8.
- Press, M., Howe, R., Schoenbaum, S. C., Cavanaugh, S., Marshall, A., Baldwin, L., & Conway, P. (2017). Medicare Payment for Behavioral Health Integration. Retrieved from <http://catalyst.nejm.org/medicare-payment-behavioral-health-integration/>
- Proposed Changes to Medicare in the "Path to Prosperity": Overview and Key Questions*. (2011). Retrieved from <http://www.kff.org/medicare/issue-brief/proposed-changes-to-medicare-in-path-to/>
- Reschovsky, J. D., Ghosh, A., Stewart, K. A., & Chollet, D. J. (2012). Durable medical equipment and home health among the largest contributors to area variations in use of Medicare services. *Health Aff (Millwood)*, 31(5), 956-964. doi:10.1377/hlthaff.2011.0243
- Roblin, D. W., Howard, D. H., Junling, R., & Becker, E. R. (2011). An evaluation of the influence of primary care team functioning on the health of Medicare beneficiaries. *Med Care Res Rev*, 68(2), 177-201. doi:10.1177/1077558710374619
- Rosenberg, S. M., Rosenthal, D. A., Rajan, D. K., Millward, S. F., Baum, R. A., Silberzweig, J. E., & American Academy of Physician, A. (2008). Position statement: the role of physician assistants in interventional radiology. *J Vasc Interv Radiol*, 19(12), 1685-1689. doi:10.1016/j.jvir.2008.09.004

Rosenthal, M. B., Cutler, D. M., & Feder, J. (2011). The ACO rules--striking the balance between participation and transformative potential. *N Engl J Med*, 365(4), e6.  
doi:10.1056/NEJMmp1106012

Shields, M. C., Patel, P. H., Manning, M., & Sacks, L. (2011). A model for integrating independent physicians into accountable care organizations. *Health Aff (Millwood)*, 30(1), 161-172.  
doi:10.1377/hlthaff.2010.0824

*Strengthening Medicare: Better Health, Better Care, Lower Costs.* (2011). Retrieved from  
<http://www.helpingyoucare.com/13212/affordable-care-act-saves-120-billion-for-medicare-over-5-years>

Tunis, S. R., Berenson, R. A., Phurrough, S. E., & Mohr, P. E. (2011). *Improving the Quality and Efficiency of the Medicare Program Through Coverage Policy: Timely Analysis of Immediate Health Policy Issues.* Retrieved from  
<http://www.urban.org/sites/default/files/publication/27516/412392-Improving-the-Quality-and-Efficiency-of-the-Medicare-Program-Through-Coverage-Policy.PDF>

Wamhoff, S. (2010). *Medicare Tax Reform in Health "Corrections" Bill Unlikely to Have Any Noticeable Impact on Small Businesses and Jobs.* Retrieved from  
[http://ctj.org/ctjreports/2010/03/medicare\\_tax\\_reform\\_in\\_health\\_corrections\\_bill\\_unlikely\\_to\\_have\\_any\\_noticeable\\_impact\\_on\\_small\\_busin.php#.WaBAvT6GOvE](http://ctj.org/ctjreports/2010/03/medicare_tax_reform_in_health_corrections_bill_unlikely_to_have_any_noticeable_impact_on_small_busin.php#.WaBAvT6GOvE)

# Nursing and Nurse Practitioners

American College of Physicians (1994). Physician Assistants and Nurse Practitioners. *Ann Intern Med*, 121(9), 714-716. doi:10.7326/0003-4819-121-9-199411010-00014

Bates, T., & Chapman, S. (2010). *Physician Assistant and Nurse Practitioner Staffing Patterns in California's Licensed Community Clinics*. Retrieved from [https://healthforce.ucsf.edu/sites/healthforce.ucsf.edu/files/publication-pdf/6.%202010-06\\_Physician\\_Assistant\\_and\\_Nurse\\_Practitioner\\_Staffing\\_Patterns\\_in\\_Californias\\_Licensed\\_Community\\_Clinics\\_2005-2008.pdf](https://healthforce.ucsf.edu/sites/healthforce.ucsf.edu/files/publication-pdf/6.%202010-06_Physician_Assistant_and_Nurse_Practitioner_Staffing_Patterns_in_Californias_Licensed_Community_Clinics_2005-2008.pdf)

Brock, D. M., Nicholson, J. G., & Hooker, R. S. (2016). Physician Assistant and Nurse Practitioner Malpractice Trends. *Med Care Res Rev*. doi:10.1177/1077558716659022

Cash, B. D., Schoenfeld, P. S., & Ransohoff, D. F. (1999). Licensure, use, and training of paramedical personnel to perform screening flexible sigmoidoscopy. *Gastrointest Endosc*, 49(2), 163-169.

Cook, M., & Riley, L. (2013). NPs as Usual Care Providers. *AANP Research Brief*, 1(1).

Dehn, R. W., Berkowitz, O., & Coombs, J. M. (2016). Commentaries on health services research. *JAPA*, 29(12), 1-2. doi:10.1097/01.JAA.0000508209.40675.d

Essary, A. C., Green, E. P., & Gans, D. N. (2016). Compensation and Production in Family Medicine by Practice Ownership. *Health Services Research and Managerial Epidemiology*, 3(0). doi:10.1177/2333392815624111

Federal Trade Commission. (2016). *FTC staff supports department of Veterans Affairs proposed rule to grant full practice authority to advanced practice registered nurses*. Retrieved from <https://www.ftc.gov/news-events/press-releases/2016/07/ftc-staff-supports-department-veterans-affairs-proposed-rule>

Grabenkort, W. R., Meissen, H. H., Gregg, S. R., & Coopersmith, C. M. (2017). Acute Care Nurse Practitioners and Physician Assistants in Critical Care: Transforming Education and Practice. *Crit Care Med*, 45(7), 1111-1114. doi:10.1097/CCM.0000000000002536

Hart, A. M., & Bowen, A. (2016). New Nurse Practitioners' Perceptions of Preparedness for and Transition Into Practice. *The Journal for Nurse Practitioners*. doi:10.1016/j.nurpra.2016.04.018

Hing, E., Hooker, R. S., & Ashman, J. J. (2011). Primary health care in community health centers and comparison with office-based practice. *J Community Health*, 36(3), 406-413. doi:10.1007/s10900-010-9322-x

Hooker, R. S., Potts, R., & Ray, W. (1997). Patient Satisfaction: Comparing Physician Assistants, Nurse Practitioners, and Physicians. *The Permanente Journal*, 1(1), 38-42.

Huang, B. J. (2016). How NPs and PAs Work with HM Groups. *The Hospitalist*. Retrieved from <http://www.the-hospitalist.org/article/nps-pas-work-hm-groups/>

Johal, J., & Dodd, A. (2017). Physician extenders on surgical services: a systematic review. *Can J Surg*, 60(2), 1516. doi:10.1503/cjs.001516

Laurant, M. (N.A.). *Physician Substitution in the Netherlands*. Scientific Institute for Quality of Healthcare.

Mendenhall, R. C., Repicky, P. A., & Neville, R. E. (1980). Assessing the Utilization and Productivity of Nurse Practitioners and Physician's Assistants: Methodology and Findings on Productivity. *Medical Care, 18*(6), 609-623.

Mafi, J. N., Wee, C. C., Davis, R. B., & Landon, B. E. (2016). Comparing Use of Low-Value Health Care Services Among U.S. Advanced Practice Clinicians and Physicians. *Ann Intern Med.* doi:10.7326/M15-2152

Murrells, T., Robinson, S., & Griffiths, P. (2009). Nurses' job satisfaction in their early career: is it the same for all branches of nursing? *J Nurs Manag, 17*(1), 120-134. doi:10.1111/j.1365-2834.2008.00854.x

Park, M., Cherry, D., & Decker, S. L. (2011). Nurse practitioners, certified nurse midwives, and physician assistants in physician offices. *NCHS Data Brief*(69), 1-8.

Perry, J. J. (2009). The Rise and Impact of Nurse Practitioners and Physician Assistants on Their Own and Cross-Occupation Incomes. *Contemporary Economic Policy, 27*(4), 491-511. doi:10.1111/j.1465-7287.2009.00162.x

Pulchini, J., Ippolito, R., & O'Rourke, N. C. (2009). *Role Maximization of Nurse Practitioners and Physician Assistants in Boston: A Position Paper of the Workforce Capacity Subgroup. Mayor's Taskforce on Improving Access to Primary Care in Boston.* Retrieved from [https://www.researchgate.net/publication/256662406\\_Pulchini\\_J\\_Ippolito\\_R\\_O'Rourke\\_N\\_e\\_t\\_al\\_2009\\_Role\\_Maximization\\_of\\_Nurse\\_Practitioners\\_and\\_Physician\\_Assistants\\_in\\_Boston\\_A\\_Position\\_Paper\\_of\\_the\\_Workforce\\_Capacity\\_Subgroup\\_Mayor's\\_Taskforce\\_on\\_Improvi](https://www.researchgate.net/publication/256662406_Pulchini_J_Ippolito_R_O'Rourke_N_e_t_al_2009_Role_Maximization_of_Nurse_Practitioners_and_Physician_Assistants_in_Boston_A_Position_Paper_of_the_Workforce_Capacity_Subgroup_Mayor's_Taskforce_on_Improvi)

Rattray, N. A., Damush, T. M., Luckhurst, C., Bauer-Martinez, C. J., Homoya, B. J., & Miech, E. J. (2017). Prime movers: Advanced practice professionals in the role of stroke coordinator. *J Am Assoc Nurse Pract.* doi:10.1002/2327-6924.12462

Sargent, M., Hooker, R. S., & Cooper, R. A. (2011). Gaps in the supply of physicians, advance practice nurses, and physician assistants. *J Am Coll Surg, 212*(6), 991-999. doi:10.1016/j.jamcollsurg.2011.03.005

Salsberg, E., & Quigley, L. (2016). Are we facing a physician assistant surplus? *JAAPA, 29*(11), 40-44. doi:10.1097/01.JAA.0000502865.59093.ef

Schember, J. (2017). *Professional Profile of NPs and PAs Nurse Practitioners and Physician Assistants Market Insights Series.* Retrieved from <http://www.skainfo.com/reports/profile-of-nps-and-pas>

Sekscenski, E. S., Sansom, S., Bazell, C., Salmon, M. E., & Mullan, F. (1994). State practice environments and the supply of physician assistants, nurse practitioners, and certified nurse-midwives. *N Engl J Med, 331*(19), 1266-1271. doi:10.1056/NEJM19941103311905

Strand, J., Short, N. M., & Korb, E. G. (2007). The roles and supply of nurse-midwives, nurse practitioners, and physician assistants in North Carolina. *N C Med J, 68*(3), 184-186.

Weitz, T., Anderson, P., & Taylor, D. (2009). Advancing scope of practice for advanced practice clinicians: more than a matter of access. *Contraception, 80*(2), 105-107. doi:10.1016/j.contraception.2009.04.013

Yang, B. K., Trinkoff, A. M., Zito, J. M., Burcu, M., Safer, D. J., Storr, C. L., & Idzik, S. (2017). Nurse Practitioner Independent Practice Authority and Mental Health Service Delivery in U.S. Community Health Centers. *Psychiatr Serv*, appips201600495.  
doi:10.1176/appi.ps.201600495

Zimmerman, J. (1997). Nurse practitioners, physician assistants, and certified nurse-midwives: primary care providers in rural areas. *Prairie Rose*, 66(2), 8a-11a.

# Organization & Administration

- AHC Meia. (2008). Competitive concerns bring PAs, NPs into triage area. *ED Manag*, 20(6), 67-68.
- Allen, S. M., Ballweg, R. A., Cosgrove, E. M., Engle, K. A., Robinson, L. R., Rosenblatt, R. A., & Wenrich, M. D. (2013). Challenges and opportunities in building a sustainable rural primary care workforce in alignment with the Affordable Care Act: the WWAMI program as a case study. *Acad Med*, 88(12), 1862-1869. doi:10.1097/ACM.0000000000000008
- Armitage, M., & Shepherd, S. (2005). A new professional in the healthcare workforce: role, training, assessment and regulation. *Clin Med (Lond)*, 5(4), 311-314.
- Ashwood, J. S., Gaynor, M., Setodji, C. M., Reid, R. O., Weber, E., & Mehrotra, A. (2016). Retail Clinic Visits For Low-Acuity Conditions Increase Utilization And Spending. *Health Aff (Millwood)*, 35(3), 449-455. doi:10.1377/hlthaff.2015.0995
- Auerbach, D. I., Chen, P. G., Friedberg, M. W., Reid, R., Lau, C., Buerhaus, P. I., & Mehrotra, A. (2013). Nurse-managed health centers and patient-centered medical homes could mitigate expected primary care physician shortage. *Health Aff (Millwood)*, 32(11), 1933-1941. doi:10.1377/hlthaff.2013.0596
- Bevis, L. C., Berg-Copas, G. M., Thomas, B. W., Vasquez, D. G., Wetta-Hall, R., Brake, D., & Harrison, P. (2008). Outcomes of tube thoracostomies performed by advanced practice providers vs trauma surgeons. *Am J Crit Care*, 17(4), 357-363.
- Buch, K. E., Genovese, M. Y., Conigliaro, J. L., Nguyen, S. Q., Byrn, J. C., Novembre, C. L., & Divino, C. M. (2008). Non-physician practitioners' overall enhancement to a surgical resident's experience. *J Surg Educ*, 65(1), 50-53. doi:10.1016/j.jsurg.2007.07.002
- Buchanan, J. L., & Hosek, S. D. (1983). *Costs, Productivity, and the Utilization of Physician's Extenders in Air Force Primary Medicine Clinics*. Retrieved from <https://www.rand.org/content/dam/rand/pubs/reports/2006/R2896.pdf>
- Choo, K. J., Arora, V. M., Barach, P., Johnson, J. K., & Farnan, J. M. (2014). How do supervising physicians decide to entrust residents with unsupervised tasks? A qualitative analysis. *J Hosp Med*, 9(3), 169-175. doi:10.1002/jhm.2150
- Coldiron, B., & Ratnarathorn, M. (2014). Scope of physician procedures independently billed by mid-level providers in the office setting. *JAMA Dermatol*, 150(11), 1153-1159. doi:10.1001/jamadermatol.2014.1773
- Cooper, R. A. (2007). New directions for nurse practitioners and physician assistants in the era of physician shortages. *Acad Med*, 82(9), 827-828. doi:10.1097/ACM.0b013e31812f7939
- Delbanco, T., Walker, J., Darer, J. D., Elmore, J. G., Feldman, H. J., Leveille, S. G., & Weber, V. D. (2010). Open notes: doctors and patients signing on. *Ann Intern Med*, 153(2), 121-125. doi:10.7326/0003-4819-153-2-201007200-00008
- Dhuper, S., & Choksi, S. (2009). Replacing an academic internal medicine residency program with a physician assistant--hospitalist model: a comparative analysis study. *Am J Med Qual*, 24(2), 132-139. doi:10.1177/1062860608329646

- Dorn, S. D. (2010). Mid-level providers in gastroenterology. *Am J Gastroenterol*, 105(2), 246-251. doi:10.1038/ajg.2009.275
- Ellis, M., & Krol, E. (2005). A case study on the use of physician assistants in college health. *Pediatr Clin North Am*, 52(1), 1-8, vii. doi:10.1016/j.pcl.2004.10.001
- Epstein, R. M., Fiscella, K., Lesser, C. S., & Stange, K. C. (2010). Why the nation needs a policy push on patient-centered health care. *Health Aff (Millwood)*, 29(8), 1489-1495. doi:10.1377/hlthaff.2009.0888
- Federal Trade Commission, O. o. P. P. (2015). Letter from the Federal Trade Commission's Office of Policy Planning, Bureau of Economics and Bureau of Competition to Representative Kirkton.
- Friedberg, M. W., Coltin, K. L., Safran, D. G., Dresser, M., & Schneider, E. C. (2010). Medical home capabilities of primary care practices that serve sociodemographically vulnerable neighborhoods. *Arch Intern Med*, 170(11), 938-944. doi:10.1001/archinternmed.2010.110
- Friedberg, M. W., SteelFisher, G. K., Karp, M., & Schneider, E. C. (2011). Physician groups' use of data from patient experience surveys. *J Gen Intern Med*, 26(5), 498-504. doi:10.1007/s11606-010-1597-1
- Fujimoto, S., Mizuno, R., Saito, Y., & Nakamura, S. (2004). Clinical application of wave intensity for the treatment of essential hypertension. *Heart Vessels*, 19(1), 19-22. doi:10.1007/
- Gershengorn, H. B., Johnson, M. P., & Factor, P. (2012). The use of nonphysician providers in adult intensive care units. *Am J Respir Crit Care Med*, 185(6), 600-605. doi:10.1164/rccm.201107-1261CP
- Gershengorn, H. B., Wunsch, H., Wahab, R., Leaf, D. E., Brodie, D., Li, G., & Factor, P. (2011). Impact of nonphysician staffing on outcomes in a medical ICU. *Chest*, 139(6), 1347-1353. doi:10.1378/chest.10-2648
- Glicken, A. D., & Miller, A. A. (2013). Physician assistants: from pipeline to practice. *Acad Med*, 88(12), 1883-1889. doi:10.1097/ACM.0000000000000009
- Glotzbecker, B. E., Yolin-Raley, D. S., DeAngelo, D. J., Stone, R. M., Soiffer, R. J., & Alyea, E. P., 3rd. (2013). Impact of physician assistants on the outcomes of patients with acute myelogenous leukemia receiving chemotherapy in an academic medical center. *J Oncol Pract*, 9(5), e228-233. doi:10.1200/JOP.2012.000841
- Goodyear-Smith, F., Gauld, R., Cumming, J., O'Keefe, B., Pert, H., & McCormack, P. (2012). International learning on increasing the value and effectiveness of primary care (I LIVE PC) New Zealand. *J Am Board Fam Med*, 25 Suppl 1, S39-44. doi:10.3122/jabfm.2012.02.110198
- Graves, J. A., Mishra, P., Dittus, R. S., Parikh, R., Perloff, J., & Buerhaus, P. I. (2016). Role of Geography and Nurse Practitioner Scope-of-Practice in Efforts to Expand Primary Care System Capacity: Health Reform and the Primary Care Workforce. *Med Care*, 54(1), 81-89. doi:10.1097/MLR.0000000000000454
- Green, L. V., Savin, S., & Lu, Y. (2013). Primary care physician shortages could be eliminated through use of teams, nonphysicians, and electronic communication. *Health Aff (Millwood)*, 32(1), 11-19. doi:10.1377/hlthaff.2012.1086
- Grover, A., Orlowski, J. M., & Erikson, C. E. (2016). The Nation's Physician Workforce and Future Challenges. *Am J Med Sci*, 351(1), 11-19. doi:10.1016/j.amjms.2015.10.009

- Grzybicki, D. M., Sullivan, P. J., Oppy, J. M., Bethke, A. M., & Raab, S. S. (2002). The economic benefit for family/general medicine practices employing physician assistants. *Am J Manag Care, 8*(7), 613-620.
- Gujral, H., Visconti, C., & Collantes, R. (2004). The role of physician extenders in managing patients with chronic hepatitis C. *Cleve Clin J Med, 71 Suppl 3*, S33-37.
- Hall, M. H., Esposito, R. A., Pekmezaris, R., Lesser, M., Moravick, D., Jahn, L., & Hartman, A. R. (2014). Cardiac surgery nurse practitioner home visits prevent coronary artery bypass graft readmissions. *Ann Thorac Surg, 97*(5), 1488-1493; discussion 1493-1485. doi:10.1016/j.athoracsur.2013.12.049
- Hedges, J. R. (2005). Physician extenders in the emergency department. *Emerg Med J, 22*(5), 314-315. doi:10.1136/emj.2004.022996
- Henry, L. R., & Hooker, R. S. (2014). Caring for the disadvantaged: the role of physician assistants. *JAAPA, 27*(1), 36-42. doi:10.1097/01.JAA.0000438532.92138.53
- Hing, E., Hooker, R. S., & Ashman, J. J. (2011). Primary health care in community health centers and comparison with office-based practice. *J Community Health, 36*(3), 406-413. doi:10.1007/s10900-010-9322-x
- Hong, K., Georgiades, C. S., Hebert, J., Wahlin, T., Mitchell, S. E., & Geschwind, J. F. (2006). Incorporating physician assistants and physician extenders in the contemporary interventional oncology practice. *Tech Vasc Interv Radiol, 9*(3), 96-100. doi:10.1053/j.tvir.2007.02.005
- Hooker, R. S. (2008). The extension of rheumatology services with physician assistants and nurse practitioners. *Best Pract Res Clin Rheumatol, 22*(3), 523-533. doi:10.1016/j.berh.2007.12.006
- Hsiao, W. C., Knight, A. G., Kappel, S., & Done, N. (2011). What other states can learn from Vermont's bold experiment: embracing a single-payer health care financing system. *Health Aff (Millwood), 30*(7), 1232-1241. doi:10.1377/hlthaff.2011.0515
- Hughes, N. (2005). Should you add a PA or an NP to your practice? *J Med Pract Manage, 20*(4), 203-206.
- Jacobson, P. D., & Jazowski, S. A. (2011). Physicians, the Affordable Care Act, and primary care: disruptive change or business as usual? *J Gen Intern Med, 26*(8), 934-937. doi:10.1007/s11606-011-1695-8
- Kartha, A., Restuccia, J. D., Burgess, J. F., Jr., Benzer, J., Glasgow, J., Hockenberry, J., & Kaboli, P. J. (2014). Nurse practitioner and physician assistant scope of practice in 118 acute care hospitals. *J Hosp Med, 9*(10), 615-620. doi:10.1002/jhm.2231
- Kulkarni, N., & Cardin, T. (2014). Hospital medicine workforce: the impact of nurse practitioner and physician assistant providers. *J Hosp Med, 9*(10), 678-679. doi:10.1002/jhm.2254
- Levy, C., Palat, S. I., & Kramer, A. M. (2007). Physician practice patterns in nursing homes. *J Am Med Dir Assoc, 8*(9), 558-567. doi:10.1016/j.jamda.2007.06.015
- Mains, C., Scarborough, K., Bar-Or, R., Hawkes, A., Huber, J., Bourg, P., & Bar-Or, D. (2009). Staff commitment to trauma care improves mortality and length of stay at a level I trauma center. *J Trauma, 66*(5), 1315-1320. doi:10.1097/TA.0b013e31819d96d8

- McLean, T. R. (2002). Crossing the quality chasm: autonomous physician extenders will necessitate a shift to enterprise liability coverage for health care delivery. *Health Matrix Clevel*, 12(2), 239-295.
- Meyers, D. (2012). Introduction from the Agency for Healthcare Research and Quality. *J Am Board Fam Med*, 25 Suppl 1, S1. doi:10.3122/jabfm.2012.02.120023
- Mikhail, J., Millerz, W., & Wagner, J. (2009). Midlevel practitioner role evolution in an American College of Surgeons-verified trauma surgery service: the 23-year experience at Hurley Medical Center. *J Trauma Nurs*, 16(1), 33-40. doi:10.1097/01.JTN.0000348068.63970.dc
- Miller, W., Riehl, E., Napier, M., Barber, K., & Dabideen, H. (1998). Use of physician assistants as surgery/trauma house staff at an American College of Surgeons-verified Level II trauma center. *J Trauma*, 44(2), 372-376.
- Moote, M., Krsek, C., Kleinpell, R., & Todd, B. (2011). Physician assistant and nurse practitioner utilization in academic medical centers. *Am J Med Qual*, 26(6), 452-460. doi:10.1177/1062860611402984
- Neily, J., Mills, P. D., Lee, P., Carney, B., West, P., Percarpio, K., Bagian, J. P. (2010). Medical team training and coaching in the Veterans Health Administration: assessment and impact on the first 32 facilities in the programme. *Qual Saf Health Care*, 19(4), 360-364. doi:10.1136/qshc.2008.031005
- Nestler, D. M., Fratzke, A. R., Church, C. J., Scanlan-Hanson, L., Sadosty, A. T., Halasy, M. P., & Hess, E. P. (2012). Effect of a physician assistant as triage liaison provider on patient throughput in an academic emergency department. *Acad Emerg Med*, 19(11), 1235-1241. doi:10.1111/acem.12010
- Nyberg, S. M., Waswick, W., Wynn, T., & Keuter, K. (2007). Midlevel providers in a Level I trauma service: experience at Wesley Medical Center. *J Trauma*, 63(1), 128-134. doi:10.1097/01.ta.0000221765.90190.73
- O'Connor, T. M., & Hooker, R. S. (2007). Extending rural and remote medicine with a new type of health worker: physician assistants. *Aust J Rural Health*, 15(6), 346-351. doi:10.1111/j.1440-1584.2007.00926.x
- Ohman-Strickland, P. A., Orzano, A. J., Hudson, S. V., Solberg, L. I., DiCiccio-Bloom, B., O'Malley, D., & Crabtree, B. F. (2008). Quality of diabetes care in family medicine practices: influence of nurse-practitioners and physician's assistants. *Ann Fam Med*, 6(1), 14-22. doi:10.1370/afm.758
- Ouslander, J. G., Lamb, G., Perloe, M., Givens, J. H., Kluge, L., Rutland, T., & Saliba, D. (2010). Potentially avoidable hospitalizations of nursing home residents: frequency, causes, and costs: [see editorial comments by Drs. Jean F. Wyman and William R. Hazzard, pp 760-761]. *J Am Geriatr Soc*, 58(4), 627-635. doi:10.1111/j.1532-5415.2010.02768.x
- Paniagua, H., & Stewart, A. (2005). Medical care practitioners: introducing a new profession into the UK. *Br J Nurs*, 14(7), 405-408. doi:10.12968/bjon.2005.14.7.17949
- Park, M., Cherry, D., & Decker, S. L. (2011). Nurse practitioners, certified nurse midwives, and physician assistants in physician offices. *NCHS Data Brief*(69), 1-8.

- Pedersen, K. M., Andersen, J. S., & Sondergaard, J. (2012). General practice and primary health care in Denmark. *J Am Board Fam Med*, 25 Suppl 1, S34-38. doi:10.3122/jabfm.2012.02.110216
- Pezzi, C., Leibrandt, T., Suryadevara, S., Heller, J. K., Hurley-Martonik, D., & Kukora, J. S. (2009). The present and future use of physician extenders in general surgery training programs: one response to the 80-hour work week. *J Am Coll Surg*, 208(4), 587-591. doi:10.1016/j.jamcollsurg.2009.01.009
- Phillips, R. L., Jr. (2012). International learning on increasing the value and effectiveness of primary care (I LIVE PC). *J Am Board Fam Med*, 25 Suppl 1, S2-5. doi:10.3122/jabfm.2012.02.120005
- Poghosyan, L., Nannini, A., Stone, P. W., & Smaldone, A. (2013). Nurse practitioner organizational climate in primary care settings: implications for professional practice. *J Prof Nurs*, 29(6), 338-349. doi:10.1016/j.profnurs.2013.07.005
- Reines, H. D., Robinson, L., Duggan, M., O'Brien B, M., & Aulenbach, K. (2006). Integrating midlevel practitioners into a teaching service. *Am J Surg*, 192(1), 119-124. doi:10.1016/j.amjsurg.2006.01.047
- Roblin, D. W., Howard, D. H., Junling, R., & Becker, E. R. (2011). An evaluation of the influence of primary care team functioning on the health of Medicare beneficiaries. *Med Care Res Rev*, 68(2), 177-201. doi:10.1177/1077558710374619
- Rodgers, G. P., Conti, J. B., Feinstein, J. A., Griffin, B. P., Kennett, J. D., Shah, S., & Williams, J. L. (2009). ACC 2009 survey results and recommendations: Addressing the cardiology workforce crisis A report of the ACC board of trustees workforce task force. *J Am Coll Cardiol*, 54(13), 1195-1208. doi:10.1016/j.jacc.2009.08.001
- Rohrer, J. E., Angstman, K. B., Garrison, G. M., Pecina, J. L., & Maxson, J. A. (2013). Nurse practitioners and physician assistants are complements to family medicine physicians. *Popul Health Manag*, 16(4), 242-245. doi:10.1089/pop.2012.0092
- Roland, M., Guthrie, B., & Thome, D. C. (2012). Primary medical care in the United kingdom. *J Am Board Fam Med*, 25 Suppl 1, S6-11. doi:10.3122/jabfm.2012.02.110200
- Russell, J. C., Kaplowe, J., & Heinrich, J. (1999). One hospital's successful 20-year experience with physician assistants in graduate medical education. *Acad Med*, 74(6), 641-645.
- Salsberg, E. S. (2015). Is the Physician Shortage Real? Implications for the Recommendations of the Institute of Medicine Committee on the Governance and Financing of Graduate Medical Education. *Acad Med*, 90(9), 1210-1214. doi:10.1097/ACM.0000000000000837
- Sherwood, K. L., Price, R. R., White, T. W., Stevens, M. H., & Van Boerum, D. H. (2009). A role in trauma care for advanced practice clinicians. *J AAPA*, 22(6), 33-36, 41.
- Shi, L., Lock, D. C., Lee, D. C., Lebrun-Harris, L. A., Chin, M. H., Chidambaran, P., & Sripiwatana, A. (2015). Patient-centered Medical Home capability and clinical performance in HRSA-supported health centers. *Med Care*, 53(5), 389-395. doi:10.1097/MLR.0000000000000331
- Shields, M. C., Patel, P. H., Manning, M., & Sacks, L. (2011). A model for integrating independent physicians into accountable care organizations. *Health Aff (Millwood)*, 30(1), 161-172. doi:10.1377/hlthaff.2010.0824

- Smith, J. S., Tevis, B., & Murali, K. (2005). Commentary from the front lines: American physician assistants working in a United Kingdom emergency department. *Emerg Med J*, 22(5), 322-324. doi:10.1136/emj.2004.021493
- Sommers, A. S., Paradise, J., & Miller, C. (2011). Physician willingness and resources to serve more Medicaid patients: perspectives from primary care physicians. *Medicare Medicaid Res Rev*, 1(2). doi:10.5600/mmrr.001.02.a01
- Stahlfeld, K. R., Robinson, J. M., & Burton, E. C. (2008). What do physician extenders in a general surgery residency really do? *J Surg Educ*, 65(5), 354-358. doi:10.1016/j.jsurg.2008.06.002
- Stange, K. (2014). How does provider supply and regulation influence health care markets? Evidence from nurse practitioners and physician assistants. *J Health Econ*, 33, 1-27. doi:10.1016/j.jhealeco.2013.10.009
- Strumpf, E., Levesque, J. F., Coyle, N., Hutchison, B., Barnes, M., & Wedel, R. J. (2012). Innovative and diverse strategies toward primary health care reform: lessons learned from the Canadian experience. *J Am Board Fam Med*, 25 Suppl 1, S27-33. doi:10.3122/jabfm.2012.02.110215
- Sucov, A., Sidman, R., & Valente, J. (2009). A cost-efficiency analysis to increase clinician staffing in an academic emergency department. *Acad Med*, 84(9), 1211-1216. doi:10.1097/ACM.0b013e3181b187fc
- Troidle, L., & Smith, G. O. (2005). Can physician assistants fill the gaps in the nephrology workforce? *Nephrol News Issues*, 19(4), 65, 67.
- Trybou, J., Gemmel, P., Van Vaerenbergh, Y., & Annemans, L. (2014). Hospital-physician relations: the relative importance of economic, relational and professional attributes to organizational attractiveness. *BMC Health Serv Res*, 14, 232. doi:10.1186/1472-6963-14-232
- van Weel, C., Schers, H., & Timmermans, A. (2012). Health care in the Netherlands. *J Am Board Fam Med*, 25 Suppl 1, S12-17. doi:10.3122/jabfm.2012.02.110212
- Ward, W. T., Eberson, C. P., Otis, S. A., Wallace, C. D., Wellisch, M., Warman, J. R., & Richards, B. S. (2008). Pediatric orthopaedic practice management: the role of midlevel providers. *J Pediatr Orthop*, 28(8), 795-798. doi:10.1097/BPO.0b013e318183249f
- Wilson, J. F. (2008). Primary care delivery changes as nonphysician clinicians gain independence. *Ann Intern Med*, 149(8), 597-600.
- Willard-Grace, R., Hessler, D., Rogers, E., Dube, K., Bodenheimer, T., & Grumbach, K. (2014). Team structure and culture are associated with lower burnout in primary care. *J Am Board Fam Med*, 27(2), 229-238. doi:10.3122/jabfm.2014.02.130215

# PAs

Alamiri, N. N., Maliska, C. M., 3rd, Chancellor-McIntosh, H., & Sclabas, G. (2017). Comparing Surgical Clerkship Performance of Medical and Physician Assistant Students. *J Surg Educ.* doi:10.1016/j.jsurg.2016.11.006

Ackermann, R. J., & Kemle, K. A. (1998). The effect of a physician assistant on the hospitalization of nursing home residents. *J Am Geriatr Soc, 46*(5), 610-614.

Adamson, T. E. (1971). Critical issues in the use of physician associates and assistants. *Am J Public Health, 61*(9), 1765-1779.

Agarwal, A., Zhang, W., Kuo, Y., & Sharma, G. (2016). Process and Outcome Measures among COPD Patients with a Hospitalization Cared for by an Advance Practice Provider or Primary Care Physician. *PLoS One, 11*(2), e0148522. doi:10.1371/journal.pone.0148522

Allen, S. M., Ballweg, R. A., Cosgrove, E. M., Engle, K. A., Robinson, L. R., Rosenblatt, R. A., & Wenrich, M. D. (2013). Challenges and opportunities in building a sustainable rural primary care workforce in alignment with the Affordable Care Act: the WWAMI program as a case study. *Acad Med, 88*(12), 1862-1869. doi:10.1097/ACM.0000000000000008

Armitage, M., & Shepherd, S. (2005). A new professional in the healthcare workforce: role, training, assessment and regulation. *Clin Med (Lond), 5*(4), 311-314.

Atwater, A., Bednar, S., Hassman, D., & Khouri, J. (2008). Nurse practitioners and physician assistants in primary care. *Dis Mon, 54*(11), 728-744. doi:10.1016/j.dismonth.2008.08.002

Auerbach, D. I., Chen, P. G., Friedberg, M. W., Reid, R., Lau, C., Buerhaus, P. I., & Mehrotra, A. (2013). Nurse-managed health centers and patient-centered medical homes could mitigate expected primary care physician shortage. *Health Aff (Millwood), 32*(11), 1933-1941. doi:10.1377/hlthaff.2013.0596

Baker, S. R., & Merkulov, A. (2005). The radiology assistant: a contrarian's view. *Emerg Radiol, 11*(4), 187-192. doi:10.1007/s10140-005-0400-9

Benson, M. A., Peterson, T., Salazar, L., Morris, W., Hall, R., Howlett, B., & Phelps, P. (2016). Burnout in Rural Physician Assistants: An Initial Study. *J Physician Assist Educ, 27*(2), 81-83. doi:10.1097/JPA.0000000000000069

Bloemhoff, A., Schoonhoven, L., de Greek, A. J., van Grunsven, P. M., Laurant, M. G., & Berben, S. A. (2016). Solo emergency care by a physician assistant versus an ambulance nurse: a cross-sectional document study. *Scand J Trauma Resusc Emerg Med, 24*, 86. doi:10.1186/s13049-016-0279-3

Brock, D. M., Nicholson, J. G., & Hooker, R. S. (2016). Physician Assistant and Nurse Practitioner Malpractice Trends. *Med Care Res Rev.* doi:10.1177/1077558716659022

Brook, C., Chomut, A., & Jeanmonod, R. K. (2012). Physician assistants contribution to emergency department productivity. *West J Emerg Med, 13*(2), 181-185. doi:10.5811/westjem.2011.6.6746

Brown, G. R., Hale, L. S., Britz, M. C., Schrader, M. J., Sholtz, S. L., & Unruh, M. J. (2015). A Survey of Kansas Physicians' Perceptions of Physician Assistant Education and Qualifications. *Kansas Journal of Medicine, 8*(1), 8.

- Buch, K. E., Genovese, M. Y., Conigliaro, J. L., Nguyen, S. Q., Byrn, J. C., Novembre, C. L., & Divino, C. M. (2008). Non-physician practitioners' overall enhancement to a surgical resident's experience. *J Surg Educ*, 65(1), 50-53. doi:10.1016/j.jsurg.2007.07.002
- Carpenter, D. (2006). Perspectives on the physician assistant specialty credentialing debate. Education, not certification. *JAAPA*, 19(8), 16, 19-20.
- Cawley, J., Rohrs, R., & Hooker, R. S. (1998). PHYSICIAN ASSISTANTS AND MALPRACTICE RISK: FINDINGS FROM THE NATIONAL PRACTITIONER DATA BANK. *Federation Bulletin*, 85(4), 242-247.
- Cawley, J. F., & Bush, E. (2015). Levels of supervision among practicing physician assistants. *JAAPA*, 28(1), 61-62. doi:10.1097/01.JAA.0000458869.93806.0d
- Cawley, J. F. (2008). Physician assistants and Title VII support. *Acad Med*, 83(11), 1049-1056. doi:10.1097/ACM.0b013e3181890533
- Chaney, A. J., Harnois, D. M., Musto, K. R., & Nguyen, J. H. (2016). Role Development of Nurse Practitioners and Physician Assistants in Liver Transplantation. *Prog Transplant*, 26(1), 75-81. doi:10.1177/1526924816632116
- Cipher, D. J., Hooker, R. S., & Sekscenski, E. (2006). Are older patients satisfied with physician assistants and nurse practitioners? *JAAPA*, 19(1), 36, 39-40, 42-34.
- Colby, J. (2011). *A Profile of Colorado's Physician Assistant Workforce*. Retrieved from [http://www.coloradohealthinstitute.org/sites/default/files/file\\_attachments/Profile\\_of\\_Colorados\\_Physician\\_Assistant\\_Workforce\\_0.pdf](http://www.coloradohealthinstitute.org/sites/default/files/file_attachments/Profile_of_Colorados_Physician_Assistant_Workforce_0.pdf)
- Cooper, R. A. (2007). New directions for nurse practitioners and physician assistants in the era of physician shortages. *Acad Med*, 82(9), 827-828. doi:10.1097/ACM.0b013e31812f7939
- Coplan, B., Cawley, J., & Stoehr, J. (2013). Physician assistants in primary care: trends and characteristics. *Ann Fam Med*, 11(1), 75-79. doi:10.1370/afm.1432
- Coulter, I., Jacobson, P., & Parker, L. E. (2000). Sharing the mantle of primary female care: physicians, nurse practitioners, and physician assistants. *J Am Med Womens Assoc*, 55(2), 100-103.
- Counselman, F. L., Graffeo, C. A., & Hill, J. T. (2000). Patient satisfaction with physician assistants (PAs) in an ED fast track. *Am J Emerg Med*, 18(6), 661-665. doi:10.1053/ajem.2000.16301
- Cramer, C. L., Orlowski, J. P., & DeNicola, L. K. (2008). Pediatric intensivist extenders in the pediatric ICU. *Pediatr Clin North Am*, 55(3), 687-708, xi-xii. doi:10.1016/j.pcl.2008.02.007
- Curren, J. (2007). Nurse practitioners and physician assistants: do you know the difference. *Medsurg Nursing*, 16(6), 404-407.
- Dacey, M. J., Mirza, E. R., Wilcox, V., Doherty, M., Mello, J., Boyer, A., & Baute, R. (2007). The effect of a rapid response team on major clinical outcome measures in a community hospital. *Crit Care Med*, 35(9), 2076-2082.
- DeMots, H., Coombs, B., Murphy, E., & Palac, R. (1987). Coronary arteriography performed by a physician assistant. *Am J Cardiol*, 60(10), 784-787.

- DeNicola, L., Kleid, D., Brink, L., van Stralen, D., Scott, M., Gerbert, D., & Brennan, L. (1994). Use of pediatric physician extenders in pediatric and neonatal intensive care units. *Crit Care Med*, 22(11), 1856-1864.
- Dhuper, S., & Choksi, S. (2009). Replacing an academic internal medicine residency program with a physician assistant--hospitalist model: a comparative analysis study. *Am J Med Qual*, 24(2), 132-139. doi:10.1177/1062860608329646
- Dorn, S. D. (2010). Mid-level providers in gastroenterology. *Am J Gastroenterol*, 105(2), 246-251. doi:10.1038/ajg.2009.275
- Drennan, V. M., Gabe, J., Halter, M., de Lusignan, S., & Levenson, R. (2017). Physician associates in primary health care in England: A challenge to professional boundaries? *Soc Sci Med*, 181, 9-16. doi:10.1016/j.socscimed.2017.03.045
- Dubaybo, B. A., Samson, M. K., & Carlson, R. W. (1991). The role of physician-assistants in critical care units. *Chest*, 99(1), 89-91. doi:10.1378/chest.99.1.89
- Ekwo, E., Daniels, M., Oliver, D., & Fethke, C. (1979). The physician assistant in rural primary care practices: physician assistant activities and physician supervision at satellite and non-satellite practice sites. *Med Care*, 17(8), 787-795.
- Ellis, M., & Krol, E. (2005). A case study on the use of physician assistants in college health. *Pediatr Clin North Am*, 52(1), 1-8, vii. doi:10.1016/j.pcl.2004.10.001
- Estes, E. H., Jr., & Carter, R. D. (2005). Accommodating a new medical profession: the history of physician assistant regulatory legislation in North Carolina. *N C Med J*, 66(2), 103-107.
- Evans, T. C., Wick, K. H., Brock, D. M., Schaad, D. C., & Ballweg, R. (2006). Academic degrees and clinical practice characteristics: the University of Washington physician assistant program: 1969-2000. *J Rural Health*, 22(3), 212-219. doi:10.1111/j.1748-0361.2006.00034.x
- Everett, C. M., Schumacher, J. R., Wright, A., & Smith, M. A. (2009). Physician assistants and nurse practitioners as a usual source of care. *J Rural Health*, 25(4), 407-414. doi:10.1111/j.1748-0361.2009.00252.x
- Eyal, N., Cancedda, C., Kyamanywa, P., & Hurst, S. A. (2015). Non-physician Clinicians in Sub-Saharan Africa and the Evolving Role of Physicians. *Int J Health Policy Manag*, 5(3), 149-153. doi:10.15171/ijhpm.2015.215
- Fowkes, V., Cawley, J. F., Herlihy, N., & Cuadrado, R. R. (1996). Evaluating the potential of international medical graduates as physician assistants in primary care. *Acad Med*, 71(8), 886-892.
- Freeborn, D. K., & Hooker, R. S. (1995). Satisfaction of physician assistants and other nonphysician providers in a managed care setting. *Public Health Rep*, 110(6), 714-719.
- Gershengorn, H. B., Wunsch, H., Wahab, R., Leaf, D. E., Brodie, D., Li, G., & Factor, P. (2011). Impact of nonphysician staffing on outcomes in a medical ICU. *Chest*, 139(6), 1347-1353. doi:10.1378/chest.10-2648
- Ginde, A. A., Espinola, J. A., Sullivan, A. F., Blum, F. C., & Camargo, C. A., Jr. (2010). Use of midlevel providers in US EDs, 1993 to 2005: implications for the workforce. *Am J Emerg Med*, 28(1), 90-94. doi:10.1016/j.ajem.2008.09.028

- Glicken, A. D. (2008). Excellence in physician assistant training through faculty development. *Acad Med*, 83(11), 1107-1110. doi:10.1097/ACM.0b013e3181890aa0
- Glicken, A. D., & Miller, A. A. (2013). Physician assistants: from pipeline to practice. *Acad Med*, 88(12), 1883-1889. doi:10.1097/ACM.0000000000000009
- Glotzbecker, B. E., Yolin-Raley, D. S., DeAngelo, D. J., Stone, R. M., Soiffer, R. J., & Alyea, E. P., 3rd. (2013). Impact of physician assistants on the outcomes of patients with acute myelogenous leukemia receiving chemotherapy in an academic medical center. *J Oncol Pract*, 9(5), e228-233. doi:10.1200/JOP.2012.000841
- Goldberg, D. J. (2005). Laser physician legal responsibility for physician extender treatments. *Lasers Surg Med*, 37(2), 105-107. doi:10.1002/lsm.20215
- Goldstein, N. (2005). Look what's next in telemedicine: the physician assistant and telemedicine. *Hawaii Med J*, 64(5), 116.
- Grabenkort, W. R., Meissen, H. H., Gregg, S. R., & Coopersmith, C. M. (2017). Acute Care Nurse Practitioners and Physician Assistants in Critical Care: Transforming Education and Practice. *Crit Care Med*, 45(7), 1111-1114. doi:10.1097/CCM.0000000000002536
- Graeff, E. C., Leafman, J. S., Wallace, L., & Stewart, G. (2014). Job satisfaction levels of physician assistant faculty in the United States. *J Physician Assist Educ*, 25(2), 15-20.
- Green, L. V., Savin, S., & Lu, Y. (2013). Primary care physician shortages could be eliminated through use of teams, nonphysicians, and electronic communication. *Health Aff (Millwood)*, 32(1), 11-19. doi:10.1377/hlthaff.2012.1086
- Grzybicki, D. M., Sullivan, P. J., Oppy, J. M., Bethke, A. M., & Raab, S. S. (2002). The economic benefit for family/general medicine practices employing physician assistants. *Am J Manag Care*, 8(7), 613-620.
- Gujral, H., Visconti, C., & Collantes, R. (2004). The role of physician extenders in managing patients with chronic hepatitis C. *Cleve Clin J Med*, 71 Suppl 3, S33-37.
- Halter, M., Drennan, V. M., Joly, L. M., Gabe, J., Gage, H., & de Lusignan, S. (2017). Patients' experiences of consultations with physician associates in primary care in England: A qualitative study. *Health Expect*. doi:10.1111/hex.12542
- Hammon, M., & Hammon, W. E. (2005). Properly billing for "incident to" clinical services/treatments provided by auxiliary staff. *J Okla State Med Assoc*, 98(4), 159-160.
- Hass, V. (2016). Physician assistants and nurse practitioners are not interchangeable. *JAAPA*, 29(4), 9-12. doi:10.1097/01.JAA.0000481408.81044.4e
- Hedges, J. R. (2005). Physician extenders in the emergency department. *Emerg Med J*, 22(5), 314-315. doi:10.1136/emj.2004.022996
- Henry, L. R., & Hooker, R. S. (2014). Caring for the disadvantaged: the role of physician assistants. *JAAPA*, 27(1), 36-42. doi:10.1097/01.JAA.0000438532.92138.53
- Hing, E., Hooker, R. S., & Ashman, J. J. (2011). Primary health care in community health centers and comparison with office-based practice. *J Community Health*, 36(3), 406-413. doi:10.1007/s10900-010-9322-x

- Holt, N. (1998). "Confusion's masterpiece": the development of the physician assistant profession. *Bull Hist Med*, 72(2), 246-278.
- Hong, K., Georgiades, C. S., Hebert, J., Wahlin, T., Mitchell, S. E., & Geschwind, J. F. (2006). Incorporating physician assistants and physician extenders in the contemporary interventional oncology practice. *Tech Vasc Interv Radiol*, 9(3), 96-100. doi:10.1053/j.tvir.2007.02.005
- Hooker, R. S., Potts, R., & Ray, W. (1997). Patient Satisfaction: Comparing Physician Assistants, Nurse Practitioners, and Physicians. *The Permanente Journal*, 1(1), 38-42.
- Hooker, R. S. (2002). A cost analysis of physician assistants in primary care. *JAAPA*, 15(11), 39-42, 45, 48.
- Hooker, R. S. (2008). The extension of rheumatology services with physician assistants and nurse practitioners. *Best Pract Res Clin Rheumatol*, 22(3), 523-533. doi:10.1016/j.berh.2007.12.006
- Hooker, R. S. (2008). Federally employed physician assistants. *Mil Med*, 173(9), 895-899.
- Hooker, R. S., Cawley, J. F., & Leinweber, W. (2010). Career flexibility of physician assistants and the potential for more primary care. *Health Aff (Millwood)*, 29(5), 880-886. doi:10.1377/hlthaff.2009.0884
- Hooker, R. S., Kuilman, L., & Everett, C. M. (2015). Physician Assistant Job Satisfaction: A Narrative Review of Empirical Research. *J Physician Assist Educ*, 26(4), 176-186. doi:10.1097/JPA.0000000000000047
- Huang, B. J. (2016). How NPs and PAs Work with HM Groups. *The Hospitalist*. Retrieved from <http://www.the-hospitalist.org/article/nps-pas-work-hm-groups/>
- Hughes, N. (2005). Should you add a PA or an NP to your practice? *J Med Pract Manage*, 20(4), 203-206.
- Intrator, O., Feng, Z., Mor, V., Gifford, D., Bourbonniere, M., & Zinn, J. (2005). The employment of nurse practitioners and physician assistants in U.S. nursing homes. *Gerontologist*, 45(4), 486-495.
- Jecker, N. S. (2010). The ethics of substituting physician assistants, nurse practitioners, and residents for attending physicians. *Am J Bioeth*, 10(8), 11-13. doi:10.1080/15265161.2010.494459
- Johal, J., & Dodd, A. (2017). Physician extenders on surgical services: a systematic review. *Can J Surg*, 60(2), 1516. doi:10.1503/cjs.001516
- Jones, P. E., & Cawley, J. F. (2009). Workweek restrictions and specialty-trained physician assistants: potential opportunities. *J Surg Educ*, 66(3), 152-157. doi:10.1016/j.jsurg.2009.03.033
- Jones, P. E., & Hooker, R. S. (2001). Physician assistants in Texas. *Tex Med*, 97(1), 68-73.
- Kartha, A., Restuccia, J. D., Burgess, J. F., Jr., Benzer, J., Glasgow, J., Hockenberry, J., Kaboli, P. J. (2014). Nurse practitioner and physician assistant scope of practice in 118 acute care hospitals. *J Hosp Med*, 9(10), 615-620. doi:10.1002/jhm.2231
- Kulkarni, N., & Cardin, T. (2014). Hospital medicine workforce: the impact of nurse practitioner and physician assistant providers. *J Hosp Med*, 9(10), 678-679. doi:10.1002/jhm.2254

- Lau, D. T., McCaig, L. F., & Hing, E. (2016). Toward a More Complete Picture of Outpatient, Office-Based Health Care in the U.S. *Am J Prev Med*. doi:10.1016/j.amepre.2016.02.028
- Larson, E. H., Andrilla, H. A., Coulthard, C., & Spetz, J. (2016). How Could Nurse Practitioners and Physician Assistants Be Deployed to Provide Rural Primary Care? *Rural Health Research Gateway*.
- Larson, E. H., & Hart, L. G. (2007). Growth and change in the physician assistant workforce in the United States, 1967-2000. *J Allied Health*, 36(3), 121-130.
- Larson, E. H., Hart, L. G., & Ballweg, R. (2001). National estimates of physician assistant productivity. *J Allied Health*, 30(3), 146-152.
- Legler, C. F., Cawley, J. F., & Fenn, W. H. (2007). Physician assistants: education, practice and global interest. *Med Teach*, 29(1), e22-25. doi:10.1080/01421590601034696
- Levy, C., Palat, S. I., & Kramer, A. M. (2007). Physician practice patterns in nursing homes. *J Am Med Dir Assoc*, 8(9), 558-567. doi:10.1016/j.jamda.2007.06.015
- Lieberman, D., & Lalwani, A. (1994). Physician-only and physician assistant statutes: a case of perceived but unfounded conflict. *J Am Med Womens Assoc*, 49(5), 146-149.
- Liu, C. M., Chien, C. W., Chou, P., Liu, J. H., Chen, V. T., Wei, J., & Lang, H. C. (2005). An analysis of job satisfaction among physician assistants in Taiwan. *Health Policy*, 73(1), 66-77. doi:10.1016/j.healthpol.2004.10.004
- Liu, H., Robbins, M., Mehrotra, A., Auerbach, D., Robinson, B. E., Cromwell, L. F., & Roblin, D. W. (2016). The Impact of Using Mid-level Providers in Face-to-Face Primary Care on Health Care Utilization. *MedCare*. doi:10.1097/MLR.0000000000000590
- Mathur, M., Rampersad, A., Howard, K., & Goldman, G. M. (2005). Physician assistants as physician extenders in the pediatric intensive care unit setting-A 5-year experience. *Pediatr Crit Care Med*, 6(1), 14-19. doi:10.1097/01.PCC.0000149133.50687.A1
- McDaniel, M. J., Hildebrandt, C. A., & Russell, G. B. (2016). Central Application Service for Physician Assistants Ten-Year Data Report, 2002 to 2011. *J Physician Assist Educ*, 27(1), 17-23. doi:10.1097/JPA.0000000000000063
- McLaughlin, R. J., Fasser, C. E., Spence, L. R., & Holcomb, J. D. (2010). Development and implementation of a health behavioral counseling curriculum for physician assistant cancer education. *J Cancer Educ*, 25(1), 9-15. doi:10.1007/s13187-010-0038-5
- McLean, T. R. (2002). Crossing the quality chasm: autonomous physician extenders will necessitate a shift to enterprise liability coverage for health care delivery. *Health Matrix Clevel*, 12(2), 239-295.
- McLeod, N., & Montane, G. (2010). The radiologist assistant: the solution to radiology workforce needs. *Emerg Radiol*, 17(3), 253-256. doi:10.1007/s10140-006-0505-9
- Menchine, M. D., Wiechmann, W., & Rudkin, S. (2009). Trends in midlevel provider utilization in emergency departments from 1997 to 2006. *Acad Emerg Med*, 16(10), 963-969. doi:10.1111/j.1553-2712.2009.00521.x

Mendenhall, R. C., Repicky, P. A., & Neville, R. E. (1980). Assessing the Utilization and Productivity of Nurse Practitioners and Physician's Assistants: Methodology and Findings on Productivity. *Medical Care, 18*(6), 609-623.

Mikhail, J., Millerz, W., & Wagner, J. (2009). Midlevel practitioner role evolution in an American College of Surgeons-verified trauma surgery service: the 23-year experience at Hurley Medical Center. *J Trauma Nurs, 16*(1), 33-40. doi:10.1097/01.JTN.0000348068.63970.dc

Miller, W., Riehl, E., Napier, M., Barber, K., & Dabideen, H. (1998). Use of physician assistants as surgery/trauma house staff at an American College of Surgeons-verified Level II trauma center. *J Trauma, 44*(2), 372-376.

Moote, M., Krsek, C., Kleinpell, R., & Todd, B. (2011). Physician assistant and nurse practitioner utilization in academic medical centers. *Am J Med Qual, 26*(6), 452-460. doi:10.1177/1062860611402984

Morgan, P., Everett, C. M., & Hing, E. (2014). Time spent with patients by physicians, nurse practitioners, and physician assistants in community health centers, 2006-2010. *Healthc (Amst), 2*(4), 232-237. doi:10.1016/j.hjdsi.2014.09.009

Morgan, P., Everett, C. M., Smith, V. A., Woolson, S., Edelman, D., Hendrix, C. C., Jackson, G. L. (2017). Factors Associated With Having a Physician, Nurse Practitioner, or Physician Assistant as Primary Care Provider for Veterans With Diabetes Mellitus. *Inquiry, 54*, 46958017712762. doi:10.1177/0046958017712762

Morgan, P., Himmerick, K. A., Leach, B., Dieter, P., & Everett, C. (2016). Scarcity of Primary Care Positions May Divert Physician Assistants Into Specialty Practice. *Med Care Res Rev*. doi:10.1177/1077558715627555

Morgan, P. A., & Hooker, R. S. (2010). Choice of specialties among physician assistants in the United States. *Health Aff (Millwood), 29*(5), 887-892. doi:10.1377/hlthaff.2008.0835

Morgan, P. A., Shah, N. D., Kaufman, J. S., & Albanese, M. A. (2008). Impact of physician assistant care on office visit resource use in the United States. *Health Serv Res, 43*(5 Pt 2), 1906-1922. doi:10.1111/j.1475-6773.2008.00874.x

Morgan, P. A., Strand, J., Ostbye, T., & Albanese, M. A. (2007). Missing in action: care by physician assistants and nurse practitioners in national health surveys. *Health Serv Res, 42*(5), 2022-2037. doi:10.1111/j.1475-6773.2007.00700.x

Morgan, P., Everett, C. M., Humeniuk, K. M., & Valentin, V. L. (2016). Physician assistant specialty choice: Distribution, salaries, and comparison with physicians. *JAAPA, 29*(7), 46-52. doi:10.1097/01.JAA.0000484301.35696.16

Moses, R. E., & Feld, A. D. (2007). Physician liability for medical errors of nonphysician clinicians: nurse practitioners and physician assistants. *Am J Gastroenterol, 102*(1), 6-9. doi:10.1111/j.1572-0241.2006.00804.x

Nelson, S. C., & Hooker, R. S. (2016). Physician Assistants and Nurse Practitioners in Rural Washington Emergency Departments. *J Physician Assist Educ, 27*(2), 56-62. doi:10.1097/JPA.0000000000000074

Nestler, D. M., Fratzke, A. R., Church, C. J., Scanlan-Hanson, L., Sadosty, A. T., Halasy, M. P., & Hess, E. P. (2012). Effect of a physician assistant as triage liaison provider on patient throughput in an

academic emergency department. *Acad Emerg Med*, 19(11), 1235-1241.  
doi:10.1111/acem.12010

Nicoletti, B. (2006). How to bill for services performed by nonphysician practitioners. *Fam Pract Manag*, 13(5), 45-46, 48.

Nyberg, S. M., Keuter, K. R., Berg, G. M., Helton, A. M., & Johnston, A. D. (2010). Acceptance of physician assistants and nurse practitioners in trauma centers. *JAAPA*, 23(1), 35-37, 41.

Nyberg, S. M., Waswick, W., Wynn, T., & Keuter, K. (2007). Midlevel providers in a Level I trauma service: experience at Wesley Medical Center. *J Trauma*, 63(1), 128-134.  
doi:10.1097/01.ta.0000221765.90190.73

O'Connor, T. M., & Hooker, R. S. (2007). Extending rural and remote medicine with a new type of health worker: physician assistants. *Aust J Rural Health*, 15(6), 346-351. doi:10.1111/j.1440-1584.2007.00926.x

Ogunfiditimi, F., Takis, L., Paige, V. J., Wyman, J. F., & Marlow, E. (2013). Assessing the productivity of advanced practice providers using a time and motion study. *J Healthc Manag*, 58(3), 173-185; discussion 185-176.

Ohman-Strickland, P. A., Orzano, A. J., Hudson, S. V., Solberg, L. I., DiCiccio-Bloom, B., O'Malley, D., & Crabtree, B. F. (2008). Quality of diabetes care in family medicine practices: influence of nurse-practitioners and physician's assistants. *Ann Fam Med*, 6(1), 14-22.  
doi:10.1370/afm.758

Oswanski, M. F., Sharma, O. P., & Raj, S. S. (2004). Comparative review of use of physician assistants in a level I trauma center. *Am Surg*, 70(3), 272-279.

Paniagua, H., & Stewart, A. (2005). Medical care practitioners: introducing a new profession into the UK. *Br J Nurs*, 14(7), 405-408. doi:10.12968/bjon.2005.14.7.17949

Park, M., Cherry, D., & Decker, S. L. (2011). Nurse practitioners, certified nurse midwives, and physician assistants in physician offices. *NCHS Data Brief*(69), 1-8.

Pavlik, D., Sacchetti, A., Seymour, A., & Blass, B. (2016). Physician Assistant Management of Pediatric Patients in a General Community Emergency Department: A Real World Analysis. *Pediatr Emerg Care*. doi:10.1097/PEC.0000000000000949

Pedersen, D. M., Chappell, B., Elison, G., & Bunnell, R. (2008). The productivity of PAs, APRNs, and physicians in Utah. *JAAPA*, 21(1), 42-44, 47.

Perry, J. J. (2009). The Rise and Impact of Nurse Practitioners and Physician Assistants on Their Own and Cross-Occupation Incomes. *Contemporary Economic Policy*, 27(4), 491-511.  
doi:10.1111/j.1465-7287.2009.00162.x

Pezzi, C., Leibrandt, T., Suryadevara, S., Heller, J. K., Hurley-Martonik, D., & Kukora, J. S. (2009). The present and future use of physician extenders in general surgery training programs: one response to the 80-hour work week. *J Am Coll Surg*, 208(4), 587-591.  
doi:10.1016/j.jamcollsurg.2009.01.009

Queen, K. T. (2007). Use of nurse practitioners and physician extenders in rheumatology: a western North Carolina perspective. *N C Med J*, 68(6), 457-458.

Ray, K. N., Martsoff, G. R., Mehrotra, A., & Barnett, M. L. (2017). Trends in Visits to SpecialistPhysicians

Involving Nurse Practitioners and Physician Assistants, 2001 to 2013. Retrieved from <http://jamanetwork.com/pdfaccess.ashx?url=/data/journals/intemed/0/>

Record, J. C., McCally, M., Schweitzer, S. O., Blomquist, R. M., & Berger, B. D. (1980). New health professions after a decade and a half: delegation, productivity and costs in primary care. *J Health Polit Policy Law*, 5(3), 470-497.

Reines, H. D., Robinson, L., Duggan, M., O'Brien B, M., & Aulenbach, K. (2006). Integrating midlevel practitioners into a teaching service. *Am J Surg*, 192(1), 119-124.  
doi:10.1016/j.amjsurg.2006.01.047

Resnick, A. S., Todd, B. A., Mullen, J. L., & Morris, J. B. (2006). How do surgical residents and non-physician practitioners play together in the sandbox? *Curr Surg*, 63(2), 155-164.  
doi:10.1016/j.cursur.2005.12.009

Reynolds, E. W., & Bricker, J. T. (2007). Nonphysician clinicians in the neonatal intensive care unit: meeting the needs of our smallest patients. *Pediatrics*, 119(2), 361-369.  
doi:10.1542/peds.2006-1084

Rosenberg, S. M., Rosenthal, D. A., Rajan, D. K., Millward, S. F., Baum, R. A., & Silberzweig, J. E. (2008). Position statement: the role of physician assistants in interventional radiology. *J Vasc Interv Radiol*, 19(12), 1685-1689. doi:10.1016/j.jvir.2008.09.004

Ross, N., & Parle, J. (2008). Physician assistants: a UK perspective on clinical need, education and regulation. *The Clinical Teacher*, 5(1). doi:10.1111/j.1743-498X.2007.00181.x

Rubenstein, E. B., Fender, A., Rolston, K. V., Elting, L. S., Prasco, P., Palmer, J., & et al. (1995). Vascular access by physician assistants: evaluation of an implantable peripheral port system in cancer patients. *J Clin Oncol*, 13(6), 1513-1519.

Rudy, E. B., Davidson, L. J., Daly, B., Clochesy, J. M., Sereika, S., Baldisseri, M., & Ryan, C. (1998). Care activities and outcomes of patients cared for by acute care nurse practitioners, physician assistants, and resident physicians: a comparison. *Am J Crit Care*, 7(4), 267-281.

Russell, J. C., Kaplowe, J., & Heinrich, J. (1999). One hospital's successful 20-year experience with physician assistants in graduate medical education. *Acad Med*, 74(6), 641-645.

Salibian, A. A., Mahboubi, H., Patel, M. S., Kuan, E. C., Malinoski, D. J., Vagefi, P. A., & Djalilian, H. R. (2016). The National Ambulatory Medical Care Survey: PAs and NPs in outpatient surgery. *JAAPA*, 29(5), 47-53. doi:10.1097/01.JAA.0000482302.40692.20

Salsberg, E., & Quigley, L. (2016). Are we facing a physician assistant surplus? *JAAPA*, 29(11), 40-44.  
doi:10.1097/01.JAA.0000502865.59093.ef

Salsberg, E. S. (2015). Is the Physician Shortage Real? Implications for the Recommendations of the Institute of Medicine Committee on the Governance and Financing of Graduate Medical Education. *Acad Med*, 90(9), 1210-1214. doi:10.1097/ACM.0000000000000837

Sargent, M., Hooker, R. S., & Cooper, R. A. (2011). Gaps in the supply of physicians, advance practice nurses, and physician assistants. *J Am Coll Surg*, 212(6), 991-999.  
doi:10.1016/j.jamcollsurg.2011.03.005

- Sekscenski, E. S., Sansom, S., Bazell, C., Salmon, M. E., & Mullan, F. (1994). State practice environments and the supply of physician assistants, nurse practitioners, and certified nurse-midwives. *N Engl J Med*, 331(19), 1266-1271. doi:10.1056/NEJM19941103311905
- Shaheen, N. J., Crosby, M. A., O'Malley, M. S., Murray, S. C., Sandler, R. S., Galanko, J. A., & Klenzak, J. S. (2000). The practices and attitudes of primary care nurse practitioners and physician assistants with respect to colorectal cancer screening. *Am J Gastroenterol*, 95(11), 3259-3265. doi:10.1111/j.1572-0241.2000.03262.x
- Sherwood, K. L., Price, R. R., White, T. W., Stevens, M. H., & Van Boerum, D. H. (2009). A role in trauma care for advanced practice clinicians. *J AAPA*, 22(6), 33-36, 41.
- Simmons, H. J., 3rd, & Rapoport, D. H. (2007). How will physician extenders affect our need for physicians? *Health Care Strateg Manage*, 25(11), 4-5.
- Singh, S., Fletcher, K. E., Schapira, M. M., Conti, M., Tarima, S., Biblo, L. A., & Whittle, J. (2011). A comparison of outcomes of general medical inpatient care provided by a hospitalist-physician assistant model vs a traditional resident-based model. *J Hosp Med*, 6(3), 122-130. doi:10.1002/jhm.826
- Smith, D. T., & Jacobson, C. K. (2016). Racial and Gender Disparities in the Physician Assistant Profession. *Health Serv Res*, 51(3), 892-909. doi:10.1111/1475-6773.12358
- Smith, J. S., Tevis, B., & Murali, K. (2005). Commentary from the front lines: American physician assistants working in a United Kingdom emergency department. *Emerg Med J*, 22(5), 322-324. doi:10.1136/EMJ.2004.021493
- Solomon, D. H., Fraenkel, L., Lu, B., Brown, E., Tsao, P., Losina, E., & Bitton, A. (2015). Comparison of Care Provided in Practices With Nurse Practitioners and Physician Assistants Versus Subspecialist Physicians Only: A Cohort Study of Rheumatoid Arthritis. *Arthritis Care Res (Hoboken)*, 67(12), 1664-1670. doi:10.1002/acr.22643
- Spence, L. R., Fasser, C. E., McLaughlin, R. J., & Holcomb, J. D. (2010). Self-assessment of cancer competencies and physician assistant cancer education: instrument development and baseline testing. *J Physician Assist Educ*, 21(3), 4-12.
- Stahlfeld, K. R., Robinson, J. M., & Burton, E. C. (2008). What do physician extenders in a general surgery residency really do? *J Surg Educ*, 65(5), 354-358. doi:10.1016/j.jsurg.2008.06.002
- Stange, K. (2014). How does provider supply and regulation influence health care markets? Evidence from nurse practitioners and physician assistants. *J Health Econ*, 33, 1-27. doi:10.1016/j.jhealeco.2013.10.009
- Stewart, A., & Catanzaro, R. (2005). Can physician assistants be effective in the UK? *Clin Med (Lond)*, 5(4), 344-348.
- Strickland, G. (2005). Physician extenders: Which one is right for you? *Applied Radiology: The Journal of Practical Medical Imaging and Management*. Retrieved from <http://appliepdradiology.com/articles/physician-extenders-which-one-is-right-for-you>

Sucov, A., Sidman, R., & Valente, J. (2009). A cost-efficiency analysis to increase clinician staffing in an academic emergency department. *Acad Med*, 84(9), 1211-1216. doi:10.1097/ACM.0b013e3181b187fc

Sutton, J., Ramos, C., & Lucado, J. (2010). US physician assistant (PA) supply by state and county in 2009. *JAAPA*, 23(9), E5-E8.

Talley, A., Ritzdorf, K., & Muma, R. D. (2010). Attitudes of US physician assistants toward persons with HIV/AIDS. *JAAPA*, 23(12), 41-42, 44-46, 48.

Thourani, V. H., & Miller, J. I., Jr. (2006). Physicians assistants in cardiothoracic surgery: a 30-year experience in a university center. *Ann Thorac Surg*, 81(1), 195-199; discussion 199-200. doi:10.1016/j.athoracsur.2005.07.031

Timmermans, M. J., van Vught, A. J., Van den Berg, M., Ponfoort, E. D., Riemens, F., van Unen, J., Laurant, M. G. (2016). Physician assistants in medical ward care: a descriptive study of the situation in the Netherlands. *J Eval Clin Pract*, 22(3), 395-402. doi:10.1111/jep.12499

Timmermans, M. J. C., van den Brink, G. T., van Vught, A., Adang, E., van Berlo, C. L. H., Boxtel, K. V., Laurant, M. G. H. (2017). The involvement of physician assistants in inpatient care in hospitals in the Netherlands: a cost-effectiveness analysis. *BMJ Open*, 7(7), e016405. doi:10.1136/bmjopen-2017-016405

Troidle, L., & Smith, G. O. (2005). Can physician assistants fill the gaps in the nephrology workforce? *Nephrol News Issues*, 19(4), 65, 67.

van der Biezen, M., Derckx, E., Wensing, M., & Laurant, M. (2017). Factors influencing decision of general practitioners and managers to train and employ a nurse practitioner or physician assistant in primary care: a qualitative study. *BMC Fam Pract*, 18(1), 16. doi:10.1186/s12875-017-0587-3

Victorino, G. P., & Organ, C. H., Jr. (2003). Physician assistant influence on surgery residents. *Arch Surg*, 138(9), 971-975; discussion 975-976. doi:10.1001/archsurg.138.9.971

Waddimba, A. C., Scribani, M., Krupa, N., May, J. J., & Jenkins, P. (2016). Frequency of satisfaction and dissatisfaction with practice among rural-based, group-employed physicians and non-physician practitioners. *BMC Health Serv Res*, 16(1), 613. doi:10.1186/s12913-016-1777-8

Ward, W. T., Eberson, C. P., Otis, S. A., Wallace, C. D., Wellisch, M., Warman, J. R., & Richards, B. S. (2008). Pediatric orthopaedic practice management: the role of midlevel providers. *J Pediatr Orthop*, 28(8), 795-798. doi:10.1097/BPO.0b013e318183249f

Weitz, T., Anderson, P., & Taylor, D. (2009). Advancing scope of practice for advanced practice clinicians: more than a matter of access. *Contraception*, 80(2), 105-107. doi:10.1016/j.contraception.2009.04.013

White, G. L., Jr., & Davis, A. M. (1999). Physician assistants as partners in physician-directed care. *South Med J*, 92(10), 956-960.

Willigendaal, E. M., Teijink, J. A., Bartelink, M. L., Langenberg, M., Welten, R. J., Buller, H. R., & Prins, M. H. (2005). Combined training of GPs and practice-assistants on peripheral arterial disease: positive effects after six months. *Fam Pract*, 22(5), 520-522. doi:10.1093/fampra/cmi041

Wilson, I. B., Landon, B. E., Hirschhorn, L. R., McInnes, K., Ding, L., Marsden, P. V., & Cleary, P. D. (2005). Quality of HIV care provided by nurse practitioners, physician assistants, and physicians. *Ann Intern Med*, 143(10), 729-736.

Wilson, J. F. (2008). Primary care delivery changes as nonphysician clinicians gain independence. *Ann Intern Med*, 149(8), 597-600.

Zimmerman, J. (1997). Nurse practitioners, physician assistants, and certified nurse-midwives: primary care providers in rural areas. *Prairie Rose*, 66(2), 8a-11a.

Zorn, J., Snyder, J., & Satterblom, K. (2009). Analysis of incomes of new graduate physician assistants and gender, 1998-2006. *J Allied Health*, 38(3), 127-131.

# PA Education

- AAPA (2016). *PA education: preparation for excellence*. Retrieved from Alexandria, VA: <https://www.aapa.org/WorkArea/DownloadAsset.aspx?id=580>
- Adamson, T. E. (1971). Critical issues in the use of physician associates and assistants. *Am J Public Health, 61*(9), 1765-1779.
- Britt, Z. (2013). *Matriculating Student Survey 2013: Indebtedness*. Retrieved from [http://paeaonline.org/wp-content/uploads/2015/09/MSS\\_Indebtedness.pdf](http://paeaonline.org/wp-content/uploads/2015/09/MSS_Indebtedness.pdf)
- Buckley, S., Coleman, J., Davison, I., Khan, K., Zamora, J., Malick, S., & Sayers, J. (2009). The educational effects of portfolios on undergraduate student learning: a Best Evidence Medical Education (BEME) systematic review. BEME Guide No. 11. *Med Teach, 31*(4), 282-298. doi:10.1080/01421590902889897
- Carpenter, D. (2006). Perspectives on the physician assistant specialty credentialing debate. Education, not certification. *JAAPA, 19*(8), 16, 19-20.
- Chalupa, R. L., & Hooker, R. S. (2016). The education, role, distribution, and compensation of physician assistants in orthopedic surgery. *JAAPA, 29*(5), 1-7. doi:10.1097/01.JAA.0000482318.38700.d1
- Craig, C. K., Holmes, J. H. t., & Carter, J. E. (2017). Return on investment of advanced practice medical degrees: NPs vs. PAs. *JAAPA, 30*(6), 35-38. doi:10.1097/01.JAA.0000516349.73631.c2
- David E Mittman, James F Cawley, & Fenn, W. H. (2002). Physician assistants in the United States. *BJM, 325*.
- Day, C. S., Boden, S. D., Knott, P. T., O'Rourke, N. C., & Yang, B. W. (2016). Musculoskeletal Workforce Needs: Are Physician Assistants and Nurse Practitioners the Solution? AOA Critical Issues. *J Bone Joint Surg Am, 98*(11), e46. doi:10.2106/JBJS.15.00950
- Dies, N., Rashid, S., Shandling, M., Swallow, C., Easson, A. M., & Kennedy, E. (2016). Physician assistants reduce resident workload and improve care in an academic surgical setting. *JAAPA, 29*(2), 41-46. doi:10.1097/01.JAA.0000476214.34937.50
- Dunker, A., Krofah, E., & Isasi, F. (2014). The role of physician assistants in health care delivery.
- Fowkes, V., Cawley, J. F., Herlihy, N., & Cuadrado, R. R. (1996). Evaluating the potential of international medical graduates as physician assistants in primary care. *Acad Med, 71*(8), 886-892.
- Glicken, A. D., & Miller, A. A. (2013). Physician assistants: from pipeline to practice. *Acad Med, 88*(12), 1883-1889. doi:10.1097/ACM.0000000000000009
- Hauer, K. E., Durning, S. J., Kernan, W. N., Fagan, M. J., Mintz, M., O'Sullivan, P. S., & Schwartz, M. D. (2008). Factors associated with medical students' career choices regarding internal medicine. *JAMA, 300*(10), 1154-1164. doi:10.1001/jama.300.10.1154
- Hegmann, T., & Iverson, K. (2016). Does previous healthcare experience increase success in physician assistant training? *JAAPA, 29*(6), 54-56. doi:10.1097/01.JAA.0000483097.66394.45

- Hussaini, S. S., Bushardt, R. L., Gonsalves, W. C., Hilton, V. O., Hornberger, B. J., Labagnara, F. A., & Williams, J. S. (2016). Accreditation and implications of clinical postgraduate PA training programs. *JAAPA, 29*(5), 1-7. doi:10.1097/01.JAA.0000482298.17821.fb
- Larson, E. H., Andrilla, H. A., Morrison, C., Ostergard, S., & Glicken, A. (2016). Which Physician Assistant Training Programs Produce Rural Physician Assistants? A National Study. *Seattle, WA: WWAMI Rural Health Research Center, University of Washington.*
- Lohenry, K., Lie, D., Fung, C. C., Crandall, S., & Bushardt, R. L. (2016). Interprofessional Education: What Measurable Learning Outcomes Are Realistic for the Physician Assistant Profession? *J Physician Assist Educ, 27*(2), 63-67. doi:10.1097/JPA.0000000000000072
- Lopes, J. E., Jr., Badur, M., & Weis, N. (2016). How Physician Assistant Programs Use the CASPA Personal Statement in Their Admissions Process. *J Physician Assist Educ, 27*(2), 51-55. doi:10.1097/JPA.0000000000000065
- Nelson, S. C., & Hooker, R. S. (2016). Physician Assistants and Nurse Practitioners in Rural Washington Emergency Departments. *J Physician Assist Educ, 27*(2), 56-62. doi:10.1097/JPA.0000000000000074
- Ohlemeier, L. S., & Muma, R. D. (2008). Perceptions of US Physician Assistants Regarding the Entry-Level Doctoral Degree in PA Education. *The Journal of Physician Assistant Education, 19*(2).
- PAEA. (2009). *Physician Assistant Educational Programs in the United States*. Retrieved from <http://paeaonline.org/wp-content/uploads/2016/10/Data.25th-Annual-Report.pdf>
- Payment of Clinical Sites and Preceptors in PA Education.* (2013). Retrieved from <http://paeaonline.org/wp-content/uploads/2015/09/PaymentClinicalSites-PreceptorsPAEducation.pdf>
- Parks, A. L., & Redberg, R. F. (2016). Women in medicine and patient outcomes: Equal rights for better work? *JAMA Internal Medicine*. doi:10.1001/jamainternmed.2016.7883
- Preston, R. P. (2008). Why We Need to Restore Primary Care Generalist Training as the Centerpiece of Federal Policy. *Academy Medicine, 83*(11), 993-995. doi:10.1097/ACM.0b013e318188ff2c
- Ross, N., & Parle, J. (2008). Physician assistants: a UK perspective on clinical need, education and regulation. *The Clinical Teacher, 5*(1). doi:10.1111/j.1743-498X.2007.00181.x
- Russell, J. C., Kaplowe, J., & Heinrich, J. (1999). One hospital's successful 20-year experience with physician assistants in graduate medical education. *Acad Med, 74*(6), 641-645.
- Salyer, S. W. (2008). A Clinical Doctorate in Emergency Medicine for Physician Assistants: Postgraduate Education. *The Journal of Physician Assistant Education, 19*(3).
- Siggerud, K. (2017). *Locations and Types of Graduate Training Were Largely Unchanged, and Federal Efforts May Not Be Sufficient to Meet Needs*. Retrieved from <https://www.gao.gov/products/GAO-17-411>
- Silver, M. P., Hamilton, A. D., Biswas, A., & Warrick, N. I. (2016). A systematic review of physician retirement planning. *Hum Resour Health, 14*(1), 67. doi:10.1186/s12960-016-0166-z

Snyder, C. R., Wick, K. H., Skillman, S. M., & Frogner, B. K. (2016). Pathways for Military Veterans to Enter Healthcare Careers. *Center for Health Workforce Studies*.

Valentin, V. L., Dehn, R. W., & Baker, M. D. (2016). Commentaries on health services research. *JAAPA*, 29(2), 1-2. doi:10.1097/01.JAA.0000476223.32259.b0

Will, K. K., Williams, J., Hilton, G., Wilson, L., & Geyer, H. (2016). Perceived efficacy and utility of postgraduate physician assistant training programs. *JAAPA*, 29(3), 46-48. doi:10.1097/01.JAA.0000480569.39885.c8

# PA Role

- Armitage, M., & Shepherd, S. (2005). A new professional in the healthcare workforce: role, training, assessment and regulation. *Clin Med (Lond)*, 5(4), 311-314.
- Atwater, A., Bednar, S., Hassman, D., & Khouri, J. (2008). Nurse practitioners and physician assistants in primary care. *Dis Mon*, 54(11), 728-744. doi:10.1016/j.disamonth.2008.08.002
- Coldiron, B., & Ratnarathorn, M. (2014). Scope of physician procedures independently billed by mid-level providers in the office setting. *JAMA Dermatol*, 150(11), 1153-1159. doi:10.1001/jamadermatol.2014.1773
- Cooper, R. A. (2007). New directions for nurse practitioners and physician assistants in the era of physician shortages. *Acad Med*, 82(9), 827-828. doi:10.1097/ACM.0b013e31812f7939
- Ellis, M., & Krol, E. (2005). A case study on the use of physician assistants in college health. *Pediatr Clin North Am*, 52(1), 1-8, vii. doi:10.1016/j.pcl.2004.10.001
- Freed, G. L., Dunham, K. M., Loveland-Cherry, C., Martyn, K. K., Moote, M. J., & American Board of Pediatrics Research Advisory, C. (2011). Nurse practitioners and physician assistants employed by general and subspecialty pediatricians. *Pediatrics*, 128(4), 665-672. doi:10.1542/peds.2011-0329
- Gujral, H., Visconti, C., & Collantes, R. (2004). The role of physician extenders in managing patients with chronic hepatitis C. *Cleve Clin J Med*, 71 Suppl 3, S33-37.
- Henry, L. R., & Hooker, R. S. (2014). Caring for the disadvantaged: the role of physician assistants. *JAAPA*, 27(1), 36-42. doi:10.1097/01.JAA.0000438532.92138.53
- Hing, E., Hooker, R. S., & Ashman, J. J. (2011). Primary health care in community health centers and comparison with office-based practice. *J Community Health*, 36(3), 406-413. doi:10.1007/s10900-010-9322-x
- Kartha, A., Restuccia, J. D., Burgess, J. F., Jr., Benzer, J., Glasgow, J., Hockenberry, J., & Kaboli, P. J. (2014). Nurse practitioner and physician assistant scope of practice in 118 acute care hospitals. *J Hosp Med*, 9(10), 615-620. doi:10.1002/jhm.2231
- Larson, E. H., & Hart, L. G. (2007). Growth and change in the physician assistant workforce in the United States, 1967-2000. *J Allied Health*, 36(3), 121-130.
- Liu, C. M., Chien, C. W., Chou, P., Liu, J. H., Chen, V. T., Wei, J., & Lang, H. C. (2005). An analysis of job satisfaction among physician assistants in Taiwan. *Health Policy*, 73(1), 66-77. doi:10.1016/j.healthpol.2004.10.004
- Mikhail, J., Millerz, W., & Wagner, J. (2009). Midlevel practitioner role evolution in an American College of Surgeons-verified trauma surgery service: the 23-year experience at Hurley Medical Center. *J Trauma Nurs*, 16(1), 33-40. doi:10.1097/01.JTN.0000348068.63970.dc
- Nyberg, S. M., Keuter, K. R., Berg, G. M., Helton, A. M., & Johnston, A. D. (2010). Acceptance of physician assistants and nurse practitioners in trauma centers. *JAAPA*, 23(1), 35-37, 41.
- Paniagua, H., & Stewart, A. (2005). Medical care practitioners: introducing a new profession into the UK. *Br J Nurs*, 14(7), 405-408. doi:10.12968/bjon.2005.14.7.17949

- Rosenberg, S. M., Rosenthal, D. A., Rajan, D. K., Millward, S. F., Baum, R. A., & Silberzweig, J. E. (2008). Position statement: the role of physician assistants in interventional radiology. *J Vasc Interv Radiol*, 19(12), 1685-1689. doi:10.1016/j.jvir.2008.09.004
- Ross, A. C., Polansky, M. N., Parker, P. A., & Palmer, J. L. (2010). Understanding the role of physician assistants in oncology. *J Oncol Pract*, 6(1), 26-30. doi:10.1200/JOP.091062
- Sherwood, K. L., Price, R. R., White, T. W., Stevens, M. H., & Van Boerum, D. H. (2009). A role in trauma care for advanced practice clinicians. *JAAPA*, 22(6), 33-36, 41.
- Stewart, A., & Catanzaro, R. (2005). Can physician assistants be effective in the UK? *Clin Med (Lond)*, 5(4), 344-348.
- Troidle, L., & Smith, G. O. (2005). Can physician assistants fill the gaps in the nephrology workforce? *Nephrol News Issues*, 19(4), 65, 67.
- Timmermans, M. J. C., van den Brink, G. T., van Vught, A., Adang, E., van Berlo, C. L. H., Boxtel, K. V., Laurant, M. G. H. (2017). The involvement of physician assistants in inpatient care in hospitals in the Netherlands: a cost-effectiveness analysis. *BMJ Open*, 7(7), e016405. doi:10.1136/bmjopen-2017-016405

# PA Utilization

- Ackermann, R. J., & Kemle, K. A. (1998). The effect of a physician assistant on the hospitalization of nursing home residents. *J Am Geriatr Soc, 46*(5), 610-614.
- Adamson, T. E. (1971). Critical issues in the use of physician associates and assistants. *Am J Public Health, 61*(9), 1765-1779.
- Baker, S. R., & Merkulov, A. (2005). The radiology assistant: a contrarian's view. *Emerg Radiol, 11*(4), 187-192. doi:10.1007/s10140-005-0400-9
- Boydston, J., & Cossman, J. S. (2016). Career expectancy of physicians active in patient care: evidence from Mississippi. *Rural Remote Health, 16*(2), 3813.
- Buchanan, J. L., & Hosek, S. D. (1983). *Costs, Productivity, and the Utilization of Physician's Extenders in Air Force Primary Medicine Clinics*. Retrieved from <https://www.rand.org/content/dam/rand/pubs/reports/2006/R2896.pdf>
- Cramer, C. L., Orlowski, J. P., & DeNicola, L. K. (2008). Pediatric intensivist extenders in the pediatric ICU. *Pediatr Clin North Am, 55*(3), 687-708, xi-xii. doi:10.1016/j.pcl.2008.02.007
- Dacey, M. J., Mirza, E. R., Wilcox, V., Doherty, M., Mello, J., Boyer, A., & Baute, R. (2007). The effect of a rapid response team on major clinical outcome measures in a community hospital. *Crit Care Med, 35*(9), 2076-2082.
- DeMots, H., Coombs, B., Murphy, E., & Palac, R. (1987). Coronary arteriography performed by a physician assistant. *Am J Cardiol, 60*(10), 784-787.
- DeNicola, L., Kleid, D., Brink, L., van Stralen, D., Scott, M., Gerbert, D., & Brennan, L. (1994). Use of pediatric physician extenders in pediatric and neonatal intensive care units. *Crit Care Med, 22*(11), 1856-1864.
- Druss, B. G., Marcus, S. C., Olfson, M., Tanielian, T., & Pincus, H. A. (2003). Trends in care by nonphysician clinicians in the United States. *N Engl J Med, 348*(2), 130-137. doi:10.1056/NEJMsa020993
- Dubaybo, B. A., Samson, M. K., & Carlson, R. W. (1991). The role of physician-assistants in critical care units. *Chest, 99*(1), 89-91. doi:10.1378/chest.99.1.89
- Ekwo, E., Daniels, M., Oliver, D., & Fethke, C. (1979). The physician assistant in rural primary care practices: physician assistant activities and physician supervision at satellite and non-satellite practice sites. *Med Care, 17*(8), 787-795.
- Ellis, M., & Krol, E. (2005). A case study on the use of physician assistants in college health. *Pediatr Clin North Am, 52*(1), 1-8, vii. doi:10.1016/j.pcl.2004.10.001
- Epstein, A. M., Jha, A. K., & Orav, E. J. (2011). The relationship between hospital admission rates and rehospitalizations. *N Engl J Med, 365*(24), 2287-2295. doi:10.1056/NEJMsa1101942
- Everett, C. M., Morgan, P., & Jackson, G. L. (2016). Primary care physician assistant and advance practice nurses roles: Patient healthcare utilization, unmet need, and satisfaction. *Healthcare, 4*(3), 1-10. doi:10.1016/j.hjdsi.2016.03.005

- Everett, C. M., Schumacher, J. R., Wright, A., & Smith, M. A. (2009). Physician assistants and nurse practitioners as a usual source of care. *J Rural Health*, 25(4), 407-414. doi:10.1111/j.1748-0361.2009.00252.x
- Gershengorn, H. B., Johnson, M. P., & Factor, P. (2012). The use of nonphysician providers in adult intensive care units. *Am J Respir Crit Care Med*, 185(6), 600-605. doi:10.1164/rccm.201107-1261CP
- Ginde, A. A., Espinola, J. A., Sullivan, A. F., Blum, F. C., & Camargo, C. A., Jr. (2010). Use of midlevel providers in US EDs, 1993 to 2005: implications for the workforce. *Am J Emerg Med*, 28(1), 90-94. doi:10.1016/j.ajem.2008.09.028
- Grzybicki, D. M., Sullivan, P. J., Oppy, J. M., Bethke, A. M., & Raab, S. S. (2002). The economic benefit for family/general medicine practices employing physician assistants. *Am J Manag Care*, 8(7), 613-620.
- Hughes, N. (2005). Should you add a PA or an NP to your practice? *J Med Pract Manage*, 20(4), 203-206.
- Jones, P. E., & Cawley, J. F. (2009). Workweek restrictions and specialty-trained physician assistants: potential opportunities. *J Surg Educ*, 66(3), 152-157. doi:10.1016/j.jsurg.2009.03.033
- Kern, L. M., Edwards, A., & Kaushal, R. (2016). The Patient-Centered Medical Home and Associations With Health Care Quality and Utilization: A 5-Year Cohort Study. *Ann Intern Med*, 164(6), 395-405. doi:10.7326/M14-2633
- Larson, E. H., Hart, L. G., & Ballweg, R. (2001). National estimates of physician assistant productivity. *J Allied Health*, 30(3), 146-152.
- Mathur, M., Rampersad, A., Howard, K., & Goldman, G. M. (2005). Physician assistants as physician extenders in the pediatric intensive care unit setting-A 5-year experience. *Pediatr Crit Care Med*, 6(1), 14-19. doi:10.1097/01.PCC.0000149133.50687.A1
- Menchine, M. D., Wiechmann, W., & Rudkin, S. (2009). Trends in midlevel provider utilization in emergency departments from 1997 to 2006. *Acad Emerg Med*, 16(10), 963-969. doi:10.1111/j.1553-2712.2009.00521.x
- Miller, W., Riehl, E., Napier, M., Barber, K., & Dabideen, H. (1998). Use of physician assistants as surgery/trauma house staff at an American College of Surgeons-verified Level II trauma center. *J Trauma*, 44(2), 372-376.
- Moote, M., Krsek, C., Kleinpell, R., & Todd, B. (2011). Physician assistant and nurse practitioner utilization in academic medical centers. *Am J Med Qual*, 26(6), 452-460. doi:10.1177/1062860611402984
- Morgan, P. A., Shah, N. D., Kaufman, J. S., & Albanese, M. A. (2008). Impact of physician assistant care on office visit resource use in the United States. *Health Serv Res*, 43(5 Pt 2), 1906-1922. doi:10.1111/j.1475-6773.2008.00874.x
- Newhouse, J. P. (2010). Assessing health reform's impact on four key groups of Americans. *Health Aff (Millwood)*, 29(9), 1714-1724. doi:10.1377/hlthaff.2010.0595
- Nyberg, S. M., Keuter, K. R., Berg, G. M., Helton, A. M., & Johnston, A. D. (2010). Acceptance of physician assistants and nurse practitioners in trauma centers. *JAAPA*, 23(1), 35-37, 41.

- Ohman-Strickland, P. A., Orzano, A. J., Hudson, S. V., Solberg, L. I., DiCiccio-Bloom, B., O'Malley, D., & Crabtree, B. F. (2008). Quality of diabetes care in family medicine practices: influence of nurse-practitioners and physician's assistants. *Ann Fam Med*, 6(1), 14-22. doi:10.1370/afm.758
- Oswanski, M. F., Sharma, O. P., & Raj, S. S. (2004). Comparative review of use of physician assistants in a level I trauma center. *Am Surg*, 70(3), 272-279.
- Ouslander, J. G., Lamb, G., Perloe, M., Givens, J. H., Kluge, L., Rutland, T., & Saliba, D. (2010). Potentially avoidable hospitalizations of nursing home residents: frequency, causes, and costs: [see editorial comments by Drs. Jean F. Wyman and William R. Hazzard, pp 760-761]. *J Am Geriatr Soc*, 58(4), 627-635. doi:10.1111/j.1532-5415.2010.02768.x
- Pezzi, C., Leibrandt, T., Suryadevara, S., Heller, J., Hurley-Martonik, D., & Kukora, J. (2008). Current and planned use for physician extenders in general surgery training programs: a survey of the program directors in surgery. *Journal of Surgical Education*, 65(1), 30. doi:10.1016/j.jsurg.2008.01.052
- Reschovsky, J. D., Ghosh, A., Stewart, K. A., & Chollet, D. J. (2012). Durable medical equipment and home health among the largest contributors to area variations in use of Medicare services. *Health Aff (Millwood)*, 31(5), 956-964. doi:10.1377/hlthaff.2011.0243
- Russell, J. C., Kaplowe, J., & Heinrich, J. (1999). One hospital's successful 20-year experience with physician assistants in graduate medical education. *Acad Med*, 74(6), 641-645.
- Simmons, H. J., 3rd, & Rapoport, D. H. (2007). How will physician extenders affect our need for physicians? *Health Care Strateg Manage*, 25(11), 4-5.
- Stange, K. (2014). How does provider supply and regulation influence health care markets? Evidence from nurse practitioners and physician assistants. *J Health Econ*, 33, 1-27. doi:10.1016/j.jhealeco.2013.10.009
- Thourani, V. H., & Miller, J. I., Jr. (2006). Physicians assistants in cardiothoracic surgery: a 30-year experience in a university center. *Ann Thorac Surg*, 81(1), 195-199; discussion 199-200. doi:10.1016/j.athoracsur.2005.07.031
- White, G. L., Jr., & Davis, A. M. (1999). Physician assistants as partners in physician-directed care. *South Med J*, 92(10), 956-960.

# PA Value

- Adamson, T. E. (1971). Critical issues in the use of physician associates and assistants. *Am J Public Health, 61*(9), 1765-1779.
- Arrow, K. J. (1963). UNCERTAINTY AND THE WELFARE ECONOMICS OF MEDICAL CARE. *The American Economic Review, 53*(5), 941-973.
- Baker, S. R., & Merkulov, A. (2005). The radiology assistant: a contrarian's view. *Emerg Radiol, 11*(4), 187-192. doi:10.1007/s10140-005-0400-9
- Barnes, K. & Isgur, B. (2016). *ROI for primary care: Building the dream team*. Retrieved from <https://www.pwc.com/us/en/health-industries/health-research-institute/publications/primary-care-part-two.html>
- Bernstein, J., Chollet, D. J., & Peterson, S. (2010). Financial Incentives for Health Care Providers and Consumers. *Mathematica, 5*.
- Carzoli, R. P., Martinez-Cruz, M., Cuevas, L. L., Murphy, S., & Chiu, T. (1994). Comparison of neonatal nurse practitioners, physician assistants, and residents in the neonatal intensive care unit. *Pediatrics Adolescent Medicine, 148*(12), 1271-1276.
- Everett, C. M., & Quella, A. (2017). Diffusion of PA innovation: Risk-taking vs. safe bet. *JAAPA, 30*(6), 43-45. doi:10.1097/01.JAA.0000516351.58384.f3
- Fang, R. (2012). Providing Practice-Based Evidence of PA Value to Healthcare System and Patients by Enhancing PA Data Collection and Research.
- Mafi, J. N., Wee, C. C., Davis, R. B., & Landon, B. E. (2016). Comparing Use of Low-Value Health Care Services Among U.S. Advanced Practice Clinicians and Physicians. *Ann Intern Med*. doi:10.7326/M15-2152
- Moore, M., Coffman, M., Cawley, J., Crowley, D., Bazemore, A., Cheng, N., & Klink, K. (2014). The impact of debt load on physician assistants: Robert Graham Center.
- Ogunfiditimi, F., Sherry, S. P., Foote, M., Christie, S. L., Shock, L. P., & Cawley, J. (2017). How electronic health records can unmask the hidden value of PAs. *JAAPA, 30*(6), 1-3. doi:10.1097/01.JAA.0000516345.50761.e3
- Salsberg, E., & Quigley, L. (2016). Are we facing a physician assistant surplus? *JAAPA, 29*(11), 40-44. doi:10.1097/01.JAA.0000502865.59093.ef
- Sinsky, C., Colligan, L., Li, L., Prgomet, M., Reynolds, S., Goeders, L., & Blike, G. (2016). Allocation of Physician Time in Ambulatory Practice: A Time and Motion Study in 4 Specialties. *Ann Intern Med*. doi:10.7326/M16-0961
- Ulmer, C., Bruno, M., & Burke, S. (2010). Future Directions for the National Healthcare Quality and Disparities Reports.

# Patient Care Team

- Buch, K. E., Genovese, M. Y., Conigliaro, J. L., Nguyen, S. Q., Byrn, J. C., Novembre, C. L., & Divino, C. M. (2008). Non-physician practitioners' overall enhancement to a surgical resident's experience. *J Surg Educ*, 65(1), 50-53. doi:10.1016/j.jsurg.2007.07.002
- Dacey, M. J., Mirza, E. R., Wilcox, V., Doherty, M., Mello, J., Boyer, A., & Baute, R. (2007). The effect of a rapid response team on major clinical outcome measures in a community hospital. *Crit Care Med*, 35(9), 2076-2082.
- Epstein, R. M., Fiscella, K., Lesser, C. S., & Stange, K. C. (2010). Why the nation needs a policy push on patient-centered health care. *Health Aff (Millwood)*, 29(8), 1489-1495. doi:10.1377/hlthaff.2009.0888
- Glicken, A. D., & Miller, A. A. (2013). Physician assistants: from pipeline to practice. *Acad Med*, 88(12), 1883-1889. doi:10.1097/ACM.0000000000000009
- Green, L. V., Savin, S., & Lu, Y. (2013). Primary care physician shortages could be eliminated through use of teams, nonphysicians, and electronic communication. *Health Aff (Millwood)*, 32(1), 11-19. doi:10.1377/hlthaff.2012.1086
- Hiza, E. A., Gottschalk, M. B., Umpierrez, E., Bush, P., & Reisman, W. M. (2015). Effect of a Dedicated Orthopaedic Advanced Practice Provider in a Level I Trauma Center: Analysis of Length of Stay and Cost. *J Orthop Trauma*, 29(7), e225-230. doi:10.1097/BOT.0000000000000261
- Hong, K., Georgiades, C. S., Hebert, J., Wahlin, T., Mitchell, S. E., & Geschwind, J. F. (2006). Incorporating physician assistants and physician extenders in the contemporary interventional oncology practice. *Tech Vasc Interv Radiol*, 9(3), 96-100. doi:10.1053/j.tvir.2007.02.005
- Mains, C., Scarborough, K., Bar-Or, R., Hawkes, A., Huber, J., Bourg, P., & Bar-Or, D. (2009). Staff commitment to trauma care improves mortality and length of stay at a level I trauma center. *J Trauma*, 66(5), 1315-1320. doi:10.1097/TA.0b013e31819d96d8
- Mathur, M., Rampersad, A., Howard, K., & Goldman, G. M. (2005). Physician assistants as physician extenders in the pediatric intensive care unit setting-A 5-year experience. *Pediatr Crit Care Med*, 6(1), 14-19. doi:10.1097/01.PCC.0000149133.50687.A1
- McLean, T. R. (2002). Crossing the quality chasm: autonomous physician extenders will necessitate a shift to enterprise liability coverage for health care delivery. *Health Matrix Clevel*, 12(2), 239-295.
- Neily, J., Mills, P. D., Lee, P., Carney, B., West, P., Percarpio, K., & Bagian, J. P. (2010). Medical team training and coaching in the Veterans Health Administration: assessment and impact on the first 32 facilities in the programme. *Qual Saf Health Care*, 19(4), 360-364. doi:10.1136/qshc.2008.031005
- Nestler, D. M., Fratzke, A. R., Church, C. J., Scanlan-Hanson, L., Sadosty, A. T., Halasy, M. P., & Hess, E. P. (2012). Effect of a physician assistant as triage liaison provider on patient throughput in an academic emergency department. *Acad Emerg Med*, 19(11), 1235-1241. doi:10.1111/acem.12010
- Ohman-Strickland, P. A., Orzano, A. J., Hudson, S. V., Solberg, L. I., DiCiccio-Bloom, B., O'Malley, D., & Crabtree, B. F. (2008). Quality of diabetes care in family medicine practices: influence of

nurse-practitioners and physician's assistants. *Ann Fam Med*, 6(1), 14-22.  
doi:10.1370/afm.758

Resnick, A. S., Todd, B. A., Mullen, J. L., & Morris, J. B. (2006). How do surgical residents and non-physician practitioners play together in the sandbox? *Curr Surg*, 63(2), 155-164.  
doi:10.1016/j.cursur.2005.12.009

Roblin, D. W., Howard, D. H., Junling, R., & Becker, E. R. (2011). An evaluation of the influence of primary care team functioning on the health of Medicare beneficiaries. *Med Care Res Rev*, 68(2), 177-201. doi:10.1177/1077558710374619

Sherwood, K. L., Price, R. R., White, T. W., Stevens, M. H., & Van Boerum, D. H. (2009). A role in trauma care for advanced practice clinicians. *JAAPA*, 22(6), 33-36, 41.

Singh, S., Fletcher, K. E., Schapira, M. M., Conti, M., Tarima, S., Biblo, L. A., & Whittle, J. (2011). A comparison of outcomes of general medical inpatient care provided by a hospitalist-physician assistant model vs a traditional resident-based model. *J Hosp Med*, 6(3), 122-130.  
doi:10.1002/jhm.826

Solomon, D. H., Fraenkel, L., Lu, B., Brown, E., Tsao, P., Losina, E., & Bitton, A. (2015). Comparison of Care Provided in Practices With Nurse Practitioners and Physician Assistants Versus Subspecialist Physicians Only: A Cohort Study of Rheumatoid Arthritis. *Arthritis Care Res (Hoboken)*, 67(12), 1664-1670. doi:10.1002/acr.22643

White, G. L., Jr., & Davis, A. M. (1999). Physician assistants as partners in physician-directed care. *South Med J*, 92(10), 956-960.

# Patient Education

- Brownlee, S., Wennberg, J. E., Barry, M. J., Fisher, E. S., Goodman, D. C., & Bynum, J. P. (2011). *Improving Patient Decision-Making in Health Care: A 2011 Dartmouth Atlas Report Highlighting Minnesota*. Retrieved from <http://www.rwjf.org/en/library/research/2011/02/improving-patient-decision-making-in-health-care.html>
- Friedberg, M. W., SteelFisher, G. K., Karp, M., & Schneider, E. C. (2011). Physician groups' use of data from patient experience surveys. *J Gen Intern Med*, 26(5), 498-504. doi:10.1007/s11606-010-1597-1
- Gujral, H., Visconti, C., & Collantes, R. (2004). The role of physician extenders in managing patients with chronic hepatitis C. *Cleve Clin J Med*, 71 Suppl 3, S33-37.
- Hing, E., Hooker, R. S., & Ashman, J. J. (2011). Primary health care in community health centers and comparison with office-based practice. *J Community Health*, 36(3), 406-413. doi:10.1007/s10900-010-9322-x
- King, A., Wolfe, G., Healy, S., Lineham, T., Harrison, S., Ponzio, C., & Armstrong, D. (2006). Exploring methods to extend the reach of diabetes specialist expertise into primary care clinics. *Diabetes Educ*, 32(4), 525-530. doi:10.1177/0145721706290831
- Lewis, S. (2010). Creating Incentives to Improve Population Health. *Preventing Chronic Disease*, 7(5), 1-4.
- Schwarz, H. B., Fritz, J. V., Govindarajan, R., Murray, R. P., Boyle, K. B., Getchius, T. S., & Freimer, M. (2015). Neurology advanced practice providers: A position paper of the American Academy of Neurology. *Neurology: Clinical Practice*, 5(4), 333-337.

# Patient Satisfaction

American Institutes for Research (N.A). *How to Display Comparative Information that People Can Understand and Use*. Retrieved from <http://www.rwjf.org/en/library/research/2010/07/how-to-display-comparative-information-that-people-can-understan.html>

Auerbach, D. I., Chen, P. G., Friedberg, M. W., Reid, R., Lau, C., Buerhaus, P. I., & Mehrotra, A. (2013). Nurse-managed health centers and patient-centered medical homes could mitigate expected primary care physician shortage. *Health Aff (Millwood)*, 32(11), 1933-1941. doi:10.1377/hlthaff.2013.0596

Brown, J. B., Boles, M., Mullooly, J. P., & Levinson, W. (1999). Effect of clinician communication skills training on patient satisfaction. A randomized, controlled trial. *Ann Intern Med*, 131(11), 822-829.

Boutwell, A. E., Johnson, M. B., Rutherford, P., Watson, S. R., Vecchioni, N., Auerbach, B. S. & . Wagner, C. (2011). An Early Look at a Four-State Initiative to Reduce Avoidable Hospital Readmissions.

Carzoli, R. P., Martinez-Cruz, M., Cuevas, L. L., Murphy, S., & Chiu, T. (1994). Comparison of neonatal nurse practitioners, physician assistants, and residents in the neonatal intensive care unit. *Pediatrics Adolescent Medicine*, 148(12), 1271-1276.

Cipher, D. J., Hooker, R. S., & Sekscenski, E. (2006). Are older patients satisfied with physician assistants and nurse practitioners? *JAAPA*, 19(1), 36, 39-40, 42-34.

Counselman, F. L., Graffeo, C. A., & Hill, J. T. (2000). Patient satisfaction with physician assistants (PAs) in an ED fast track. *Am J Emerg Med*, 18(6), 661-665. doi:10.1053/ajem.2000.16301

Delbanco, T., Walker, J., Darer, J. D., Elmore, J. G., Feldman, H. J., Leveille, S. G., Weber, V. D. (2010). Open notes: doctors and patients signing on. *Ann Intern Med*, 153(2), 121-125. doi:10.7326/0003-4819-153-2-201007200-00008

Dhuper, S., & Choksi, S. (2009). Replacing an academic internal medicine residency program with a physician assistant--hospitalist model: a comparative analysis study. *Am J Med Qual*, 24(2), 132-139. doi:10.1177/1062860608329646

Ekwo, E., Daniels, M., Oliver, D., & Fethke, C. (1979). The physician assistant in rural primary care practices: physician assistant activities and physician supervision at satellite and non-satellite practice sites. *Med Care*, 17(8), 787-795.

Epstein, R. M., Fiscella, K., Lesser, C. S., & Stange, K. C. (2010). Why the nation needs a policy push on patient-centered health care. *Health Aff (Millwood)*, 29(8), 1489-1495. doi:10.1377/hlthaff.2009.0888

Ferrari, M. (2012). *Improving Patient Experience in the Inpatient Setting: A Case Study of Three Hospitals*. Retrieved from file:///C:/Users/dmelton/Downloads/Improving%20Patient%20Experience%20in%20the%20Inpatient%20Setting.pdf

Finn, K. M., Heffner, R., Chang, Y., Bazari, H., Hunt, D., Pickell, K., Karson, A. (2011). Improving the discharge process by embedding a discharge facilitator in a resident team. *J Hosp Med*, 6(9), 494-500. doi:10.1002/jhm.924

- Foundation, R. W. J. (2010). *Implementing Patient-Centered Medical Home Pilot Projects: Lessons from AF4Q Communities*. Retrieved from <http://www.rwjf.org/en/library/research/2010/01/implementing-patient-centered-medical-home-pilot-projects.html>
- Friedberg, M. W., SteelFisher, G. K., Karp, M., & Schneider, E. C. (2011). Physician groups' use of data from patient experience surveys. *J Gen Intern Med*, 26(5), 498-504. doi:10.1007/s11606-010-1597-1
- Friedberg, M. W., Coltin, K. L., Safran, D. G., Dresser, M., & Schneider, E. C. (2010). Medical home capabilities of primary care practices that serve sociodemographically vulnerable neighborhoods. *Arch Intern Med*, 170(11), 938-944. doi:10.1001/archinternmed.2010.110
- Goodyear-Smith, F., Gauld, R., Cumming, J., O'Keefe, B., Pert, H., & McCormack, P. (2012). International learning on increasing the value and effectiveness of primary care (I LIVE PC) New Zealand. *J Am Board Fam Med*, 25 Suppl 1, S39-44. doi:10.3122/jabfm.2012.02.110198
- Green, L. V., Savin, S., & Lu, Y. (2013). Primary care physician shortages could be eliminated through use of teams, nonphysicians, and electronic communication. *Health Aff (Millwood)*, 32(1), 11-19. doi:10.1377/hlthaff.2012.1086
- Greenber, M. D., & Ridgely, M. S. (2008). A National Health Information Network -- What Are the Real Privacy Issues? Retrieved from [https://www.rand.org/pubs/research\\_briefs/RB9376/index1.html](https://www.rand.org/pubs/research_briefs/RB9376/index1.html)
- Gresenz, C. R., & Escarce, J. J. (2011). Spillover effects of community uninsurance on working-age adults and seniors: an instrumental variables analysis. *Med Care*, 49(9), e14-21. doi:10.1097/MLR.0b013e31822dc7f4
- Halter, M., Drennan, V. M., Joly, L. M., Gabe, J., Gage, H., & de Lusignan, S. (2017). Patients' experiences of consultations with physician associates in primary care in England: A qualitative study. *Health Expect*. doi:10.1111/hex.12542
- Henry, L. R., & Hooker, R. S. (2014). Caring for the disadvantaged: the role of physician assistants. *J AAPA*, 27(1), 36-42. doi:10.1097/01.JAA.0000438532.92138.53
- Hooker, R. S., Potts, R., & Ray, W. (1997). Patient Satisfaction: Comparing Physician Assistants, Nurse Practitioners, and Physicians. *The Permanente Journal*, 1(1), 38-42.
- Kern, L. M., Edwards, A., & Kaushal, R. (2016). The Patient-Centered Medical Home and Associations With Health Care Quality and Utilization: A 5-Year Cohort Study. *Ann Intern Med*, 164(6), 395-405. doi:10.7326/M14-2633
- Lee, V. S., Miller, T., Daniels, C., Paine, M., Gresh, B., & Betz, A. L. (2016). Creating the Exceptional Patient Experience in One Academic Health System. *Acad Med*, 91(3), 338-344. doi:10.1097/ACM.0000000000001007
- Levy, C., Palat, S. I., & Kramer, A. M. (2007). Physician practice patterns in nursing homes. *J Am Med Dir Assoc*, 8(9), 558-567. doi:10.1016/j.jamda.2007.06.015
- Mccarthy, D., & Klein, S. (2010). The Triple Aim Journey: Improving Population Health and Patients' Experience of Care, While Reducing Costs. *Commonwealth Fund*, 48.

*Measuring Patient Experience.* (2012). Retrieved from <http://www.rwjf.org/en/library/articles-and-news/2012/04/measuring-patients-experience-of-care.html>

Moote, M., Krsek, C., Kleinpell, R., & Todd, B. (2011). Physician assistant and nurse practitioner utilization in academic medical centers. *Am J Med Qual, 26*(6), 452-460.  
doi:10.1177/1062860611402984

N.A. (2008). Competitive concerns bring PAs, NPs into triage area. *ED Manag, 20*(6), 67-68.

Nyberg, S. M., Waswick, W., Wynn, T., & Keuter, K. (2007). Midlevel providers in a Level I trauma service: experience at Wesley Medical Center. *J Trauma, 63*(1), 128-134.  
doi:10.1097/01.ta.0000221765.90190.73

Ouslander, J. G., Lamb, G., Perloe, M., Givens, J. H., Kluge, L., Rutland, T., Saliba, D. (2010). Potentially avoidable hospitalizations of nursing home residents: frequency, causes, and costs: [see editorial comments by Drs. Jean F. Wyman and William R. Hazzard, pp 760-761]. *J Am Geriatr Soc, 58*(4), 627-635. doi:10.1111/j.1532-5415.2010.02768.x

Press Ganey Associates, I. (2007). Physician's Office and Outpatient Pulse Report 2007. South Bend, IN.

Reid, R. J., Fishman, P. A., Yu, O., Ross, T. R., Tufano, J. T., Soman, M. P., & Larson, E. B. (2009). Patient-centered medical home demonstration: a prospective, quasi-experimental, before and after evaluation. *Am J Manag Care, 15*(9), e71-87.

Rosenberg, S. M., Rosenthal, D. A., Rajan, D. K., Millward, S. F., Baum, R. A., Silberzweig, J. E., American Academy of Physician, A. (2008). Position statement: the role of physician assistants in interventional radiology. *J Vasc Interv Radiol, 19*(12), 1685-1689.  
doi:10.1016/j.jvir.2008.09.004

Shi, L., Lock, D. C., Lee, D. C., Lebrun-Harris, L. A., Chin, M. H., Chidambaran, P., Sripiwatana, A. (2015). Patient-centered Medical Home capability and clinical performance in HRSA-supported health centers. *Med Care, 53*(5), 389-395. doi:10.1097/MLR.0000000000000331

Stewart, A., & Catanzaro, R. (2005). Can physician assistants be effective in the UK? *Clin Med (Lond), 5*(4), 344-348.

Van Citters, A. D., Larson, B. K., Carluzzo, K. L., Gbemudu, J. N., Kreindler, S. A., Wu, F. M., Fisher, E. S. (2012). *Four Health Care Organizations' Efforts to Improve Patient Care and Reduce Costs.* Retrieved from <http://www.commonwealthfund.org/publications/case-studies/2012/jan/four-health-care-organizations>

Virani, S. S., Akeroyd, J. M., Ramsey, D. J., Chan, W. J., Frazier, L., Nasir, K., Petersen, L. A. (2016). Comparative effectiveness of outpatient cardiovascular disease and diabetes care delivery between advanced practice providers and physician providers in primary care: Implications for care under the Affordable Care Act. *Am Heart J, 181*, 74-82. doi:10.1016/j.ahj.2016.07.020

Wong, R. C. K. (1999). Screening flexible sigmoidoscopy by nonphysician endoscopists: It's here to stay, but is it the right test to do? *Gastrointest Endoscopy, 49*(2), 262-264.  
doi:[http://dx.doi.org/10.1016/S0016-5107\(99\)70501-8](http://dx.doi.org/10.1016/S0016-5107(99)70501-8)

# Physicians

- Abrams, M. K., Schor, E. L., & Schoenbaum, S. C. (2010). How Physician Practices Could Share Personnel and Resources to Support Medical Homes. *Health Affairs, 29*(6), 1194–1199.
- Allen, S. M., Ballweg, R. A., Cosgrove, E. M., Engle, K. A., Robinson, L. R., Rosenblatt, R. A., Wenrich, M. D. (2013). Challenges and opportunities in building a sustainable rural primary care workforce in alignment with the Affordable Care Act: the WWAMI program as a case study. *Acad Med, 88*(12), 1862-1869. doi:10.1097/ACM.0000000000000008
- Armitage, M., & Shepherd, S. (2005). A new professional in the healthcare workforce: role, training, assessment and regulation. *Clin Med (Lond), 5*(4), 311-314.
- Auerbach, D. I., Chen, P. G., Friedberg, M. W., Reid, R., Lau, C., Buerhaus, P. I., & Mehrotra, A. (2013). Nurse-managed health centers and patient-centered medical homes could mitigate expected primary care physician shortage. *Health Aff (Millwood), 32*(11), 1933-1941. doi:10.1377/hlthaff.2013.0596
- Bevis, L. C., Berg-Copas, G. M., Thomas, B. W., Vasquez, D. G., Wetta-Hall, R., Brake, D., Harrison, P. (2008). Outcomes of tube thoracostomies performed by advanced practice providers vs trauma surgeons. *Am J Crit Care, 17*(4), 357-363.
- Bishop, T. F., Seirup, J. K., Pincus, H. A., & Ross, J. S. (2016). Population Of US Practicing Psychiatrists Declined, 2003-13, Which May Help Explain Poor Access To Mental Health Care. *Health Aff (Millwood), 35*(7), 1271-1277. doi:10.1377/hlthaff.2015.1643
- Brown, G. R., Hale, L. S., Britz, M. C., Schrader, M. J., Sholtz, S. L., & Unruh, M. J. (2015). A Survey of Kansas Physicians' Perceptions of Physician Assistant Education and Qualifications. *Kansas Journal of Medicine, 8*(1), 8.
- Camargo, C. A., Jr., Ginde, A. A., Singer, A. H., Espinola, J. A., Sullivan, A. F., Pearson, J. F., & Singer, A. J. (2008). Assessment of emergency physician workforce needs in the United States, 2005. *Acad Emerg Med, 15*(12), 1317-1320. doi:10.1111/j.1553-2712.2008.00264.x
- Choo, K. J., Arora, V. M., Barach, P., Johnson, J. K., & Farnan, J. M. (2014). How do supervising physicians decide to entrust residents with unsupervised tasks? A qualitative analysis. *J Hosp Med, 9*(3), 169-175. doi:10.1002/jhm.2150
- Cohn, S. M., Price, M. A., & Villarreal, C. L. (2009). Trauma and surgical critical care workforce in the United States: a severe surgeon shortage appears imminent. *J Am Coll Surg, 209*(4), 446-452 e444. doi:10.1016/j.jamcollsurg.2009.06.369
- Cooper, R. A. (2007). New directions for nurse practitioners and physician assistants in the era of physician shortages. *Acad Med, 82*(9), 827-828. doi:10.1097/ACM.0b013e31812f7939
- Cramer, C. L., Orlowski, J. P., & DeNicola, L. K. (2008). Pediatric intensivist extenders in the pediatric ICU. *Pediatr Clin North Am, 55*(3), 687-708, xi-xii. doi:10.1016/j.pcl.2008.02.007
- Delbanco, T., Walker, J., Darer, J. D., Elmore, J. G., Feldman, H. J., Leveille, S. G., Weber, V. D. (2010). Open notes: doctors and patients signing on. *Ann Intern Med, 153*(2), 121-125. doi:10.7326/0003-4819-153-2-201007200-00008

- Eyal, N., Cancedda, C., Kyamanywa, P., & Hurst, S. A. (2015). Non-physician Clinicians in Sub-Saharan Africa and the Evolving Role of Physicians. *Int J Health Policy Manag*, 5(3), 149-153. doi:10.15171/ijhpm.2015.215
- Friedberg, M. W., SteelFisher, G. K., Karp, M., & Schneider, E. C. (2011). Physician groups' use of data from patient experience surveys. *J Gen Intern Med*, 26(5), 498-504. doi:10.1007/s11606-010-1597-1
- Grover, A., Orlowski, J. M., & Erikson, C. E. (2016). The Nation's Physician Workforce and Future Challenges. *Am J Med Sci*, 351(1), 11-19. doi:10.1016/j.amjms.2015.10.009
- Hing, E., Hooker, R. S., & Ashman, J. J. (2011). Primary health care in community health centers and comparison with office-based practice. *J Community Health*, 36(3), 406-413. doi:10.1007/s10900-010-9322-x
- Iglehart, J. K. (2012). Primary care update--light at the end of the tunnel? *N Engl J Med*, 366(23), 2144-2146. doi:10.1056/NEJMp1205537
- Jacobson, P. D., & Jazowski, S. A. (2011). Physicians, the Affordable Care Act, and primary care: disruptive change or business as usual? *J Gen Intern Med*, 26(8), 934-937. doi:10.1007/s11606-011-1695-8
- Jamoom, E., Beatty, P., Bercovitz, A., Woodwell, D., Palso, K., & Rechtsteiner, E. (2012). Physician adoption of electronic health record systems: United States, 2011. *NCHS Data Brief*(98), 1-8.
- Kauffman, M., & Ferretti, S. M. (2014). The accelerated physician assistant pathway: a three-year medical school curriculum for physician assistants to obtain DO degrees. *Acad Med*, 89(12), 1645-1648. doi:10.1097/ACM.0000000000000307
- Lieberman, D., & Lalwani, A. (1994). Physician-only and physician assistant statutes: a case of perceived but unfounded conflict. *J Am Med Womens Assoc*, 49(5), 146-149.
- Morgan, P. A., Shah, N. D., Kaufman, J. S., & Albanese, M. A. (2008). Impact of physician assistant care on office visit resource use in the United States. *Health Serv Res*, 43(5 Pt 2), 1906-1922. doi:10.1111/j.1475-6773.2008.00874.x
- Morgan, P., Everett, C. M., Smith, V. A., Woolson, S., Edelman, D., Hendrix, C. C., Jackson, G. L. (2017). Factors Associated With Having a Physician, Nurse Practitioner, or Physician Assistant as Primary Care Provider for Veterans With Diabetes Mellitus. *Inquiry*, 54, 46958017712762. doi:10.1177/0046958017712762
- Moses, R. E., & Feld, A. D. (2007). Physician liability for medical errors of nonphysician clinicians: nurse practitioners and physician assistants. *Am J Gastroenterol*, 102(1), 6-9. doi:10.1111/j.1572-0241.2006.00804.x
- Record, J. C., McCally, M., Schweitzer, S. O., Blomquist, R. M., & Berger, B. D. (1980). New health professions after a decade and a half: delegation, productivity and costs in primary care. *J Health Polit Policy Law*, 5(3), 470-497.
- Riley, L., Litsch, T., & Cook, M. L. (2016). Preparing the next generation of health care providers: A description and comparison of nurse practitioner and medical student tuition in 2015. *J Am Assoc Nurse Pract*, 28(1), 6-10. doi:10.1002/2327-6924.12332
- Rose, S. L., Sanghani, R. M., Schmidt, C., Karafa, M. T., Kodish, E., & Chisolm, G. M. (2015). Gender Differences in Physicians' Financial Ties to Industry: A Study of National Disclosure Data. *PLoS One*, 10(6), e0129197. doi:10.1371/journal.pone.0129197

- Roumie, C. L., Halasa, N. B., Edwards, K. M., Zhu, Y., Dittus, R. S., & Griffin, M. R. (2005). Differences in antibiotic prescribing among physicians, residents, and nonphysician clinicians. *Am J Med*, *118*(6), 641-648. doi:10.1016/j.amjmed.2005.02.013
- Rudy, E. B., Davidson, L. J., Daly, B., Clochesy, J. M., Sereika, S., Baldisseri, M., Ryan, C. (1998). Care activities and outcomes of patients cared for by acute care nurse practitioners, physician assistants, and resident physicians: a comparison. *Am J Crit Care*, *7*(4), 267-281.
- Salsberg, E. S. (2015). Is the Physician Shortage Real? Implications for the Recommendations of the Institute of Medicine Committee on the Governance and Financing of Graduate Medical Education. *Acad Med*, *90*(9), 1210-1214. doi:10.1097/ACM.0000000000000837
- Sargent, M., Hooker, R. S., & Cooper, R. A. (2011). Gaps in the supply of physicians, advance practice nurses, and physician assistants. *J Am Coll Surg*, *212*(6), 991-999. doi:10.1016/j.jamcollsurg.2011.03.005
- Shanafelt, T. D., Hasan, O., Dyrbye, L. N., Sinsky, C., Satele, D., Sloan, J., & West, C. P. (2015). Changes in Burnout and Satisfaction With Work-Life Balance in Physicians and the General US Working Population Between 2011 and 2014. *Mayo Clin Proc*, *90*(12), 1600-1613. doi:10.1016/j.mayocp.2015.08.023
- Silberman, P., Estes, E. H., Jr., Dubay, K. L., & Holmes, M. (2007). Weathering the practitioner workforce shortage. *N C Med J*, *68*(3), 159-168.
- Simmons, H. J., 3rd, & Rapoport, D. H. (2007). How will physician extenders affect our need for physicians? *Health Care Strateg Manage*, *25*(11), 4-5.
- Solomon, D. H., Fraenkel, L., Lu, B., Brown, E., Tsao, P., Losina, E., Bitton, A. (2015). Comparison of Care Provided in Practices With Nurse Practitioners and Physician Assistants Versus Subspecialist Physicians Only: A Cohort Study of Rheumatoid Arthritis. *Arthritis Care Res (Hoboken)*, *67*(12), 1664-1670. doi:10.1002/acr.22643
- Sommers, A. S., Paradise, J., & Miller, C. (2011). Physician willingness and resources to serve more Medicaid patients: perspectives from primary care physicians. *Medicare Medicaid Res Rev*, *1*(2). doi:10.5600/mmrr.001.02.a01
- Stewart, A., & Catanzaro, R. (2005). Can physician assistants be effective in the UK? *Clin Med (Lond)*, *5*(4), 344-348.
- Subramanian, U., Kerr, E. A., Klamerus, M. L., Zikmund-Fisher, B. J., Holleman, R. G., & Hofer, T. P. (2009). Treatment decisions for complex patients: differences between primary care physicians and midlevel providers. *Am J Manag Care*, *15*(6), 373-380.
- Tran, N., & Dilley, J. A. (2010). Achieving a high response rate with a health care provider survey, Washington State, 2006. *Prev Chronic Dis*, *7*(5), A111.
- Waddimba, A. C., Scribani, M., Krupa, N., May, J. J., & Jenkins, P. (2016). Frequency of satisfaction and dissatisfaction with practice among rural-based, group-employed physicians and non-physician practitioners. *BMC Health Serv Res*, *16*(1), 613. doi:10.1186/s12913-016-1777-8
- Ward, W. T., Eberson, C. P., Otis, S. A., Wallace, C. D., Wellisch, M., Warman, J. R., Richards, B. S. (2008). Pediatric orthopaedic practice management: the role of midlevel providers. *J Pediatr Orthop*, *28*(8), 795-798. doi:10.1097/BPO.0b013e318183249f

White, G. L., Jr., & Davis, A. M. (1999). Physician assistants as partners in physician-directed care. *South Med J*, 92(10), 956-960.

Wilson, I. B., Landon, B. E., Hirschhorn, L. R., McInnes, K., Ding, L., Marsden, P. V., & Cleary, P. D. (2005). Quality of HIV care provided by nurse practitioners, physician assistants, and physicians. *Ann Intern Med*, 143(10), 729-736.

Yang, B. K., Trinkoff, A. M., Zito, J. M., Burcu, M., Safer, D. J., Storr, C. L., Idzik, S. (2017). Nurse Practitioner Independent Practice Authority and Mental Health Service Delivery in U.S. Community Health Centers. *Psychiatr Serv*, appips201600495.  
doi:10.1176/appi.ps.201600495

# Primary Care

- Abrams, M., Nuzum, R., Mika, S., & Lawlor, G. (2011). *Realizing Health Reform's Potential: How the Affordable Care Act Will Strengthen Primary Care and Benefit Patients, Providers, and Payers.* Retrieved from <http://www.commonwealthfund.org/publications/issue-briefs/2011/jan/strengthen-primary-care>
- Allen, S. M., Ballweg, R. A., Cosgrove, E. M., Engle, K. A., Robinson, L. R., Rosenblatt, R. A., Wenrich, M. D. (2013). Challenges and opportunities in building a sustainable rural primary care workforce in alignment with the Affordable Care Act: the WWAMI program as a case study. *Acad Med*, 88(12), 1862-1869. doi:10.1097/ACM.0000000000000008
- Atwater, A., Bednar, S., Hassman, D., & Khouri, J. (2008). Nurse practitioners and physician assistants in primary care. *Dis Mon*, 54(11), 728-744. doi:10.1016/j.dismonth.2008.08.002
- Auerbach, D. I., Chen, P. G., Friedberg, M. W., Reid, R., Lau, C., Buerhaus, P. I., & Mehrotra, A. (2013). Nurse-managed health centers and patient-centered medical homes could mitigate expected primary care physician shortage. *Health Aff (Millwood)*, 32(11), 1933-1941. doi:10.1377/hlthaff.2013.0596
- Bowen, S., L.A., H., & Botting, I. (2015). *Implementation handbook: Introducing Physician Assistants Into Primary Care Settings and Family Medicine Practice.* Retrieved from Winnipeg, Manitoba, Canada: [www.wrha.mb.ca/professionals/familyphysicians/index.php](http://www.wrha.mb.ca/professionals/familyphysicians/index.php)
- Coffman, J., Geyn, I., & Himmerick, K. A. (2017). *California's Primary Care Workforce: Current Supply, Characteristics, and Pipeline of Trainees.* Retrieved from <https://healthforce.ucsf.edu/publications/california-s-primary-care-workforce-current-supply-characteristics-and-pipeline>
- Coplan, B., Cawley, J., & Stoehr, J. (2013). Physician assistants in primary care: trends and characteristics. *Ann Fam Med*, 11(1), 75-79. doi:10.1370/afm.1432
- de Lusignan, S., McGovern, A. P., Tahir, M. A., Hassan, S., Jones, S., Halter, M., Drennan, V. M. (2016). Physician Associate and General Practitioner Consultations: A Comparative Observational Video Study. *PLoS One*, 11(8), e0160902. doi:10.1371/journal.pone.0160902
- Drennan, V. M., Gabe, J., Halter, M., de Lusignan, S., & Levenson, R. (2017). Physician associates in primary health care in England: A challenge to professional boundaries? *Soc Sci Med*, 181, 9-16. doi:10.1016/j.socscimed.2017.03.045
- Ekwo, E., Daniels, M., Oliver, D., & Fethke, C. (1979). The physician assistant in rural primary care practices: physician assistant activities and physician supervision at satellite and non-satellite practice sites. *Med Care*, 17(8), 787-795.
- Essary, A. C., Green, E. P., & Gans, D. N. (2016). Compensation and Production in Family Medicine by Practice Ownership. *Health Services Research and Managerial Epidemiology*, 3(0). doi:10.1177/2333392815624111
- Everett, C. M., Morgan, P., & Jackson, G. L. (2016). Primary care physician assistant and advance practice nurses roles: Patient healthcare utilization, unmet need, and satisfaction. *Healthcare*. doi:10.1016/j.hjdsi.2016.03.005
- Fowkes, V., Cawley, J. F., Herlihy, N., & Cuadrado, R. R. (1996). Evaluating the potential of international medical graduates as physician assistants in primary care. *Acad Med*, 71(8), 886-892.

- Friedberg, M. W., Coltin, K. L., Safran, D. G., Dresser, M., & Schneider, E. C. (2010). Medical home capabilities of primary care practices that serve sociodemographically vulnerable neighborhoods. *Arch Intern Med*, 170(11), 938-944. doi:10.1001/archinternmed.2010.110
- Glicken, A. D., & Miller, A. A. (2013). Physician assistants: from pipeline to practice. *Acad Med*, 88(12), 1883-1889. doi:10.1097/ACM.0000000000000009
- Goodyear-Smith, F., Gauld, R., Cumming, J., O'Keefe, B., Pert, H., & McCormack, P. (2012). International learning on increasing the value and effectiveness of primary care (I LIVE PC) New Zealand. *J Am Board Fam Med*, 25 Suppl 1, S39-44. doi:10.3122/jabfm.2012.02.110198
- Graham, N. a. R. (2008). Access Transformed - Building a primary care workforce for the 21st century. Retrieved from <http://www.graham-center.org/content/dam/rgc/documents/publications-reports/monographs-books/Access%20Transformed.pdf>
- Graves, J. A., Mishra, P., Dittus, R. S., Parikh, R., Perloff, J., & Buerhaus, P. I. (2016). Role of Geography and Nurse Practitioner Scope-of-Practice in Efforts to Expand Primary Care System Capacity: Health Reform and the Primary Care Workforce. *Med Care*, 54(1), 81-89. doi:10.1097/MLR.0000000000000454
- Halter, M., Drennan, V. M., Joly, L. M., Gabe, J., Gage, H., & de Lusignan, S. (2017). Patients' experiences of consultations with physician associates in primary care in England: A qualitative study. *Health Expect*. doi:10.1111/hex.12542
- Fraher, E. P., Morgan, P., & Johnson, A. (2016). Specialty distribution of physician assistants and nurse practitioners in North Carolina. *JAAPA*, 29(4), 38-43. doi:10.1097/01.JAA.0000481402.98969.07
- Hing, E. (2017). *Characteristics of Primary Care Physicians in Patient-centered Medical Home Practices: United States, 2013. National Health State Report*, 101, 1-9.
- Hing, E., Hooker, R. S., & Ashman, J. J. (2011). Primary health care in community health centers and comparison with office-based practice. *J Community Health*, 36(3), 406-413. doi:10.1007/s10900-010-9322-x
- Hing, E., & Uddin, S. (2010). Visits to primary care delivery sites: United States, 2008. *NCHS Data Brief*(47), 1-8.
- Hooker, R. S., Cawley, J. F., Sanchez, G. V., Patterson, D. G., & Joyce, P. (2017). Commentaries on health services research. *Journal of the American Academy of Physician Assistants*, 30(6), 52-54. doi:10.1097/01.JAA.0000516360.19374.5b
- Hooker, R. S., & McCaig, L. F. (2001). Use Of Physician Assistants And Nurse Practitioners In Primary Care, 1995-1999. *Health Affairs*, 20(4), 231-238. doi:10.1377/hlthaff.20.4.231
- Hooker, R. S., Cawley, J. F., & Leinweber, W. (2010). Career flexibility of physician assistants and the potential for more primary care. *Health Aff (Millwood)*, 29(5), 880-886. doi:10.1377/hlthaff.2009.0884
- Iglehart, J. K. (2012). Primary care update--light at the end of the tunnel? *N Engl J Med*, 366(23), 2144-2146. doi:10.1056/NEJMp1205537

- Jacobson, P. D., & Jazowski, S. A. (2011). Physicians, the Affordable Care Act, and primary care: disruptive change or business as usual? *J Gen Intern Med*, 26(8), 934-937. doi:10.1007/s11606-011-1695-8
- King, A., Wolfe, G., Healy, S., Lineham, T., Harrison, S., Ponzio, C., & Armstrong, D. (2006). Exploring methods to extend the reach of diabetes specialist expertise into primary care clinics. *Diabetes Educ*, 32(4), 525-530. doi:10.1177/0145721706290831
- Liaw, W. R., Jetty, A., Petterson, S. M., Peterson, L. E., & Bazemore, A. W. (2016). Solo and Small Practices: A Vital, Diverse Part of Primary Care. *Ann Fam Med*, 14(1), 8-15. doi:10.1370/afm.1839
- Liu, H., Robbins, M., Mehrotra, A., Auerbach, D., Robinson, B. E., Cromwell, L. F., & Roblin, D. W. (2016). The Impact of Using Mid-level Providers in Face-to-Face Primary Care on Health Care Utilization. *MedCare*. doi:10.1097/MLR.0000000000000590
- Marzucco, J., Mancini, M. E., & Dehn, R. W. (2016). Commentaries on health services research. *JAAPA*, 29(4), 1-2. doi:10.1097/01.JAA.0000481416.34409.de
- Morgan, P., Everett, C. M., Humeniuk, K. M., & Valentin, V. L. (2016). Physician assistant specialty choice: Distribution, salaries, and comparison with physicians. *JAAPA*, 29(7), 46-52. doi:10.1097/01.JAA.0000484301.35696.16
- Morgan, P., Everett, C. M., Smith, V. A., Woolson, S., Edelman, D., Hendrix, C. C., Jackson, G. L. (2017). Factors Associated With Having a Physician, Nurse Practitioner, or Physician Assistant as Primary Care Provider for Veterans With Diabetes Mellitus. *Inquiry*, 54, 46958017712762. doi:10.1177/0046958017712762
- Morgan, P., Himmerick, K. A., Leach, B., Dieter, P., & Everett, C. (2016). Scarcity of Primary Care Positions May Divert Physician Assistants Into Specialty Practice. *Med Care Res Rev*. doi:10.1177/1077558715627555
- Morgan, P. A., & Hooker, R. S. (2010). Choice of specialties among physician assistants in the United States. *Health Aff (Millwood)*, 29(5), 887-892. doi:10.1377/hlthaff.2008.0835
- Ohman-Strickland, P. A., Orzano, A. J., Hudson, S. V., Solberg, L. I., DiCiccio-Bloom, B., O'Malley, D., Crabtree, B. F. (2008). Quality of diabetes care in family medicine practices: influence of nurse-practitioners and physician's assistants. *Ann Fam Med*, 6(1), 14-22. doi:10.1370/afm.758
- Osborn, R., Squires, D., Doty, M. M., Sarnak, D. O., & Schneider, E. C. (2016). In New Survey Of Eleven Countries, US Adults Still Struggle With Access To And Affordability Of Health Care. *Health Aff (Millwood)*, 35(12), 2327-2336. doi:10.1377/hlthaff.2016.1088
- Park, M., Cherry, D., & Decker, S. L. (2011). Nurse practitioners, certified nurse midwives, and physician assistants in physician offices. *NCHS Data Brief*(69), 1-8.
- Pedersen, K. M., Andersen, J. S., & Sondergaard, J. (2012). General practice and primary health care in Denmark. *J Am Board Fam Med*, 25 Suppl 1, S34-38. doi:10.3122/jabfm.2012.02.110216
- Perloff, J., DesRoches, C. M., & Buerhaus, P. (2016). Comparing the Cost of Care Provided to Medicare Beneficiaries Assigned to Primary Care Nurse Practitioners and Physicians. *Health Serv Res*, 51(4), 1407-1423. doi:10.1111/1475-6773.12425

- Phillips, R. L., Jr. (2012). International learning on increasing the value and effectiveness of primary care (I LIVE PC). *J Am Board Fam Med*, 25 Suppl 1, S2-5. doi:10.3122/jabfm.2012.02.120005
- Poghosyan, L., Nannini, A., Stone, P. W., & Smaldone, A. (2013). Nurse practitioner organizational climate in primary care settings: implications for professional practice. *J Prof Nurs*, 29(6), 338-349. doi:10.1016/j.profnurs.2013.07.005
- Preston, R. P. (2008). Why We Need to Restore Primary Care Generalist Training as the Centerpiece of Federal Policy. *Academy Medicine*, 83(11), 993-995. doi:10.1097/ACM.0b013e318188ff2c
- PwC (2016). *ROI for primary care: Building the dream team*. Retrieved from <http://www.thehertelreport.com/wp-content/uploads/2016/11/pwc-hri-primary-care-roi.pdf>
- Riley, L., Litsch, T., & Cook, M. L. (2016). Preparing the next generation of health care providers: A description and comparison of nurse practitioner and medical student tuition in 2015. *J Am Assoc Nurse Pract*, 28(1), 6-10. doi:10.1002/2327-6924.12332
- Roblin, D. W., Howard, D. H., Becker, E. R., Adams, E. K., & Roberts, M. H. (2004). Use of midlevel practitioners to achieve labor cost savings in the primary care practice of an MCO. *Health Services Research*, 39(3), 607-625.
- Roblin, D. W., Howard, D. H., Junling, R., & Becker, E. R. (2011). An evaluation of the influence of primary care team functioning on the health of Medicare beneficiaries. *Med Care Res Rev*, 68(2), 177-201. doi:10.1177/1077558710374619
- Roland, M., Guthrie, B., & Thome, D. C. (2012). Primary medical care in the United kingdom. *J Am Board Fam Med*, 25 Suppl 1, S6-11. doi:10.3122/jabfm.2012.02.110200
- Shaheen, N. J., Crosby, M. A., O'Malley, M. S., Murray, S. C., Sandler, R. S., Galanko, J. A., Klenzak, J. S. (2000). The practices and attitudes of primary care nurse practitioners and physician assistants with respect to colorectal cancer screening. *Am J Gastroenterol*, 95(11), 3259-3265. doi:10.1111/j.1572-0241.2000.03262.x
- Skillman, S. M., Snyder, C. R., Frogner, B. K., & Patterson, D. G. (2016). The behavioral health workforce needed for integration with primary care: Information for health workforce planning. *Center for Health Workforce Studies*, 18.
- Spetz, J., Fraher, E., Li, Y., & Bates, T. (2015). How many nurse practitioners provide primary care? It depends on how you count them. *Med Care Res Rev*, 72(3), 359-375. doi:10.1177/1077558715579868
- Streeter, R. A., Zangaro, G. A., & Chattopadhyay, A. (2017). Perspectives: Using Results from HRSA's Health Workforce Simulation Model to Examine the Geography of Primary Care. *Health Serv Res*, 52 Suppl 1, 481-507. doi:10.1111/1475-6773.12663
- Strumpf, E., Levesque, J. F., Coyle, N., Hutchison, B., Barnes, M., & Wedel, R. J. (2012). Innovative and diverse strategies toward primary health care reform: lessons learned from the Canadian experience. *J Am Board Fam Med*, 25 Suppl 1, S27-33. doi:10.3122/jabfm.2012.02.110215
- van der Biezen, M., Derckx, E., Wensing, M., & Laurant, M. (2017). Factors influencing decision of general practitioners and managers to train and employ a nurse practitioner or physician assistant in primary care: a qualitative study. *BMC Fam Pract*, 18(1), 16. doi:10.1186/s12875-017-0587-3

van der Biezen, M., Schoonhoven, L., Wijers, N., van der Burgt, R., Wensing, M., & Laurant, M. (2016). Substitution of general practitioners by nurse practitioners in out-of-hours primary care: a quasi-experimental study. *J Adv Nurs*, 72(8), 1813-1824. doi:10.1111/jan.12954

Virani, S. S., Akeroyd, J. M., Ramsey, D. J., Chan, W. J., Frazier, L., Nasir, K., Petersen, L. A. (2016). Comparative effectiveness of outpatient cardiovascular disease and diabetes care delivery between advanced practice providers and physician providers in primary care: Implications for care under the Affordable Care Act. *Am Heart J*, 181, 74-82. doi:10.1016/j.ahj.2016.07.020

Willard-Grace, R., Hessler, D., Rogers, E., Dube, K., Bodenheimer, T., & Grumbach, K. (2014). Team structure and culture are associated with lower burnout in primary care. *J Am Board Fam Med*, 27(2), 229-238. doi:10.3122/jabfm.2014.02.130215

Wilson, J. F. (2008). Primary care delivery changes as nonphysician clinicians gain independence. *Ann Intern Med*, 149(8), 597-600.

Zimmerman, J. (1997). Nurse practitioners, physician assistants, and certified nurse-midwives: primary care providers in rural areas. *Prairie Rose*, 66(2), 8a-11a.

# Quality

- Abrams, M. K., Schor, E. L., & Schoenbaum, S. C. (2010). How Physician Practices Could Share Personnel and Resources to Support Medical Homes. *Health Affairs*, 29(6), 1194–1199.
- Addison, E. (2012). Safety Net Hospital Programs Improve Quality and Reduce Costs. Retrieved from National Association for Healthcare Quality: [www.NAHQ.org/jhq](http://www.NAHQ.org/jhq).
- Berenson, R. A., & Coughlin, T. A. (2011). *Success Factors in High Quality Low Cost Plans* Retrieved from [http://www.commonwealthfund.org/~media/files/publications/fund-report/2011/mar/1482\\_berenson\\_success\\_factors\\_five\\_plans\\_final\\_disclaimer.pdf](http://www.commonwealthfund.org/~media/files/publications/fund-report/2011/mar/1482_berenson_success_factors_five_plans_final_disclaimer.pdf)
- Bevis, L. C., Berg-Copas, G. M., Thomas, B. W., Vasquez, D. G., Wetta-Hall, R., Brake, D., Harrison, P. (2008). Outcomes of tube thoracostomies performed by advanced practice providers vs trauma surgeons. *Am J Crit Care*, 17(4), 357-363.
- Carzoli, R. P., Martinez-Cruz, M., Cuevas, L. L., Murphy, S., & Chiu, T. (1994). Comparison of neonatal nurse practitioners, physician assistants, and residents in the neonatal intensive care unit. *Pediatrics Adolescent Medicine*, 148(12), 1271-1276.
- Chadosh, J. (2008). *Improving the Quality of Health Care for Older Adults*. Retrieved from [http://www.rand.org/content/dam/rand/pubs/research\\_briefs/2008/RAND\\_RB9320.pdf](http://www.rand.org/content/dam/rand/pubs/research_briefs/2008/RAND_RB9320.pdf)
- Christmas, A. B., Reynolds, J., Hodges, S., Franklin, G. A., Miller, F. B., Richardson, J. D., & Rodriguez, J. L. (2005). Physician Extenders Impact Trauma Systems. *The Journal of Trauma: Injury, Infection, and Critical Care*, 58(5), 917-920. doi:10.1097/01.ta.0000162736.06947.e3
- Dodds, P. R. (2009). Utilizing a medical chain of responsibility. *Conn Med*, 73(1), 39-40.
- Fauteux, N. (2011). *The Potential of Interprofessional Collaborative Care to Improve Safety and Quality*. Retrieved from <http://www.rwjf.org/en/library/research/2011/09/cnf-implementing-the-future-of-nursing-report-part-two.html>
- Fox, D. M. (2010). Realizing and Allocating Savings From Improving Health Care Quality and Efficiency. *Preventing Chronic Disease*, 7(5), A99.
- Gidwani, R., Sinnott, P., Avoundjian, T., Lo, J., Asch, S. M., & Barnett, P. G. (2016). Inappropriate ordering of lumbar spine magnetic resonance imaging: are providers Choosing Wisely? *Am J Manag Care*, 22(2), e68-76.
- Glotzbecker, B. E., Yolin-Raley, D. S., DeAngelo, D. J., Stone, R. M., Soiffer, R. J., & Alyea, E. P., 3rd. (2013). Impact of physician assistants on the outcomes of patients with acute myelogenous leukemia receiving chemotherapy in an academic medical center. *J Oncol Pract*, 9(5), e228-233. doi:10.1200/JOP.2012.000841
- Gresenz, C. R., & Escarce, J. J. (2011). Spillover effects of community uninsurance on working-age adults and seniors: an instrumental variables analysis. *Med Care*, 49(9), e14-21. doi:10.1097/MLR.0b013e31822dc7f4
- Jha, A. K., Orav, E. J., & Epstein, A. M. (2011). Low--Quality, High--Cost Hospitals, Mainly in South, Care for Sharply Higher Shares of Elderly Black, Hispanic, and Medicaid Patients. *Health Affairs*, 30(10), 1904-1911.

- Kern, L. M., Edwards, A., & Kaushal, R. (2016). The Patient-Centered Medical Home and Associations With Health Care Quality and Utilization: A 5-Year Cohort Study. *Ann Intern Med*, 164(6), 395-405. doi:10.7326/M14-2633
- Kurtzman, E. T., Barnow, B. S., Johnson, J. E., Simmens, S. J., Infeld, D. L., & Mullan, F. (2017). Does the Regulatory Environment Affect Nurse Practitioners' Patterns of Practice or Quality of Care in Health Centers? *Health Serv Res*, 52 Suppl 1, 437-458. doi:10.1111/1475-6773.12643
- Laurant, M., Harmsen, M., Wollersheim, H., Grol, R., Faber, M., & Sibbald, B. (2009). The impact of nonphysician clinicians: do they improve the quality and cost-effectiveness of health care services? *Med Care Res Rev*, 66(6 Suppl), 36S-89S. doi:10.1177/1077558709346277
- Ledford, M. K., Lambrew, J. M., Rothman, D. J., & Podesta, J. D. (2008). *The Health Care Delivery System: A Blueprint for Reform*. Retrieved from <https://www.americanprogress.org/issues/healthcare/reports/2008/10/31/5129/the-health-care-delivery-system-a-blueprint-for-reform/>
- McCullough, J. S., Casey, M., Moscovice, I., & Prasad, S. (2010). The effect of health information technology on quality in U.S. hospitals. *Health Aff (Millwood)*, 29(4), 647-654. doi:10.1377/hlthaff.2010.0155
- McLean, T. R. (2002). Crossing the quality chasm: autonomous physician extenders will necessitate a shift to enterprise liability coverage for health care delivery. *Health Matrix Clevel*, 12(2), 239-295.
- Meyers, D. (2012). Introduction from the Agency for Healthcare Research and Quality. *J Am Board Fam Med*, 25 Suppl 1, S1. doi:10.3122/jabfm.2012.02.120023
- N.A. (2011). *A Community's Approach to Reducing Readmissions*. Retrieved from <http://www.rwjf.org/en/library/research/2011/09/lessons-learned-in-performance-measurement.html>
- Nabagiez, J. P., Shariff, M. A., Molloy, W. J., Demissie, S., & McGinn, J. T., Jr. (2016). Cost Analysis of Physician Assistant Home Visit Program to Reduce Readmissions After Cardiac Surgery. *Ann Thorac Surg*. doi:10.1016/j.athoracsur.2016.03.077
- Nestler, D. M., Fratzke, A. R., Church, C. J., Scanlan-Hanson, L., Sadosty, A. T., Halasy, M. P. & Hess, E. P. (2012). Effect of a physician assistant as triage liaison provider on patient throughput in an academic emergency department. *Acad Emerg Med*, 19(11), 1235-1241. doi:10.1111/acem.12010
- Nyberg, S. M., Waswick, W., Wynn, T., & Keuter, K. (2007). Midlevel providers in a Level I trauma service: experience at Wesley Medical Center. *J Trauma*, 63(1), 128-134. doi:10.1097/01.ta.0000221765.90190.73
- Ohman-Strickland, P. A., Orzano, A. J., Hudson, S. V., Solberg, L. I., DiCiccio-Bloom, B., O'Malley, D. & Crabtree, B. F. (2008). Quality of diabetes care in family medicine practices: influence of nurse-practitioners and physician's assistants. *Ann Fam Med*, 6(1), 14-22. doi:10.1370/afm.758
- Pape, H. C., & Pfeifer, R. (2009). Restricted duty hours for surgeons and impact on residents quality of life, education, and patient care: a literature review. *Patient Saf Surg*, 3(1), 3. doi:10.1186/1754-9493-3-3

- Press Ganey Associates, I. (2007). Physician's Office and Outpatient Pulse Report 2007. South Bend, IN.
- Reid, R. J., Fishman, P. A., Yu, O., Ross, T. R., Tufano, J. T., Soman, M. P., & Larson, E. B. (2009). Patient-centered medical home demonstration: a prospective, quasi-experimental, before and after evaluation. *Am J Manag Care*, 15(9), e71-87.
- Roblin, D. W., Howard, D. H., Junling, R., & Becker, E. R. (2011). An evaluation of the influence of primary care team functioning on the health of Medicare beneficiaries. *Med Care Res Rev*, 68(2), 177-201. doi:10.1177/1077558710374619
- Roland, M., Guthrie, B., & Thome, D. C. (2012). Primary medical care in the United kingdom. *J Am Board Fam Med*, 25 Suppl 1, S6-11. doi:10.3122/jabfm.2012.02.110200
- Ross, N., & Parle, J. (2008). Physician assistants: a UK perspective on clinical need, education and regulation. *The Clinical Teacher*, 5(1). doi:10.1111/j.1743-498X.2007.00181.x
- Salim, A., Teixeira, P., Chan, L., Oncel, D., Inaba, K., Brown, C., & Berne, T. V. (2007). Impact of the 80-Hour Workweek on Patient Care at a Level I Trauma Center. *JAMA*, 298(8), 708-714. doi:10.1001/archsurg.142.8.708
- Salyers, M. P., Bonfils, K. A., Luther, L., Firmin, R. L., White, D. A., Adams, E. L., & Rollins, A. L. (2016). The Relationship Between Professional Burnout and Quality and Safety in Healthcare: A Meta-Analysis. *J Gen Intern Med*. doi:10.1007/s11606-016-3886-9
- Shi, L., Lock, D. C., Lee, D. C., Lebrun-Harris, L. A., Chin, M. H., Chidambaran, P., & Sripathana, A. (2015). Patient-centered Medical Home capability and clinical performance in HRSA-supported health centers. *Med Care*, 53(5), 389-395. doi:10.1097/MLR.0000000000000331
- Song, Z., Safran, D. G., Landon, B. E., He, Y., Ellis, R. P., Mechanic, R. E. & Chernew, M. E. (2011). Health care spending and quality in year 1 of the alternative quality contract. *N Engl J Med*, 365(10), 909-918. doi:10.1056/NEJMsa1101416
- Timmermans, M. J., van Vught, A. J., Maassen, I. T., Draaijer, L., Hoofwijk, A. G., Spanier, M., & Laurant, M. G. (2016). Determinants of the sustained employment of physician assistants in hospitals: a qualitative study. *BMJ Open*, 6(11), e011949. doi:10.1136/bmjopen-2016-011949
- Timmons, E. (2016). Healthcare License Turf Wars: The Effects of Expanded Nurse Practitioner and Physician Assistant Scope of Practice on Medicaid Patient Access. *Mercatus Center: George Mason University*.
- Vaiana, M. E. (2010). *Improving the Quality of Care for Dementia*. Retrieved from Santa Monica, CA: [https://www.nesta.org.uk/sites/default/files/remember\\_me.pdf](https://www.nesta.org.uk/sites/default/files/remember_me.pdf)
- van Weel, C., Schers, H., & Timmermans, A. (2012). Health care in the Netherlands. *J Am Board Fam Med*, 25 Suppl 1, S12-17. doi:10.3122/jabfm.2012.02.110212
- Virani, S. S., Maddox, T. M., Chan, P. S., Tang, F., Akeroyd, J. M., Risch, S. A., & Petersen, L. A. (2015). Provider type and quality of outpatient cardiovascular disease care. *Journal of American College of Cardiology*, 66(16), 1803-1812.
- Volk, J., & Corlette, S. (2011). *The Role of Exchanges in Quality Improvement*

*An Analysis of the Options.* Retrieved from  
<http://www.rwjf.org/en/library/research/2011/09/the-role-of-exchanges-in-quality-improvement-.html>

Willigendael, E. M., Teijink, J. A., Bartelink, M. L., Langenberg, M., Welten, R. J., Buller, H. R., & Prins, M. H. (2005). Combined training of GPs and practice-assistants on peripheral arterial disease: positive effects after six months. *Fam Pract*, 22(5), 520-522. doi:10.1093/fampra/cmi041

Wilson, I. B., Landon, B. E., Hirschhorn, L. R., McInnes, K., Ding, L., Marsden, P. V., & Cleary, P. D. (2005). Quality of HIV care provided by nurse practitioners, physician assistants, and physicians. *Ann Intern Med*, 143(10), 729-736.

Wozniak, G. D. (1995). Physician utilization of non physician practitioners *AMA socioeconomic characteristics of medical practice 1995*.

Zuckerman, S. (2010). *Timely Analysis of Immediate Health Policy Issues*. Retrieved from  
<http://www.urban.org/research/publication/what-are-provisions-new-law-containing-costs-and-how-effective-will-they-be>

# Recertification, Certification and Accreditation

- AAFP Guidelines for PCMH Accreditation, (2011). Retrieved from  
[http://www.aafp.org/dam/AAFP/documents/practice\\_management/pcmh/initiatives/PCMJoint2011.pdf](http://www.aafp.org/dam/AAFP/documents/practice_management/pcmh/initiatives/PCMJoint2011.pdf)
- Carpenter, D. (2006). Perspectives on the physician assistant specialty credentialing debate. Education, not certification. *JAAPA, 19*(8), 16, 19-20.
- Estes, E. H., Jr., & Carter, R. D. (2005). Accommodating a new medical profession: the history of physician assistant regulatory legislation in North Carolina. *NC Med J, 66*(2), 103-107.
- Flexibility as a hallmark of the PA profession: the case against specialty certification, HP-3200.4.2 C.F.R. (2012).
- Grabenkort, W. R., Meissen, H. H., Gregg, S. R., & Coopersmith, C. M. (2017). Acute Care Nurse Practitioners and Physician Assistants in Critical Care: Transforming Education and Practice. *Crit Care Med, 45*(7), 1111-1114. doi:10.1097/CCM.0000000000002536
- Larson, E. H., & Hart, L. G. (2007). Growth and change in the physician assistant workforce in the United States, 1967-2000. *J Allied Health, 36*(3), 121-130.
- Lipner, R. S., Young, A., Chaudhry, H. J., Duhigg, L. M., & Papadakis, M. A. (2016). Specialty Certification Status, Performance Ratings, and Disciplinary Actions of Internal Medicine Residents. *Acad Med, 91*(3), 376-381. doi:10.1097/ACM.0000000000001055
- Mathur, M., Rampersad, A., Howard, K., & Goldman, G. M. (2005). Physician assistants as physician extenders in the pediatric intensive care unit setting-A 5-year experience. *Pediatr Crit Care Med, 6*(1), 14-19. doi:10.1097/01.PCC.0000149133.50687.A1
- Nuckols, T. K., Bhattacharya, J., Wolman, D. M., Ulmer, C., & Escarce, J. J. (2009). Cost implications of reduced work hours and workloads for resident physicians. *N Engl J Med, 360*(21), 2202-2215. doi:10.1056/NEJMsa0810251
- Rosenberg, S. M., Rosenthal, D. A., Rajan, D. K., Millward, S. F., Baum, R. A., & Silberzweig, J. E. (2008). Position statement: the role of physician assistants in interventional radiology. *J Vasc Interv Radiol, 19*(12), 1685-1689. doi:10.1016/j.jvir.2008.09.004
- Sadler, A. M., Jr., & Davis, A. (2017). How PAs became licensed to practice in the United States. *JAAPA, 30*(7), 46-49. doi:10.1097/01.JAA.0000520540.23452.06
- Sharp, L. K., Bashook, P. G., Lipsky, M. S., & Horowitz, S. D. M., S.H. (2002). Specialty Board Certification and the Clinical Outcomes- The Missing Link. *Academic Medicine, 77*(6).
- Danielsen, R. D. (2016). PA Recertification Proposal: Reform or Reaction? *The Journal of Family Practice, 26*(2), 9-10,12.
- NCCPA. (2015). Re-examining re-certification for the PA profession. Retrieved from  
<http://www.nccpa.net/Uploads/docs/PANREModelWhitePaper.pdf>

NCCPA. (2016). No further changes to PANRE and the recertification process. Retrieved from <https://www.nccpa.net/panre-model>

Pickard, T. (2016). Turning point--Where are we trying to go? *JAAPA*, 29(4), 1-3.  
doi:10.1097/01.JAA.0000481748.00164.38

Reed, H. (2016). Unraveling the recertification conundrum. *JAAPA*, 29(3), 14, 16.  
doi:10.1097/01.JAA.0000480574.70379.0e

Sadler, A. M., Jr., & Davis, A. (2017). How PAs became licensed to practice in the United States. *JAAPA*, 30(7), 46-49. doi:10.1097/01.JAA.0000520540.23452.06

Sharp, L. K., Bashook, P. G., Lipsky, M. S., & Horowitz, S. D. M., S.H. (2002). Specialty Board Certification and the Clinical Outcomes- The Missing Link. *Academic Medicine*, 77(6).

# Reimbursement

Arrow, K. J. (1963). Uncertainty and the welfare economics of medical care. *The American Economic Review*, 53(5), 941-973.

AAPA. (2016). *PAs and practice ownership*. Retrieved from Alexandria, VA:  
<https://www.aapa.org/WorkArea/DownloadAsset.aspx?id=6442451343>

Desai, T., Ali, S., Fang, X., Thompson, W., Jawa, P., & Vachharajani, T. (2016). Equal work for unequal pay: the gender reimbursement gap for healthcare providers in the United States. *Postgrad Med J*, 92(1092), 571-575. doi:10.1136/postgradmedj-2016-134094

Eibner, C. (2008). *Is the Economic Burden of Providing Health Insurance Greater for Small Firms Than for Large Firms?* Retrieved from  
[http://www.rand.org/pubs/research\\_briefs/RB9340/index1.html](http://www.rand.org/pubs/research_briefs/RB9340/index1.html)

Goldman, D. P., Geoffrey F. Joyce, Pinar Karaca-Mandic, William B. Vogt, Eric Sun, Anupam B. Jena, & Zheng, Y. (2009). Prescription Drug Cost Sharing: A Powerful Policy Lever to Use with Care. Santa Monica, CA: RAND Corporation.

Hammon, M., & Hammon, W. E. (2005). Properly billing for "incident to" clinical services/treatments provided by auxiliary staff. *J Okla State Med Assoc*, 98(4), 159-160.

Merlis, M. (2010). Paying Physicians For Medicare Services. Retrieved from  
<http://www.rwjf.org/en/library/research/2010/12/paying-physicians-for-medicare-services.html>

Sinsky, C., Colligan, L., Li, L., Prgomet, M., Reynolds, S., Goeders, L., & Blike, G. (2016). Allocation of Physician Time in Ambulatory Practice: A Time and Motion Study in 4 Specialties. *Ann Intern Med*. doi:10.7326/M16-0961

Coldiron, B., & Ratnarathorn, M. (2014). Scope of physician procedures independently billed by mid-level providers in the office setting. *JAMA Dermatol*, 150(11), 1153-1159.  
doi:10.1001/jamadermatol.2014.1773

Goodyear-Smith, F., Gauld, R., Cumming, J., O'Keefe, B., Pert, H., & McCormack, P. (2012). International learning on increasing the value and effectiveness of primary care (I LIVE PC) New Zealand. *J Am Board Fam Med*, 25 Suppl 1, S39-44. doi:10.3122/jabfm.2012.02.110198

Levy, C., Palat, S. I., & Kramer, A. M. (2007). Physician practice patterns in nursing homes. *J Am Med Dir Assoc*, 8(9), 558-567. doi:10.1016/j.jamda.2007.06.015

Shields, M. C., Patel, P. H., Manning, M., & Sacks, L. (2011). A model for integrating independent physicians into accountable care organizations. *Health Aff (Millwood)*, 30(1), 161-172.  
doi:10.1377/hlthaff.2010.0824

Strumpf, E., Levesque, J. F., Coyle, N., Hutchison, B., Barnes, M., & Wedel, R. J. (2012). Innovative and diverse strategies toward primary health care reform: lessons learned from the Canadian experience. *J Am Board Fam Med*, 25 Suppl 1, S27-33. doi:10.3122/jabfm.2012.02.110215

Intrator, O., Feng, Z., Mor, V., Gifford, D., Bourbonniere, M., & Zinn, J. (2005). The employment of nurse practitioners and physician assistants in U.S. nursing homes. *Gerontologist*, 45(4), 486-495.

Song, Z., Safran, D. G., Landon, B. E., He, Y., Ellis, R. P., Mechanic, R. E., & Chernew, M. E. (2011). Health care spending and quality in year 1 of the alternative quality contract. *N Engl J Med*, 365(10), 909-918. doi:10.1056/NEJMsa1101416

# Rural

- Allen, S. M., Ballweg, R. A., Cosgrove, E. M., Engle, K. A., Robinson, L. R., Rosenblatt, R. A., & Wenrich, M. D. (2013). Challenges and opportunities in building a sustainable rural primary care workforce in alignment with the Affordable Care Act: the WWAMI program as a case study. *Acad Med, 88*(12), 1862-1869. doi:10.1097/ACM.0000000000000008
- Barker, L., Crespo, R., Shrewsbury, M., Gerzoff, R. B., Cornelius-Averhart, D., & Denham, S. (2010). Residence in a Distressed County in Appalachia as a Risk Factor for Diabetes, Behavioral Risk Factor Surveillance System, 2006-2007. *Preventing Chronic Disease*.
- Braverman, P., & Egerter, S. (2008). *Overcoming Obstacles to Health*. Retrieved from <http://www.rwjf.org/en/library/research/2008/02/overcoming-obstacles-to-health.html>
- Allen, S. M., Ballweg, R. A., Cosgrove, E. M., Engle, K. A., Robinson, L. R., Rosenblatt, R. A., & Wenrich, M. D. (2013). Challenges and opportunities in building a sustainable rural primary care workforce in alignment with the Affordable Care Act: the WWAMI program as a case study. *Acad Med, 88*(12), 1862-1869. doi:10.1097/ACM.0000000000000008
- Camargo, C. A., Jr., Ginde, A. A., Singer, A. H., Espinola, J. A., Sullivan, A. F., Pearson, J. F., & Singer, A. J. (2008). Assessment of emergency physician workforce needs in the United States, 2005. *Acad Emerg Med, 15*(12), 1317-1320. doi:10.1111/j.1553-2712.2008.00264.x
- Ekwo, E., Daniels, M., Oliver, D., & Fethke, C. (1979). The physician assistant in rural primary care practices: physician assistant activities and physician supervision at satellite and non-satellite practice sites. *Med Care, 17*(8), 787-795.
- Evans, T. C., Wick, K. H., Brock, D. M., Schaad, D. C., & Ballweg, R. (2006). Academic degrees and clinical practice characteristics: the University of Washington physician assistant program: 1969-2000. *J Rural Health, 22*(3), 212-219. doi:10.1111/j.1748-0361.2006.00034.x
- Eyal, N., Cancedda, C., Kyamanywa, P., & Hurst, S. A. (2015). Non-physician Clinicians in Sub-Saharan Africa and the Evolving Role of Physicians. *Int J Health Policy Manag, 5*(3), 149-153. doi:10.15171/ijhpm.2015.215
- Filipova, A. A. (2014). Factors influencing the satisfaction of rural physician assistants: a cross-sectional study. *J Allied Health, 43*(1), 22-31.
- Fiset, L. (2016). DENTEX: The emergence of dental therapists in the United States. *J AAPA, 29*(4), 1-5. doi:10.1097/01.JAA.0000481406.73420.12
- Flanders, G. (1999). Rural health care: good for the economy? *State Legislation, 25*(6), 32-34.
- Graves, J. A., Mishra, P., Dittus, R. S., Parikh, R., Perloff, J., & Buerhaus, P. I. (2016). Role of Geography and Nurse Practitioner Scope-of-Practice in Efforts to Expand Primary Care System Capacity: Health Reform and the Primary Care Workforce. *Med Care, 54*(1), 81-89. doi:10.1097/MLR.0000000000000454
- Hartmann, M., & Graziadei, J. (2017). Rural Health Care: Thirty Miles at Sea — Providing Consistent Care in an Inconsistent Environment. Retrieved from <http://catalyst.nejm.org/rural-health-care-thirty-miles-sea-consistent-care/>

- Hing, E., & Uddin, S. (2011). Physician Assistant and Advance Practice Nurse Care in Hospital Outpatient Departments: United States, 2008–2009.
- Larson, E. H., Andrilla, H. A., Morrison, C., Ostergard, S., & Glicken, A. (2016). Which Physician Assistant Training Programs Produce Rural Physician Assistants? A National Study. *Seattle, WA: WWAMI Rural Health Research Center, University of Washington*.
- Larson, E. H., & Hart, L. G. (2007). Growth and change in the physician assistant workforce in the United States, 1967-2000. *J Allied Health, 36*(3), 121-130.
- Larson, E. H., Andrilla, H. A., Coulthard, C., & Spetz, J. (2016). How Could Nurse Practitioners and Physician Assistants Be Deployed to Provide Rural Primary Care? *Rural Health Research Gateway*.
- Liaw, W. R., Jetty, A., Petterson, S. M., Peterson, L. E., & Bazemore, A. W. (2016). Solo and Small Practices: A Vital, Diverse Part of Primary Care. *Ann Fam Med, 14*(1), 8-15.  
doi:10.1370/afm.1839
- Maggio, E. (2009). Rural Hospitals Struggle to Attract Patients and Remain Viable: Fact Sheet (pp. 2): RAND Corporation.
- Modernizing Rural Health Care: Coverage, quality and innovation. (2011). Retrieved from <http://www.unitedhealthgroup.com/~media/UHG/PDF/2011/UNH-Working-Paper-6.ashx?la=en>
- Nelson, S. C., & Hooker, R. S. (2016). Physician Assistants and Nurse Practitioners in Rural Washington Emergency Departments. *J Physician Assist Educ, 27*(2), 56-62.  
doi:10.1097/JPA.0000000000000074
- O'Connor, T. M., & Hooker, R. S. (2007). Extending rural and remote medicine with a new type of health worker: physician assistants. *Aust J Rural Health, 15*(6), 346-351. doi:10.1111/j.1440-1584.2007.00926.x
- Schroeder, S. (2017). Rural and Urban Utilization of the Emergency Department for Mental Health and Substance Abuse. *Rural Health Reform Policy RESEARCH CENTER*.
- Staiger, D. O., Marshall, S. M., Goodman, D. C., Auerbach, D., & Buerhaus, P. (2016). Association between having a highly educated spouse and physician practice in rural underserved areas. *Journal of American Medical Association, 315*(9), 939-941. doi:10.1001/jama.2015.16972
- Tabor, J., Jennings, N., Kohler, L., Degnan, B., Eng, H., Campos-Outcalt, D., & Derksen, D. (2016). AzCRH 2015 Supply and Demand Study of Arizona Health Practitioners and Professionals. *THE UNIVERSITY OF ARIZONA CENTER FOR RURAL HEALTH REPORT*.
- Waddimba, A. C., Scribani, M., Krupa, N., May, J. J., & Jenkins, P. (2016). Frequency of satisfaction and dissatisfaction with practice among rural-based, group-employed physicians and non-physician practitioners. *BMC Health Serv Res, 16*(1), 613. doi:10.1186/s12913-016-1777-8
- Williams, J. D., Song, P. H., & Pink, G. H. (2015). Estimated cost of rural freestanding emergency departments. *Rural Health Research Gateway*.
- Zimmerman, J. (1997). Nurse practitioners, physician assistants, and certified nurse-midwives: primary care providers in rural areas. *Prairie Rose, 66*(2), 8a-11a.

# Scope of Practice

- Adamson, T. E. (1971). Critical issues in the use of physician associates and assistants. *Am J Public Health, 61*(9), 1765-1779.
- Ault, A. (2005). PAs make their mark in surgery. *OBGYN News*. doi:10.1016/S0029-7437(05)71044-2
- Committee, C. S. o. C. A. (2008). *Final report of findings*. Retrieved from <http://www.coloradohealthinstitute.org/key-issues/detail/health-care-workforce/collaborative-scopes-of-care-advisory-committee-final-report-of-findings>
- Coldiron, B., & Ratnarathorn, M. (2014). Scope of physician procedures independently billed by mid-level providers in the office setting. *JAMA Dermatol, 150*(11), 1153-1159. doi:10.1001/jamadermatol.2014.1773
- Dehn, R. W., Berkowitz, O., & Coombs, J. M. (2016). Commentaries on health services research. *JAAPA, 29*(12), 1-2. doi:10.1097/01.JAA.0000508209.40675.df
- Eibner, C., P., H., Ridgely, M. S., & McGlynn, E. A. (2009). *Controlling health care spending in Massachusetts: an analysis of options*. Retrieved from [http://www.rand.org/pubs/technical\\_reports/TR733.html](http://www.rand.org/pubs/technical_reports/TR733.html)
- J., C. (2007). Nurse practitioners and physician assistants: do you know the difference. *Medsurg Nursing, 16*(6), 404-407.
- Kartha, A., Restuccia, J. D., Burgess, J. F., Jr., Benzer, J., Glasgow, J., Hockenberry, J. & Kaboli, P. J. (2014). Nurse practitioner and physician assistant scope of practice in 118 acute care hospitals. *J Hosp Med, 9*(10), 615-620. doi:10.1002/jhm.2231
- Kurtzman, E. T., Barnow, B. S., Johnson, J. E., Simmens, S. J., Infeld, D. L., & Mullan, F. (2017). Does the Regulatory Environment Affect Nurse Practitioners' Patterns of Practice or Quality of Care in Health Centers? *Health Serv Res, 52 Suppl 1*, 437-458. doi:10.1111/1475-6773.12643
- Radix, S. M. (2016). Continuing to move the PA profession forward: AAPA's new guidelines for state regulation of PAs. *PA Professional, American Academy of Physician Assistants*, 8-9.
- Streeter, R. A., Zangaro, G. A., & Chattopadhyay, A. (2017). Perspectives: Using Results from HRSA's Health Workforce Simulation Model to Examine the Geography of Primary Care. *Health Serv Res, 52 Suppl 1*, 481-507. doi:10.1111/1475-6773.12663

# Six Key Elements

AAPA (2016). *The six key elements of a modern PA practice act*. Retrieved from Alexandria, VA:  
<https://www.aapa.org/WorkArea/DownloadAsset.aspx?id=628>

# Specialization

Dehn, R. W. (2009). Do PAs change specialties during their careers? *JAAPA*, 22(7).

Dozois, E. J., Holubar, S. D., Tsikitis, V. L., Malireddy, K., Cima, R. R., Farley, D. R., & Larson, D. W. (2009). Perceived impact of the 80-hour workweek: five years later. *J Surg Res*, 156(1), 3-15. doi:10.1016/j.jss.2009.02.003

Flexibility as a hallmark of the PA profession: the case against specialty certification, HP-3200.4.2 C.F.R. (2012).

Fraher, E. P., Morgan, P., & Johnson, A. (2016). Specialty distribution of physician assistants and nurse practitioners in North Carolina. *JAAPA*, 29(4), 38-43. doi:10.1097/01.JAA.0000481402.98969.07

Hauer, K. E., Durning, S. J., Kernan, W. N., Fagan, M. J., Mintz, M., O'Sullivan, P. S., & Schwartz, M. D. (2008). Factors associated with medical students' career choices regarding internal medicine. *JAMA*, 300(10), 1154-1164. doi:10.1001/jama.300.10.1154

Hing, E., & Schappert, S. M. (2012). Generalist and specialty physicians: supply and access, 2009-2010. *NCHS Data Brief*(105), 1-8.

Jones, P. E., & Cawley, J. F. (2009). Workweek restrictions and specialty-trained physician assistants: potential opportunities. *J Surg Educ*, 66(3), 152-157. doi:10.1016/j.jsurg.2009.03.033

King, A., Wolfe, G., Healy, S., Lineham, T., Harrison, S., Ponzio, C., & Armstrong, D. (2006). Exploring methods to extend the reach of diabetes specialist expertise into primary care clinics. *Diabetes Educ*, 32(4), 525-530. doi:10.1177/0145721706290831

Larson, E. B., Patterson, D. G., Garberson, L. A., & Andrilla, H. A. (2016). *Supply and Distribution of the Behavioral Health Workforce in Rural America*. Retrieved from <http://www.nccpa.net/Uploads/docs/2015StatisticalProfilebySpecialty.pdf>

Larson, E. H., & Hart, L. G. (2007). Growth and change in the physician assistant workforce in the United States, 1967-2000. *J Allied Health*, 36(3), 121-130.

Larson, E. H., Hart, L. G., & Ballweg, R. (2001). National estimates of physician assistant productivity. *J Allied Health*, 30(3), 146-152.

Morgan, P. A., Shah, N. D., Kaufman, J. S., & Albanese, M. A. (2008). Impact of physician assistant care on office visit resource use in the United States. *Health Serv Res*, 43(5 Pt 2), 1906-1922. doi:10.1111/j.1475-6773.2008.00874.x

Ray, K., Martsolf, G., Mehrotra, A., & Barnett, M. (2017). Trends in Visits to Specialist Physicians Involving Nurse Practitioners and Physician Assistants, 2001 to 2013. *JAMA Internal Medicine*.

Solomon, D. H., Fraenkel, L., Lu, B., Brown, E., Tsao, P., Losina, E., & Bitton, A. (2015). Comparison of Care Provided in Practices With Nurse Practitioners and Physician Assistants Versus Subspecialist Physicians Only: A Cohort Study of Rheumatoid Arthritis. *Arthritis Care Res (Hoboken)*, 67(12), 1664-1670. doi:10.1002/acr.22643

Warner, M. L., Maio, C., & Hudmon, K. S. (2013). Career patterns of physician assistants: a retrospective longitudinal study. *JAAPA*, 26(6), 44-48. doi:10.1097/01.jaa.0000430342.95024.1

# Supply and Demand

- Armitage, M., & Shepherd, S. (2005). A new professional in the healthcare workforce: role, training, assessment and regulation. *Clin Med (Lond)*, 5(4), 311-314.
- Auerbach, D. I., Chen, P. G., Friedberg, M. W., Reid, R., Lau, C., Buerhaus, P. I., & Mehrotra, A. (2013). Nurse-managed health centers and patient-centered medical homes could mitigate expected primary care physician shortage. *Health Aff (Millwood)*, 32(11), 1933-1941. doi:10.1377/hlthaff.2013.0596
- Camargo, C. A., Jr., Ginde, A. A., Singer, A. H., Espinola, J. A., Sullivan, A. F., Pearson, J. F., & Singer, A. J. (2008). Assessment of emergency physician workforce needs in the United States, 2005. *Acad Emerg Med*, 15(12), 1317-1320. doi:10.1111/j.1553-2712.2008.00264.x
- Clark, C. (2011). *Implications of Health Care Reform Challenges of Demand and Supply*. Harvard Medical School.
- Cohn, S. M., Price, M. A., & Villarreal, C. L. (2009). Trauma and surgical critical care workforce in the United States: a severe surgeon shortage appears imminent. *J Am Coll Surg*, 209(4), 446-452 e444. doi:10.1016/j.jamcollsurg.2009.06.369
- Cooper, R. A. (2007). New directions for nurse practitioners and physician assistants in the era of physician shortages. *Acad Med*, 82(9), 827-828. doi:10.1097/ACM.0b013e31812f7939
- Coplan, B., Cawley, J., & Stoehr, J. (2013). Physician assistants in primary care: trends and characteristics. *Ann Fam Med*, 11(1), 75-79. doi:10.1370/afm.1432
- Dall, T., Chakrabarti, R., Lacobucci, W., Hansari, A., & West, T. (2017). *The Complexities of Physician Supply and Demand: Projections from 2015 to 2030*. Association of Medical Colleges. Retrieved from [https://aamc-black.global.ssl.fastly.net/production/media/filer\\_public/a5/c3/a5c3d565-14ec-48fb-974b-99fafaeecb00/aamc\\_projections\\_update\\_2017.pdf](https://aamc-black.global.ssl.fastly.net/production/media/filer_public/a5/c3/a5c3d565-14ec-48fb-974b-99fafaeecb00/aamc_projections_update_2017.pdf)
- Eyal, N., Cancedda, C., Kyamanywa, P., & Hurst, S. A. (2015). Non-physician Clinicians in Sub-Saharan Africa and the Evolving Role of Physicians. *Int J Health Policy Manag*, 5(3), 149-153. doi:10.15171/ijhpm.2015.215
- Fraher, E., Shadle, J., & Smith, L. (2003). *Trends in the supply of nurse practitioners and physician assistants in North Carolina, 1990-2001*. Retrieved from [http://www.shepscenter.unc.edu/workforce\\_product/trends-supply-nurse-practitioners-physician-assistants/](http://www.shepscenter.unc.edu/workforce_product/trends-supply-nurse-practitioners-physician-assistants/)
- Friedberg, M. W., Coltin, K. L., Safran, D. G., Dresser, M., & Schneider, E. C. (2010). Medical home capabilities of primary care practices that serve sociodemographically vulnerable neighborhoods. *Arch Intern Med*, 170(11), 938-944. doi:10.1001/archinternmed.2010.110
- Glicken, A. D. (2008). Excellence in physician assistant training through faculty development. *Acad Med*, 83(11), 1107-1110. doi:10.1097/ACM.0b013e3181890aa0
- Glicken, A. D., & Miller, A. A. (2013). Physician assistants: from pipeline to practice. *Acad Med*, 88(12), 1883-1889. doi:10.1097/ACM.0000000000000009

- Green, L. V., Savin, S., & Lu, Y. (2013). Primary care physician shortages could be eliminated through use of teams, nonphysicians, and electronic communication. *Health Aff (Millwood)*, 32(1), 11-19. doi:10.1377/hlthaff.2012.1086
- Grover, A., Orlowski, J. M., & Erikson, C. E. (2016). The Nation's Physician Workforce and Future Challenges. *Am J Med Sci*, 351(1), 11-19. doi:10.1016/j.amjms.2015.10.009
- Hormann, B. M., Bello, S. J., Hartman, A. R., & Jacobs, M. (2004). The effects of a full-time physician assistant staff on postoperative outcomes in the cardiothoracic ICU: 1-year results. *Surgical Physician Assistant*, 10(10), 38-41.
- Horowitz, P. K., Shemesh, A. A., & Horev, T. (2017). Is there a doctor in the house? Availability of Israeli physicians to the workforce. *Isr J Health Policy Res*, 6, 31. doi:10.1186/s13584-017-0157-0
- Iglehart, J. K. (2012). Primary care update--light at the end of the tunnel? *N Engl J Med*, 366(23), 2144-2146. doi:10.1056/NEJMp1205537
- Intrator, O., Feng, Z., Mor, V., Gifford, D., Bourbonniere, M., & Zinn, J. (2005). The employment of nurse practitioners and physician assistants in U.S. nursing homes. *Gerontologist*, 45(4), 486-495.
- Jones, P. E., & Hooker, R. S. (2001). Physician assistants in Texas. *Tex Med*, 97(1), 68-73.
- Kirton, O. C., Folcik, M. A., Ivy, M. E., Calabrese, R., Dobkin, E., Pepe, J., & Palter, M. (2007). Midlevel practitioner workforce analysis at a university-affiliated teaching hospital. *Arch Surg*, 142(4), 336-341. doi:10.1001/archsurg.142.4.336
- Larson, E. H., & Hart, L. G. (2007). Growth and change in the physician assistant workforce in the United States, 1967-2000. *J Allied Health*, 36(3), 121-130.
- Lieberman, D., & Lalwani, A. (1994). Physician-only and physician assistant statutes: a case of perceived but unfounded conflict. *J Am Med Womens Assoc*, 49(5), 146-149.
- McDaniel, M. J., Hildebrandt, C. A., & Russell, G. B. (2016). Central Application Service for Physician Assistants Ten-Year Data Report, 2002 to 2011. *J Physician Assist Educ*, 27(1), 17-23. doi:10.1097/JPA.0000000000000063
- Miller, W., Riehl, E., Napier, M., Barber, K., & Dabideen, H. (1998). Use of physician assistants as surgery/trauma house staff at an American College of Surgeons-verified Level II trauma center. *J Trauma*, 44(2), 372-376.
- Mitchell, C. C., Ashley, S. W., Zinner, M. J., & Moore, F. D., Jr. (2007). Predicting future staffing needs at teaching hospitals: use of an analytical program with multiple variables. *Arch Surg*, 142(4), 329-334. doi:10.1001/archsurg.142.4.329
- Nyberg, S. M., Keuter, K. R., Berg, G. M., Helton, A. M., & Johnston, A. D. (2010). Acceptance of physician assistants and nurse practitioners in trauma centers. *JAAPA*, 23(1), 35-37, 41.
- Park, M., Cherry, D., & Decker, S. L. (2011). Nurse practitioners, certified nurse midwives, and physician assistants in physician offices. *NCHS Data Brief*(69), 1-8.
- Pedersen, D. M., Chappell, B., Elison, G., & Bunnell, R. (2008). The productivity of PAs, APRNs, and physicians in Utah. *JAAPA*, 21(1), 42-44, 47.

- Ricketts, T. C., Adamson, W. T., Fraher, E. P., Knapton, A., Geiger, J. D., Abdullah, F., & Klein, M. D. (2016). Future Supply of Pediatric Surgeons: Analytical Study of the Current and Projected Supply of Pediatric Surgeons in the Context of a Rapidly Changing Process for Specialty and Subspecialty Training. *Ann Surg*. doi:10.1097/SLA.0000000000001810
- Salsberg, E., & Quigley, L. (2016). Are we facing a physician assistant surplus? *JAAPA*, 29(11), 40-44. doi:10.1097/01.JAA.0000502865.59093.ef
- Salsberg, E. S. (2015). Is the Physician Shortage Real? Implications for the Recommendations of the Institute of Medicine Committee on the Governance and Financing of Graduate Medical Education. *Acad Med*, 90(9), 1210-1214. doi:10.1097/ACM.0000000000000837
- Sargent, M., Hooker, R. S., & Cooper, R. A. (2011). Gaps in the supply of physicians, advance practice nurses, and physician assistants. *J Am Coll Surg*, 212(6), 991-999. doi:10.1016/j.jamcollsurg.2011.03.005
- Sekscenski, E. S., Sansom, S., Bazell, C., Salmon, M. E., & Mullan, F. (1994). State practice environments and the supply of physician assistants, nurse practitioners, and certified nurse-midwives. *N Engl J Med*, 331(19), 1266-1271. doi:10.1056/NEJM199411103311905
- Silberman, P., Estes, E. H., Jr., Dubay, K. L., & Holmes, M. (2007). Weathering the practitioner workforce shortage. *NC Med J*, 68(3), 159-168.
- Simmons, H. J., 3rd, & Rapoport, D. H. (2007). How will physician extenders affect our need for physicians? *Health Care Strateg Manage*, 25(11), 4-5.
- Stange, K. (2014). How does provider supply and regulation influence health care markets? Evidence from nurse practitioners and physician assistants. *J Health Econ*, 33, 1-27. doi:10.1016/j.jhealeco.2013.10.009
- Stewart, A., & Catanzaro, R. (2005). Can physician assistants be effective in the UK? *Clin Med (Lond)*, 5(4), 344-348.
- Strand, J., Short, N. M., & Korb, E. G. (2007). The roles and supply of nurse-midwives, nurse practitioners, and physician assistants in North Carolina. *NC Med J*, 68(3), 184-186.
- Sutton, J., Ramos, C., & Lucado, J. (2010). US physician assistant (PA) supply by state and county in 2009. *JAAPA*, 23(9), E5-E8.
- Tabor, J., Jennings, N., Kohler, L., Degnan, B., Eng, H., Campos-Outcalt, D., & Derksen, D. (2016). Supply and Demand Study of Arizona Health Practitioners and Professionals. *THE UNIVERSITY OF ARIZONA CENTER FOR RURAL HEALTH REPORT*.
- Troidle, L., & Smith, G. O. (2005). Can physician assistants fill the gaps in the nephrology workforce? *Nephrol News Issues*, 19(4), 65, 67.
- Ward, W. T., Eberson, C. P., Otis, S. A., Wallace, C. D., Wellisch, M., Warman, J. R., & Richards, B. S. (2008). Pediatric orthopaedic practice management: the role of midlevel providers. *J Pediatr Orthop*, 28(8), 795-798. doi:10.1097/BPO.0b013e318183249f

# Team Based Learning and Care

Adamson, T. E. (1971). Critical issues in the use of physician associates and assistants. *Am J Public Health, 61*(9), 1765-1779.

American Congress of Obstetricians and Gynecologists, T. F. o. C. P. (2016). *Collaboration in practice: implementing team-based care*. Retrieved from Washington, DC:  
<http://www.acog.org/Resources-And-Publications/Task-Force-and-Work-Group-Reports/Collaboration-in-Practice-Implementing-Team-Based-Care>

Betts, K. R., O'Donoghue, A. C., Aikin, K. J., Kelly, B. J., & Boudewyns, V. (2016). Professional online community membership and participation among healthcare providers: An extension to nurse practitioners and physician assistants. *J Am Assoc Nurse Pract*. doi:10.1002/2327-6924.12383

Buch, K. E., Genovese, M. Y., Conigliaro, J. L., Nguyen, S. Q., Byrn, J. C., Novembre, C. L., & Divino, C. M. (2008). Non-physician practitioners' overall enhancement to a surgical resident's experience. *J Surg Educ, 65*(1), 50-53. doi:10.1016/j.jsurg.2007.07.002

Carroll, S., & Hagelow, G. (2010). *Systems of Care Coordination for Children: Lessons Learned Across State Models*. Retrieved from <http://www.commonwealthfund.org/publications/issue-briefs/2010/sep/systems-of-care-coordination-for-children>

Christmas, A. B., Reynolds, J., Hodges, S., Franklin, G. A., Miller, F. B., Richardson, J. D., & Rodriguez, J. L. (2005). Physician Extenders Impact Trauma Systems. *The Journal of Trauma: Injury, Infection, and Critical Care, 58*(5), 917-920. doi:10.1097/01.ta.0000162736.06947.e3

Choo, K. J., Arora, V. M., Barach, P., Johnson, J. K., & Farnan, J. M. (2014). How do supervising physicians decide to entrust residents with unsupervised tasks? A qualitative analysis. *J Hosp Med, 9*(3), 169-175. doi:10.1002/jhm.2150

Coulter, I., Jacobson, P., & Parker, L. E. (2000). Sharing the mantle of primary female care: physicians, nurse practitioners, and physician assistants. *J Am Med Womens Assoc, 55*(2), 100-103.

Evans, M. (2014). ACOs, other delivery reforms shift job roles at hospitals. *Modern Healthcare*.

Everett, C. M., Morgan, P., & Jackson, G. L. (2016). Primary care physician assistant and advance practice nurses roles: Patient healthcare utilization, unmet need, and satisfaction. *Healthcare*. doi:10.1016/j.hjdsi.2016.03.005

Fauteux, N. (2011). *The Potential of Interprofessional Collaborative Care to Improve Safety and Quality*. Retrieved from <http://www.rwjf.org/en/library/research/2011/09/cnf-implementing-the-future-of-nursing-report-part-two.html>

Green, L. V., Savin, S., & Lu, Y. (2013). Primary care physician shortages could be eliminated through use of teams, nonphysicians, and electronic communication. *Health Aff (Millwood), 32*(1), 11-19. doi:10.1377/hlthaff.2012.1086

Holt, N. (1998). "Confusion's masterpiece": the development of the physician assistant profession. *Bull Hist Med, 72*(2), 246-278.

Jecker, N. S. (2010). The ethics of substituting physician assistants, nurse practitioners, and residents for attending physicians. *Am J Bioeth, 10*(8), 11-13. doi:10.1080/15265161.2010.494459

Koh, H. K., & Sebelius, K. G. (2010). Promoting prevention through the Affordable Care Act. *N Engl J Med*, 363(14), 1296-1299. doi:10.1056/NEJMmp1008560

Lambrew, C. T., Dove, J. T., Friday, B. A., Lloyd Doherty, C., Nocero, M. A., Schott, C. R., & Wann, L. S. (2004). Working group 5: Innovative care team models and processes that might enhance efficiency and productivity. *Journal of the American College of Cardiology*, 44(2), 251-255. doi:10.1016/j.jacc.2004.05.024

Liu, C. M., Chien, C. W., Chou, P., Liu, J. H., Chen, V. T., Wei, J., & Lang, H. C. (2005). An analysis of job satisfaction among physician assistants in Taiwan. *Health Policy*, 73(1), 66-77. doi:10.1016/j.healthpol.2004.10.004

Mikhail, J., Millerz, W., & Wagner, J. (2009). Midlevel practitioner role evolution in an American College of Surgeons-verified trauma surgery service: the 23-year experience at Hurley Medical Center. *J Trauma Nurs*, 16(1), 33-40. doi:10.1097/01.JTN.0000348068.63970.dc

Nestler, D. M., Fratzke, A. R., Church, C. J., Scanlan-Hanson, L., Sadosty, A. T., Halasy, M. P. & Hess, E. P. (2012). Effect of a physician assistant as triage liaison provider on patient throughput in an academic emergency department. *Acad Emerg Med*, 19(11), 1235-1241. doi:10.1111/acem.12010

Ohman-Strickland, P. A., Orzano, A. J., Hudson, S. V., Solberg, L. I., DiCiccio-Bloom, B., O'Malley, D., & Crabtree, B. F. (2008). Quality of diabetes care in family medicine practices: influence of nurse-practitioners and physician's assistants. *Ann Fam Med*, 6(1), 14-22. doi:10.1370/afm.758

Ostbye, K.H., T., Krause, K. M., Pollak, K. I., Gradison, M., & Michener, J. L. (2009). Family Physicians as Team Leaders: "Time" to Share the Care. *CDC: Center for Disease Control and Prevention*, 6(2), A59.

Rattray, N. A., Damush, T. M., Luckhurst, C., Bauer-Martinez, C. J., Homoya, B. J., & Miech, E. J. (2017). Prime movers: Advanced practice professionals in the role of stroke coordinator. *J Am Assoc Nurse Pract*. doi:10.1002/2327-6924.12462

Resnick, A. S., Todd, B. A., Mullen, J. L., & Morris, J. B. (2006). How do surgical residents and non-physician practitioners play together in the sandbox? *Curr Surg*, 63(2), 155-164. doi:10.1016/j.cursur.2005.12.009

Rick, T. J., & Ballweg, R. (2017). Physician Assistants and the Expanding Global Health-Care Workforce. *Am J Trop Med Hyg*. doi:10.4269/ajtmh.17-0176

Robie, S., Dill, M. J., & Hooker, R. S. (2016). Commentaries on health services research. *JAAPA*, 29(6), 1-2. doi:10.1097/01.JAA.0000483108.72025.bb

Soong, C., Wright, S. M., & Howell, E. E. (2010). Hospitalist physician leadership skills: perspectives from participants of a leadership conference. *J Hosp Med*, 5(3), E1-4. doi:10.1002/jhm.637

Sorbero, M. E., Farley, D. O., Mattke, S., & Lovejoy, S. L. (2008). *Outcome measures for effective teamwork in inpatient care: final report*. Rand Corporation.

Towle, E. L., Barr, T. R., Hanley, A., Kosty, M., Williams, S., & Goldstein, M. A. (2011). Results of the ASCO Study of Collaborative Practice Arrangements. *J Oncol Pract*, 7(5), 278-282. doi:10.1200/JOP.2011.000385

Trybou, J., Gemmel, P., Van Vaerenbergh, Y., & Annemans, L. (2014). Hospital-physician relations: the relative importance of economic, relational and professional attributes to organizational attractiveness. *BMC Health Serv Res*, 14, 232. doi:10.1186/1472-6963-14-232

Victorino, G. P., & Organ, C. H., Jr. (2003). Physician assistant influence on surgery residents. *Arch Surg*, 138(9), 971-975; discussion 975-976. doi:10.1001/archsurg.138.9.971

Virani, S. S., Maddox, T. M., Chan, P. S., Tang, F., Akeroyd, J. M., Risch, S. A., & Petersen, L. A. (2015). Provider type and quality of outpatient cardiovascular disease care. *Journal of American College of Cardiology*, 66(16), 1803-1812.

White, G. L., Jr., & Davis, A. M. (1999). Physician assistants as partners in physician-directed care. *South Med J*, 92(10), 956-960.

Willard-Grace, R., Hessler, D., Rogers, E., Dube, K., Bodenheimer, T., & Grumbach, K. (2014). Team structure and culture are associated with lower burnout in primary care. *J Am Board Fam Med*, 27(2), 229-238. doi:10.3122/jabfm.2014.02.130215

# Trends in Healthcare

- Allen, S. M., Ballweg, R. A., Cosgrove, E. M., Engle, K. A., Robinson, L. R., Rosenblatt, R. A., & Wenrich, M. D. (2013). Challenges and opportunities in building a sustainable rural primary care workforce in alignment with the Affordable Care Act: the WWAMI program as a case study. *Acad Med, 88*(12), 1862-1869. doi:10.1097/ACM.0000000000000008
- Brock, D. M., Nicholson, J. G., & Hooker, R. S. (2016). Physician Assistant and Nurse Practitioner Malpractice Trends. *Med Care Res Rev*. doi:10.1177/1077558716659022
- Buch, K. E., Genovese, M. Y., Conigliaro, J. L., Nguyen, S. Q., Byrn, J. C., Novembre, C. L., & Divino, C. M. (2008). Non-physician practitioners' overall enhancement to a surgical resident's experience. *J Surg Educ, 65*(1), 50-53. doi:10.1016/j.jsurg.2007.07.002
- Cooper, R. A. (2007). New directions for nurse practitioners and physician assistants in the era of physician shortages. *Acad Med, 82*(9), 827-828. doi:10.1097/ACM.0b013e31812f7939
- Coplan, B., Cawley, J., & Stoehr, J. (2013). Physician assistants in primary care: trends and characteristics. *Ann Fam Med, 11*(1), 75-79. doi:10.1370/afm.1432
- DeNicola, L., Kleid, D., Brink, L., van Stralen, D., Scott, M., Gerbert, D., & Brennan, L. (1994). Use of pediatric physician extenders in pediatric and neonatal intensive care units. *Crit Care Med, 22*(11), 1856-1864.
- Druss, B. G., Marcus, S. C., Olfson, M., Tanielian, T., & Pincus, H. A. (2003). Trends in care by nonphysician clinicians in the United States. *N Engl J Med, 348*(2), 130-137. doi:10.1056/NEJMsa020993
- Dubaybo, B. A., Samson, M. K., & Carlson, R. W. (1991). The role of physician-assistants in critical care units. *Chest, 99*(1), 89-91. doi:10.1378/chest.99.1.89
- Eheman, C., Henley, S. J., Ballard-Barbash, R., Jacobs, E. J., Schymura, M. J., Noone, A. M., & Edwards, B. K. (2012). Annual Report to the Nation on the status of cancer, 1975-2008, featuring cancers associated with excess weight and lack of sufficient physical activity. *Cancer, 118*(9), 2338-2366. doi:10.1002/cncr.27514
- Freed, G. L., Dunham, K. M., Loveland-Cherry, C., Martyn, K. K., Moote, M. J., & American Board of Pediatrics Research Advisory, C. (2011). Nurse practitioners and physician assistants employed by general and subspecialty pediatricians. *Pediatrics, 128*(4), 665-672. doi:10.1542/peds.2011-0329
- Grover, A., Orlowski, J. M., & Erikson, C. E. (2016). The Nation's Physician Workforce and Future Challenges. *Am J Med Sci, 351*(1), 11-19. doi:10.1016/j.amjms.2015.10.009
- Holahan, J. (2011). The 2007-09 recession and health insurance coverage. *Health Aff (Millwood), 30*(1), 145-152. doi:10.1377/hlthaff.2010.1003
- Hooker, R. S., Cawley, J. F., & Leinweber, W. (2010). Career flexibility of physician assistants and the potential for more primary care. *Health Aff (Millwood), 29*(5), 880-886. doi:10.1377/hlthaff.2009.0884
- Jacobson, P. D., & Jazowski, S. A. (2011). Physicians, the Affordable Care Act, and primary care: disruptive change or business as usual? *J Gen Intern Med, 26*(8), 934-937. doi:10.1007/s11606-011-1695-8

- Larson, E. H., & Hart, L. G. (2007). Growth and change in the physician assistant workforce in the United States, 1967-2000. *J Allied Health*, 36(3), 121-130.
- Mains, C., Scarborough, K., Bar-Or, R., Hawkes, A., Huber, J., Bourg, P., & Bar-Or, D. (2009). Staff commitment to trauma care improves mortality and length of stay at a level I trauma center. *J Trauma*, 66(5), 1315-1320. doi:10.1097/TA.0b013e31819d96d8
- McDaniel, M. J., Hildebrandt, C. A., & Russell, G. B. (2016). Central Application Service for Physician Assistants Ten-Year Data Report, 2002 to 2011. *J Physician Assist Educ*, 27(1), 17-23. doi:10.1097/JPA.0000000000000063
- McLeod, N., & Montane, G. (2010). The radiologist assistant: the solution to radiology workforce needs. *Emerg Radiol*, 17(3), 253-256. doi:10.1007/s10140-006-0505-9
- Menchine, M. D., Wiechmann, W., & Rudkin, S. (2009). Trends in midlevel provider utilization in emergency departments from 1997 to 2006. *Acad Emerg Med*, 16(10), 963-969. doi:10.1111/j.1553-2712.2009.00521.x
- Mitchell, C. C., Ashley, S. W., Zinner, M. J., & Moore, F. D., Jr. (2007). Predicting future staffing needs at teaching hospitals: use of an analytical program with multiple variables. *Arch Surg*, 142(4), 329-334. doi:10.1001/archsurg.142.4.329
- Morgan, P., & Hooker, R. S. (2008). Specialty trends among physicians assistants: United States. *Health Affairs*, 29(5), 887-892. doi:10.1377/hlthaff.2008.0835
- Morgan, P. A., & Hooker, R. S. (2010). Choice of specialties among physician assistants in the United States. *Health Aff (Millwood)*, 29(5), 887-892. doi:10.1377/hlthaff.2008.0835
- Moses, H., 3rd, Matheson, D. H., Dorsey, E. R., George, B. P., Sadoff, D., & Yoshimura, S. (2013). The anatomy of health care in the United States. *JAMA*, 310(18), 1947-1963. doi:10.1001/jama.2013.281425
- Nestler, D. M., Fratzke, A. R., Church, C. J., Scanlan-Hanson, L., Sadosty, A. T., Halasy, M. P., & Hess, E. P. (2012). Effect of a physician assistant as triage liaison provider on patient throughput in an academic emergency department. *Acad Emerg Med*, 19(11), 1235-1241. doi:10.1111/acem.12010
- Nolte, E., & McKee, M. (2011). Variations in amenable mortality--trends in 16 high-income nations. *Health Policy*, 103(1), 47-52. doi:10.1016/j.healthpol.2011.08.002
- Nyberg, S. M., Keuter, K. R., Berg, G. M., Helton, A. M., & Johnston, A. D. (2010). Acceptance of physician assistants and nurse practitioners in trauma centers. *JAAPA*, 23(1), 35-37, 41.
- Ohman-Strickland, P. A., Orzano, A. J., Hudson, S. V., Solberg, L. I., DiCiccio-Bloom, B., O'Malley, D., & Crabtree, B. F. (2008). Quality of diabetes care in family medicine practices: influence of nurse-practitioners and physician's assistants. *Ann Fam Med*, 6(1), 14-22. doi:10.1370/afm.758
- Park, M., Cherry, D., & Decker, S. L. (2011). Nurse practitioners, certified nurse midwives, and physician assistants in physician offices. *NCHS Data Brief*(69), 1-8.
- Pezzi, C., Leibrandt, T., Suryadevara, S., Heller, J. K., Hurley-Martonik, D., & Kukora, J. S. (2009). The present and future use of physician extenders in general surgery training programs: one

response to the 80-hour work week. *J Am Coll Surg*, 208(4), 587-591.  
doi:10.1016/j.jamcollsurg.2009.01.009

Ray, K., Martsolf, G., Mehrotra, A., & Barnett, M. (2017). Trends in Visits to Specialist Physicians Involving Nurse Practitioners and Physician Assistants, 2001 to 2013. *JAMA Internal Medicine*.

Russell, J. C., Kaplowe, J., & Heinrich, J. (1999). One hospital's successful 20-year experience with physician assistants in graduate medical education. *Acad Med*, 74(6), 641-645.

Sargen, M., Hooker, R. S., & Cooper, R. A. (2011). Gaps in the supply of physicians, advance practice nurses, and physician assistants. *J Am Coll Surg*, 212(6), 991-999.  
doi:10.1016/j.jamcollsurg.2011.03.005

Schoen, C. (2009). *Insurance design matters: underinsured trends, health and financial risks, and principles for reform services*. The Commonwealth Fund. Retrieved from <http://www.commonwealthfund.org/~media/files/publications/testimony/2009/feb/testimony-insurance-design-matters-underinsured-trends-health-and-financial-risks/1240-schoen-senatehelp-underinsured-testimony-feb-2009.pdf>

Siegel, R., Naishadham, D., & Jemal, A. (2012). Cancer statistics, 2012. *CA Cancer J Clin*, 62(1), 10-29.  
doi:10.3322/caac.20138

Silberman, P., Estes, E. H., Jr., Dubay, K. L., & Holmes, M. (2007). Weathering the practitioner workforce shortage. *N C Med J*, 68(3), 159-168.

Song, Z., Safran, D. G., Landon, B. E., He, Y., Ellis, R. P., Mechanic, R. E., & Chernew, M. E. (2011). Health care spending and quality in year 1 of the alternative quality contract. *N Engl J Med*, 365(10), 909-918. doi:10.1056/NEJMsa1101416

Woodmansee, D. J., & Hooker, R. S. (2010). Physician assistants working in the Department of Veterans Affairs. *JAAPA*, 23(11), 41-44.

Zorn, J., Snyder, J., & Satterblom, K. (2009). Analysis of incomes of new graduate physician assistants and gender, 1998-2006. *J Allied Health*, 38(3), 127-131.

# Veterans

Brock, D., Evans, T., Garcia, D., Bester, V., & Gianola, F. J. (2015). Veterans as physician assistants. *JAAPA, 28*(11), 45-51. doi:10.1097/01.JAA.0000472629.68218.94

Federal Trade Commission. (2016). *FTC staff supports department of Veterans Affairs proposed rule to grant full practice authority to advanced practice registered nurses*. Retrieved from <https://www.ftc.gov/news-events/press-releases/2016/07/ftc-staff-supports-department-veterans-affairs-proposed-rule>

Frogner, B. K., Skillman, S. M., & Snyder, C. R. (2016). Characteristics of Veterans in Allied Healthcare Occupations. Center for Health Workforce Studies. Retrieved from [http://depts.washington.edu/fammed/chws/wp-content/uploads/sites/5/2016/11/Characteristics\\_Veterans\\_Allied-Hlth\\_FR\\_2016\\_Nov\\_Frogner.pdf](http://depts.washington.edu/fammed/chws/wp-content/uploads/sites/5/2016/11/Characteristics_Veterans_Allied-Hlth_FR_2016_Nov_Frogner.pdf)

Morgan, P., Everett, C. M., Smith, V. A., Woolson, S., Edelman, D., Hendrix, C. C., & Jackson, G. L. (2017). Factors Associated With Having a Physician, Nurse Practitioner, or Physician Assistant as Primary Care Provider for Veterans With Diabetes Mellitus. *Inquiry, 54*, 46958017712762. doi:10.1177/0046958017712762

Rattray, N. A., Damush, T. M., Luckhurst, C., Bauer-Martinez, C. J., Homoya, B. J., & Miech, E. J. (2017). Prime movers: Advanced practice professionals in the role of stroke coordinator. *J Am Assoc Nurse Pract.* doi:10.1002/2327-6924.12462

Reed, D. O., & Hooker, R. S. (2017). PAs in orthopedics in the VHA's community-based outpatient clinics. *JAAPA, 30*(4), 38-42. doi:10.1097/01.JAA.0000513352.60771.0a

Snyder, C. R., Wick, K. H., Skillman, S. M., & Frogner, B. K. (2016). Pathways for Military Veterans to Enter Healthcare Careers. *Center for Health Workforce Studies*.

Tang, V. L., Shi, Y., Fung, K., Tan, J., Espaldon, R., Sudore, R., & Walter, L. C. (2016). Clinician Factors Associated With Prostate-Specific Antigen Screening in Older Veterans With Limited Life Expectancy. *JAMA Intern Med, 176*(5), 654-661. doi:10.1001/jamainternmed.2016.0695

Woodmansee, D. J., & Hooker, R. S. (2010). Physician assistants working in the Department of Veterans Affairs. *JAAPA, 23*(11), 41-44.

Morgan, P., Everett, C. M., Smith, V. A., Woolson, S., Edelman, D., Hendrix, C. C., & Jackson, G. L. (2017). Factors Associated With Having a Physician, Nurse Practitioner, or Physician Assistant as Primary Care Provider for Veterans With Diabetes Mellitus. *Inquiry, 54*, 46958017712762. doi:10.1177/0046958017712762

# Workforce

Adamson, T. E. (1971). Critical issues in the use of physician associates and assistants. *Am J Public Health, 61*(9), 1765-1779.

Allen, S. M., Ballweg, R. A., Cosgrove, E. M., Engle, K. A., Robinson, L. R., Rosenblatt, R. A., & Wenrich, M. D. (2013). Challenges and opportunities in building a sustainable rural primary care workforce in alignment with the Affordable Care Act: the WWAMI program as a case study. *Acad Med, 88*(12), 1862-1869. doi:10.1097/ACM.0000000000000008

Anderson, S. T. (2011). *Physician Workforce Issues at Virginia Mason Medical Center*. Paper presented at the Real Word Perspective on Health Workforce Needs: 7th Annual AAMC Physician Work force Research Conference.

Armitage, M., & Shepherd, S. (2005). A new professional in the healthcare workforce: role, training, assessment and regulation. *Clin Med (Lond), 5*(4), 311-314.

Auerbach, D. I., Chen, P. G., Friedberg, M. W., Reid, R., Lau, C., Buerhaus, P. I., & Mehrotra, A. (2013). Nurse-managed health centers and patient-centered medical homes could mitigate expected primary care physician shortage. *Health Aff (Millwood), 32*(11), 1933-1941. doi:10.1377/hlthaff.2013.0596

Baker, S. R., & Merkulov, A. (2005). The radiology assistant: a contrarian's view. *Emerg Radiol, 11*(4), 187-192. doi:10.1007/s10140-005-0400-9

Bates, T., & Chapman, S. (2010). *Physician Assistant and Nurse Practitioner Staffing Patterns in California's Licensed Community Clinics*. Retrieved from [https://healthforce.ucsf.edu/sites/healthforce.ucsf.edu/files/publication-pdf/6.%202010-06\\_Physician\\_Assistant\\_and\\_Nurse\\_Practitioner\\_Staffing\\_Patterns\\_in\\_California's\\_Licensed\\_Community\\_Clinics\\_2005-2008.pdf](https://healthforce.ucsf.edu/sites/healthforce.ucsf.edu/files/publication-pdf/6.%202010-06_Physician_Assistant_and_Nurse_Practitioner_Staffing_Patterns_in_California's_Licensed_Community_Clinics_2005-2008.pdf)

Birch, S. (2010). *Physician Substitution in Canada*. McMaster University. Hamilton, Ontario.

Bishop, T. F., Seirup, J. K., Pincus, H. A., & Ross, J. S. (2016). Population Of US Practicing Psychiatrists Declined, 2003-13, Which May Help Explain Poor Access To Mental Health Care. *Health Aff (Millwood), 35*(7), 1271-1277. doi:10.1377/hlthaff.2015.1643

Bowen, S., L.A., H., & Botting, I. (2015). *Implementation handbook: Introducing Physician Assistants Into Primary Care Settings and Family Medicine Practice*. Retrieved from Winnipeg, Manitoba, Canada: [www.wrha.mb.ca/professionals/familyphysicians/index.php](http://www.wrha.mb.ca/professionals/familyphysicians/index.php)

Buch, K. E., Genovese, M. Y., Conigliaro, J. L., Nguyen, S. Q., Byrn, J. C., Novembre, C. L., & Divino, C. M. (2008). Non-physician practitioners' overall enhancement to a surgical resident's experience. *J Surg Educ, 65*(1), 50-53. doi:10.1016/j.jsurg.2007.07.002

Camargo, C. A., Jr., Ginde, A. A., Singer, A. H., Espinola, J. A., Sullivan, A. F., Pearson, J. F., & Singer, A. J. (2008). Assessment of emergency physician workforce needs in the United States, 2005. *Acad Emerg Med, 15*(12), 1317-1320. doi:10.1111/j.1553-2712.2008.00264.x

Coffman, J., Geyn, I., & Himmerick, K. A. (2017). *California's Primary Care Workforce: Current Supply, Characteristics, and Pipeline of Trainees*. Healthforce Center at UCSF. Retrieved from <https://healthforce.ucsf.edu/publications/california-s-primary-care-workforce-current-supply-characteristics-and-pipeline>

- Cohn, S. M., Price, M. A., & Villarreal, C. L. (2009). Trauma and surgical critical care workforce in the United States: a severe surgeon shortage appears imminent. *J Am Coll Surg*, 209(4), 446-452 e444. doi:10.1016/j.jamcollsurg.2009.06.369
- Colby, J. (2011). *A Profile of Colorado's Physician Assistant Workforce*. Retrieved from [http://www.coloradohealthinstitute.org/sites/default/files/file\\_attachments/Profile\\_of\\_Colorados\\_Physician\\_Assistant\\_Workforce\\_0.pdf](http://www.coloradohealthinstitute.org/sites/default/files/file_attachments/Profile_of_Colorados_Physician_Assistant_Workforce_0.pdf)
- Cooper, R. A. (2007). New directions for nurse practitioners and physician assistants in the era of physician shortages. *Acad Med*, 82(9), 827-828. doi:10.1097/ACM.0b013e31812f7939
- Coplan, B., Cawley, J., & Stoehr, J. (2013). Physician assistants in primary care: trends and characteristics. *Ann Fam Med*, 11(1), 75-79. doi:10.1370/afm.1432
- Cramer, C. L., Orlowski, J. P., & DeNicola, L. K. (2008). Pediatric intensivist extenders in the pediatric ICU. *Pediatr Clin North Am*, 55(3), 687-708, xi-xii. doi:10.1016/j.pcl.2008.02.007
- Dacey, M. J., Mirza, E. R., Wilcox, V., Doherty, M., Mello, J., Boyer, A., & Baute, R. (2007). The effect of a rapid response team on major clinical outcome measures in a community hospital. *Crit Care Med*, 35(9), 2076-2082.
- DeNicola, L., Kleid, D., Brink, L., van Stralen, D., Scott, M., Gerbert, D., & Brennan, L. (1994). Use of pediatric physician extenders in pediatric and neonatal intensive care units. *Crit Care Med*, 22(11), 1856-1864.
- Druss, B. G., Marcus, S. C., Olfsen, M., Tanielian, T., & Pincus, H. A. (2003). Trends in care by nonphysician clinicians in the United States. *N Engl J Med*, 348(2), 130-137. doi:10.1056/NEJMsa020993
- Dubaybo, B. A., Samson, M. K., & Carlson, R. W. (1991). The role of physician-assistants in critical care units. *Chest*, 99(1), 89-91. doi:10.1378/chest.99.1.89
- Ekwo, E., Daniels, M., Oliver, D., & Fethke, C. (1979). The physician assistant in rural primary care practices: physician assistant activities and physician supervision at satellite and non-satellite practice sites. *Med Care*, 17(8), 787-795.
- Ellis, M., & Krol, E. (2005). A case study on the use of physician assistants in college health. *Pediatr Clin North Am*, 52(1), 1-8, vii. doi:10.1016/j.pcl.2004.10.001
- Evans, T. C., Wick, K. H., Brock, D. M., Schaad, D. C., & Ballweg, R. (2006). Academic degrees and clinical practice characteristics: the University of Washington physician assistant program: 1969-2000. *J Rural Health*, 22(3), 212-219. doi:10.1111/j.1748-0361.2006.00034.x
- Eyal, N., Cancedda, C., Kyamanywa, P., & Hurst, S. A. (2015). Non-physician Clinicians in Sub-Saharan Africa and the Evolving Role of Physicians. *Int J Health Policy Manag*, 5(3), 149-153. doi:10.15171/ijhpm.2015.215
- Fowkes, V., Cawley, J. F., Herlihy, N., & Cuadrado, R. R. (1996). Evaluating the potential of international medical graduates as physician assistants in primary care. *Acad Med*, 71(8), 886-892.
- Fraher, E., Gaul, K., & Ricketts, T. (2010). *Developing State Health Workforce Data Systems: Lessons Learned*. UNC.

- Freed, G. L., Dunham, K. M., Loveland-Cherry, C., Martyn, K. K., Moote, M. J., & American Board of Pediatrics Research Advisory, C. (2011). Nurse practitioners and physician assistants employed by general and subspecialty pediatricians. *Pediatrics*, 128(4), 665-672. doi:10.1542/peds.2011-0329
- Friedberg, M. W., Coltin, K. L., Safran, D. G., Dresser, M., & Schneider, E. C. (2010). Medical home capabilities of primary care practices that serve sociodemographically vulnerable neighborhoods. *Arch Intern Med*, 170(11), 938-944. doi:10.1001/archinternmed.2010.110
- Gershengorn, H. B., Johnson, M. P., & Factor, P. (2012). The use of nonphysician providers in adult intensive care units. *Am J Respir Crit Care Med*, 185(6), 600-605. doi:10.1164/rccm.201107-1261CP
- Gershengorn, H. B., Wunsch, H., Wahab, R., Leaf, D. E., Brodie, D., Li, G., & Factor, P. (2011). Impact of nonphysician staffing on outcomes in a medical ICU. *Chest*, 139(6), 1347-1353. doi:10.1378/chest.10-2648
- Ginde, A. A., Espinola, J. A., Sullivan, A. F., Blum, F. C., & Camargo, C. A., Jr. (2010). Use of midlevel providers in US EDs, 1993 to 2005: implications for the workforce. *Am J Emerg Med*, 28(1), 90-94. doi:10.1016/j.ajem.2008.09.028
- Glicken, A. D., & Miller, A. A. (2013). Physician assistants: from pipeline to practice. *Acad Med*, 88(12), 1883-1889. doi:10.1097/ACM.0000000000000009
- Grzybicki, D. M., Sullivan, P. J., Oppy, J. M., Bethke, A. M., & Raab, S. S. (2002). The economic benefit for family/general medicine practices employing physician assistants. *Am J Manag Care*, 8(7), 613-620.
- Gujral, H., Visconti, C., & Collantes, R. (2004). The role of physician extenders in managing patients with chronic hepatitis C. *Cleve Clin J Med*, 71 Suppl 3, S33-37.
- Hauer, K. E., Durning, S. J., Kernan, W. N., Fagan, M. J., Mintz, M., O'Sullivan, P. S., & Schwartz, M. D. (2008). Factors associated with medical students' career choices regarding internal medicine. *JAMA*, 300(10), 1154-1164. doi:10.1001/jama.300.10.1154
- Henry, L. R., & Hooker, R. S. (2014). Caring for the disadvantaged: the role of physician assistants. *JAAPA*, 27(1), 36-42. doi:10.1097/01.JAA.0000438532.92138.53
- Hong, K., Georgiades, C. S., Hebert, J., Wahlin, T., Mitchell, S. E., & Geschwind, J. F. (2006). Incorporating physician assistants and physician extenders in the contemporary interventional oncology practice. *Tech Vasc Interv Radiol*, 9(3), 96-100. doi:10.1053/j.tvir.2007.02.005
- Hooker, R. S., Cawley, J. F., & Leinweber, W. (2010). Career flexibility of physician assistants and the potential for more primary care. *Health Aff (Millwood)*, 29(5), 880-886. doi:10.1377/hlthaff.2009.0884
- Hooker, R. S. (2008). The extension of rheumatology services with physician assistants and nurse practitioners. *Best Pract Res Clin Rheumatol*, 22(3), 523-533. doi:10.1016/j.berh.2007.12.006
- Horowitz, P. K., Shemesh, A. A., & Horev, T. (2017). Is there a doctor in the house? Availability of Israeli physicians to the workforce. *Isr J Health Policy Res*, 6, 31. doi:10.1186/s13584-017-0157-0

- Iglehart, J. K. (2012). Primary care update--light at the end of the tunnel? *N Engl J Med*, *366*(23), 2144-2146. doi:10.1056/NEJMp1205537
- Intrator, O., Feng, Z., Mor, V., Gifford, D., Bourbonniere, M., & Zinn, J. (2005). The employment of nurse practitioners and physician assistants in U.S. nursing homes. *Gerontologist*, *45*(4), 486-495.
- Jecker, N. S. (2010). The ethics of substituting physician assistants, nurse practitioners, and residents for attending physicians. *Am J Bioeth*, *10*(8), 11-13. doi:10.1080/15265161.2010.494459
- Jeffery, C., Morton-Rias, D., Rittle, M., Cannon, J., & Hooker, R. S. (2017). Physician assistant dual employment. *JAAPA*, *30*(7), 35-38. doi:10.1097/01.JAA.0000515546.68860.13
- Jolly R: Health Workforce: A Case for Physician Assistants? Report 24. Canberra, Australia, Parliamentary Library, 2008.
- Kauffman, M., & Ferretti, S. M. (2014). The accelerated physician assistant pathway: a three-year medical school curriculum for physician assistants to obtain DO degrees. *Acad Med*, *89*(12), 1645-1648. doi:10.1097/ACM.0000000000000307
- Kirch, D., & Petelle, K. (2017). Addressing the Physician Shortage The Peril of Ignoring Demography. *JAMA*. *317*(19), 1947-1948. 10.1001/jama.2017.2714.
- Kirton, O. C., Folcik, M. A., Ivy, M. E., Calabrese, R., Dobkin, E., Pepe, J., & Palter, M. (2007). Midlevel practitioner workforce analysis at a university-affiliated teaching hospital. *Arch Surg*, *142*(4), 336-341. doi:10.1001/archsurg.142.4.336
- Larson, E. H., & Hart, L. G. (2007). Growth and change in the physician assistant workforce in the United States, 1967-2000. *J Allied Health*, *36*(3), 121-130.
- Levy, C., Palat, S. I., & Kramer, A. M. (2007). Physician practice patterns in nursing homes. *J Am Med Dir Assoc*, *8*(9), 558-567. doi:10.1016/j.jamda.2007.06.015
- Mathur, M., Rampersad, A., Howard, K., & Goldman, G. M. (2005). Physician assistants as physician extenders in the pediatric intensive care unit setting-A 5-year experience. *Pediatr Crit Care Med*, *6*(1), 14-19. doi:10.1097/01.PCC.0000149133.50687.A1
- McLean, T. R. (2002). Crossing the quality chasm: autonomous physician extenders will necessitate a shift to enterprise liability coverage for health care delivery. *Health Matrix Clevel*, *12*(2), 239-295.
- McLeod, N., & Montane, G. (2010). The radiologist assistant: the solution to radiology workforce needs. *Emerg Radiol*, *17*(3), 253-256. doi:10.1007/s10140-006-0505-9
- Menchine, M. D., Wiechmann, W., & Rudkin, S. (2009). Trends in midlevel provider utilization in emergency departments from 1997 to 2006. *Acad Emerg Med*, *16*(10), 963-969. doi:10.1111/j.1533-2712.2009.00521.x
- Mikhail, J., Millerz, W., & Wagner, J. (2009). Midlevel practitioner role evolution in an American College of Surgeons-verified trauma surgery service: the 23-year experience at Hurley Medical Center. *J Trauma Nurs*, *16*(1), 33-40. doi:10.1097/01.JTN.0000348068.63970.dc

- Miller, W., Riehl, E., Napier, M., Barber, K., & Dabideen, H. (1998). Use of physician assistants as surgery/trauma house staff at an American College of Surgeons-verified Level II trauma center. *J Trauma*, 44(2), 372-376.
- Mitchell, C. C., Ashley, S. W., Zinner, M. J., & Moore, F. D., Jr. (2007). Predicting future staffing needs at teaching hospitals: use of an analytical program with multiple variables. *Arch Surg*, 142(4), 329-334. doi:10.1001/archsurg.142.4.329
- Morgan, P. A., & Hooker, R. S. (2010). Choice of specialties among physician assistants in the United States. *Health Aff (Millwood)*, 29(5), 887-892. doi:10.1377/hlthaff.2008.0835
- N.A. (2008). Competitive concerns bring PAs, NPs into triage area. *ED Manag*, 20(6), 67-68.
- NCCPA. (2016). 2015 Statistical Profile of Certified Physician Assistants. Retrieved from <https://www.nccpa.net/news/2015-statistical-profile-on-certified>
- Nicoletti, B. (2006). How to bill for services performed by nonphysician practitioners. *Fam Pract Manag*, 13(5), 45-46, 48.
- Nuckols, T. K., Bhattacharya, J., Wolman, D. M., Ulmer, C., & Escarce, J. J. (2009). Cost implications of reduced work hours and workloads for resident physicians. *N Engl J Med*, 360(21), 2202-2215. doi:10.1056/NEJMsa0810251
- Nyberg, S. M., Keuter, K. R., Berg, G. M., Helton, A. M., & Johnston, A. D. (2010). Acceptance of physician assistants and nurse practitioners in trauma centers. *JAAPA*, 23(1), 35-37, 41.
- Nyberg, S. M., Waswick, W., Wynn, T., & Keuter, K. (2007). Midlevel providers in a Level I trauma service: experience at Wesley Medical Center. *J Trauma*, 63(1), 128-134. doi:10.1097/01.ta.0000221765.90190.73
- O'Connor, T. M., & Hooker, R. S. (2007). Extending rural and remote medicine with a new type of health worker: physician assistants. *Aust J Rural Health*, 15(6), 346-351. doi:10.1111/j.1440-1584.2007.00926.x
- Ohman-Strickland, P. A., Orzano, A. J., Hudson, S. V., Solberg, L. I., DiCiccio-Bloom, B., O'Malley, D., & Crabtree, B. F. (2008). Quality of diabetes care in family medicine practices: influence of nurse-practitioners and physician's assistants. *Ann Fam Med*, 6(1), 14-22. doi:10.1370/afm.758
- Oswanski, M. F., Sharma, O. P., & Raj, S. S. (2004). Comparative review of use of physician assistants in a level I trauma center. *Am Surg*, 70(3), 272-279.
- Park, M., Cherry, D., & Decker, S. L. (2011). Nurse practitioners, certified nurse midwives, and physician assistants in physician offices. *NCHS Data Brief*(69), 1-8.
- Pedersen, D. M., Chappell, B., Elison, G., & Bunnell, R. (2008). The productivity of PAs, APRNs, and physicians in Utah. *JAAPA*, 21(1), 42-44, 47.
- Pezzi, C., Leibbrandt, T., Suryadevara, S., Heller, J. K., Hurley-Martonik, D., & Kukora, J. S. (2009). The present and future use of physician extenders in general surgery training programs: one response to the 80-hour work week. *J Am Coll Surg*, 208(4), 587-591. doi:10.1016/j.jamcollsurg.2009.01.009

- Polansky, M., Ross, A. C., & Coniglio, D. (2010). Physician Assistant Perspective on the ASCO Workforce Study Regarding the Use of Physician Assistants and Nurse Practitioners. *J Oncol Pract*, 6(1), 31-33. doi:10.1200/JOP.091063
- Queen, K. T. (2007). Use of nurse practitioners and physician extenders in rheumatology: a western North Carolina perspective. *N C Med J*, 68(6), 457-458.
- Record, J. C., McCally, M., Schweitzer, S. O., Blomquist, R. M., & Berger, B. D. (1980). New health professions after a decade and a half: delegation, productivity and costs in primary care. *J Health Polit Policy Law*, 5(3), 470-497.
- Resnick, A. S., Todd, B. A., Mullen, J. L., & Morris, J. B. (2006). How do surgical residents and non-physician practitioners play together in the sandbox? *Curr Surg*, 63(2), 155-164. doi:10.1016/j.cursur.2005.12.009
- Reynolds, E. W., & Bricker, J. T. (2007). Nonphysician clinicians in the neonatal intensive care unit: meeting the needs of our smallest patients. *Pediatrics*, 119(2), 361-369. doi:10.1542/peds.2006-1084
- Rick, T. J., & Ballweg, R. (2017). Physician Assistants and the Expanding Global Health-Care Workforce. *Am J Trop Med Hyg*. doi:10.4269/ajtmh.17-0176
- Robie, S., Dill, M. J., & Hooker, R. S. (2016). Commentaries on health services research. *JAAPA*, 29(6), 1-2. doi:10.1097/01.JAA.0000483108.72025.bb
- Rodgers, G. P., Conti, J. B., Feinstein, J. A., Griffin, B. P., Kennett, J. D., Shah, S., & Williams, J. L. (2009). ACC 2009 survey results and recommendations: Addressing the cardiology workforce crisis A report of the ACC board of trustees workforce task force. *J Am Coll Cardiol*, 54(13), 1195-1208. doi:10.1016/j.jacc.2009.08.001
- Rosenberg, S. M., Rosenthal, D. A., Rajan, D. K., Millward, S. F., Baum, R. A., Silberzweig, J. E., & American Academy of Physician, A. (2008). Position statement: the role of physician assistants in interventional radiology. *J Vasc Interv Radiol*, 19(12), 1685-1689. doi:10.1016/j.jvir.2008.09.004
- Salsberg, E. S. (2015). Is the Physician Shortage Real? Implications for the Recommendations of the Institute of Medicine Committee on the Governance and Financing of Graduate Medical Education. *Acad Med*, 90(9), 1210-1214. doi:10.1097/ACM.0000000000000837
- Salsberg, E., & Quigley, L. (2016). Are we facing a physician assistant surplus? *JAAPA*, 29(11), 40-44. doi:10.1097/01.JAA.0000502865.59093.ef
- Sargent, M., Hooker, R. S., & Cooper, R. A. (2011). Gaps in the supply of physicians, advance practice nurses, and physician assistants. *J Am Coll Surg*, 212(6), 991-999. doi:10.1016/j.jamcollsurg.2011.03.005
- Sekscenski, E. S., Sansom, S., Bazell, C., Salmon, M. E., & Mullan, F. (1994). State practice environments and the supply of physician assistants, nurse practitioners, and certified nurse-midwives. *N Engl J Med*, 331(19), 1266-1271. doi:10.1056/NEJM19941103311905
- Skillman, S. M., Snyder, C. R., Frogner, B. K., & Patterson, D. G. (2016). The behavioral health workforce needed for integration with primary care: Information for health workforce planning. *Center for Health Workforce Studies*, 18.

- Solomon, D. H., Fraenkel, L., Lu, B., Brown, E., Tsao, P., Losina, E., & Bitton, A. (2015). Comparison of Care Provided in Practices With Nurse Practitioners and Physician Assistants Versus Subspecialist Physicians Only: A Cohort Study of Rheumatoid Arthritis. *Arthritis Care Res (Hoboken)*, 67(12), 1664-1670. doi:10.1002/acr.22643
- Stange, K. (2014). How does provider supply and regulation influence health care markets? Evidence from nurse practitioners and physician assistants. *J Health Econ*, 33, 1-27. doi:10.1016/j.jhealeco.2013.10.009
- Stecker, M. S., Armenoff, D., & Johnson, M. S. (2004). Physician Assistants in Interventional Radiology Practice. *Journal of Vascular and Interventional Radiology*, 15(3), 221-227. doi:10.1097/01.rvi.0000099529.29957.0b
- Stewart, A., & Catanzaro, R. (2005). Can physician assistants be effective in the UK? *Clin Med (Lond)*, 5(4), 344-348.
- Thourani, V. H., & Miller, J. I., Jr. (2006). Physicians assistants in cardiothoracic surgery: a 30-year experience in a university center. *Ann Thorac Surg*, 81(1), 195-199; discussion 199-200. doi:10.1016/j.athoracsur.2005.07.031
- Troidle, L., & Smith, G. O. (2005). Can physician assistants fill the gaps in the nephrology workforce? *Nephrol News Issues*, 19(4), 65, 67.
- Vanderveen, K., Chen, M., & Scherer, L. (2007). Effects of resident duty-hours restrictions on surgical and nonsurgical teaching faculty. *Arch Surg*, 142(8), 759-764; discussion 764-756. doi:10.1001/archsurg.142.8.759
- Ward, W. T., Eberson, C. P., Otis, S. A., Wallace, C. D., Wellisch, M., Warman, J. R., & Richards, B. S. (2008). Pediatric orthopaedic practice management: the role of midlevel providers. *J Pediatr Orthop*, 28(8), 795-798. doi:10.1097/BPO.0b013e318183249f
- Weitz, T., Anderson, P., & Taylor, D. (2009). Advancing scope of practice for advanced practice clinicians: more than a matter of access. *Contraception*, 80(2), 105-107. doi:10.1016/j.contraception.2009.04.013
- Wilson, J. F. (2008). Primary care delivery changes as nonphysician clinicians gain independence. *Ann Intern Med*, 149(8), 597-600.
- Young, A., Chaudhry, H. J., Pei, X., Halbesleben, K., Polk, D. H., & Dugan, M. (2015). A census of actively licensed physicians in the united states. *Journal of Medical Regulation*, 101(2), 8-23.
- Zimmerman, J. (1997). Nurse practitioners, physician assistants, and certified nurse-midwives: primary care providers in rural areas. *Prairie Rose*, 66(2), 8a-11a.

# Workload

- Armitage, M., & Shepherd, S. (2005). A new professional in the healthcare workforce: role, training, assessment and regulation. *Clin Med (Lond)*, 5(4), 311-314.
- Benson, M. A., Peterson, T., Salazar, L., Morris, W., Hall, R., Howlett, B., & Phelps, P. (2016). Burnout in Rural Physician Assistants: An Initial Study. *J Physician Assist Educ*, 27(2), 81-83. doi:10.1097/JPA.0000000000000069
- Cohn, S. M., Price, M. A., & Villarreal, C. L. (2009). Trauma and surgical critical care workforce in the United States: a severe surgeon shortage appears imminent. *J Am Coll Surg*, 209(4), 446-452 e444. doi:10.1016/j.jamcollsurg.2009.06.369
- Delbanco, T., Walker, J., Darer, J. D., Elmore, J. G., Feldman, H. J., Leveille, S. G., & Weber, V. D. (2010). Open notes: doctors and patients signing on. *Ann Intern Med*, 153(2), 121-125. doi:10.7326/0003-4819-153-2-201007200-00008
- Dies, N., Rashid, S., Shandling, M., Swallow, C., Easson, A. M., & Kennedy, E. (2016). Physician assistants reduce resident workload and improve care in an academic surgical setting. *JAAPA*, 29(2), 41-46. doi:10.1097/01.JAA.0000476214.34937.50
- Dozois, E. J., Holubar, S. D., Tsikitis, V. L., Malireddy, K., Cima, R. R., Farley, D. R., & Larson, D. W. (2009). Perceived impact of the 80-hour workweek: five years later. *J Surg Res*, 156(1), 3-15. doi:10.1016/j.jss.2009.02.003
- Jones, P. E., & Cawley, J. F. (2009). Workweek restrictions and specialty-trained physician assistants: potential opportunities. *J Surg Educ*, 66(3), 152-157. doi:10.1016/j.jsurg.2009.03.033
- Kartha, A., Restuccia, J. D., Burgess, J. F., Jr., Benzer, J., Glasgow, J., Hockenberry, J., & Kaboli, P. J. (2014). Nurse practitioner and physician assistant scope of practice in 118 acute care hospitals. *J Hosp Med*, 9(10), 615-620. doi:10.1002/jhm.2231
- Kirton, O. C., Folcik, M. A., Ivy, M. E., Calabrese, R., Dobkin, E., Pepe, J., & Palter, M. (2007). Midlevel practitioner workforce analysis at a university-affiliated teaching hospital. *Arch Surg*, 142(4), 336-341. doi:10.1001/archsurg.142.4.336
- Larson, E. H., Hart, L. G., & Ballweg, R. (2001). National estimates of physician assistant productivity. *J Allied Health*, 30(3), 146-152.
- Mitchell, C. C., Ashley, S. W., Zinner, M. J., & Moore, F. D., Jr. (2007). Predicting future staffing needs at teaching hospitals: use of an analytical program with multiple variables. *Arch Surg*, 142(4), 329-334. doi:10.1001/archsurg.142.4.329
- Nuckols, T. K., Bhattacharya, J., Wolman, D. M., Ulmer, C., & Escarce, J. J. (2009). Cost implications of reduced work hours and workloads for resident physicians. *N Engl J Med*, 360(21), 2202-2215. doi:10.1056/NEJMsa0810251
- Oswanski, M. F., Sharma, O. P., & Raj, S. S. (2004). Comparative review of use of physician assistants in a level I trauma center. *Am Surg*, 70(3), 272-279.
- Paniagua, H., & Stewart, A. (2005). Medical care practitioners: introducing a new profession into the UK. *Br J Nurs*, 14(7), 405-408. doi:10.12968/bjon.2005.14.7.17949

- Pedersen, D. M., Chappell, B., Elison, G., & Bunnell, R. (2008). The productivity of PAs, APRNs, and physicians in Utah. *JAAPA*, 21(1), 42-44, 47.
- Pezzi, C., Leibrandt, T., Suryadevara, S., Heller, J. K., Hurley-Martonik, D., & Kukora, J. S. (2009). The present and future use of physician extenders in general surgery training programs: one response to the 80-hour work week. *J Am Coll Surg*, 208(4), 587-591.  
doi:10.1016/j.jamcollsurg.2009.01.009
- Resnick, A. S., Todd, B. A., Mullen, J. L., & Morris, J. B. (2006). How do surgical residents and non-physician practitioners play together in the sandbox? *Curr Surg*, 63(2), 155-164.  
doi:10.1016/j.cursur.2005.12.009
- Stahlfeld, K. R., Robinson, J. M., & Burton, E. C. (2008). What do physician extenders in a general surgery residency really do? *J Surg Educ*, 65(5), 354-358. doi:10.1016/j.jsurg.2008.06.002
- Stewart, A., & Catanzaro, R. (2005). Can physician assistants be effective in the UK? *Clin Med (Lond)*, 5(4), 344-348.
- Sucov, A., Sidman, R., & Valente, J. (2009). A cost-efficiency analysis to increase clinician staffing in an academic emergency department. *Acad Med*, 84(9), 1211-1216.  
doi:10.1097/ACM.0b013e3181b187fc
- Thourani, V. H., & Miller, J. I., Jr. (2006). Physicians assistants in cardiothoracic surgery: a 30-year experience in a university center. *Ann Thorac Surg*, 81(1), 195-199; discussion 199-200.  
doi:10.1016/j.athoracsur.2005.07.031
- Troidle, L., & Smith, G. O. (2005). Can physician assistants fill the gaps in the nephrology workforce? *Nephrol News Issues*, 19(4), 65, 67.
- Vanderveen, K., Chen, M., & Scherer, L. (2007). Effects of resident duty-hours restrictions on surgical and nonsurgical teaching faculty. *Arch Surg*, 142(8), 759-764; discussion 764-756.  
doi:10.1001/archsurg.142.8.759
- Victorino, G. P., & Organ, C. H., Jr. (2003). Physician assistant influence on surgery residents. *Arch Surg*, 138(9), 971-975; discussion 975-976. doi:10.1001/archsurg.138.9.971