

Faculty and Disclosure Statements

Dr. McKenna is the Interim Program Director, Director of Accreditation, and an Assistant Professor at Manhail B. Ketchum University's School of Physician Assistant Studies in Fullerton CA. He teaches exidence-based mediane, is a Capitone advisor and serves on numerosc committees. He begin his medical career as a U.S. Navy Corporan and later served as a PMI nemergency without and the profit or a 32-year career in the Medical affaits for Mercik 8.Co., Sanofi Genoyma, and Bathus Health. Herapouter areas here was active in include cardio-rend disclores, pain 8 inflammation, rheumatology, and man, allergy and Immunology, and metabolic bone diseases. He is also the former Internal Middine Editor for Audio Ogest, Wolters Kluwer Health. Bob is a Fellow of the American Cardemy of Physician Associates, the california Academy of Physician Associates here of Carlor Digest, Wolters Kluwer Health. Bob is a Fellow of the American Cardemy of Physician Associates, the california Academy of Physician Resolution the Origin and carriert or former member of multiple other professional societies.



2

Faculty and Disclosure Statements

Dr. Kari Bernarch has practiced medicine as a PN since 2004 in the areas of cardiology, emergency medicine, and papchatry. In 2020, she completed a doctorel program in Industrial and Organizational Psychology with a focus on the professional wells-being of the workforce. To complete her dissertation, Dr. Bernard utilized secondary data to searmice the relationship between RX-carel relignt's autoomy, loadeship responsibility, and professional fulfillment and burnout.

Between 2022 and 2024, Kari developed, launched, and supported a staff wellness program for 2000 clinical and nonclinical employees at the Alaska Native Medical Center. She has taught PAs and PA students since 2014 and is currently The College of Idaho's founding program director for their new Doctor of Medical Science program.



TURNING A RESEARCH PROBLEM INTO A MEASURABLE QUESTION



SECONDARY RESEARCH PATHWAY









YOUR QUESTION

- Frames problems as answerable Guides your study's anticipated contribution
- Informs exploration of the literature for gaps, unmet needs, and foundational knowledge
- Dictates your study design, including the data you will use to answer the question









QUANTITATIVE QUESTION USING SPICE STRATEGY:

Does knowledge of patient satisfaction survey results influence emergency medicine PA job satisfaction?

- Setting emergency department
- Population PAs
 Intervention knowledge of patient satisfaction survey results
- Comparison none
 Evaluation PA job satisfaction

11

QUALITATIVE QUESTION USING SPIDER:

How do PA students with disabilities experience simulated patient scenarios during didactic training?

- Sample PA students with disabilities
- Phenomenon of Interest Simulated patient scenarios during didactic training
 Design Interviews
- Evaluation Experiences
 Research type Qualitative

Research Questions Examples

- Do PAs negate their cost-effectiveness by practicing care differently than doctors?
- Are PAs in society's best interest?

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- What is the career trajectory of a new graduate PA?
- What is the annual attrition rate of PAs?

- What is the opportunity cost of a PA education?
- What are the influencing factors on career and location of PAs?

13



WHAT ARE YOUR HYPOTHESES OR GOALS/OBJECTIVES?

What do you think will happen? Requires preliminary review of the literature to inform your opinion.

14

QUANTITATIVE HYPOTHESIS:

RQ: Does knowledge of patient satisfaction survey results influence emergency medicine PA job satisfaction?

• Hypothesis: Knowledge of patient satisfaction survey results will decrease emergency medicine PA job satisfaction.

QUALITATIVE HYPOTHESIS:

RQ: How do PA students with disabilities experience simulated patient scenarios during didactic training?

 Hypothesis: PA students with disability experience challenges that adversely impact learning during simulated patient scenarios during didactic training.

16

IDENTIFY A DATASET TO ANSWER THE RESEARCH QUESTION

STEP 2

17

































Data Sources Summary

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Secondary data is widespread (and often overlooked)

24 1

- Most secondary data on PA/NPs resides in the public domain and is often online and downloadable.
 NP/PA educators and scholars should acquaint themselves
- with these data sources.
- The research question should drive the quest for data and not the other way around.

34

EXAMPLE: Rural Hospital Data

Study: "Comparing physicians and PAs as solo providers in a rural ED: A pilot study" by Moore. JAAPA. 2021;34(7):1-6

Purpose: "To examine the use of physician assistants (PAs) as solo providers in rural EDs"

Methods: Assess characteristics of ED visits completed by physicians and PAs at a rural hospital in Arizona

Results: 26,000 patient visits analyzed, no statistically significant differences between physicians and PAs noted for transfers, 72-hour returns, and death rates

Moore SJ. JAAPA. 2021;34(7):1-6. doi:10.1097/01.JAA.0000753912.30975.43

35

EXAMPLE: National Practitioner Data Bank

Study: "Medical Malpractice Payment Reports of PAs Related to State Practice Laws and Regulations" by DePalma et al. J Med Regul. 2023; 109(4):27-37 Purpose: "to determine if states with permissive compared to restrictive PA scope of practice laws and regulations had higher instances of medical malpractice payment reports (MMPR), a proxy of patient harm"

Methods: Observational study examined 10 years (2010-2019) of medical malpractice payment reports data from the NPDB compared to the laws and regulations of states for the same period

Results: No statistically significant differences in MMPR rates were identified between states with permissive versus restrictive PA practice laws and regulations

DePalma SM, et al. J Med Regul. 2023;109(4):27-37. doi:10.30770/2572-1852-109.4.27













McKenna, RE, et al. AAPA Research in Action, May 18, 2024

EXAMPLE OF CROSS-SECTIONAL SECONDARY ANALYSIS

Study: "The opportunity to lead facilitates PA professional well-being" by Bernard KB, Bostain N. JAAPA. 2024;37(6):1-10.

Purpose: "This study sought to broaden what is known about the influence of leadership task responsibility on PA professional well-being."

Methods: Secondary analysis of a dataset gathered in 2018 by the American Academy of Physician Associates (AAPA)

- Results: o The longer respondents had practiced as a PA, the more leadership tasks they reported, the more likely they were to meet professional fulfillment criteria, and the less likely they were to
- more likely they were to meet professional fulfillment criteria, and the less likely they were to meet burnout criteria. Aggregate leadership task score both directly predicted PA well-being and partially mediated the relationship between years of experience and PA well-being.
 - elationship between years of experience and PA well-being. Bernard KS, et al. JAAPA. 2024;37(6):1-10. doi:10.1097/01.JAA.00000000000022

43

EXAMPLE OF A RETROSPECTIVE SECONDARY ANALYSIS

Study: "Tethered to the EHR" by Arndt et al. Ann Fam Med. 2017;15(5):419-426 Purpose: "The goal of this study was to assess time allocated by primary care physicians within the EHR as indicated by EHR user event log data, both during clinic hours (defined as 8:00 am to 6:00 pm Monday through Friday) and outside clinic hours."

Methods: Retrospective review of 3 years of EPIC event logs from 142 family physicians in a single system

Results: Actual average workday: 11.4 hours, including 5.4 hours of direct patient care and 6 hours of EHR time per day

Arndt BG, et al. Ann Fam Med. 2017;15(5):419-426

44

QUESTIONS ALIGNED WITH A QUALITATIVE APPROACH

What are perceived barriers to leadership for female PAs?

What are the lived experience of pediatric patients with symptoms of prolonged COVID-19 illness?

How do PA students with disabilities experience simulated patient scenarios during didactic training?

Options for Qualitative Secondary Analysis

Re-evaluating qualitative data collected for other research purposes Reviewing: Free text responses on surveys

Patient encounter notes Workplace incident reports Police reports

46

Example of Qualitative Study Derived from Secondary Data Source

A Qualitative Pilot Study of Physician Associates in Leadership Positions: Exploring the Pathways, Barriers, and Support Systems Purpose: To better understand how to facilitate growth of PAs in leadership. Methods: Qualitative phenomenological study using one-hour semi-structured interviews of 20 PA leaders recruited from the AAPA 2022 PA Practice Survey; transcripts were coded, & rich saturation of themes were identified Conclusions: This pilot study shows that dedication, training, and networking are important pathways for leadership. Removing corporate and legal barriers to PA leadership is needed.

Bouton M, et al. AAPA Research in Action ePoster, AAPA May 18, 2024. JAPPA. In press.

47

STRENGTHS OF SECONDARY RESEARCH

Cost-effective

Convenient

Greater representativeness of larger datasets will afford greater validity and more generalizability of findings

Quicker completion of study projects

Able to test new ideas, theories, frameworks, and models of research design

Johnston MP.Quant Qual Methods L. 2014;3(3):619-626

LIMITATIONS OF SECONDARY RESEARCH

Data originally collected for another purpose besides the secondary research question

Deidentification of data may negatively impact analysis

Secondary researchers had no control over data collection but are still accountable for the methodology

Johnston MP.Quant Qual Methods L. 2014;3(3):619-626

49





THREATS TO SECONDARY DATA VALIDITY

Content and construct validity misalignment

Lack of convergent or discriminant validity established with original researchers



52

Example of Invalid Secondary Data Analysis

Study: "Well-being and the early-career PA: Influence of the collaborative physician relationship" by Bernard KS. *JAPAA*. 2023;36(2):35 Purpose: "This study examined the influence of autonomy, career length, and the quality of the collaborative physician (CP) relationship on PA well-being." Methods: item measuring autonomy "What percentage of your clinical time do you spend consulting with your CP?" (measured as a raw percentage) Results: The direct effects of the percentage of clinical time that PAs spent consulting with a CP on professional fulfillment and burnout were not significant. Discussion: Autonomy is a well-established satisfier for PAs, NPs and physicians. The item used was not a valid indicator of PA autonomy.











ETHICAL CONCERNS

Nurenburg Code, Belmont Report, Declaration of Helsinki Core Principles

Respect for Persons: informed consent, privacy, autonomy Beneficence: maximize benefit & minimize harm Justice: Equitable subject selection, fairness Federal Common Rule (45 CFR 46): Exempt criteria

Institutional Review Boards



Johnston MP.Quant Qual Methods L. 2014;3(3):619-626; Sherif V. Forum: Qualitative Social Research. 2018;19(2):1-17.

59



Additional Talks

- Baseline Evidence-Based Medicine
- Introduction to Quality Improvement
- Introduction to Outcomes Research
- Mentorship: See 1 Do 1 Teach 1
 The Ins and Outs of Networking
- Using Advanced Excel Tools for Managing Your Data

For additional information Contact AAPA at research@aapa.org

Contact the faculty at kbernard@collegeofidaho.edu rmckenna@ketchum.edu

> Learn more at aapa.org/research

61

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