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# How to Build a Search Query

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The following search tools may help you build your own search terms aligned to the National PA Research Agenda. All you need to do is

- (1) pick a profession (e.g., PA, NP, or both)
- (2) a time frame (e.g., in the past 10 years), and
- (3) a search term and
- (4) enter it in the Query Box.

## Part 1: Pick a Profession

## PA

("physician assistants "[MeSH Terms])

## NP

("nurse practitioners "[MeSH Terms])

## Both

(("physician assistants "[MeSH Terms]) OR ("nurse practitioners "[MeSH Terms]))

## Part 2: Pick a Time Frame

AND ("last 10 years" [Date - Publication] )

## Part 3: Pick a Locations

## **US Only**

AND (north america[mesh:noexp] OR united states[mesh]) NOT (africa[mesh] OR asia[mesh] OR australia[mesh] OR canada[mesh] OR europe[mesh] OR south america[mesh])

For all locations

Omit the location parameter.

## Part 4: Pick a Set of Search Terms Aligned to National PA Research Agenda

## Cost-Effectiveness of PAs

AND ( ("Costs and Cost Analysis" [Mesh] OR "Efficiency" [Mesh] OR "employment" [mesh]) OR ("cost effective" OR "value" ))

### **Patient Outcomes**

AND ("Treatment Outcome" [Mesh] OR "Quality of Health Care" [Mesh])

### Access to Care

AND (( "Health Services Accessibility" [Mesh] ) OR ( "Rural Health Services" [Mesh] )OR ("access to care" OR "underserved"))

PA Supply and Demand AND "last 10 years" [Date - Publication]

PA Workforce Composition AND ("employment" [mesh] OR "characteristic" OR "demographic" OR "composition")

#### PA Readiness to Practice

AND ("employment" [mesh] OR "Professional Autonomy" [Mesh] OR "readiness to practice" or ("education" and "prepared"))

Understanding PA Roles AND ("employment" [mesh] OR "physician assistant role")

## Healthcare Team Outcomes

AND ("Patient Care Team"[Mesh] AND (("Evidence-Based Practice"[Mesh] OR "Health Services Research"[Mesh]) OR (outcome)))

## Healthcare Team Dynamics

AND ("Patient Care Team"[Mesh] AND ("Evidence-Based Practice"[Mesh] OR "Health Services Research"[Mesh] OR "Incivility"[Mesh] OR "Work Engagement"[Mesh] OR "Occupational Stress"[Mesh] "Workplace Violence"[Mesh]) OR ("relationship" or "dynamic" or "interaction"))

#### Patient Safety

AND (("Patient Safety "[Mesh]) OR ("malpractice"))

#### **PA Doctorates**

AND (("Educational Status"[Mesh]) OR ("doctorate" OR "doctoral"))

### **Clinical Sites and Preceptors**

AND (("Preceptorship"[Mesh]) OR ("clinical site" OR "clinical rotation"))

#### PA Work Settings

AND (("employment" [mesh] OR "Workplace" [Mesh]) OR ("setting"))

### PA Career Flexibility

AND ("employment" [mesh] OR "career flexibility" OR "specialty change" OR "Career change")

### **Expansion of PA Roles**

AND ("Leadership"[Mesh] OR "Teaching"[Mesh] OR "Research"[Mesh] OR "Consultants"[Mesh] OR "employment" [mesh] OR ("practice owner" OR "role expansion"))

### PA Specialization

AND ("Medicine" [Mesh] or "Primary Health Care" [Mesh])

## Impact of Regulation on PA Education

AND (("Legislation" OR "regulation") AND "education")

## Defining Quality PA Education AND ("quality" AND "Education")

## Patient Satisfaction

AND ("patient satisfaction" [mesh] OR "consumer behavior" [mesh])

#### Cost of Education

AND ("Costs and Cost Analysis" [Mesh] AND ("education" or "degree")

## Step 5: Put it Together and Search

Two examples of how the search terms will be combined.

#### PAs and NPs role increasing access to care in the past 10 years

(("physician assistants "[MeSH Terms]) OR ("nurse practitioners "[MeSH Terms])) AND ("last 10 years"[Date - Publication]) AND (north america[mesh:noexp] OR united states[mesh]) NOT (africa[mesh] OR asia[mesh] OR australia[mesh] OR canada[mesh] OR europe[mesh] OR south america[mesh]) AND (( "Health Services Accessibility" [Mesh]) OR ( "Rural Health Services" [Mesh] )OR ("access to care" OR "underserved"))

#### Patient satisfaction with PAs in the past 5 years

("physician assistants "[MeSH Terms]) AND ("last 5 years"[Date - Publication]) AND (north america[mesh:noexp] OR united states[mesh]) NOT (africa[mesh] OR asia[mesh] OR australia[mesh] OR canada[mesh] OR europe[mesh] OR south america[mesh]) AND ("patient satisfaction" [mesh] OR "consumer behavior" [mesh])

# Using MeSH to Build Additional Search Terms

MeSH stands for Medical Subject Headings. They are the specific terms used for indexing journal articles within PubMed.

On the main PubMed Page, select "Explore MeSH Database" https://pubmed.ncbi.nlm.nih.gov/

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You will get to the MeSH search tool

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		MeSH MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed.	
Using MeSH		More Resources	
Help		E-Utilities	
<u>Tutorials</u>		NLM MeSH Homepage	

Searching "Dermatology" will bring up all of the search builder topics. You can select one or more subheadings or select none. Then click add to search builder on the right hand side. This will give you a search term to add at Step 3 above.

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MeSH	MeSH	✓ dermatology Create alert Limits A	Advanced		Search	Help
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Dermatology A medical specialty c	oncerned with the s	kin, its structure, functions, disea	ses, and treatment.		PubMed Search Builder	
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☐ diagnosis ☐ diagnostic ☐ drug effect		☐ legislation and jurisprudence ☐ metabolism	statistics and numerical data		PubMed - Major Topic Clinical Queries	
economics	5	methods	☐ surgery ☐ therapy		NLM MeSH Browser	

## Selecting no subheadings

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MeSH	MeSH	<ul> <li>✓ dermatology</li> </ul>			Search
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Full 🗸				Send to: -	PubMed Search Builder
Dermatology					"Dermatology"[Mesh]
A medical specialty concern	ed with the skin	n, its structure, functions, diseas	es, and treatment.		
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complications		instrumentation	□ standards		PubMed
diagnosis		legislation and	statistics and numerical		PubMed - Major Tonic
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Full <del>+</del>				Send to: -	PubMed Search Builder
Dermatology					( "Dermatology/education"[Mesh]
A medical specialty conce	rned with the sk	in, its structure, functions, disea	ses, and treatment.		OR "Dermatology/supply and distribution"[Mesh] OR "Dermatology/trends"[Mesh] )
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classification		history	psychology		Related information
classification		immunology	radiotherapy		
diagnosis		Instrumentation	statistics and numerical		PubMed
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epidemiology			✓ trends		dbGaP Links
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