

TTUHSC Preston Smith Library
presents

How to Search PubMed®

Information for Doctor of Nursing Practice

Doctorate of Nursing Practice Student Library Orientation

Friday, November 16, 2012

Time: 8:30 am – 11:30 am, 1C Room 120

Approx. 27 students

Contact: Lauren Sullivan (3-2748)

8:30 – 8:35	5 min.	Welcome/introductions - Peggy Edwards Reference Librarians: Carrie Gassett, Margaret Vugrin
8:35 - 9:05	30 min.	PubMed Searching Demo - Peggy Edwards
9:05 - 9:35	30 min.	Live Group Practice Question/Discussion Hands-on "Systems Leadership" - Peggy Edwards
9:35 - 9:45	10 min.	Break
9:45 - 10:00	15 min.	CINAHL Searching Demo - Peggy Edwards
10:00 - 10:30	30 min.	Live Group Practice Question/Discussion Hands-on "Systems Leadership" - Peggy Edwards
10:30 - 11:20	50 min.	Solo Practice Questions
11:20 - 11:30	10 min.	Electronic Evaluations (on desktop)

To begin...

RESOURCES...

- About the Libraries
- Site Map
- Contact the Libraries
- Ask A Librarian
- Audio Guides
- Guides & Tutorials
- Distance Students
- EBM OSCE Instruction
- HEALTH SCIENCES CENTER...**

Libraries

FACTS AT A GLANCE



The TTUHS Delia Montes-Gallo Library on El Paso serves the Paul L. Foster School of Medicine and the Gayle Grever School of Nursing. The Library also serves health professionals throughout the state, and on the U.S. - Mexico border.

The library is located in two buildings: The Health Sciences Center (AEC) houses the library's electronic materials, while The Education Building (MEB) houses the library's print materials.

Privileges are available to faculty, staff and students. On-site collection is also available to the

RESEARCH TOOLS...

- Library Catalog
- Textbooks

◀ Databases

- ◀ eJournals
- ◀ Online Multimedia
- ◀ Public (non-TTUHS) Access
- ◀ Other Resources

LIBRARY SERVICES...

- ◀ Bibliographic Tools
- ◀ Downloads and Tools
- ◀ Interlibrary Loan (ILL)
- ◀ Reference Services
- Librarians @ Your Service

NEWS & ANNOUNCEMENTS...

- Ask A Librarian
- Off-campus Login (via eRaider)
- Mobile Resources
- Medline Plus
- TeamViewer 6 - Windows
- TeamViewer 6 - Mac
- NIH Clinical Alerts
- Library Cards

SEARCH...

- GO ▶
- directory
- maps
- general contacts
- site map

Hover-over Databases

- Research
- Administration
- Human Resources
- Libraries
- Accreditation
- The Daily Dose
- Emergency Preparedness
- Compliance Hotline

- PubMed
- eJournals
- Library Catalog
- Databases**
- eBooks



Search:

☒ Keywords ☐ MeSH

Popular resources by school

- Allied Health
- Biomedical
- Medicine
- Nursing
- Pharmacy

We're social!

- Facebook
- Twitter
- News
- Events
- Outages



RESOURCES...

- [About the Libraries](#)
- [Site Map](#)
- [Contact the Libraries](#)
- [Ask A Librarian](#)
- [Audio Guides](#)
- [Guides & Tutorials](#)
- [Distance Students](#)
- [EBM OSCE Instruction](#)

HEALTH SCIENCES CENTER...

- [HSC Home](#)
- [Welcome to the HSC](#)
- [Office of the President](#)
- [Campuses](#)
- [Schools](#)

[Emergency Preparedness](#)

[Compliance Hotline](#)

Libraries

FACTS AT A



Evidence Based Databases

>>

PubMed



CINAHL Plus with Full Text



EMBASE



Entrez



ISI Web of Knowledge



MD Consult



MICROMEDEX



OT Search



Ovid



Scopus



TexShare

All Databases >>

RESEARCH TOOLS...

- [Library Catalog](#)
- [Textbooks](#)
- [Maximum Simultaneous Use](#)
- [Databases](#)
- [eBooks, Theses, & Dissertations](#)
- [eJournals](#)
- [Online Multimedia](#)
- [Public \(non-TTUHSC\) Access](#)
- [Other Resources](#)

LIBRARY SERVICES...

- [Bibliographic Tools](#)
- [Downloads and Tools](#)
- [Interlibrary Loan \(ILL\)](#)
- [Reference Services](#)
- [Librarians @ Your Service](#)

NEWS & ANNOUNCEMENTS...

- [Ask A Librarian](#)
- [Off-campus Login \(via eRaider\)](#)
- [Mobile Resources](#)
- [Medline Plus](#)
- [TeamViewer 6 - Windows](#)
- [TeamViewer 6 - Mac](#)
- [NIH Clinical Alerts](#)
- [Library Cards](#)

SEARCH...

[GO](#)

- [directory](#)
- [general contacts](#)
- [maps](#)
- [site map](#)

Click PubMed

Allied Health

We're social!



FaceBook



Twitter




News



Events




Outages

 NCBI

Resources ▾ How To ▾

Sign in to NCBI

 PubMed

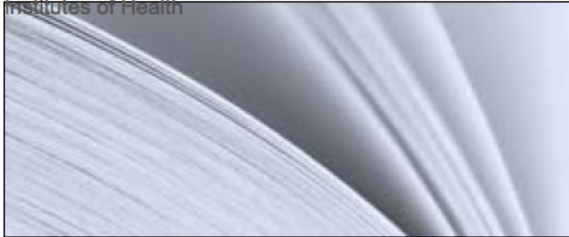
US National Library of Medicine National Institutes of Health

PubMed ▾

Advanced

Search


Help



PubMed

PubMed comprises more than 22 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

Using PubMed

- [PubMed Quick Start Guide](#)
- [Full Text Articles](#)
- [PubMed FAQs](#)
- [PubMed Tutorials](#)
- [New and Noteworthy](#) 

PubMed Tools

- [PubMed Mobile](#)
- [Single Citation Matcher](#)
- [Batch Citation Matcher](#)
- [Clinical Queries](#)
- [Topic-Specific Queries](#)

More Resources

- [MeSH Database](#)
- [Journals in NCBI Databases](#)
- [Clinical Trials](#)
- [E-Utilities](#)
- [LinkOut](#)

PubMed Home Page

Searching PubMed

PubMed

PubMed comprises more than 22 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

Using PubMed

[PubMed Quick Start Guide](#)[Full Text Articles](#)[PubMed FAQs](#)[PubMed Tutorials](#)[New and Noteworthy](#) 

PubMed Tools

[PubMed Mobile](#)[Single Citation Matcher](#)[Batch Citation Matcher](#)[Clinical Queries](#)[Topic-Specific Queries](#)

More Resources

[MeSH Database](#)[Journals in NCBI Databases](#)[Clinical Trials](#)[E-Utilities](#)[LinkOut](#)

Click MeSH Database

MeSH Database

Terms in the database are called
Medical Subject Headings or *MeSH*.

is a “controlled vocabulary list” of more than
25,000 subject headings.

10-15 *MeSH* are assigned to each article
in *PubMed*.

The *MeSH* index of 10-15 subject headings
is like a keyword abstract of the article.

MeSH are updated annually in December.

Frequently Used Mesh Categories – 2011

A Anatomy

- A1 Body Regions
- A2 Musculoskeletal System
- A3 Digestive System
- A4 Respiratory System
- A5 Urogenital System
- A6 Endocrine System
- A7 Cardiovascular System
- A8 Nervous System
- A9 Sense Organs
- A10 Tissues
- A11 Cells
- A12 Fluids and Secretions
- A13 Animal Structures
- A14 Stomatognathic System
- A15 Hemic and Immune Systems
- A16 Embryonic Structures
- A17 Integumentary System
- A18 Plant Structures
- A19 Fungal Structures
- A20 Bacterial Structures
- A21 Viral Structures

B Organisms

- B1 Eukaryota
- B2 Archaea
- B3 Bacteria
- B4 Viruses
- B5 Organism Forms

C Diseases

- C1 Bacterial Infections & Mycoses
- C2 Virus Diseases
- C3 Parasitic Diseases
- C4 Neoplasms
- C5 Musculoskeletal Diseases
- C6 Digestive System Diseases
- C7 Stomatognathic Diseases
- C8 Respiratory Tract Diseases
- C9 Otorhinolaryngologic Diseases
- C10 Nervous System Diseases
- C11 Eye Diseases
- C12 Male Urogenital Diseases
- C13 Female Urogenital Diseases
& Pregnancy Complications
- C14 Cardiovascular Diseases
- C15 Hemic & Lymphatic Diseases
- C16 Congenital, Hereditary, &
Neonatal Diseases & Abnormalities
- C17 Skin & Connective Tissue Diseases
- C18 Nutritional & Metabolic Diseases
- C19 Endocrine System Diseases
- C20 Immune System Diseases
- C21 Disorders of Environmental Origin
- C22 Animal Diseases
- C23 Pathologic Conditions,
Signs, and Symptoms
- C24 Occupational Diseases
- C25 Substance-Related Disorders
- C26 Wounds and Injuries

D Chemicals & Drugs

- D1 Inorganic Chemicals
- D2 Organic Chemicals
- D3 Heterocyclic Compounds
- D4 Polycyclic Compounds
- D5 Macromolecular Substances
- D6 Hormones, Hormone Substitutes,
& Hormone Antagonists
- D8 Enzymes, & Coenzymes
- D9 Carbohydrates
- D10 Lipids
- D12 Amino Acids, Peptides,
& Proteins
- D13 Nucleic Acids, Nucleotides,
& Nucleosides
- D20 Complex Mixtures
- D23 Biologic Factors
- D25 Biomedical and Dental Materials
- D26 Pharmaceutical Preparations
- D27 Chemical Actions and Uses

Other Categories Include:

Analytical, Diagnostic, & Therapeutic Techniques & Equipment

Psychiatry and Psychology

Biological Sciences

Natural Sciences

Anthropology, Education, Sociology & Social Phenomena

Technology, Industry, Agriculture

Information Science

Named Groups

Health Care

Publication Characteristics

Geographic Locations

Create a Search Strategy Plan

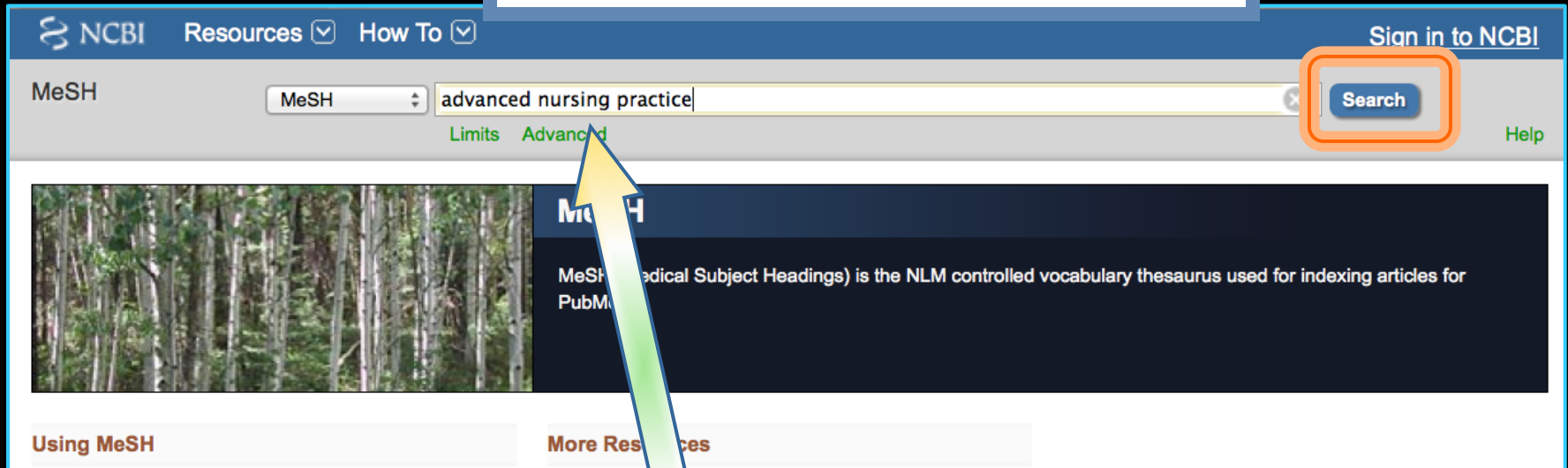
Identify the question and key concepts:

*advanced nursing practice and
trends in graduate nursing education*

Write the search program using
medical subject headings (MeSH)

and click

Search



The screenshot shows the MeSH (Medical Subject Headings) search interface. At the top, there is a navigation bar with the NCBI logo, links to 'Resources' and 'How To', and a 'Sign in to NCBI' link. Below this, the MeSH search bar is visible, containing the text 'advanced nursing practice'. To the right of the search bar is a 'Search' button, which is highlighted with an orange rectangular box. A yellow arrow points from the search bar area down to the text 'advanced nursing practice' in the bottom callout box. Below the search bar, there are links for 'Limits' and 'Advanced'. The main content area features a banner image of a forest on the left and a dark blue box on the right with the text: 'MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed'. At the bottom of the page, there are two buttons: 'Using MeSH' and 'More Resources'.

Enter

advanced nursing practice

(Note: If there is a Boolean OR relationship,
start with the "OR" statement first.)

MeSH

MeSH

advanced nursing practice

[Save search](#)[Limits](#)[Advanced](#)

Search

[Help](#)[Display Settings:](#) Full[Send to:](#)**Advanced Practice Nursing**

Evidence-based nursing, midwifery and healthcare grounded in research and scholarship. Practitioners include nurse practitioners, clinical nurse specialists, nurse anesthetists, and nurse midwives.

Year introduced: 2010

[Subheadings:](#)☐ classification☐ economics☐ education☐ ethics☐ history☐ legislation and jurisprudence☐ manpower☐ methods☐ organization and
administration☐ standards☐ statistics and numerical data☐ trends☐ Restrict to MeSH Major Topic.☐ Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): H02.478.676.074

[Entry Terms:](#)

- Nursing, Advanced Practice
- Practice Nursing, Advanced

[Previous Indexing:](#)

- [Nurse's Role \(2002-2010\)](#)

[All MeSH Categories](#)[Disciplines and](#)[Health Occupations](#)[Nursing](#)[Specialty](#)[PubMed search builder](#)[Add to search builder](#)

AND

[Search PubMed](#)[Related information](#)[PubMed](#)[PubMed - Major Topic](#)[Clinical Queries](#)[NLM MeSH Browser](#)[Search details](#)

```
advanced[All Fields] AND
("nursing"[Subheading] OR
"nursing"[MeSH Terms] OR
"breast feeding"[MeSH Terms]
OR nursing[Text Word]) AND
nursing[All Fields]
```

[See more...](#)

Term Definitions

[Turn Off](#) [Clear](#)

advanced nursing practice (1)

MeSH

[See more...](#)

MeSH

MeSH ▾

advanced nursing practice

✕

Search

[Save search](#) [Limits](#) [Advanced](#)[Help](#)[Display Settings:](#) ▾ Full[Send to:](#) ▾[PubMed search builder](#)**Advanced Practice**

Evidence-based nursing
clinical nurse specialist
Year introduced: 2011

PubMed search builder

[Subheadings:](#)

- ☐ classification
- ☐ economics
- ☐ education
- ☐ ethics

- ☐ Restrict to MeSH Major topic.
- ☐ Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): H02.478.676.074

Entry Terms:

- Nursing, Advanced Practice
- Practice Nursing, Advanced

Previous Indexing:


[All MeSH Categories](#)[Disciplines and Occupations Category](#)[Health Occupations](#)[Nursing](#)[Specialties, Nursing](#)**Advanced Practice Nursing**

Tree Structures are MeSH
terms arranged in a hierarchy.

Search details

```
advanced[All Fields] AND  
("nursing"[Subheading] OR  
"nursing"[MeSH Terms] OR  
"breast feeding"[MeSH Terms]  
OR nursing[Text Word]) AND  
practice[All Fields]
```

Search

[See more...](#)**Recent activity**[Turn Off](#) [Clear](#) advanced nursing practice (1)

MeSH

[See more...](#)

MeSH

MeSH ▾

advanced nursing practice

✕

Search

[Save search](#) [Limits](#) [Advanced](#)[Help](#)[Display Settings:](#) ▾ Full[Send to:](#) ▾

Advanced Practice Nursing

Evidence-based nursing, midwifery and healthcare grounded in research and scholarship. Practitioners include nurse practitioners, clinical nurse specialists, nurse anesthetists, and nurse midwives.

Year introduced: 2010

PubMed search builder options

[Subheadings:](#)

- | | | |
|---|--|--|
| <input type="checkbox"/> classification | <input type="checkbox"/> history | <input type="checkbox"/> organization and administration |
| <input type="checkbox"/> economics | <input type="checkbox"/> legislation and jurisprudence | <input type="checkbox"/> standards |
| <input type="checkbox"/> education | <input type="checkbox"/> manpower | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> ethics | <input type="checkbox"/> methods | <input type="checkbox"/> trends |

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Tree Number(s): H02.478.676.074

Entry Terms:

- Nursing, Advanced Practice
- Practice Nursing, Advanced

Previous Indexing:

[All MeSH Categories](#)

[Disciplines and Occupations Category](#)

[Health Occupations](#)

[Nursing](#)

[Specialties, Nursing](#)

Advanced Practice Nursing

PubMed search builder

Add to search builder

AND ▾

Search PubMed

Related information

[PubMed](#)

[PubMed - Major Topic](#)

[Clinical Queries](#)

[NLM MeSH Browser](#)

Terms are listed from
broadest to narrowest.
If *Advanced Practice Nursing*
yields zero results, try using a
broader term such as: *Nursing*

MeSH

MeSH

advanced nursing practice



Search

[Save search](#)[Limits](#)[Advanced](#)[Help](#)Display Settings: ☒ FullSend to: ☐

Advanced Practice Nursing

Evidence-based nursing, midwifery and healthcare grounded in research and scholarship. Practitioners include nurse practitioners, clinical nurse specialists, nurse anesthetists, and nurse midwives.

Year introduced: 2010

PubMed search builder options

[Subheadings:](#)

☐ classification☐ economics☐ education☐ ethics☐ history☐ legislation and jurisprudence☐ manpower☐ methods☐ organization and
administration☐ standards☐ statistics and numerical data☐ trends

PubMed search builder

Add to search builder

AND

Search PubMed

Related information

[PubMed](#)[PubMed - Major Topic](#)[Clinical Queries](#)[MeSH Browser](#)

details

```
ced[All Fields] AND  
sing"[Subheading] OR  
ing"[MeSH Terms] OR  
st feeding"[MeSH Terms]  
rsing[Text Word]) AND  
ice[All Fields]
```

[ch](#)[See more...](#)

Recent activity

[Turn Off](#) [Clear](#)

advanced nursing practice (1)

MeSH

[See more...](#)

Click

Add to search builder

[Health Occupations](#)[Nursing](#)[Specialties, Nursing](#)**Advanced Practice Nursing**

MeSH

MeSH

advanced nursing practice

[Save search](#) [Limits](#) [Advanced](#)

Search

[Help](#)[Display Settings:](#) ☒ Full[Send to:](#) ☐

Advanced Practice Nursing

Evidence-based nursing, midwifery and healthcare grounded in research and scholarship. Practitioners include nurse practitioners, clinical nurse specialists, nurse anesthetists, and nurse midwives.

Year introduced: 2010

PubMed search builder options

[Subheadings:](#)

- | | | |
|---|--|--|
| <input type="checkbox"/> classification | <input type="checkbox"/> history | <input type="checkbox"/> organization and administration |
| <input type="checkbox"/> economics | <input type="checkbox"/> legislation and jurisprudence | <input type="checkbox"/> standards |
| <input type="checkbox"/> education | <input type="checkbox"/> manpower | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> ethics | <input type="checkbox"/> methods | <input type="checkbox"/> trends |

☐ Restrict to MeSH Major Topic.

☐ Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): H02.478.676.074

Entry Terms:

- Nursing, Advanced
- Practice Nursing

Previous Indexing:

- Nurse's Role (2010)

[All MeSH Categories](#)

[Disciplines](#)

[Health](#)

[Nursing](#)

PubMed search builder

"Advanced Practice Nursing"
[Mesh]

Related information

[PubMed](#)

[PubMed - Major Topic](#)

[Clinical Queries](#)

[NLM MeSH Browser](#)

Search details

advanced[All Fields] AND
nursing"[Subheading] OR
nursing"[MeSH Terms] OR
nursing"[Text Word]) AND
practice[All Fields]

[See more...](#)

Recent activity

[Turn Off](#) [Clear](#)

advanced nursing practice (1)

[MeSH](#)

[See more...](#)

The first MeSH term is in
the search program "box"

MeSH

MeSH

graduate nursing education

Search

[Save search](#) [Limits](#) [Advanced](#)[Help](#)[Display Settings:](#) ☒ Full[Send to:](#) ☐

Advanced Practice Nursing

Evidence-based nursing, midwifery and healthcare grounded in research and scholarship. Practitioners include nurse practitioners, clinical nurse specialists, nurse anesthetists, and nurse midwives.

Year introduced: 2010

PubMed search builder options

[Sub](#)

PubMed search builder

[Add to search builder](#) [AND](#)

Enter


graduate nursing education

and click

Search

[Disciplines and Occupations Category](#)[Health Occupations](#)[Nursing](#)[Specialties, Nursing](#)**Advanced Practice Nursing**

Recent activity

[Turn Off](#) [Clear](#) advanced nursing practice (1)

MeSH

[See more...](#)

NCBI Resources How To Sign in to NCBI

MeSH MeSH graduate nursing education Search

Save search Limits Advanced Help

Display Settings: Full Send to:

Education, Nursing, Graduate

Those educational activities engaged in by holders of a bachelor's degree in nursing, which are primarily designed to prepare them for entrance into a specific field of nursing, and may lead to board certification or a more advanced degree.
Year introduced: 1966

PubMed search builder options

Subheadings:

<input type="checkbox"/> classification	<input type="checkbox"/> legislation and jurisprudence	<input type="checkbox"/> standards
<input type="checkbox"/> economics	<input type="checkbox"/> manpower	<input type="checkbox"/> statistics and numerical data
<input type="checkbox"/> ethics	<input type="checkbox"/> methods	<input checked="" type="checkbox"/> trends
<input type="checkbox"/> history	<input type="checkbox"/> organization and administration	

☐ Restrict to MeSH Major Topic.
☐ Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): I02.358.337.450, I02.358.462.565

Entry Terms:

- Postgraduate Nursing Education
- Education, Postgraduate Nursing
- Nursing Education, Graduate
- Nursing Education, Postgraduate
- Education, Nursing, Postgraduate
- Graduate Nursing Education

PubMed search builder

"Advanced Practice Nursing" [Mesh]

Add to search builder AND Search PubMed

Related information

PubMed

PubMed - Major Topic

Clinical Queries

NLM MeSH Browser

Search details

"education, nursing, graduate" [MeSH Terms] OR graduate nursing education [Text Word]

Search See more...

Sub-headings narrow the "meaning" of a **MeSH** term.

They are a "subset" of **all** the articles under the **MeSH** term: **Education, Nursing, Graduate**

MeSH

MeSH

graduate nursing education



Search

[Save search](#) [Limits](#) [Advanced](#)[Help](#)[Display Settings:](#) Full[Send to:](#)

Education, Nursing, Graduate

Those educational activities engaged in by holders of a bachelor's degree in nursing, which are primarily designed to prepare them for entrance into a specific field of nursing, and may lead to board certification or a more advanced degree.

Year introduced: 1966

PubMed search builder options

[Subheadings:](#)

- | | | |
|---|--|--|
| <input type="checkbox"/> classification | <input type="checkbox"/> legislation and jurisprudence | <input type="checkbox"/> standards |
| <input type="checkbox"/> economics | <input type="checkbox"/> manpower | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> ethics | <input type="checkbox"/> methods | <input type="checkbox"/> trends |
| <input type="checkbox"/> history | <input type="checkbox"/> organization and administration | |

☐ Restrict to MeSH Major Topic.

☐ Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): I02.358.337.450, I02.358.462.565

Entry Terms:

- Postgraduate Nursing Education
- Education, Postgraduate Nursing
- Nursing Education, Graduate
- Nursing Education, Postgraduate
- Education, Nursing, Postgraduate
- Graduate Nursing Education
- Education, Graduate Nursing

[All MeSH Categories](#)

[Anthropology, Education, Sociology and Social Phenomena Category](#)

[Education](#)

[Education, Professional](#)

[Education, Graduate](#)

Education, Nursing, Graduate

[All MeSH Categories](#)

[Anthropology, Education, Sociology and Social Phenomena Category](#)

[Education](#)

[Education, Professional](#)

[Education, Nursing](#)

Education, Nursing, Graduate

PubMed search builder

"Advanced Practice Nursing"
[Mesh]

Add to search builder

AND

Search PubMed

Related information

PubMed

PubMed - Major Topic

Clinical Queries

NLM MeSH Browser

Search details

1) Check the box next
to the subheading.

graduate nursing education (1)

Advanced Practice Nursing

advanced nursing practice (1)

[See more...](#)

83 SUBHEADINGS:

abnormalities
administrations & dosage
adverse effects
agonists
analogs & derivatives
analysis
anatomy & histology
antagonists & inhibitors
biosynthesis
blood
blood supply
cerebrospinal fluid
chemical synthesis
chemically induced
chemistry
classification
complications
congenital
contraindications
cytology
deficiency
diagnosis
diagnostic use
diet therapy
drug effects
drug therapy
economics
education

embryology
enzymology
epidemiology
ethics
ethnology
etiology
genetics
growth & development
history
immunology
injuries
innervation
instrumentation
isolation & purification
legislation & jurisprudence
manpower
metabolism
methods
microbiology
mortality
nursing
organization & administration
parasitology
pathogenicity
pathology
pharmacokinetics
pharmacology
physiology

physiopathology
poisoning
prevention & control
psychology
radiation effects
radiography
radionuclide imaging
radiotherapy
rehabilitation
secondary
secretion
standards
statistics & numerical data
supply & distribution
surgery
therapeutic use
therapy
toxicity
transmission
transplantation
trends
ultrasonography
ultrastructure
urine
utilization
veterinary
virology

MeSH

MeSH ▾

graduate nursing education



Search

[Save search](#)[Limits](#)[Advanced](#)[Help](#)

Display Settings: ▾ Full

Send to: ▾

Education, Nursing, Graduate

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Year introduced: 1966

PubMed search builder options

[Subheadings:](#)

- | | | |
|---|--|--|
| <input type="checkbox"/> classification | <input type="checkbox"/> legislation and jurisprudence | <input type="checkbox"/> standards |
| <input type="checkbox"/> economics | <input type="checkbox"/> manpower | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> ethics | <input type="checkbox"/> methods | <input checked="" type="checkbox"/> trends |
| <input type="checkbox"/> history | <input type="checkbox"/> organization and administration | |

☐ Restrict to MeSH Major Topic.

☐ Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): I02.358.337.450, I02.358.462.565

Entry Terms:

- Postgraduate Nursing Education
- Education, Postgraduate Nursing
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- Nursing Education, Postgraduate
- Education, Nursing, Postgraduate
- Graduate Nursing Education
- Education, Graduate Nursing

[All MeSH Categories](#)

[Anthropology, Education, Sociology and Social Phenomena Category](#)

[Education](#)

[Education, Professional](#)

[Education, Graduate](#)

Education, Nursing, Graduate

[All MeSH Categories](#)

[Anthropology, Education, Sociology and Social Phenomena Category](#)

[Education](#)

[Education, Professional](#)

[Education, Nursing](#)

Education, Nursing, Graduate

PubMed search builder

"Advanced Practice Nursing"
[Mesh]

Add to search builder

AND ▾

Search PubMed

Related information

PubMed

PubMed - Major Topic

Clinical Queries

NLM MeSH Browser

Search details

"education, nursing
graduate" [MeSH Term] OR

Click

Add to search builder

Advanced Practice Nursing

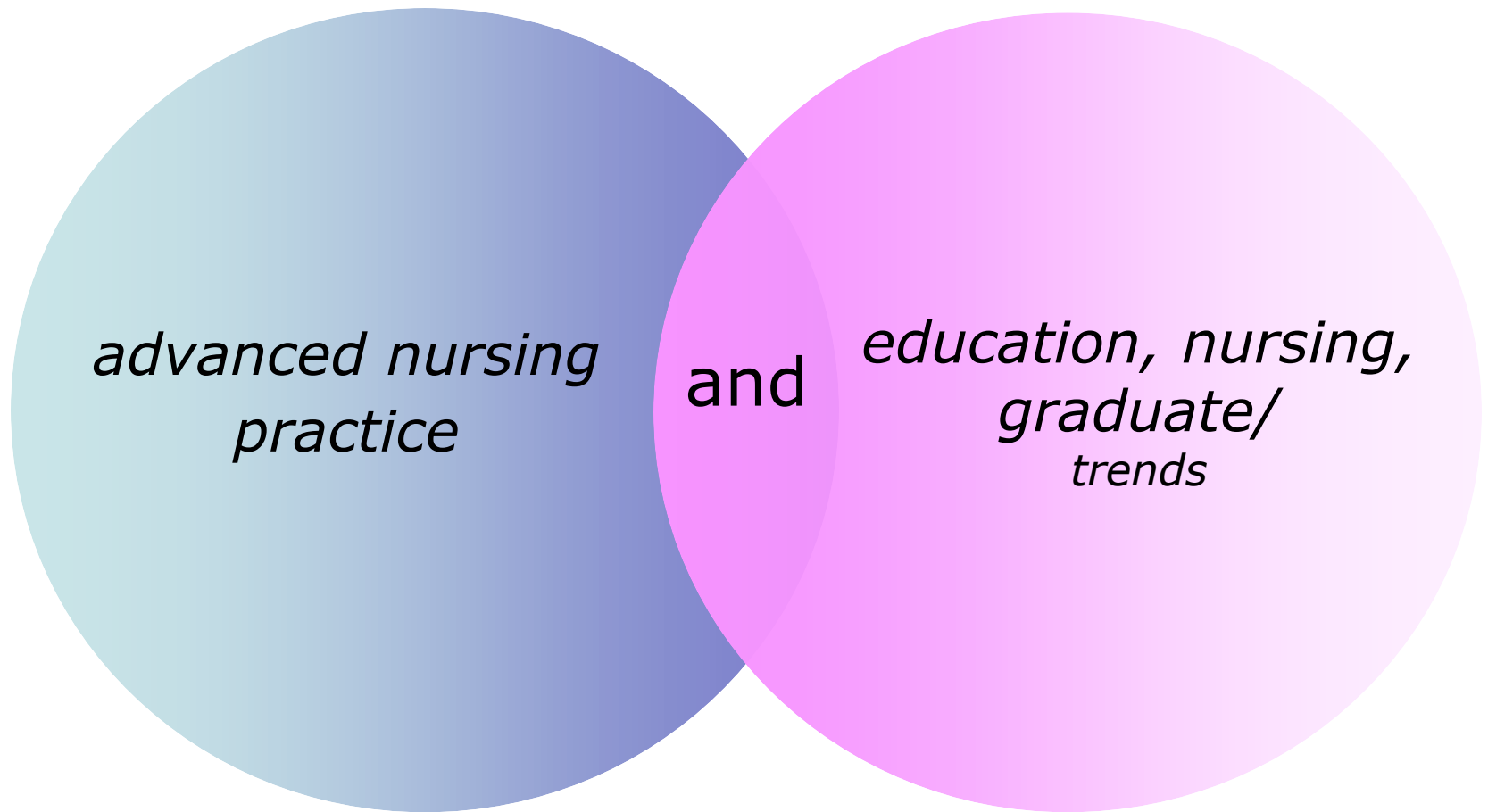
MeSH

advanced nursing practice (1)

MeSH

[See more...](#)

Boolean Logic - AND



MeSH MeSH graduate nursing education

Search

Help

Final Search Strategy

ily designed to prepare them

Send to: ▾

PubMed search builder

("Advanced Practice Nursing" [Mesh]) AND "Education, Nursing, Graduate/trends" [Mesh]

Add to search builder

AND ▾

Search PubMed

Related Education

PubMed

PubMed for Topic

Clinical Cases

NLM MeSH browser

Search cases

"education, nursing, graduate/trends" [MeSH Terms] OR graduate nursing

Subheadings:

- | | | |
|---|--|--|
| <input type="checkbox"/> classification | <input type="checkbox"/> legislation and jurisprudence | <input type="checkbox"/> standards |
| <input type="checkbox"/> economics | <input type="checkbox"/> manpower | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> ethics | <input type="checkbox"/> methods | <input checked="" type="checkbox"/> trends |
| <input type="checkbox"/> history | <input type="checkbox"/> organization and administration | |

☐ Restrict to MeSH Major Topic.

☐ Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): 102.358.337.450, 102.358.462.565

Entry Terms:

- Postgraduate Nursing Education
- Education, Postgraduate Nursing
- Nursing Education, Graduate
- Nursing Education, Postgraduate
- Education, Nursing, Postgraduate
- Graduate Nursing Education
- Education, Graduate Nursing

All MeSH Categories

Anthropology, Education, Sociology and Social Phenomena Category

Education

Education, Professional

Education, Graduate

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University of North Carolina at Chapel Hill, School of Nursing, Chapel Hill, NC 27599, USA. lcronenwett@unc.edu

Abstract

In 2004, the American Association of Colleges of Nursing (AACN) adopted a position statement concerning the future of advanced practice nursing education. A target date of 2015 was articulated as the point by which master's preparation for advanced practice nurses would be replaced by doctoral level education. Seismic shifts in the realities surrounding nursing education and practice have occurred since the proposal to require a Doctor of Nursing Practice (DNP) degree for entry into advanced practice nursing was proposed. Unprecedented economic challenges have resulted in significant budget downturns for all sectors, including higher education. The consequent cutbacks, furloughs, and restructuring in educational operations of all types have placed enormous demands on faculty, staff, and students across the country. In addition, the growing incidence and earlier onset of chronic disease, a rapidly aging population, health care reform agendas, a shortage of primary care practitioners, and projected severe shortages of nursing faculty have raised fundamental questions about the capacity of nursing education to produce the numbers of advanced practice nurses needed. This article addresses the changing realities and growing concerns associated with the future of advanced practice nursing. Recommendations to ensure continuing development of advanced nursing practice that serves the interests and needs of the public now and in the future are presented within the context of a national workforce perspective.

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Rhodes MK.

Auburn Montgomery School of Nursing, USA. mrhodes2@aum.edu

Abstract

In October 2004 the American Association of Colleges of Nursing (AACN) endorsed a single entry degree for advanced practice nurses (APNs) beginning in 2015. This article examines graduate nursing programs. Currently 153 DNP programs have enrolled students at various stages of development. This article will examine real and potential outcomes of having an APN practice using an effects-based-reasoning framework. The author begins with a description of the initiative and an explanation of effects-based reasoning. Within an effects-based framework, the rejection of the DNP initiative by APN programs and professional organizations, and the nursing community. Concluding observations will be shared.

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Linda Cronenwett, Kathleen Dracup, Margaret Grey, Linda McCauley, Afaf Meleis, Maria Salmon
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The Doctor of Nursing Practice: A national workforce perspective

Linda Cronenwett, PhD, RN, FAAN^{a,*}, Kathleen Dracup, DNSc, RN, FAAN^b,
Margaret Grey, DrPH, RN, FAAN^c, Linda McCauley, PhD, RN, FAOHN, FAAN^d,
Afaf Meleis, PhD, FAAN^e, Marla Salmon, ScD, RN, FAAN^f

^a University of North Carolina at Chapel Hill, Chapel Hill, NC

^b University of California San Francisco, San Francisco, CA

^c Yale University, New Haven, CT

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^f University of Washington, Seattle, WA

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ABSTRACT

In 2004, the American Association of Colleges of Nursing (AACN) adopted a position statement concerning the future of advanced practice nursing education. A target date of 2015 was articulated as the point by which preparation for advanced practice nurses would be replaced by education. Seismic shifts in the realities surrounding nursing practice have occurred since the proposal to require a Doctor of Nursing Practice (DNP) degree for entry into advanced practice nursing was proposed. Budget cuts and economic challenges have resulted in significant budget cuts in all sectors, including higher education. The consequent cutbacks, restructuring in educational operations of all types have placed increased demands on faculty, staff, and students across the country. In addition, the growing incidence and earlier onset of chronic disease, a rapid aging population, health care reform agendas, a shortage of primary care physicians, and projected severe shortages of nursing faculty have raised questions about the capacity of nursing education to produce the number of advanced practice nurses needed. This article addresses the challenges and growing concerns associated with the future of advanced practice nursing education. Recommendations to ensure continuing development of advanced practice that serves the interests and needs of the public now and in the future are presented within the context of a national workforce perspective.

Cite this article: Cronenwett, L., Dracup, K., Grey, M., McCauley, L., Meleis, A., & Salmon, M. (2011, FEBRUARY). The Doctor of Nursing Practice: A national workforce perspective. *Nursing Outlook*, 59(1), 9–17. doi:10.1016/j.outlook.2010.11.003

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* Corresponding author: Dr. Linda Cronenwett, University of North Carolina at Chapel Hill, School of Nursing, Carrington Hall, Campus Box 7460, Chapel Hill, NC 27599.

E-mail address: lcronenwett@unc.edu (L. Cronenwett).

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Year introduced: 1990

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3. Component of the NATIONAL INSTITUTES OF HEALTH. It conducts and supports research into the mapping of the **human genome** and other organism genomes. The National Center for **Human Genome** Research was established in 1989 and re-named the National **Human Genome** Research Institute in 1997.
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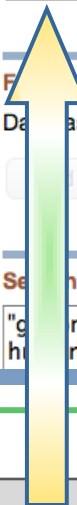
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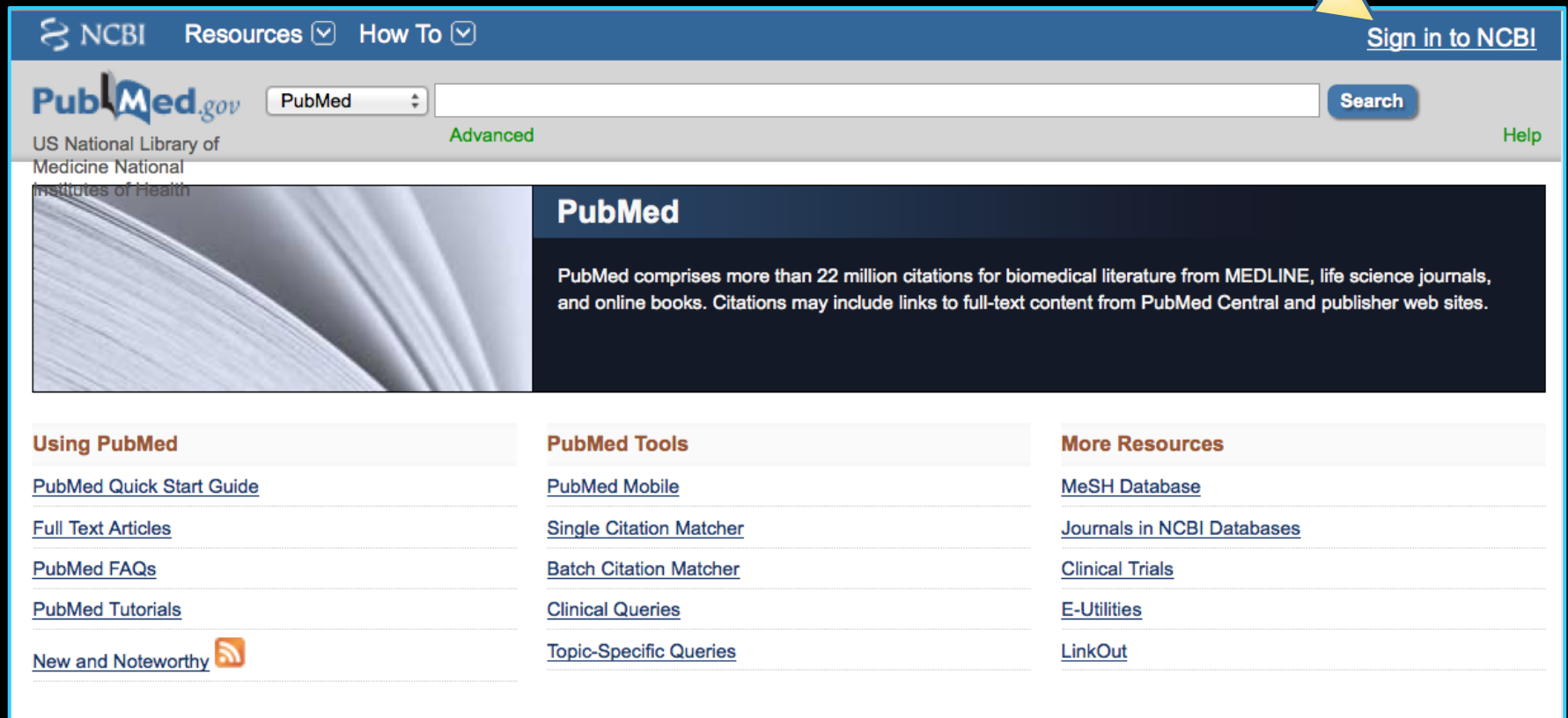
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Collection Name	Items	Settings/Sharing	Type
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My Bibliography	edit 0	Private	Standard
Other Citations	edit 0	Private	Standard

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Recent Activity

Time	Database	Type	Term
6:53 PM	PubMed	search	((("Alanine"[Mesh] OR "Threonine"[M...

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Filters

Filters for: PubMed

Click Manage Filters



[Manage Filters »](#)

My NCBI — Filters

You are managing filters for: PubMed Choose another

Your PubMed filter list

Create custom filter

Browse/Search for PubMed Filters

Select category:

☒ Popular

☐ LinkOut

☐ Properties

☐ Links

Search with terms (optional):

Search

Active	Name	Description
<input type="checkbox"/>	Clinical Trial	
<input type="checkbox"/>	English	
<input checked="" type="checkbox"/>	English & Humans	
<input type="checkbox"/>	Free Full Text	links to Web accessible full text articles (all available free of charge)
<input type="checkbox"/>	Full Text	links to Web accessible full text articles (some may require subscription)
<input type="checkbox"/>	Humans	
<input type="checkbox"/>	Items with Abstracts	
<input type="checkbox"/>	Published in the last 5 years	
<input type="checkbox"/>	Review	articles that review the literature on a subject

Select Properties

Select English & Humans

My NCBI — Filters

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database: PubMed (9 active) ▾

Search for PubMed Filters

☐ Popular ☐ LinkOut ☒ Properties ☐ Links

Search with terms (optional):

Active	Name	Description
<input checked="" type="checkbox"/>	Meta-analysis	
<input type="checkbox"/>	Multicenter Study	
<input type="checkbox"/>	News	
<input type="checkbox"/>	Newspaper Article	
<input type="checkbox"/>	Overall	
<input type="checkbox"/>	Patient Education Handout	
<input type="checkbox"/>	Periodical Index	
<input type="checkbox"/>	Portraits	
<input checked="" type="checkbox"/>	Practice Guideline	
<input type="checkbox"/>	Published Erratum	
<input checked="" type="checkbox"/>	Randomized Controlled Trial	

Active	Name	Description
<input checked="" type="checkbox"/>	Age Groups	
<input checked="" type="checkbox"/>	Clinical Queries	
<input checked="" type="checkbox"/>	Entrez (Entered) Date	
<input checked="" type="checkbox"/>	Gender	
<input checked="" type="checkbox"/>	Health Services Research Queries	
<input checked="" type="checkbox"/>	Humans or Animals	
<input checked="" type="checkbox"/>	Languages	
<input checked="" type="checkbox"/>	Other	
<input checked="" type="checkbox"/>	Publication Date	
<input checked="" type="checkbox"/>	Publication Types	



Under Publication Types select

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You are managing filters for: PubMed

Choose another database: PubMed (9 active)

Your PubMed filter list

[Create custom filter](#)

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Select category:

☐ Popular ☐ LinkOut ☒ Properties ☐ Links

Search with terms (optional):

Under Subsets select

Active	Name	Description
<input checked="" type="checkbox"/> Subsets		
<input type="checkbox"/>	AIDS	Strategy created to facilitate searching for citations in the area of AIDS.
<input checked="" type="checkbox"/>	Nursing Journals	Citations to articles in nursing journals.
<input checked="" type="checkbox"/>	Systematic Reviews	Strategy intended to retrieve citations for systematic reviews, meta-analyses, reviews of clinical trials, guidelines, and similar articles.

My NCBI — Filters

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You are managing filters for: PubMed

Choose another database: PubMed (9 active)

Your PubMed filter list

Create custom filter

Active	Name	Type
<input checked="" type="checkbox"/>	All Adult	Standard filter
<input checked="" type="checkbox"/>	All Child	Standard filter
<input checked="" type="checkbox"/>	All Infant	Standard filter
<input checked="" type="checkbox"/>	English & Humans	Standard filter
<input checked="" type="checkbox"/>	Meta-analysis	Standard filter
<input checked="" type="checkbox"/>	Nursing Journals	Standard filter
<input checked="" type="checkbox"/>	Practice Guideline	Standard filter
<input checked="" type="checkbox"/>	Randomized Controlled Trial	Standard filter
<input checked="" type="checkbox"/>	Systematic Reviews	Standard filter

Browse/Search for PubMed Filters

Select category:

☐ Popular ☐ LinkOut ☒ Properties ☐ Links

Search with terms (optional):

You may select up to 15 filters. These selections override the default filters of Review and Free Full Text. These filters apply to searches run while signed into you're My NCBI account.

Example of results with customized filters

NCBI Resources ▾ How To ▾

PubMed.gov
US National Library of Medicine National Institutes of Health
[Show additional filters](#)

PubMed ▾ ("Advanced Practice Nursing"[Me
[RSS](#) [Save search](#) [Advanced](#) [Help](#)

Display Settings: ▾ Summary, 20 per page, Sorted by Recently Added **Filter your results:** ▾

Results: 1 to 20 of 29 << First < Prev Page 1 of 2 Next > >>

☐ [Using effects-based reasoning to examine the DNP as the single entry degree for advanced practice nursing.](#)
Rhodes MK.
Online J Issues Nurs. 2011 Jun 27;16(3):8. doi: 10.3912/OJIN.Vol16No03PPT01.
PMID: 22324574 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐ [\[Advanced practices in nursing, the American example\].](#)
2. Debout C.
Soins Psychiatr. 2011 Nov-Dec;(277):18-22. French.
PMID: 22165329 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐ [Furthering the educational preparation of all advanced practice nursing.](#)
3. Santoro PW, Kennedy HP.
Nurs Outlook. 2011 Nov-Dec;59(6):e2. doi: 10.1016/j.outlook.2011.08.005. Epub 2011 Oct 13. No abstract available.
PMID: 22000690 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐ [\[Advanced nursing practice - a path to better health care? The country needs specialists\].](#)
4. Gerlach A.
Pflege Z. 2011 Jul;64(7):406-9. German. No abstract available.
PMID: 21845895 [PubMed - indexed for MEDLINE]
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Filter your results:

- All (29)
- All Adult (0)
- All Child (1)
- All Infant (0)
- English & Humans (22)
- Meta-analysis (0)
- Nursing Journals (28)
- Practice Guideline (0)
- Randomized Controlled Trial (0)
- Systematic Reviews (0)

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Database: [Find items](#)

Search details

"Advanced Practice Nursing"[Mesh] AND "Education, Nursing, Graduate/trends"[Mesh]

Example of results with standard filters

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ND "Education, Nursing, Graduate/trends"[Mesh] Search Help

Recently Added Send to: Filter your results:

Clear all

Text availability
Abstract available
Full text available

Publication dates
5 years
10 years
Custom range

Species
Humans

Article type
more ...

Languages
✓ English
more ...

Clear all
Show additional filters

Results: 1 to 20 of 22

Filters activated: English Clear all

1. Using effects-based reasoning to examine the DNP as the single entry degree for advanced practice nursing.
Rhodes MK.
Online J Issues Nurs. 2011 Jun 27;16(3):8. doi: 10.3912/OJIN.Vol16No03PPT01.
PMID: 22324574 [PubMed - indexed for MEDLINE]
Related citations

2. Furthering the educational preparation of all advanced practice nursing.
Santoro PW, Kennedy HP.
Nurs Outlook. 2011 Nov-Dec;59(6):e2. doi: 10.1016/j.outlook.2011.08.005. Epub 2011 Oct 13. No abstract available.
PMID: 22000690 [PubMed - indexed for MEDLINE]
Related citations

3. U.S. nursing schools transform master's education by adopting new standards reflecting contemporary nursing practice.
[No authors listed]
J Prof Nurs. 2011 May-Jun;27(3):131-2. No abstract available.
PMID: 21739766 [PubMed - indexed for MEDLINE]
Related citations

4. Re: The Doctor of Nursing Practice: a national workforce perspective.
Curtis AC, Kelly KA.
Nurs Outlook. 2011 May-Jun;59(3):133-4; author reply 135-6. No abstract available.
PMID: 21565588 [PubMed - indexed for MEDLINE]
Related citations

All (22)
All Adult (0)
All Child (0)
All Infant (0)
English & Humans (22)
Meta-analysis (0)
Nursing Journals (21)
Practice Guideline (0)
Randomized Controlled Trial (0)
Systematic Reviews (0)
Manage Filters

Find related data
Database: Select
Find items

Search details
"Advanced Practice Nursing"[Mesh] AND
"Education, Nursing, Graduate/trends"
[Mesh] AND English[lang]
Search See more...

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PubMed.gov PubMed ("Advanced Practice Nursing"[Mesh]) AND "Education, Nursing, Graduate/trends"[Mesh] Search

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Clear all

Text availability
Abstract available
Full text available

Publication dates clear
5 years
10 years
Custom range...

Species
Humans

Article types
more ...

Languages clear
English
more ...

Clear all
Show additional filters

Results: 1 to 20 of 22 Selected: 1 << First < Prev Page 1 of 2 Next > Last >>

Filters activated: published in the last 5 years, English Clear all

1. [Using effects-based reasoning to examine the DNP as the single entry degree for advanced practice nursing.](#)
Rhodes MK.
Online J Issues Nurs. 2011 Jun 27;16(3):8. doi: 10.3912/OJIN.Vol16No03PPT01.
PMID: 22324574 [PubMed - indexed for MEDLINE]
[Related citations](#)

2. [Furthering the educational preparation of all advanced practice nursing.](#)
Santoro PW, Kennedy HP.
Nurs Outlook. 2011 Nov-Dec;59(6):e2. doi: 10.1016/j.outlook.2011.08.005. Epub 2011 Oct 13.
No abstract available.
PMID: 22000690 [PubMed - indexed for MEDLINE]
[Related citations](#)

3. [U.S. nursing schools transform master's education by adopting new standards reflecting contemporary nursing practice.](#)
[No authors listed]
J Prof Nurs. 2011 May-Jun;27(3):131-2. No abstract available.
PMID: 21739766 [PubMed - indexed for MEDLINE]
[Related citations](#)

Find related data
Database: Select
Find items

Search details
"Advanced Practice Nursing"[Mesh] AND "Education, Nursing, Graduate/trends"[Mesh] AND ("2007/11/12"[PDat] : "2012/11/09"[PDat] AND English[lang])
Search See more...

Recent activity
Turn Off Clear
("Advanced Practice Nursing"[Mesh]) AND "Education, Nursing, Graduate/trends"[Mesh] PubMed
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[Saved Searches help](#)

Your PubMed search

Search: ("Advanced Practice Nursing"[Mesh]) AND "Education, Nursing, Graduate/trends"[Mesh]

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Name of Search:



Click **Save** to receive automatic email updates of newly published articles on this topic.



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Search: ("Advanced Practice Nursing"[Mesh]) AND "Edu

Filters: English

Name of Search: ("Advanced Practice N

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OR

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Search Name	What's New	Last Searched
PubMed Searches		
("Advanced Practice Nursing" [Mesh]) AND "Educat...	0	today

[Manage Saved Searches »](#)

Collections

Collection Name	Items	Type
Favorites edit	0	Standard
My Bibliography edit	0	Standard
Other Citations edit	0	Standard

Click

[Manage Collections »](#)

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