Searching for the Evidence

Steve Clancy, MLS
Research Librarian for Health Sciences & Nursing Science

January 8, 2018
Agenda

- Developing the Clinical Question: “Repositioning for Pressure Ulcers”
  - CINAHL
  - PubMed
  - Google Scholar
- Systematic Reviews & Meta-analyses
- Practice Guidelines & Protocols
- Using Bibliographic Management Software
- Finding High Quality Evidence
- Which Database Should I Use?
- Resources You May Not Know About!
- Poster Printing at the Library
- Publish with eScholarship!
Topic: Repositioning for Pressure Ulcers

Pressure ulcers (bed sores) are common, costly and impact negatively on patients. Pressure is the prime cause, and immobility is the factor that exposes individuals to pressure.

International guidelines advocate repositioning; however, there is currently no consensus surrounding the best method and frequency required.

You would like to find empirical evidence (primary), and if possible, guidelines, protocols, and systematic reviews (secondary) that address different methods and/or different frequencies of repositioning bedridden patients to reduce or eliminate the occurrence of pressure ulcers.
The Clinical Question

This is a potentially complex question because there are several factors to consider including the frequency of repositioning, different positions (rotation, degree of tilt), etc.

It may be best to ask a more general question focusing on one aspect rather than all possible methods or frequencies of repositioning.

Several searches may be necessary to fully explore the topic.

An example of a good clinical question would be:

“In bedridden patients at risk for pressure ulcers is there an optimal repositioning frequency that is effective for the reduction or elimination of pressure ulcers?”

If relevant for your investigation, you may also wish to add additional parameters such as the age or gender of the patient/population, the specific medical condition,
P (Patient/Problem) = Patients at risk for pressure ulcers

I (Intervention) = Repositioning Frequency/Frequent Repositioning

C (Comparison Intervention) = No Repositioning/Less Frequent Repositioning

O (Outcome) = Reduction/Elimination/Prevention/Occurrence/Recurrence of pressure ulcers [These last terms could be added to a search if there are too many results]

T = Time: What is the time frame for the Tx to produce an outcome? [This element is not always included]
CINAHL Plus with Full Text

- Covers nursing and allied health

- Some full text. Use the UC-eLinks for articles not immediately available as full text.

- Use to find primary empirical research, protocols, practice guidelines, etc.

- You can narrow your results by using “Limiters” such as Publication Type, Peer Reviewed, Research Article, Evidence-Based Practice, Age Groups, and others.
Search for the primary evidence

- pressure ulcers AND repositioning  [a simple broad search]
- pressure ulcers AND repositioning AND frequency  [more specific]
- (pressure ulcer* OR bed sore*) AND reposition* AND (frequen* OR hourly) [use of synonyms]
  - Limiters - Published Date: 20000101-20181231; English Language; Research Article; Age Groups: Aged: 65+ years

Pubmed@uci

- Covers clinical and research medicine, life sciences, as well as nursing and allied health

- **No** full text. Use the UC-eLinks for article full-text

- Use to find primary empirical research, protocols, practice guidelines, etc.

- You can limit results by using Filters such as Publication Type, Ages, and specific subject terms
Search for the primary evidence

- (pressure ulcers OR bed sores) AND (reposition OR repositioned OR repositioning) AND (frequency OR frequent OR frequently OR hourly)
  - Filters: Clinical Trial; published in the last 10 years; English; Adult: 19+ years

Google Scholar

Why use it?

- May retrieve some items not found in the library databases
- Full-text is often available from other sources
- Includes UC-eLinks when configured properly
- Limits retrieval to mostly academic sources
- Has features such as “Cite” “Cited by” “Related Articles”

However, Google Scholar has no journal selection committee or quality filters. Content consists of whatever the “crawlers” are able to find.

Google Scholar: Setting up the UC-eLinks

Google Scholar

Articles  Case law

Stand on the shoulders of giants
Google Scholar: Setting up the UC-eLinks (cont)

2. Click on My library.
Google Scholar: Setting up the UC-eLinks (cont)

3. Show library access links for (choose up to five libraries):

    Search results  Languages  Library links  Account  Button

    university of california, irvine

e.g., Harvard

4. Search for these two links

    University of California, Irvine - UC-eLinks
    Open WorldCat - Library Search

5. Online access to library subscriptions is usually restricted to patrons of that library. You may need to login with your library password, use a campus computer, or configure your browser to use a library proxy. Please visit your library’s website or ask a local librarian for assistance.

To retain settings, you must turn on cookies.
Pressure ulcer prevalence in Europe: a pilot study
K Vanderwee, M Clark, C Dealey... - Journal of evaluation ..., 2007 - Wiley Online Library
... The ulcer is superficial and presents clinically as an abrasion or blister... defined as being non-specialist (e.g. standard hospital mattress), as non-powered (e.g. pressure reducing foam) Furthermore, it was also recorded whether the patient received manual repositioning in bed or...

Does regular repositioning prevent pressure ulcers?
LA Krafpl, M Gray - Journal of Wound Ostomy & Continence ..., 2008 - journals.lww.com
... can generally be classified as (1) assessment (including PU risk assessment); (2) pressure redistribution; (3) the patient every 2 hours based on studies of measurement of tissue interface pressures in healthy... as turning the patient from side to side when lying in the bed or similar...

The effect of various combinations of turning and pressure reducing devices on the incidence of pressure ulcers
T Defloor, D De Bacquer, MHF Grypdonck - International journal of nursing ..., 2005 - Elsevier
... In the semi-Fowler position the head end of the bed and the feet were elevated 30°. In a previous study on 62 healthy experimental subjects interface pressures were measured in 10... position was recorded in the semi-Fowler position and the lowest maximum pressure in lateral...

Repositioning to prevent pressure sores—what is the evidence?
M Clark - Nursing Standard, 1998 - journals.rcni.com
... remaining 32 patients were all considered to be immobile in bed and were... repositioning schedules on four outcome measures: skin temperature, contact (interface) pressure, pain, and... this rise most marked at the greater trochanters, while contact pressures remained similar...

Effectiveness of turning with unequal time intervals on the incidence of pressure ulcer lesions
K Vanderwee, MHF Grypdonck... - Journal of advanced ..., 2007 - Wiley Online Library
... In a laterally lying position, the lateral 30° position resulted in the lowest contact pressures... movements during the night, and maximum duration of sitting out of bed (Schoonhoven et... these factors was found to be a statistically significant predictor of pressure ulcer development...
Systematic Reviews & Meta-Analyses

- An example of **Secondary evidence**. Used to review and analyze quantitative studies.

- Important medical questions are typically studied more than once, often by different research teams in different locations.

- A **systematic review** is a comprehensive survey of a topic in which all of the primary studies of the highest level of evidence have been systematically identified, appraised and then summarized according to an explicit and reproducible methodology.

- A **meta-analysis** is a survey in which the results of all of the included studies are similar enough statistically that the results are combined and analyzed as if they were one study. In general a good systematic review or meta-analysis will be a better guide to practice than an individual article.
CINAHL Search: Systematic Reviews & Meta-analyses

- (pressure ulcer* OR bed sore*) AND prevent*
  - Limiters - English Language; Publication Type: Meta Analysis, Systematic Review

Effectiveness of Pressure Ulcer Prevention Strategies for Adult Patients in Intensive Care Units: A Systematic Review.

Dressings for Preventing Pressure Ulcers: A Meta-analysis.

Preventing pressure ulcers—Are pressure-redistributing support surfaces effective? A Cochrane systematic review and meta-analysis.
PubMed Search: Systematic Reviews & Meta-analyses

- (pressure ulcers OR bed sores) AND prevention
  - Filters: Systematic Reviews; Meta Analysis; published in the last 10 years; English

Risk factors for pressure injuries among critical care patients: A systematic review.

Efficacy of Monitoring Devices in Support of Prevention of Pressure Injuries: Systematic Review and Meta-analysis..
Adv Skin Wound Care. 2016 Dec;29(12):567-574. PMID: 27846030
Cochrane Library: Database of Systematic Reviews

The Cochrane Library’s **Database of Systematic Reviews** can also be used to locate systematic reviews & meta-analyses.

- **pressure ulcers** in Title, Abstract or Keywords and **frequency OR repositioning** in **Cochrane Reviews**

  - Repositioning for treating pressure ulcers
    Zena EH Moore, Seamus Cowman
    Online Publication Date: January 2015
    
    (A systematic review of randomized controlled trials comparing repositioning with no repositioning, different repositioning techniques, or different repositioning frequencies for the **HEALING** [not prevention] of pressure ulcers. Controlled clinical trials (CCTs) were only to be considered in the absence of RCTs.)

HOWEVER, in this case, the authors were unable to identify any studies that met the inclusion criteria. So no conclusions were drawn! More research is needed:

“**Therefore, we do not know whether repositioning people makes any difference to the healing rates of pressure ulcers.**”
Practice Guidelines & Protocols

- “Clinical practice guidelines are systematically developed statements to assist practitioner and patient decisions about appropriate health care for specific clinical circumstances.” (Institute of Medicine, 1990)

- Issued by third-party organizations … these guidelines define the role of specific diagnostic and treatment modalities in the diagnosis and management of patients. The statements contain recommendations that are based on evidence from a rigorous systematic review and synthesis of the published medical literature. (https://nccih.nih.gov/health/providers/clinicalpractice.htm)

- Clinical Protocols: “Precise and detailed plans for the study of a medical or biomedical problem and/or plans for a regimen of therapy.” (https://www.ncbi.nlm.nih.gov/mesh/68002985)

- Nursing protocols: “Written plans specifying the procedure to be followed by nurses in supplying services or in providing care for a particular condition.” (CINAHL Heading Scope Note)
Practice Guidelines
The National Guideline Clearinghouse
(https://www.guideline.gov)

The National Guideline Clearinghouse is a public resource for evidence-based clinical practice guidelines and is part of the Agency for Healthcare Research and Quality (https://www.ahrq.gov).

Example: pressure ulcers and prevention

  - Wound, Ostomy and Continence Nurses Society

  - Hartford Institute for Geriatric Nursing

Risk assessment and prevention of pressure ulcers: a clinical practice guideline from the American College of Physicians. NGC:010650 2015 Mar 3
  - American College of Physicians

  - European Pressure Ulcer Advisory Panel; National Pressure Ulcer Advisory Panel; Pan Pacific Pressure Injury Alliance
CINAHL Search for Guidelines & Protocols

- (pressure ulcer* OR bed sore*) AND prevent*
  Limits: English Language; Publication Type: Practice Guidelines

- (pressure ulcer* OR bed sore*) AND prevent*
  Limits: English Language; Publication Type: Protocol

- ((pressure ulcer* OR bed sore*) AND prevent*) AND (MH "Nursing Protocols+)")
PubMed Search for Guidelines & Protocols

- (pressure ulcers OR bed sores) AND prevention
  - Filters: Practice Guideline; published in the last 10 years; English


- (pressure ulcers OR bed sores) AND prevention AND "Clinical Protocols"[Mesh] OR program OR programs
  - Filters: published in the last 10 years; English

Practice Guidelines

Other Sources for Guidelines

- **AHRQ (Agency for Healthcare Research and Quality) Evidence Reports**
  - These reports can be useful for informing and developing coverage decisions, quality measures, educational materials and tools, guidelines, and research agendas.

- **National Institute for Health and Clinical Excellence (NI CE)**
  https://www.nice.org.uk/
  - NICE is based in London and is a primary resource for Britain’s National Health Service. They develop evidence-based guidelines on the most effective ways to diagnose, treat and prevent disease and ill health.

- **U.S. Preventive Services Task Force: Recommendations**
  https://www.uspreventiveservicestaskforce.org/
  - The USPSTF is an independent panel of non-Federal experts in prevention and evidence-based medicine and is composed of primary care providers (such as internists, pediatricians, family physicians, gynecologists/obstetricians, nurses, and health behavior specialists). The USPSTF conducts scientific evidence reviews of a broad range of clinical preventive health care services (such as screening, counseling, and preventive medications) and develops recommendations for primary care clinicians and health systems. These recommendations are published in the form of "Published Recommendations" - https://www.uspreventiveservicestaskforce.org/BrowseRec/Index
Practice Guidelines

Other Sources for Guidelines

Healthcare Organizations: Many national and international healthcare-related organizations publish guidelines on their websites and/or in their major publications. Most will likely wind up on the NGC website, but are often first available on the organization's website or in their publications.

- **American Congress of Obstetricians and Gynecologists (ACOG)** (formerly the American College of Obstetricians and Gynecologists) - [http://www.acog.org](http://www.acog.org)
  Some of the guidelines/practice bulletins appear to be in a members-only section.


- **American Academy of Family Physicians** - [https://www.aafp.org/patient-care/browse/all-recommendations-topic.html](https://www.aafp.org/patient-care/browse/all-recommendations-topic.html)

- **National Quality Measures Clearinghouse** - [https://www.qualitymeasures.ahrq.gov/](https://www.qualitymeasures.ahrq.gov/)
  A public resource for summaries of evidence-based quality measures and measure sets.
Bibliographic Management Software

- Bibliographic management software allows you to create and track references (aka citations) and to create in-text citations, bibliographies, and reference lists formatted in the appropriate style, such as APA.

- You can export records from databases such as PubMed, CINAHL, PsycInfo, Web of Science and many others into your personal database.

- Search and organize your own references.

- Those commonly used include EndNote, Zotero, and Mendeley.

Overviews at [http://guides.lib.uci.edu/bms](http://guides.lib.uci.edu/bms)
EndNoteWeb and EndNote Desktop

EndNoteWeb ([http://www.myendnoteweb.com](http://www.myendnoteweb.com))

- Requires free registration to access
- The "Cite While You Write Plug-In" will allow you to insert references, and format citations and bibliographies automatically while you write your papers in Word.
- Can include links to full text when available.
- More limited than the desktop software; can only use a single database/library

EndNote X8 (Desktop version – Mac or Windows)

- Pay version (see the Nursing Librarian for obtaining a special discount)
- Also uses the "Cite While You Write Plug-In"
- Allows unlimited, separate libraries
- Can find full-text online for saved references
- Can sync with EndNoteWeb
Exporting from PubMed into EndNote

- **EndNoteWeb** ([http://www.myendnoteweb.com](http://www.myendnoteweb.com))

- Some resources (CINAHL, Web of Science) have a built-in export to EndNoteWeb. Others (PubMed, PsycInfo, Google Scholar) can save to a format that can be manually imported.

**IMPORTANT!**

- Citations imported from PubMed **will not show the full journal titles** when used to create a bibliography as required by APA 6th Edition.

  - This can be fixed in EndNote Desktop by following the instructions in this EndNote training video: [https://youtu.be/xZuiyHuZfOA](https://youtu.be/xZuiyHuZfOA)

- There is no current fix for EndNote Online, so you will need to manually edit the journal names.
Exporting from PubMed into EndNoteWeb

2. Select the items to export.
3. Choose the destination format for the exported files (e.g., MEDLINE).
4. Click on "Create File" to export the selected articles into EndNoteWeb.
Exporting from PubMed into EndNoteWeb (cont)

1. Select "Import References".
2. Choose the file "pubmed_result.txt".
3. Select "PubMed (NLM)" as the import option.
4. Select the "[Unfiled]" option in the "To:" section.
5. Click "Select Favorites".
### Exporting from PubMed into EndNoteWeb (cont)

#### EndNote™
- **My References**
- **Collect**
- **Organize**
- **Format**
- **Match**
- **Options**
- **Downloads**

#### Quick Search
- Search for:
  - **in:** All My References
  - Search

#### All My References
- **Show 50 per page**
- **Copy To Quick List**
- **Delete**

<table>
<thead>
<tr>
<th>Author</th>
<th>Year</th>
<th>Title</th>
<th>UC-eLinks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behrendt, R.</td>
<td>2014</td>
<td>Continuous bedside pressure mapping and rates of hospital-associated pressure ulcers in a medical intensive care unit Am J Crit Care</td>
<td></td>
</tr>
<tr>
<td>Bergstrom, N.</td>
<td>2013</td>
<td>Turning for Ulcer Reduction: a multisite randomized clinical trial in nursing homes J Am Geriatr Soc</td>
<td></td>
</tr>
<tr>
<td>Bergstrom, N.</td>
<td>2014</td>
<td>Preventing Pressure Ulcers: A Multisite Randomized Controlled Trial in Nursing Homes Int J Health Technol Assess Ser</td>
<td></td>
</tr>
<tr>
<td>Heyneman, A.</td>
<td>2009</td>
<td>Effectiveness of two cushions in the prevention of heel pressure ulcers Worldviews Evid Based Nurs</td>
<td></td>
</tr>
<tr>
<td>Manzano, F.</td>
<td>2014</td>
<td>Comparison of two repositioning schedules for the prevention of pressure ulcers in patients on mechanical ventilation with alternating pressure air mattresses Intensive Care Med</td>
<td></td>
</tr>
</tbody>
</table>
1. Comparison of two repositioning schedules for the prevention of pressure ulcers in patients on mechanical ventilation with alternating pressure air mattresses.

   (includes abstract) Manzano, Francisco; Colmenero, Manuel; Pérez-Pérez, Ana María; Roldán, Delphine; Jiménez-Quintana, María Del Mar; Mañas, María Reyes; Sánchez-Moya, María Angustias; Guerrero, Carmen; Moral-Marfil, María Angeles; Sánchez-Cantalejo, Emilio; Fernández-Mondéjar, Enrique; Moral-Marfil, María Ángeles; Intensive Care Medicine, Nov 2014; 40(11): 1679-1687. 9p. (journal article - research, randomized controlled trial) ISSN: 0342-4642 PMID: 25188288, Database: CINAHL Plus with Full Text

   Subjects: Beds and Mattresses; Intensive Care Units; Patient Positioning; Pressure Ulcer Prevention and Control; Respiration, Artificial; Middle Aged: 45-64 years; Female; Male

2. Does regular repositioning prevent pressure ulcers? [corrected]
   [published erratum appears in J WOCN 2009 Jan-Feb;36(1):34].
Exporting from CINAHL into EndNoteWeb (cont)

Options for exporting to other bibliographic management systems, including EndNote Desktop, Zotero, etc.

1. Choose the option for Direct Export to EndNote Web.
2. Save the citations.
3. SUCCESS!
Using EndNote “Cite While You Write”

The Cite While You Write™ plug-in for Word must be downloaded from the EndNote Website and installed beforehand.

1. I want to insert an in-text citation here.

The objective was to compare the effectiveness of repositioning every 2 or 4 h for preventing pressure ulcer development in patients in intensive care unit under mechanical ventilation (MV).

This was a pragmatic, open-label randomized clinical trial in consecutive patients on an alternating pressure air mattress (APAM) requiring invasive MV for at least 24 h in a university hospital in Spain. Eligible participants were randomly assigned to groups for repositioning every 2 (n = 165) or 4 (n = 164) h. The primary outcome was the incidence of a pressure ulcer of at least grade II during ICU stay.
The objective was to compare the effectiveness of repositioning every 2 or 4 h for preventing pressure ulcer development in patients in intensive care unit under mechanical ventilation (MV).

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Year</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behrendt</td>
<td>2014</td>
<td>Continuous bedside pressure mapping and rates of hospital-associated pressure ulcers in a medical intensive care unit</td>
</tr>
<tr>
<td>Bergstrom</td>
<td>2014</td>
<td>Preventing Pressure Ulcers: A Multisite Randomized Controlled Trial in Nursing Homes</td>
</tr>
<tr>
<td>Manzano</td>
<td>2014</td>
<td>Comparison of two repositioning schedules for the prevention of pressure ulcers in patients on mechanical ventilation</td>
</tr>
<tr>
<td>Pauliden</td>
<td>2014</td>
<td>Turning for Ulcer Reduction (TURN) Study: An Economic Analysis</td>
</tr>
</tbody>
</table>

Search for the article and click "insert"
The objective was to compare the effectiveness of repositioning every 2 or 4 h for preventing pressure ulcer development in patients in intensive care unit under mechanical ventilation (MV) (Behrendt, Ghaznavi, Mahan, Craft, & Siddiqui, 2014). This was a pragmatic, open-label randomized clinical trial in consecutive patients on an alternating pressure air mattress (APAM) requiring invasive MV for at least 24 h in a university hospital in Spain. Eligible participants were randomly assigned to groups for repositioning every 2 (n = 165) or 4 (n = 164) h. The primary outcome was the incidence of a pressure ulcer of at least grade II during ICU stay.

Zotero (http://www.zotero.org/)

- A free Firefox browser add-on that collects, manages, and cites research sources. It's easy to use, lives in your web browser and it's free.
- Items synced to the Zotero servers can be accessed online through your zotero.org account.
- Zotero allows you to attach PDFs, notes and images to your citations, organize them into collections for different projects, and create bibliographies.
- Also available as a standalone for Windows, Mac OS X, and Linux.
- Zotero Standalone "Connectors" available for Google Chrome, Safari, or Opera.
Mendeley (http://www.mendeley.com)

- A free bibliographic management system (up to 2GB) with online and desktop components.
- Allows you to easily import and organize citations and full-text articles.
  - NOTE! Does not import easily from PubMed. Only allows a limited number of citations to be imported at a time.
- Highlight and annotate PDFs.
- Automatically generate bibliographies
- Collaborate easily with other researchers online
- Find relevant papers based on what you’re reading
- Access your papers from anywhere online
- Use the MS Word plug-in to cite references and format bibliography sections.
- Works with APA 6th edition style, but may need some editing.
Finding High Quality Evidence

- Determining article, journal, or source quality
- Peer review
- Impact factors, and other rankings
Determining **article** quality

- Did you find it in a database that includes scholarly publications?
- Did you limit the search results to scholarly or peer-reviewed publications?
- Is it from a recognized journal of high quality?
- Does the article have a bibliography & citations of other sources?
- Are the author's credentials listed?
- Is the article based on original research (as opposed to personal opinion)?
- Is the article divided into sections such as Introduction, Methods, Results, Conclusions, etc.?
Finding High Quality Evidence

- Determining **journal or source** quality
  - Visit the website of the journal, publisher, or organization
  - What is the reputation of the association, society, or institution?
  - Is the journal peer reviewed?
  - How does the journal compare to others in the field (its impact)?
  - Acceptance/rejection rate?
  - Is the journal indexed in major databases?

- Much of this information can be found on the journal website
Finding High Quality Evidence

Is it is peer-reviewed?

- Find the journal website in Google: “Research in Nursing & Health”

- Look for “About this Journal”, “Instructions for Authors” or something similar.
Research in Nursing & Health (RINAH) is a peer-reviewed general research journal devoted to publication of a wide range of research that will inform the practice of nursing and other health disciplines. The editors invite reports of research describing problems and testing interventions related to health phenomena, health care and self-care, clinical organization and administration, and the testing of research findings in practice. Research protocols are considered if funded in a peer-reviewed process by an agency external to the authors’ home institution and if the work is in progress. Papers on research methods and techniques are appropriate if they go beyond what is already generally available in the literature and include description of successful use of the method. Theory papers are accepted if each proposition is supported by research evidence. Systematic reviews of the literature are reviewed if PRISMA guidelines are followed. Letters to the editor commenting on published articles are welcome.

Readership

Researchers and clinicians in nursing and health sciences, health policy officials, and faculty in nursing and other health fields

Abstracting and Indexing Information

- AgeLine Database (EBSCO Publishing)
- BNI: British Nursing Index (ProQuest)
- CINAHL: Cumulative Index to Nursing & Allied Health Literature (EBSCO Publishing)
- Current Contents: Social & Behavioral Sciences (Thomson Reuters)
Finding High Quality Evidence

Steps of peer review

1. Author submits manuscript for publication

2. *Impartial* (ideally) reviewers charged with carefully evaluating the quality of manuscript
   - ‘Peers’ in a field of research/subject area

3. Reviewers check for accuracy & assess validity of methodology

4. Reviewers suggest acceptance (as is), revisions or rejection
Finding High Quality Evidence

- **Impact factors**
  - A measure reflecting the average number of citations to recent articles published in that journal
  - A ‘proxy’ for relative importance of a journal within a specific field
  - InCites Journal Citation Reports (http://uclibs.org/PID/36787) via the Web of Science
The rise of open access publishing, coupled with the pressure on academics to “publish or perish” has unfortunately led to the creation of predatory, open-access publishers; those that unprofessionally exploit the author-pays model of open-access publishing (Gold OA) for their own profit.

While articles published in these journals may at first appear legitimate, the lack of peer review and other quality measures calls into question the scholarship of the articles.

“Such journals, of which there are thousands, charge authors hundreds of dollars in return for lackluster or nonexistent peer review and rapid publication.”

Evaluating a Journal


- Provides an easy-to-use checklist that researchers can refer to when they are investigating whether a journal can be trusted.

THINK

Are you submitting your research to a trusted journal?

Publishing your research results is key to advancing your discipline—and your career—but with so many journals in your field, how can you be sure that you're choosing a reputable, trustworthy journal?

CHECK

Use our check list to assess the journal

SUBMIT

Only if you can answer 'yes' to the questions on our check list.
Predatory Journals: Further Reading

- “The Top Eleven Ways to Tell that a Journal is Fake”


- One of the best informational resources available was Beall's List of Potential, possible, or probable predatory scholarly open-access publishers. Unfortunately, this list is no longer available. The last posted list (January 12, 2017) is available on the Internet Archive at https://web.archive.org/web/20170112125427/https://scholarlyoa.com/publishers/
Which Database Should I Use?

- UCI Library Subject Guides
  - http://guides.lib.uci.edu/nursing
  - http://guides.lib.uci.edu/

- What type of information am I looking for?
  - Clinical care or practice (practice guidelines, clinical protocols), empirical studies (research articles), literature reviews (systematic reviews, meta-syntheses), background information (books)?

- What subject area am I investigating?
  - Nursing, general medicine, business of healthcare, legal aspects of healthcare, management?

- What do I have access to?
  - UCI Doesn’t subscribe to everything, but interlibrary loan gives you access to other collections
Core Resources

- ANTPAC Catalog
- Case Files Collection
- JAMAevidence
- AccessMedicine
- CINAHL via EBSCO
- LWW Health Library
- BMJ Best Practice
- Cochrane Library
- Micromedex
- BMJ Clinical Evidence
- Exam Master Online
- NEJM Journal Watch

http://grunigen.lib.uci.edu/core-resources
Which Database – Empirical Research?

- Some primary sources for empirical studies/research
  - CINAHL
  - PubMed
  - PsycInfo
  - Web of Science
  - ClinicalKey for Nursing (Medline/full-text journals)
  - TRIP Pro (Primary Research sections)
  - Google Scholar

- These resources may also include other types of information such as literature reviews, expert option, synopses, and so on. Most allow the restriction of results to specific types of studies.

- Other similar sources would include any databases that index research journal articles, e.g., Sociological Abstracts, Academic Search Complete, etc.
Which Database – Full Text Journal Collections

- Online collections of full-text journals
  - BioMed Central (open access collection)
  - PLOS One (Public Library of Science; open access)
  - PubMed Central (free full-text archive of biomedical and life sciences publications)
  - Sage Journals
  - SpringerLink (full-text journals and eBooks)
  - Thieme Clinical Collections (full-text journals and eBooks)
Which Database – Secondary Information?

Resources which provide syntheses or synopses of research evidence, including expert opinion, background information, reference tools, and so on.

- **AccessMedicine/Stat!Ref for Nursing** (collections of eBooks, various reference tools)
- **ANTPAC Catalog** (books)
- **BMJ Best Practice** (syntheses of research evidence, guidelines and expert opinion)
- **CINAHL** (Practice Guidelines, Reviews, Evidence-based Care Sheets, etc.)
- **Cochrane Database of Systematic Reviews** (within the Cochrane Library)
- **JamaEvidence** (3 eBooks focusing on evaluating the medical literature, clinical examination, and end-of-life care. Also contains statistical calculators for evaluating published studies.)
- **LWW Health Library** (collection of eBooks)
- **National Guideline Clearinghouse** (extensive synopses of published clinical practice guidelines)
- **Natural Medicines** (synopses of current medical information focusing on complementary alternative and integrative therapies)
- **PubMed** (Practice Guidelines, Reviews, Meta-analyses, etc.)
- **Trip Pro** (example: Secondary Research, Evidence-based Synopses, Guidelines, etc.)
- **UpToDate** (synopses of current medical knowledge/expert opinion)
Which Database – Reference Tools?

- Resources which provide various reference tools for drug information, differential diagnosis, medical calculators, etc.
  - **UpToDate** (Calculators, Drug Interactions)
  - **BMJ Best Practice** (syntheses of research evidence, guidelines and expert opinion)
  - **AccessMedicine** (Calculators, DDx, Drugs)
  - **Stat!Ref for Nursing** (AnatomyTV, ICD Diagnosis/Procedure Codes, medical dictionary)
  - **JamaEvidence** (Statistical calculators for evaluating published studies.)
  - **Facts and Comparisons eAnswers** (Extensive Drug Information)
  - **MicroMedex** (Extensive Drug Information, Calculators)
  - **VisualDx** (Decision support system for the diagnosis of visually identifiable diseases)
Which Database – Multimedia?

- Resources which provide access to images, video, audio.
  - AccessMedicine
  - Stat!Ref for Nursing
  - Nursing Education in Video
  - LWW Health Library
  - Trip Pro
  - VisualDx
  - CINAHL
  - PubMed

- More resources at http://guides.lib.uci.edu/multimediamedical
Resources You May Not Know About

- **TRIP Pro** *(Turning Research Into Practice)*

  A clinical search engine designed to allow users to quickly and easily find and use high-quality research evidence to support their practice and/or care. Includes various content types including primary and secondary research information, evidence-based synopses, clinical questions, systematic reviews, international practice guidelines, electronic textbooks, clinical calculators, medical images, patient information leaflets, and PubMed/Medline. Think of it as sort of a “Google” for medicine.

- **BMJ Best Practice**

  A single source that combines the latest research evidence, guidelines and expert opinion presented in a step-by-step approach and covering prevention, diagnosis, treatment and prognosis. It is regularly updated, it draws on the latest evidence-based research to offer step-by-step guidance on diagnosis, prognosis, treatment and prevention.
Resource: ClinicalKey for Nursing

- **ClinicalKey for Nursing**

  A comprehensive online resource for nurses offering authoritative information to help provide better patient care. It offers a collection of nursing and midwifery evidence-based information resources including key journals and textbooks published by Elsevier, as well as evidence-based nursing monographs, drug information, dosage calculators, lab test values, practice guidelines, multimedia, and core measures with nursing recommendations.

- **Stat!Ref for Nursing**

  Includes over 50 key nursing and medical texts, NCLEX-RN® Success Podcasts, BoardVitals Family Nurse Practitioner Board Exam Prep, ICD Procedure and Diagnosis Codes, Anatomy.TV (accurate and detailed 3D graphic rendering of human anatomy), medical calculator, medical dictionary.
Exam Master OnLine is an advanced online study system designed for nursing students including the Nursing (NCLEX-RN) Board Prep and Family Nurse Practitioner (FNP) Board Prep.

All exams are available in test and study modes, and you may take Notes and create Flashcards while you test or study. You may also mark questions for later review. All modules come with practice exams.

The questions are written by subject experts, educators and practitioners, and include detailed explanations that discuss the rationale for both the correct and incorrect answer choices. All questions are organized by Topic, Subject, and Categories and include clinical cases and vignettes. A calculator and lab reference sheet are also available for use while taking the tests and studying.

The Nursing Review (NCLEX-RN)/ NCLEX-RN Supplemental Outline modules of over 4200 questions are designed to assist candidates in preparing for the NCLEX-RN. This includes NCLEX quality questions for all subjects within these topics: "Safe and Effective Care Environment," "Health Promotion and Maintenance," Psychosocial Integrity," and "Physiological Integrity."
Poster Printing at the Library

Poster Printing is now available in the Ayala Science Library!

- Posters are printed to fit 36” x 42” on enhanced matte paper.
- All posters should be submitted on a USB drive as a PDF file.
- Posters are printed within 1-2 business days.
- The cost is $50 per poster.
- Inquire at the Ask Us Desk on the 2nd floor of Ayala Science Library
- Contact Suzy Jung at s2jung@uci.edu or 949-824-3884 with questions.
Submit Your Research to eScholarship!

- eScholarship (http://escholarship.org) is the repository for academic research created by faculty, researchers, and students of the University of California.

- Advantages!
  - By depositing your presentations, papers, or posters in eScholarship, your work will be discoverable and will highlight nursing scholarship for the people of the State of California and posterity.
  - Once deposited, you will receive a permanent citation and link to your documents which you can include in your curriculum vitae or resume. You can also view how many times your work has been viewed or downloaded.
  - Your work will add to the body of work and reputation of the UCI Program/School of Nursing Science!

- Submissions can consist of PowerPoint files, Word documents, photos, videos, etc.

- If you would like to submit your presentation or poster, please contact Steve Clancy at sclancy@uci.edu or (949) 824-7309 for more information.
Steve Clancy, MLS
Research Librarian for Health Sciences and Nursing Science
Ayala Science Library/Grunigen Medical Library
949-824-7309 * 714-456-5583 * sclancy@uci.edu

Linda Murphy, MLIS
Research Librarian for Health Sciences
Ayala Science Library/Grunigen Medical Library
949-824-6419 * 714-456-5583 * lmurphy@uci.edu

Hector Perez-Gilbe, MLIS, MPH
Research Librarian for Health Sciences
Ayala Science Library/Grunigen
949-824-6957 * perezhr@uci.edu