Finding Evidence on the Web Through HEAL-WA: Only a Click Away

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Objectives

- Describe how to access HEAL-WA, the evidencebased website for Washington State nurses
- Define evidence-based practice and what makes good evidence
- Identify e-resources on HEAL-WA to use for research and evidence-based nursing practice





What is evidence-based medicine?

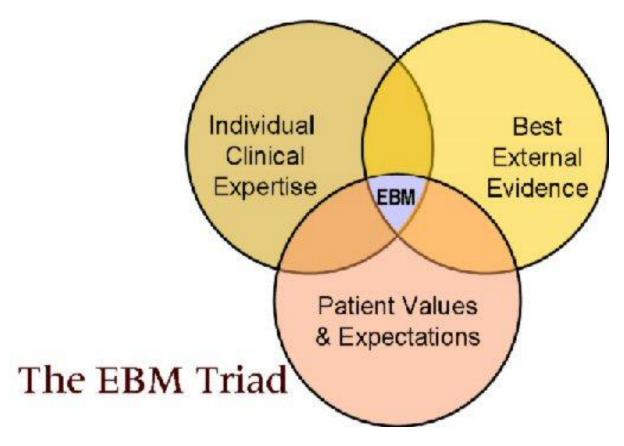
- Evidence-based medicine is the conscientious, explicit, and judicious use of current best evidence in making decisions about the care of individual patients.
- The practice of evidence-based medicine means integrating individual clinical expertise with the best available external clinical evidence from systematic research.

Sackett DL et al. Evidence based medicine: what it is and what it isn't. BMJ 1996 Jan 13; 312 (7023): 71-2.





Evidence-Based Medicine







What makes good evidence?

Good

- Based on scientific research
- RCT
- Systematic review
- Meta-analysis
- Clinical guidelines

Shoddy

- Expert opinion
- Consensus
- Because it's been done this way for 100 years





EBP Implications for Nursing

- Are U.S. nurses ready for evidence-based practice?
 - Many don't understand or value research
 - Many have little of no training to help find evidence on which to base their practice
 - Pravikoff DS, Tanner AB, Pierce ST. Readiness of U.S. nurses for evidence-based practice. *American Journal of Nursing* 2005 Sep;105(9):
 40-52.
- Failure to use evidence results in lower quality, less effective and more expensive care.
 - Berwick DM. Disseminating innovations in health care. JAMA 2003 Apr 16;289(15):1969-75.





Levels and Grades of Evidence

Levels of Evidence and Grades of Recommendations

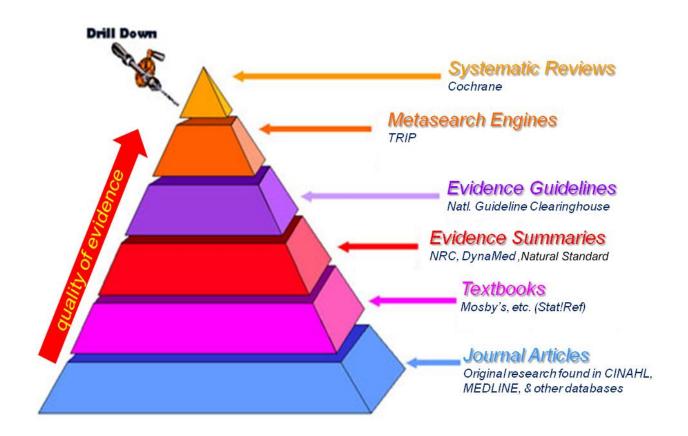
Grade of recommendation	Level of evidence	Interventions	
А	1a	Systematic review of randomized controlled trials	
	1b	Individual randomized controlled trial	
В	2a	Systematic review of cohort studies	
	2b	Individual cohort study	
	3a	Systematic review of case-control studies	
	3b	Individual case-control study	
С	4	Case series	
D	5	Expert opinion without explicit critical appraisal or based on physiology or bench research	



1



Searching for Evidence Categories







Where can you find evidence only one click away?







- Began January 2009
- Website offering online access to a collection of health information resources
- Who has access? selected health care providers in Washington YES, NURSES!
- Funded by: license fees
- Its mission: to provide evidence-based information to support patient care





What is included in HEAL-WA?

- Resources: electronic databases, online texts, and e-journals
- Includes information resources specific to nurses, such as CINAHL and the Nursing Reference Center
- Other excellent resources: MEDLINE, DynaMed, Cochrane, Natural Standard
- Gives practitioners access to timely, evidence-based answers to patient care Q's





How do I access HEAL-WA?

- Site address: heal-wa.org
- Use the "Getting Started" links to set up your UW NetID and password
 - You will need your RN license number in order to set up your UW NetID (even if you hold an advanced practice license)







heal-wa.org

Heal-we access (log in)

Search This Site

Dec 19, 2008 09

7, 2009 11

You are here: Home

Certain resources in HEAL-WA (indicated by a lock \oplus) require a HEAL-WA access code (UW NetID) and password for access.

to support patient care.

🥌 Acupuncturist 遇 Chiropractor

遇 Massage

Practitioner

遇 Mental Health Counselor.

Psychologist, Licensed Social Worker

遇 Naturopath 遇 Optometrist

╉ Physician, PA ARNP

遇 Podiatrist 遇 Registered Nurse

🛅 New, easier full

Jul 28, 2009 MEDLINE® with Full Text is now available! Jun 23, 2009

text journal access

New Clinical Calculators in

DynaMed May 14, 2009 PsycInfo and

Mar 06, 2009 More news...

other databases now available

Welcome to HEAL-WA

HEAL-WA is a collection of health information resources funded by license fees from selected health care providers in Washington State. Its mission is to provide evidence-based infor

MEDLINE® with Full Text is now available!

Getting Started

Set up HEAL-WA access - If you need to set up a HEAL-WA access code (UW NetID) and password, or if you have a UW NetID and need to add HEAL-WA affiliation to it, see the instructions on the Getting Started page.

PLEASE NOTE that once you have set up your UW NetID, it can take up to a day for your UW NetID to be recognized so you can log in to HEAL-WA.

If you have already set up your HEAL-WA access code (UW NetID) and password, log in to HEAL-WA by clicking on the "HEAL-WA Access" button at the upper right hand comer of t

Patient Care Management

Nursing Reference Center

Nursing Calculators

patients)

CINABL (Nursing Literature)

Information for Patients

AHFS Consumer Medication Information

MedlinePlus - Health Information for Patients

🚯 MedlinePlus Health Information in Other Languages (1

nza (Dynamed)

ienza A (H1N1) Information

US Centers for Disease Control and Prevention - Influenza A (H1N1) Washington State Department of Health Swine Influenza (H1N1) information

H1N1 Influenza - Patient information on Medline Plus

Links to other Federal and Washington State information

Diagnosis & Therapy

Pynamed (Diseases & Conditions)

Merck Manual of Diagnosis and Therapy

Cochrane Database of Systematic Reviews

Clinical Information from the Agency for Healthcare Research and Quality

National Guideline Clearinghouse

PubMed Clinical Queries

Merck Manual of Geriatrics

Guidelines & Evidence

Search for Articles

A MEDLINE® with Full Text

Drugs, Labs, Diagnostic Tests AHFS Drug Information® (2008)

Drug Information Portal

LactMed Complementary & Alternative Medicine

AMED (Alternative & Natural Medicine Database)

Alt-Health Watch

Natural Standard

Prevention, Screening, Immunizations

Guide to Clinical Preventive Services

Immunization Schedules

A Red Book®: 2006 Report of the Committee on Infectious Diseases - 27th Ed. The Guide to Community Preventive Services (Community) Send Us Feedback

🚳 Merck Manual - Home Edition

Requesting Articles

Contact HEAL-WA

Registered Nurse



Heal-wa access (log in)

Getting Started

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Toolkits D

Databases

eBooks

elournals

Reference

Help

About

You are here: Home → Toolkits → Registered Nurse

Professiona Toolkits

- Acupuncturist
- 🚣 Chiropractor
- Massage
 Practitioner
- Mental Health
 Counselor,
 Psychologist, Licensed
- Social Worker

 Maturopath
- Optometrist
- 遇 Physician, PA, ARNP
- Podiatrist
- Registered Nurse

News

- Influenza A (H1N1)
 Information Links
 Dec 10, 2009
- New full text journals now available through MEDLINE and CINAHL

Registered Nurse

There are no restrictions on access to HEAL-WA resources for eligible users - if you can log in to HEAL-WA, you can use any resources contained anywhere on the site. HEAL-WA Toolkits were developed strictly for users' convenience, and are meant to bring together resources that a practitioner group might be most likely to use.

Nursing Resources

- A Nursing Reference Center
- A CINAHL (Nursing Literature)
- A MEDLINE® with Full Text

Calculators & Tools

- Nursing Calculators
- MedCalc3000

Drugs, Labs, & Diagnostic Tests

- Davis's Comprehensive Handbook of Laboratory and Diagnostic Tests with Nursing Implications 2nd Ed. (2006)
- Davis's Drug Guide for Nurses 11th Ed. (2009)
- Laboratory Tests and Diagnostic
 Procedures with Nursing Diagnoses 7th
 Ed. (2008)

Complementary & Alternative Medicine

A Natural Standard

Patient Education

- Detailed Drug Information for the Consumer™
- AAFP Conditions A to Z (2009)
- MedlinePlus Health Information for Patients
- National Center for Complementary and Alternative Medicine Health Topics A-Z

Multicultural Information

EthnoMed

Send this - Print this -

ARNP



Heal-wa access (log in)

Site Map Accessibility Contact

Toolkits

Databases

You are here: Home → Toolkits → Physician, PA, ARNP

eBooks

ournals Reference

H

About

Dhy

Professional Toolkits







Mental Health
Counselor,
Psychologist, Licensed
Social Worker

🚣 Naturopath

Physician, PA, ARNP

4 Podiatrist

╉ Registered Nurse

. . .

influenza A (H1N1) Information Links

Dec 10, 2009

New full text journals now available through MEDLINE and CINAHL

Physician, PA, ARNP

There are no restrictions on access to HEAL-WA resources for eligible users - if you can log in to HEAL-WA, you can use any resources contained anywhere on the site. HEAL-WA Toolkits were developed strictly for users' convenience, and are meant to bring together resources that a practitioner group might be most likely to use.

Diagnosis & Therapy

- PynaMed (Diseases & Conditions)
- Merck Manual of Diagnosis and Therapy
- Current Medical Diagnosis & Treatment (2009)

Search for Articles

- PubMed Clinical Queries
- A MEDLINE® with Full Text
- MANTIS

Drugs

- AHFS Drug Information® (2008)
- Orug Information Portal
- LactMed

Tools & Calculators

MedCalc3000

Reference & Other Resources

PAL: Partnership Access Line (Mental Health Consultation Outreach for children)

Information for Patients

- AAFP Conditions A to Z (2009)
- MedlinePlus Health Information for Patients
- MedlinePlus Health Information in Other Languages (for patients)

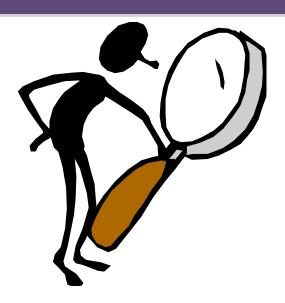
Complementary & Alternative Medicine

A Natural Standard

Multicultural Information

EthnoMed

Send this — Print this —



Search for the Best Evidence to answer the Question





Search Databases Efficiently for Research Journal Articles

- Primary literature: MEDLINE/PubMed or CINAHL
 References to original journal articles on a topic
 - Some with full-text links
 - Most with abstracts
- You will see same interface when searching MEDLINE or CINAHL (or Cochrane) on HEAL-WA





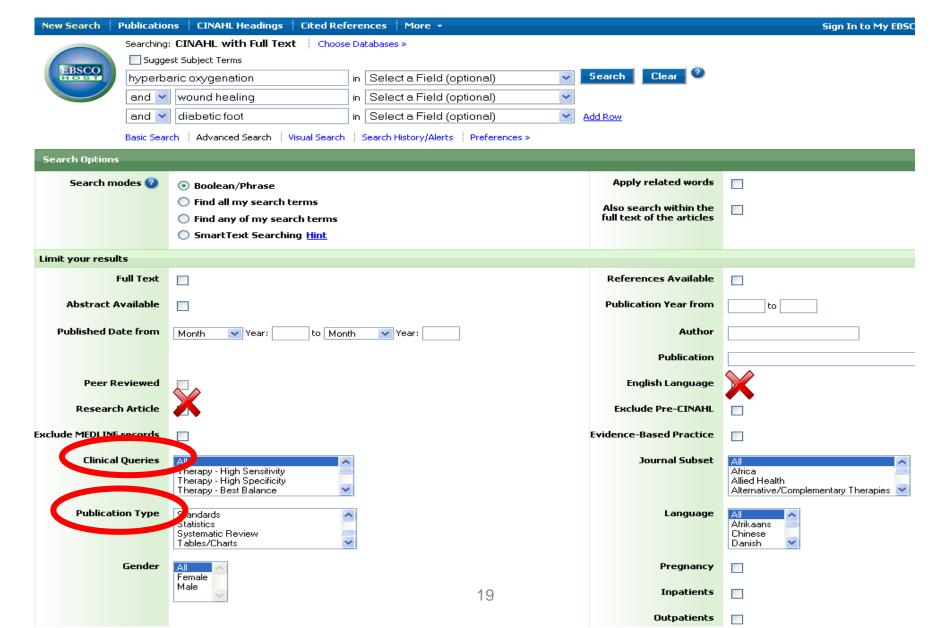
CINAHL or [CINAHL Plus]

- Cumulative Index to Nursing and Allied Health Literature
- Provides coverage from 1982 [1937] to date, of nursing and 17 allied health disciplines literature
- 1700+ [3800+] journals indexed including virtually all English-language nursing journals
- Can easily search for Research articles





CINAHL Search Screen



CINAHL Publication Type Limits

Clinical trial

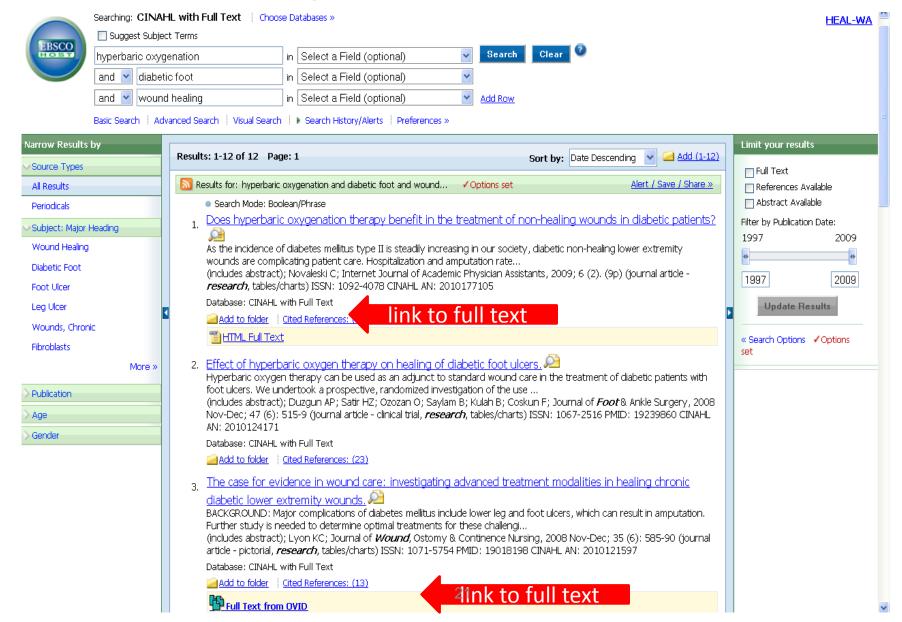
- **Publication Type**
- Standards
 Statistics
 Systematic Review
 Tables/Charts

- Critical path
- Practice guidelines
- Research
- Standards
- Systematic review





CINAHL Results



healthlinks.washington.edu/howto/cinahlplus



Searching CINAHL Plus: Cumulative Index to Nursing and Allied Health Literature

What is CINAHL Plus?

CINAHL Plus with Full Text provides access to the literature in nursing and 17 allied health disciplines dating back to 1937. Over 3800 journals are indexed including virtually all English language nursing journals along with selected titles in biomedicine, alternative therapies, and consumer health. It also offers access to Evidence-Based Care Sheets, searchable cited references, and over 350 research instrument descriptions.

Getting Connected

Connect through the HealthLinks > Resources > Databases page, or type CINAHL Plus in the Search box on the upper right corner of HealthLinks and follow the link.



Searching

Step 1: Enter your terms

- Type your search terms into the search boxes on the Advanced screen. Choose the field(s) you want to search from the pull down boxes and click
- Use the asterisk (*) to search word roots, e.g. transplant* retrieves transplant, transplants, or transplantation

Step 2: Limit your results

 Narrow your search to a lower number of more precise results by selecting desired Age Groups, Language, Publication Type, Peer Reviewed, Research Article, etc. from the options available below the search boxes, and click Sesuch.

- · Searching for research instruments:
 - Search for a description of an instrument and possible full text using the research instrument Publication Type (PT): Type Rosenberg self esteem scale in one Search box and research instrument in another box and select the Publication Type field.
 - Search for studies that use a particular instrument by using the Instrumentation field (IN): Type Rosenberg self esteem scale and choose the Instrumentation field

Step 3: Combining Sets/Search History

- Click Search Hstory/Alerts and select the search sets to combine by clicking the Add to Search box. Choose the desired Boolean operator (AND, OR, etc.) from the Combine searches with: drop down box, and then Add and Search.
- Alternatively, combine results by typing a search number into a new Search box, i.e., s1 and s2 or (keyword(s) and s1), and click Search

Search using CINAHL Headings, Subheadings, Major Concept, and Explode

In most cases, the most efficient way to search is by using CINAHL Headings, the thesaurus terms used to assign subject headings to the articles in the database. Click CINAHL Headings at the top of the page and type your term in the Search box. Click Browse. Click Scope to see a definition of the term. Clicking on the Subject Heading itself will lead you to more information about the heading in the Tree, or hierarchical view of terms. You can select Subheadings if needed and may also specify that the term be a major focus of the article by checking the





MEDLINE [on HEAL-WA] or PubMed

- MEDLINE (1940's+) is included on PubMed
- Indexes 5,000 biomedical journals
- Covers all aspects of biosciences and healthcare
- 75%-80% of citations have abstracts
- Updated 5x/week





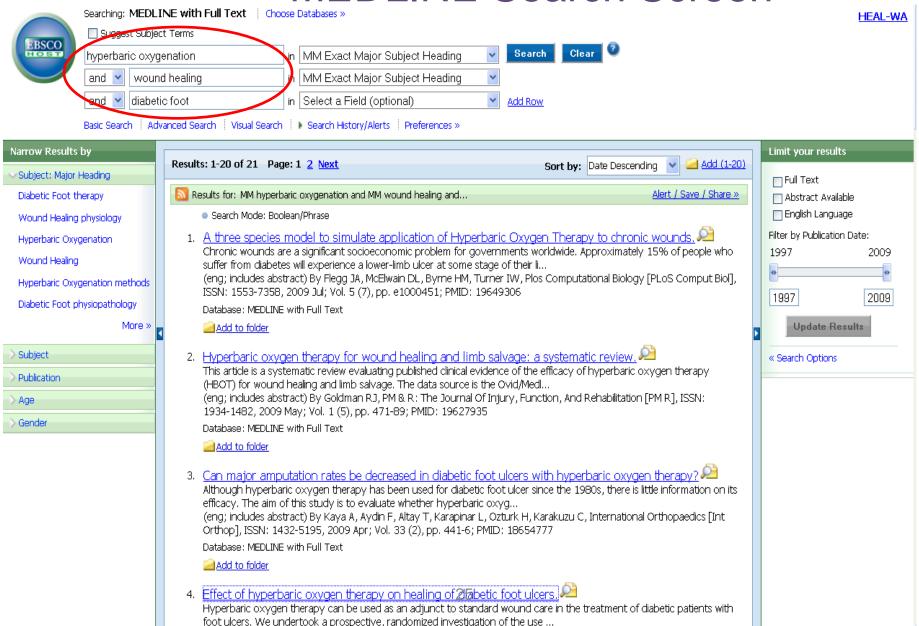
2 MEDLINE/PubMed Strategies for Finding Evidence-Based Citations

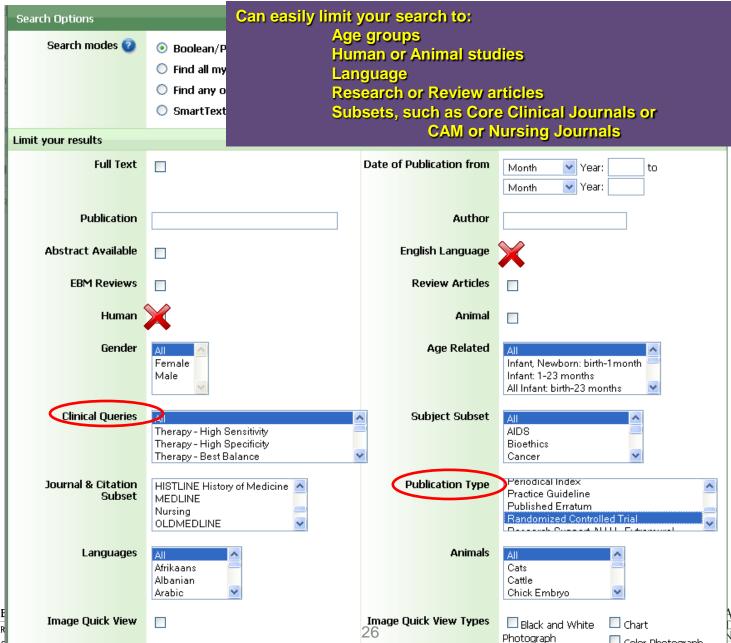
- 1. Use Publication Type limits
 - Randomized Controlled Trial
 - Meta-Analysis
 - Practice Guideline
 - Clinical Trial
 - Consensus Development Conference
- 2. Use Clinical Queries





MEDLINE Search Screen









Color Photograph



Advanced Search

Strategy #1 on PubMed:

© Search History

Strategy #1 on PubMed:

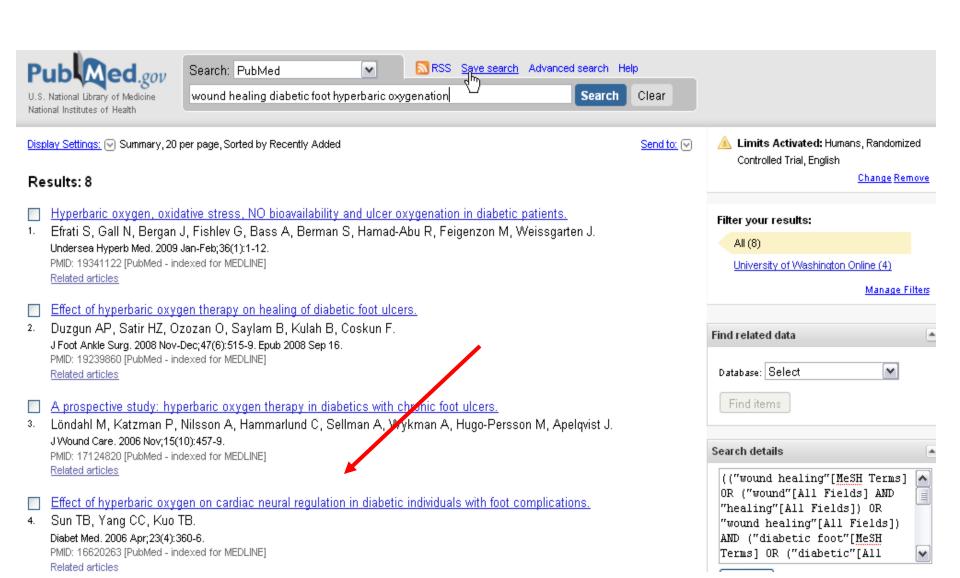
Limit to RCTs under Type of Article

- . Search History will be lost after eight hours of inactivity.
- . Search numbers may not be continuous; all searches are represented.

Limit by Topics, Languages, and Jou	Limit by Topics, Languages, and Journal Groups					
Full Toyt Fron Full Toyt and Obst	tracto		CLEAR			
Full Text, Free Full Text, and Abso	Full Text, Free Full Text, and Abstracts					
☐ Links to full text	Link	s to free full text				
Humans or Animals	CLEAR	Gender	CLEAR			
Humans 🗆 Animals		☐ Male ☐ Female				
•						
Type of Article	CLEAR	Languages	CLEAR			
L Editorial	^	English	^			
Letter		French	_			
Meta-Analysis		☐ German				
Practice Guideline		☐ Italian				
Randomized Controlled Trial		1ananece	~			
Subsets	CLEAR	Ages	CLEAR			
Core clinical journals	^	All Infant: hirth-23 months	^			
Dental journals		All Child: 0-18 years				
Nursing journals		All Adult: 19+ years				
Topics		Newborn: hirth-1 month				
☐ AIDS	~	Infant: 1-23 months	~			











Display Settings:

✓ Abstract

Send to: ✓

Limits Activated: Humans, Randomized Controlled Trial, English

Change Remove



Related articles

- Hyperbaric oxygen (HBO) therapy in treatment of diabetic fo [J Diabetes Complications, 2002]
- Effect of hyperbaric oxygen therapy on healing of diabetic foot ulcers (J Foot Ankle Surg. 2008)
- Hyperbaric oxygen, oxidative stress, NO bioavailability ar [Undersea Hyperb Med. 2009]
- Review Hyperbaric oxygen therapy and the diabetic foot. [Diabetes Metab Res Rev. 2000]
- Review Treatment of diabetic foot ulcers with hyperbaric oxygen. [J Wound Care. 2000]

» See reviews... I » See all...

All links from this record

Diabet Med. 2006 Apr; 23(4): 360-6.

Effect of hyperbaric oxygen on cardiac neural regulation in diabetic individuals with foot complications.

Sun TB, Yang CC, Kuo TB.

Institute of Medical Sciences, Tzu Chi University, Hualien, Taiwan.

AIMS: There are relatively few effective methods to treat autonomic neuropathy in patients with diabetes mellitus. Our aim was to test the hypothesis that hyperbaric oxygen therapy may restore cardiac neural regulation dysfunction in diabetic individuals with foot complications. METHODS: We conducted a prospective randomized controlled study in patients with diabetic foot problems. Daily heart-rate variability analysis from 5-min electrocardiography was used to evaluate the temporal change of cardiac neural regulation. The experimental group consisted of 23 subjects exposed to hyperbaric oxygen therapy of 202.65 kPa for 90 min every Monday to Friday for 4 weeks (20 treatments). The control group consisted of 15 age-, sex- and disease-matched subjects who were not exposed to hyperbaric therapy. Patients with medical complications and failure of wound healing were excluded to eliminate possible confounding effects. RESULTS: There was no significant difference in baseline R-R interval (RR), variance, high-frequency power (HF), low-frequency power (LF), and LF/HF ratio between the two groups. In the hyperbaric oxygen group there were significant increases in changes of RR (82.7 +/- 16.02 ms); variance 0.88 +/- 0.12 ln(ms2); HF 1.06 +/- 0.18 ln(ms2); and LF 0.87 +/- 0.15 ln(ms2) after the treatment. Measurements of tissue oxygen demonstrated significant increases in local tissue oxygenation in the hyperbaric oxygen group (53.0 +/- 2.6 mmHg) compared with the control group (27.5 +/- 3.1 mmHg), P < 0.05. CONCLUSION: Hyperbaric oxygen therapy has a significant vagotonic effect, which is beneficial in improving cardiac neural regulation in patients with diabetic autonomic dysfunction.

PMID: 16620263 [PubMed - indexed for MEDLINE]





PubMed Clinical Queries

This page provides the following specialized PubMed searches for clinicians:

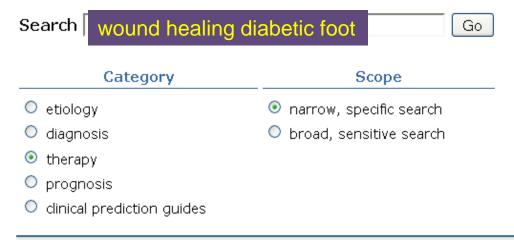
- Search by Clinical Study Category
- Find Systematic Reviews
- Medical Genetics Searches

#2 Strategy: Clinical Queries Link found on Adv Search screen

Results of searches on these pages are limited to specific clinical research areas. For comprehensive searches, use Pub

Search by Clinical Study Category





Find Systematic Reviews

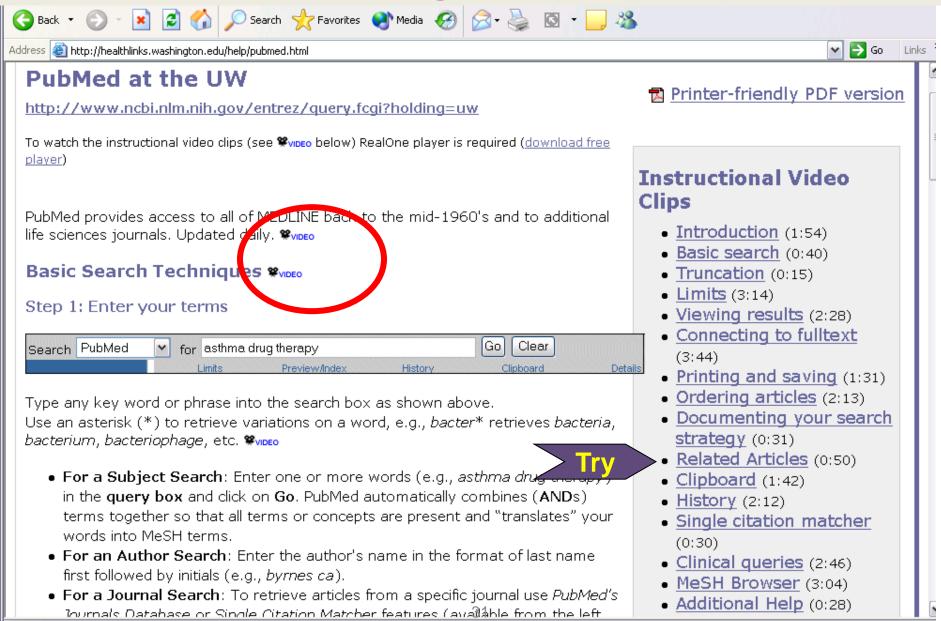
For your topic(s) of interest, this search finds citations for systematic reviews, meta-analyses, reviews of clinical trials, medicine, consensus development conferences, and guidelines.

For more information, see Help. See also related sources for systematic review searching.

Search wound healing diabetic foot



healthlinks.washington.edu/howto/pubmed



Internet

CINAHL vs MEDLINE/PubMed

CINAHL

- Coverage: 1982+
- Indexes 1700 journals
- Focuses on nursing and allied health literature
- CINAHL Thesaurus with more nursing terms
- Has peer-reviewed limit
- Includes cited references at end of many refs

MEDLINE

- Coverage: late 1940's+
- Indexes 5000 journals
- Focuses on biomedical literature
- Uses MeSH as its controlled vocabulary
- No peer-reviewed limit
- No cited references





Locating E-Journals

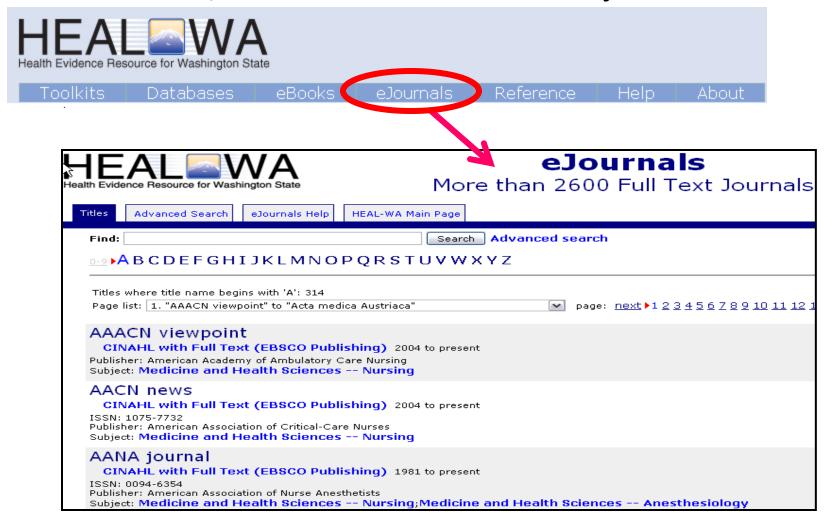
- Check with your library for access to full-text e-journals
- For UW Affiliates: use the Proxy service to access full-text ejournals from off-campus
 - healthlinks.washington.edu/howto/connect
- Use HEAL-WA
 - Includes CINAHL and MEDLINE links to full-text articles
 - A-Z Journals: 2,600 full-text journals





Journals A-Z

2,600 full-text health-related journals







Information Overload!

- 2 million articles published in biomedical journals each year
- considering everything of potential biomedical importance would require perusing about 6,000 articles per day...
- If you only read 2 articles a day, at the end of year you would be 60 centuries behind.





Email Alerts for Keeping Current

- Deliver current citations into your email
- Based on a search strategy you create
- In most cases, abstracts of the articles are provided
- May provide links to full-text articles





Alerting Services

healthlinks.washington.edu/howto/alerts.html

Alert Service	Database Coverage	RSS
My NCBI	PubMed	yes
Alerts (EBSCO) [on HEAL-WA]	MEDLINE CINAHL Plus	yes
ScienceDirect Search	Elsevier Journals	yes





Send even when there aren't any new results

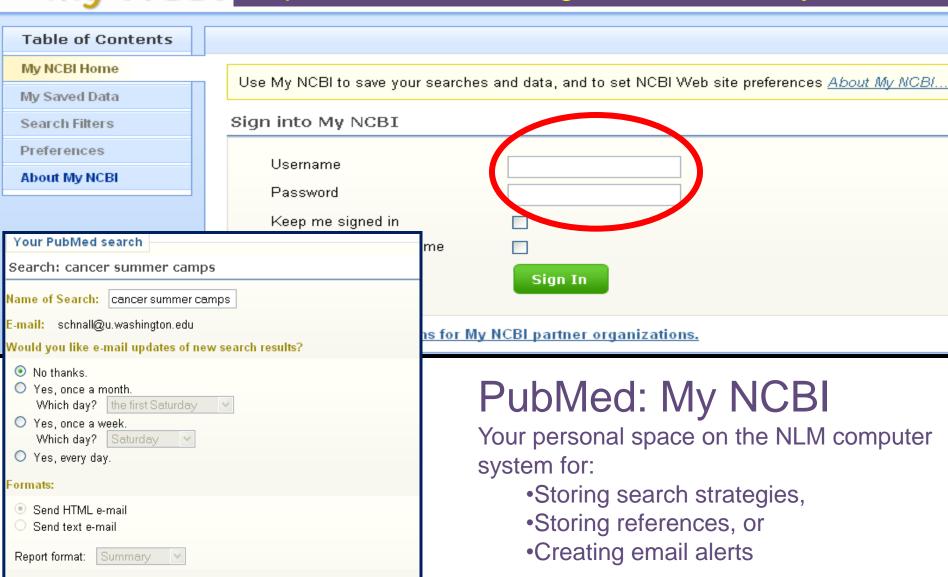


Number of items:

Send at most:

5 items 💌

My NCBI help: healthlinks. washington.edu/howto/myncbi.html





Search for Evidence Summaries

- DynaMed [on HEAL-WA]
 - Evidence-based clinical resource providing summaries of 3000+ diseases and conditions
- Nursing Reference Center [on HEAL-WA]
 - Comprehensive point-of-care resource for nurses that includes Evidence-based Care Sheets





DynaMed [on HEAL-WA]

- Provides summaries of the best evidence for over 3,000 clinical topics
- Can quickly browse and find key recommendations
- Updated daily
- Links out to full-text articles HEAL-WA has access to
- Download available for PDA and iPhones







Search Find: ABCDEFGHIJKLMNOPQRSTUVWXY Browse by Category

Diabetic foot ulcer

Get CME For This Search

General Information (including ICD-9/-10

Causes and Risk Factors

Complications and Associated Conditions

History

Top

Codes)

Physical

Diagnosis

Prognosis Treatment

Prevention and Screenina

Quality Improvement

References includina Reviews and Guidelines

Patient Information

Acknowledgements

contained in the DynaMed Terms, Use.

🔍 Search within text

Expand All Collapse All





You are viewing a DynaMed summary Use of DynaMed indicates acceptance of DynaMed Terms of Use. Limitations of DynaMed are

Diabetic foot ulcer

Updated 2010 Jan 07 03:51 PM: review of diabetic foot ulcer (BMJ 2009 Dec 2) traditional dressings appear similar effective but more cost-effective compared to Aquacel dressing (Health Technol Assess 2009 Nov) update

MEDLINE search strings added update

Related Summaries:

- Diabetes mellitus type 1
- Diabetes mellitus type 2
- Diabetic neuropathy
- Physician Quality Reporting Initiative (PQRI) 2009 Physician Quality Measures
- General Information (including ICD-9/-10 Codes)
- Causes and Risk Factors
- Complications and Associated Conditions
- History
- Physical
- Diagnosis
- Prognosis
- Treatment
- Prevention and Screening
- Ouality Improvement
- References including Reviews and Guidelines
- Patient Information

41

Low-molecular-weight heparins:

- DynaMed
- <u>dalteparin</u> improves healing of chronic foot ulcers in patients with diabetes and peripheral arterial disease (<u>level 1 [likely reliable] evidence</u>)
 - O based on randomized trial
 - 87 patients randomized to <u>dalteparin</u> (Fragmin) 5,000 units vs. saline subcutaneously once daily until ulcer healing or maximum 6 months
 - o comparing dalteparin vs saline
 - ulcer healing with intact skin in 32% vs. 21% (NNT 10)
 - ulcer area decreased by 50% or more (or healed) in 67.4% vs. 47.6% (NNT 5)
 - amputation in 4.5% vs. 18.6% (NNT 7)
 - Reference <u>Diabetes Care 2003 Sep; 26(9):2575</u> <u>full-text</u>, commentary can be found in Evidence-Based Medicine 2004 May-Jun; 9(3):73
- bemiparin may not improve complete ulcer healing in patients with chronic diabetic foot ulcers (<u>level 2 [mid-level] evidence</u>)
 - based on randomized trial with inadequate power to rule out clinically significant differences
 - 70 diabetic patients > 8 years old with foot ulcer > 3 months randomized to bemiparin vs. placebo
 - bemiparin 3,500 units/day given for 10 days followed by 2,500 units/day for ≤ 3 months
 - both groups received usual care
 - o comparing bemiparin vs. placebo
 - ulcer improvement by digital photography in 70.3% vs. 45.5% (p = 0.035, NNT 4, 95% CI for NNT 2-43)
 - complete healing at 3 months in 35.1% vs. 33.3% (not significant)
 - similar number of adverse events between groups

Granulocyte-colony stimulating factor (G-CSF):

- granulocyte-colony stimulating factor (G-CSF) may reduce amputation risk in patients with diabetic foot infections (<u>level 2 [mid-level] evidence</u>)
 - based on Cochrane review with clinical heterogeneity of studies
 - systematic review identified 5 randomized trials comparing G-CSF to placebo or no added growth factor in 167 patients with diabetic foot infections
 - all patients received usual care with antibiotics
 - clinical heterogeneity of studies included
 - patients with varving degrees of infection severity

Guidelines:





United States guidelines:

- Infectious Diseases Society of America (IDSA) guideline on diagnosis and treatment of diabetic foot infections can be found in <u>Clin Infect Dis 2004 Oct 1;39(7):885</u>
 <u>EBSCOhost Full Text full-text</u> or at <u>National Guideline Clearinghouse 2005 Jan 31:5888</u>, summary can be found in <u>Am Fam Physician 2005 Apr 1;71(7):1429</u>
- Wound Healing Society guideline for treatment of diabetic ulcers can be found in <u>Wound</u> <u>Repair Regen 2006 Nov-Dec;14(6):680</u> ■ <u>EBSCOhost Full Text</u>
- American College of Foot and Ankle Surgeons clinical practice guideline on diabetic foot disorders can be found in <u>J Foot Ankle Surg 2006 Sep-Oct; 45(5 Suppl):S1</u> or at <u>National</u> Guideline Clearinghouse 2007 Jan 22:9846
- American Diabetes Association (ADA) guidelines
 - American Diabetes Association (ADA) standards of medical care in diabetes can be found in <u>Diabetes Care 2009 Jan; 32 Suppl 1:S13 full-text</u>
 - prevention and management of diabetes complications can be found in <u>Diabetes</u>
 <u>Care 2007 Jan; 30(Suppl 1):S15-24</u> or at <u>National Guideline Clearinghouse 2008 Jun 2:12185</u>
 - policy statement on preventive foot care in diabetes can be found in <u>Diabetes Care</u>
 2004 Jan; 27(suppl 1):S63-S64
- American Society of Plastic Surgeons guideline on chronic wounds of lower extremity can be found at National Guideline Clearinghouse 2007 Nov 5:11513
- Wound, Ostomy, and Continence Nurses Society (WOCN) guideline for management of wounds in patients with lower-extremity neuropathic disease can be found at <u>National</u> <u>Guideline Clearinghouse 2005 Jan 17:5912</u>





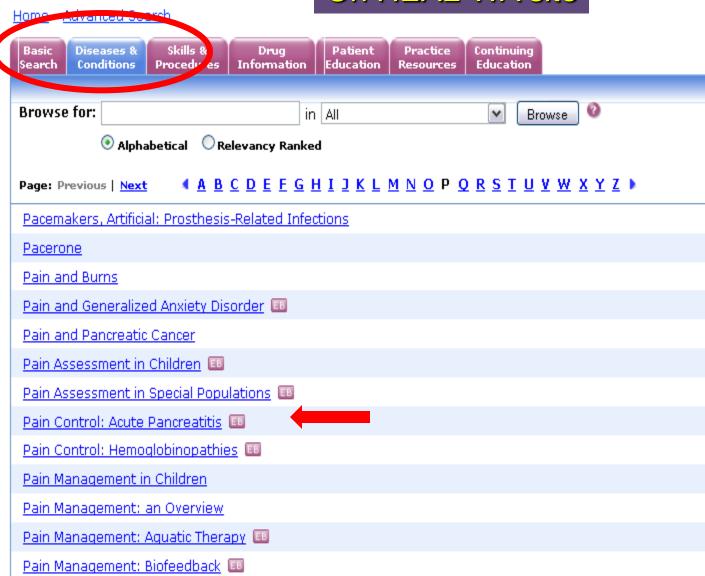
Nursing Reference Center [on HEAL-WA]

- Evidence-based summaries
 - Diseases & Conditions
 - Evidence-based Care Sheets
 - Quick Lessons
 - Information about drugs and medicationsa
 - Skills & Procedures
 - Patient Education





On HEAL-WA site









Nursing Reference Center

Evidence-based care sheet

Pancreatitis, Acute: Pain Control

Contents

What We Know

What We Can Do

References

Reviewer(s)

Evidence-Based Care Sheet

By: Darlene A. Strayer, RN, MBA; Tanja Schub, BS Edited by: Diane Pravikoff, RN, PhD, FAAN Cinahl Information Systems

What We Know

 Acute pancreatitis (AP) is a rapidly developing, potentially fatal inflammatory disorder of the pancreas, with diverse involvement of other organ systems; AP can be mild to severe, with a clinical course that

varies widely from patient to patient. (4)(5)(6) (See Quick Lesson About... Pancreatitis, Acute; CINAHL Accession Number: 5000000256)

- The inflammation caused by dysfunctionally activated pancreatic enzymes in AP has a direct effect on sensory nerves at spinal cord level T5-T9, which results in visceral pain $^{(1)6)(7)}$
 - Gradually increasing abdominal pain that plateaus after several hours is the primary characteristic of mild AP; pain that persists more than a few days is associated with the development of complications that characterize severe AP(1)(3)(4)(5)
 - Pain may radiate from the abdomen to the back or chest
 - Pain is exacerbated by eating foods high in fat or drinking alcoholic beverages, or when the patient is in a supine position
 - Although rare, painless mild AP may occur in association with postoperative states, renal transplantation, peritoneal dialysis, diabetic ketoacidosis, and shock of unknown origin
- Providing adequate pain control is an essential treatment strategy for patients with AP⁽⁵⁾⁽⁶⁾
 - Narcotic (i.e., opioid) analgesia is usually required because alternatives (i.e., nonopioid analgesia medications) are completely ineffective in alleviating the pain of severe AP(2)(5)(7)
 - The traditional belief that opioid analgesia causes additional pancreatic dysfunction is unsupported by clinical trial evidence(5)6(7)8
 - Pain management with patient-controlled analgesia (PCA) is common because oral intake is restricted; PCA-infused narcotic analgesics typically prescribed for patients with AP are (2)6)(7)8)

Related Information

- Quick Lessons
- · Evidence-Based Care Sheets
- Patient Education
- Guidelines
- CE
- Books
- Legal Cases

Nursing Reference Center

CARE SHEET

EVIDENCE-BASED | Pressure Ulcers: Hospital-Acquired

What We Know

- According to the United States Department of Health and Human Services Agency for Healthcare Research and Quality, the number of hospital patients with one or more pressure ulcers (PUs) rose from 280,000 in 1993 to 455,000 in 2003, a 63% increase(3)
- PUs (also known as decubitus ulcers, pressure sores, and bedsores) are localized areas of skin/soft tissue breakdown. Prolonged pressure is the main cause of PUs, usually when soft tissue becomes compressed between a bony prominence (where bone is closest to skin) and an external surface. This compression can result in ischemia, cell death, and tissue necrosis. (2, 5) (See the series of Evidence-Based Care Sheets and
 - . Pressure of 7 mmHg over a bony prominence for more than 2 hours is enough to cause the development of a PU(3)
- PUs may develop anywhere on the body, but most develop over bony prominences. Some 96% of PUs
- are found on the lower body, with the hip and buttock region accounting for almost 70% of all PUs(2) Patients in critical care units have a 33% higher risk of developing a hospital-acquired PU compared to
- . Older natients (e.g., aged sixty and older) admitted to acute care hospitals for nonelective orthogedic procedures, including hip replacement and treatment of long bone fractures, have a 66% greater incidence of developing a hospital-acquired $PU^{(3)}$
- Reducing the annual number of hospital-acquired PUs is an objective for the Joint Commission, National Patient Safety Committee, and Healthy People 2010, and is considered a quality of care indicator⁽¹⁾
 - · Medicare regulation CMS-1390-F stipulates that PUs acquired during an inpatient stay are no longer considered a covered (i.e., reimbursable) condition as of October 1, 2008(2)
- The primary admitting diagnosis for a patient who develops a PU while hospitalized is usually one of the following: septicemia, pneumonia, urinary tract infection, congestive heart failure, rehabilitation care, fluid and electrolyte disorders, and complications related to diabetes mellitus(3, 4)
- > Critically ill patients are at higher risk of developing hospital acquired PUs than are patients in general care areas due to several factors, including(1, 3)
 - · greater severity of illness
 - · increased length of hospital stay
 - poor tissue perfusion due to hemodynamic instability
 - · skin maceration due to moisture
 - · immobility
 - · poor nutritional status
- PUs are caused by both intrinsic and extrinsic factors^(1, 4)
- · Internal factors include immobilization, cognitive deficit, chronic illness (e.g., diabetes mellitus), poor nutrition, use of steroids, and advanced age (older than 60 years)(5, 6)
- The four external factors that contribute to the development of hospital-acquired PUs are pressure, friction, humidity, and shear force (5, 6)
- > In February 2007, the U.S. National Pressure Ulcer Advisory Panel (NPUAP) revised the staging system for pressure ulcers; in addition to the existing 4 stages (I-IV), deep tissue injury (DTI) and unstageable categories were added. The addition of DTI and unstageable categories clarified a staging process based heavily on visual identification(2)
- DTI refers to a localized area of discolored (commonly purple or maroon) but intact skin with damage to the underlying soft tissue from pressure and/or shear
- . Unstageable refers to a wound whose stage cannot be determined until enough slough or eschar is

- Hospital-acquired PUs can cause necrosis and damage that extends to muscle and/or bone, leading to potentially life threatening complications such as sensis and osteomyelitis(1, 3)
- Treatment includes alleviation of pressure, proper nutrition and hydration, application of dressings and topical ointments, debridement, and/or surgery, depending on the type and stage of the PU. Adjunctive treatment (e.g., radiant heat, negative pressure, cytokine growth factors) may be ordered to promote PU healing(2, 5)

What We Can Do

- Learn more about hospital-acquired PUs so you can accurately assess your patients' personal characteristics and health education needs; share this knowledge with colleagues (1, 6)
- At admission, assess all of your patients for existing PUs and for risk of developing a hospital-acquired PU, and document findings (1, 3, 4, 6)
- Use a risk assessment scale (e.g., Braden, Norton), if available, to assess your patient's risk for hospital-acquired PUs⁽⁶⁾
- Reassess risk of developing a hospital-acquired PU at intervals, during the inpatient stay, depending on the patient's condition and facility
- Regularly monitor the status and condition of existing PUs using an accepted healing scale/assessment tool (e.g., Pressure Ulcer Scale for
- Perform a blanch test to evaluate blood flow (redness may not be visible during a blanch test in individuals with darker skin; skin may appear darker than normal or bluish/purple). Check for blisters, sores, redness, warmth, swelling, indurations, and craters
- If applicable, note color, size, location, and depth of existing PUs and if malodorous drainage is present(6
- Request referral, as appropriate, to a wound specialist, seating specialist, dermatologist, physical therapist, occupational therapist, and registered dietician to resolve health compromise and complications in individuals with PUs(2, 3, 5)
- Administer prescribed treatment based on the stage of the PU. Principles of nursing care and treatment for all wound stages include the following (£, 3, 5) (For more information on PU treatment, see Evidence Based Care Sheet: Pressure Ulcers: Treatment; CINAHL Accession Number: 5000004183)
- . Clean PUs with normal saline solution and keep dry. Avoid using cytotoxic topical antiseptics (e.g., povidone-iodine, acetic acid), which may
- · Protect the patient from further injury (e.g., reduce friction and shear)
- Properly position the patient and turn at least every 2 hours. Do not place patient on a PU site. Position head of bed at 30° angle or less than 30°. in a side-lying position
- · Provide patient with a high-caloric/high-protein diet and adequate hydration. If needed, administer prescribed enteral nutrition or total parenteral
- · Manage urinary/bowel incontinence with the use of underpads, diapers, or briefs
- Properly cleanse and dry the patient's skin as soon as possible after each incident of incontinence
- · Follow facility infection control protocols and monitor for infection. If infection is suspected, request order for obtaining wound cultures, tissue biopsies, or radiologic examination. If applicable, apply/administer prescribed antibiotics^(2, 3, 5)
- · Assess frequently for pain; if present, administer prescribed analgesics
- · Monitor effectiveness of prevention and treatment interventions

Coding Matrix

Refrences are rated in order of strength:

M Rubished med-energies

SR Published evalence for integrative iterature review RCT Rubished assemb (rendomined controlled trial)

R Published esearch (netrandomizedcontrolled trial)

C Case historés, case studies

G Published guidelines

RV Published review of the literature

RU Published esearch utilizationreport

Of Published quality fromovement report L Legislation

PGR Published government report PFR Published dinded report

References

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- 2. American Medical Directors Association. (2008). Pressure upers in the long-terminating. National Guideline Cleantiphouse. Retrieved April 7, 2009, from http://www.puideline.gov/summervsummervsummervsox?doc.d#123818rbr#0064108string#pessure+AND+sore (S)
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- 4. Manallace, M. G., Geonani, A. Veine, D. F. Blance, L. Galhardo, V. Kalles, H., et al. (2007). Risk factors for measure unters in hospitalized elderly without schollings. cognitive impairment Wounds, 19(1), 20-24. (R)
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- http://emeddine.medscape.combrt.ble.3 9284-overview(GI)
- 6. Wound, Optomy, and Contribunce/Nurses Society (2003). Guideline forprevention and management of passure uters. National Guideline Céantohouse, Retrêved April 7. 2009, from http://www.guideline.gov/summery/summery/sepx?doc_d=3560&nbr+00371&striig=pressure (G)



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Aboriginal, Navajo Patients: Providing Culturally Co Access Device, Central Venous, Blood Sampling th

Accidental Hypothermia Management

Administration of Medication: Intramus

Administration of Medication: Subcur eous Infus

Administration of Medications: Nasal stillation

Administration of Medications: Nasogastric Tube

Administration of Medications: Rectal Suppository

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Airway Obstruction: Managing

Alternative and Complementary Medicine, Use of - Providing

Ambu-Bag@: Use of

Amish Patients: Gynecological and Obstetrical Care - Provid

Contents

What is Administration of Medications by Nasogastric Tube?

Why Administration of Medications by Nasogastric Tube was Ordered

Why Administering Medications by Nasogastric Tube is Important

Facts and Figures

What You Need to Know Before Administering Medications by Nasodastric Tube

What Will Happen During Administration of Medications by Nasodastric Tube

Other Tests, Treatments, or Procedures That May be Necessary Before or After Administering Medications by Nasogastric Tube

What to Expect After Administering Medications by Nasogastric Tube

Red Flags

What to Tell the Patient/Patient's

Family

Refereni

Red Flags • 🖪 Respiratory distress during medication administration through the NG tube may indicate migration of tube into the bronchial tree. Symptoms of this problem include

regurgitation of stomach contents and possible aspiration

cyanosis, decreased oxygen saturation by pulse oximetry, vomiting, increasing restlessness, stridor, and wheezing. If these symptoms occur, stop use immediately, and retract or remove the tube. Alert the clinician immediately and, if needed, initiate oxygen therapy and other emergency measures

XYZ

• 🗗 Sustained-release drugs must not be administered by NG tube. The crushing that is necessary in order for the pill to pass through the tube causes the rapid release of a high dose of medication into the patient's stomach, making overdose likely to occur. Contact the clinician for an adjustment to the order if sustained-release medications are

prescribed for NG administration • 🖣 If you note resistance when attempting to flush the tube, it may have become blocked by the precipitation of medication. Attempt to clear the tube with gentle suction by pulling/back on the plunger of the syringe, then pressing on the plunger to create a moderate amount of positive pressure within the tube. If this intervention does not clear the obstruction, remove and replace the NG tube. Never use force to infuse solution into the NG tube as this may create excessive pressure within the stomach, causing Title: Wound Dehiscence By: Duffek C, Nath R, Health Library: Evidence-Based Information, September 1, 2009

Database: Nursing Reference Center

Wound Dehiscence

Contents

<u>Definition</u>

Causes

Risk Factors

Symptoms

<u>Diagnosis</u> <u>Treatment</u>

Prevention

(Surgical Wound Dehiscence; Operative Wound Dehiscence)

by: Catherine Duffek, MLS, MS

Definition

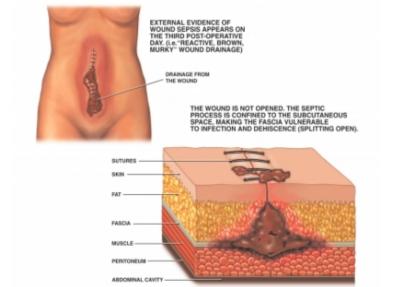
Wound dehiscence is the parting of the layers of a surgical wound. Either the surface layers separate or the whole wound splits open. This is a serious condition and requires care from your doctor.

Causes

Wound dehiscence varies depending on the kind of surgery you have. The following is a list of generalized causes:

- Infection at the wound
- Pressure on sutures
- Sutures too tight
- Injury to the wound area
- Weak tissue or muscle at the wound area
- Incorrect suture technique used to close operative area
- Poor closure technique at the time of surgery
- Use of high-dose or long-term corticosteroids
- Severe vitamin C deficiency (<u>scurvy</u>)

Wound Infection



Patient Education

Related Information

Patient Education

Books

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Search for Evidence Guidelines Resources

- National Guideline Clearinghouse guideline.gov
- PubMed/MEDLINE
- CINAHL/CINAHL Plus











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Other Guidelines from this Developer

Brief Summary

Guideline Summary

GUIDELINE TITLE

Pressure ulcer treatment. Health care protocol.

BIBLIOGRAPHIC SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Pressure ulcer treatment. Health care protocol. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2008 Jan. 28 p. [36 references]

GUIDELINE STATUS

This is the current release of the guideline.

BRIEF SUMMARY CONTENT

RECOMMENDATIONS

EVIDENCE SUPPORTING THE RECOMMENDATIONS

IDENTIFYING INFORMATION AND AVAILABILITY

DISCLAIMER

Go to the Complete Summary

RECOMMENDATIONS

MAJOR RECOMMENDATIONS

Note from the National Guideline Clearinghouse (NGC) and the Institute for Clinical Systems Improvement (ICSI): For a description of what has changed since the previous version of this protocol, refer to <u>Summary of Changes Report January 2008</u>.

The recommendations for treatment of pressure ulcers are presented in the form of a protocol accompanied by 7 detailed annotations. Clinical highlights and the annotations follow.

Class of evidence (A-D, M, R, X) definitions are provided at the end of the "Major Recommendations" field.

Clinical Highlights

- The treatment of pressure ulcers should include an assessment specific to the wound, including the following elements: history and physical, etiology, psychosocial needs, nutritional status, wound assessment and documentation of these elements. (Annotation #1)
- The treatment of pressure ulcers should be consistent and evidence based. (Annotation #2)
- Education should be provided to the patient, family, caregivers and health care team members regarding treatment of pressure ulcers. (Annotation #6)

Special Considerations

Persons undergoing palliative or hospice care may need an alteration in their goals of care. The goals of care can shift from prevention and treatment to palliation and management of ulcer pain and odor /R/.

Annotations for Pressure Ulcer Treatment

1. Wound Assessment

Key Points:

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• The assessment for pressure ulcer treatment should focus on the wound and following elements: history and physical, etiology, psychosocial needs,

Search NGC:	Guideline Comparison		
Search Search Help	GUIDELINE TITLE	Assessment and management of stage I to IV pressure ulcers.	Pressure ulcer treatment. Health care protocol.
Detailed Search Browse NGC: Disease/Condition	DATE RELEASED	2002 Aug (revised 2007 Mar)	2008 Jan
Treatment/Intervention Organization	ADAPTATION:	Not applicable: The guideline was not adapted from another source.	Not applicable: Guideline was not adapted from another source.
Compare Guidelines	LENGTH:	37 pages	13 pages
View Guideline Collection	GUIDELINE DEVELOP	Registered Nurses' Association of Ontario - Professional Association	Institute for Clinical Systems Improvement - Private Nonprofit Organization
	SOURCE(S) OF FUNDIN	Funding was provided by the Ontario Ministry of Health and Long Term Care.	The following Minnesota health plans provide direct financial support: Blue Cross and Blue Shield of Minnesota.
	RATING SCHEME:	The validity of scientific findings was judged by design, sample selection and size, inclusion of comparison groups, generalizability, and agreement with other studies.	Not applicable
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Searching for Practice Guidelines in CINAHL and MEDLINE/PubMed

- In CINAHL: Limit to Practice Guidelines as a Publication Type
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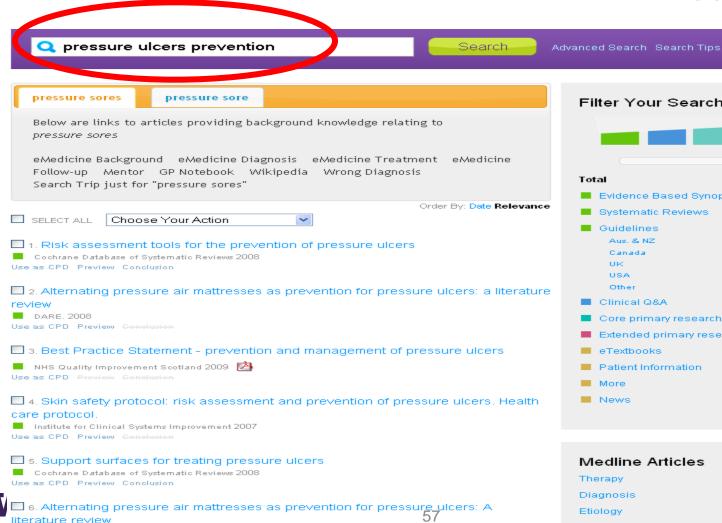
- Meta-search engine
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 75 databases
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- Searches Cochrane, National Guideline Clearinghouse, Bandolier, etc.





TRIP search: prevention of pressure ulcers





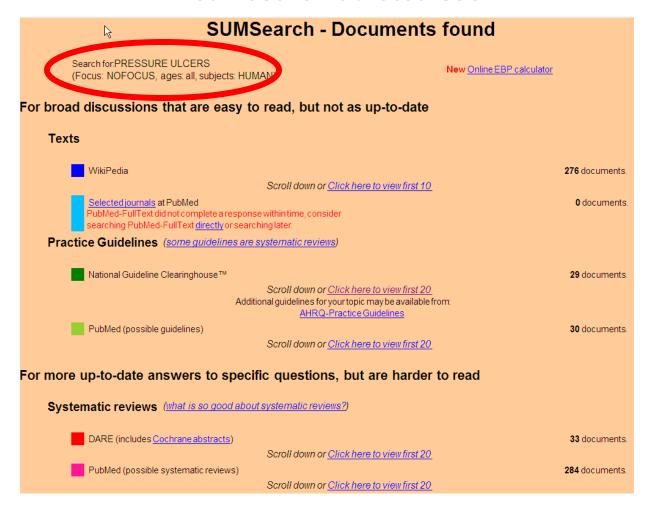
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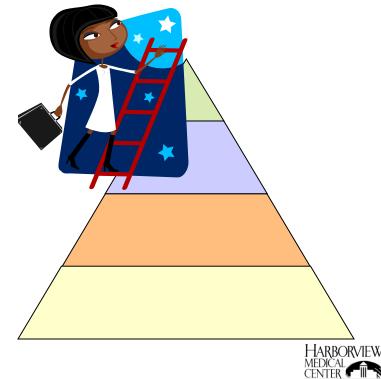






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- PubMed/MEDLINE Systematic Reviews
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Systematic Reviews vs Meta-Analyses

A **Systematic review:** is a literature review focused on a single question which tries to identify, appraise, select and synthesize all high quality research evidence relevant to that question.

Meta-analyses: are systematic reviews that combine the results of several studies using quantitative statistics.





Cochrane Database of Systematic Reviews

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- Very focused, specific questions







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[Review] Support surfaces for pressure ulcer prevention

PDF (Size 366K)

- Abstract
- Plain language summary
- Background
- Objectives
- Criteria for considering studies for this review
- · Search methods for identification of studies
- . Methods of the review
- Description of studies
- Methodological quality
- Results

studies

- Discussion Authors' conclusions
- Potential conflict of interest
- Characteristics of included

Acknowledgements

 Characteristics of excluded studies

[Review]

Support surfaces for pressure ulcer prevention

N Cullum, E McInnes, SEM Bell-Syer, R Legood

Cochrane Database of Systematic Reviews 2007 Issue 1

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DOI: 10.1002/14651858.CD001735.pub2 This version first published online: 19 July 2004 in Issue 3, 2004 Date of Most Recent Substantive Amendment: 20 May 2004

This record should be cited as: Cullum N, McInnes E, Bell-Syer SEM, Legood R. Support surfaces for pressure ulcer prevention. Cochrane Database

No.: CD001735, DOI: 10.1002/14651858.CD001735.pub2.

Abstract

Background

Pressure ulcers (also known as bedsores, pressure sores, decubitus ulcers) are areas of localised damage to the skin and underlying to friction. They are common in the elderly and immobile and costly in financial and human terms. Pressure-relieving beds, mattresses ar aids to prevention in both institutional and non-institutional settings.

Objectives

This systematic review seeks to answer the following questions:

- to what extent do pressure-relieving cushions, beds, mattress overlays and mattress replacements reduce the incidence of pressu support surfaces?
- how effective are different pressure-relieving surfaces in preventing pressure ulcers, compared to one another?

Search strategy

The Specialised Trials Register of the Cochrane Wounds Group (compiled from regular searches of many electronic databases included in the Cochrane Wounds Group (compiled from regular searches).

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Finding Systematic Reviews and Meta-Analyses in *PubMed/MEDLINE and CINAHL*

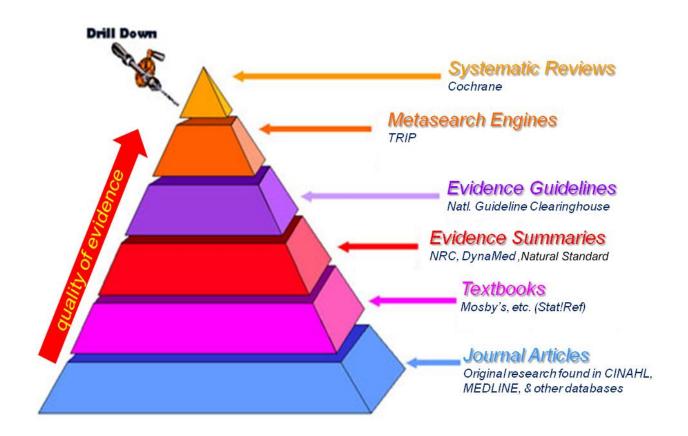
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- In PubMed/MEDLINE:
 - Select Systematic Reviews in Clinical Queries section
 - Limit to Meta-analysis as Publication/Type of Article





Searching for Evidence Categories







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- AHFS Drug Information [on HEAL-WA]
- Davis's Drug Guide for Nurses [on HEAL-WA]
- Natural Standard [on HEAL-WA]
 - Evidence-based information on CAM, including supplements, herbs, acupuncture, massage, etc.
 - -Also available partially through *MedlinePlus* www.nlm.nih.gov/medlineplus/druginformation.html
- Natural Medicines Comprehensive Database
 www.naturaldatabase.com





AHFS Drug Information [on HEAL-WA]

Escitalopram Oxalate

Introduction

C20H21FN2O+C2H2O4

Escitalopram, the S-enantiomer of citalopram, is a selective serotonin-reuptake inhibitor (SSRI) and an antidepressant.

Uses

Major Depressive Disorder

Escitalopram oxalate is used in the treatment of major depressive disorder. Efficacy for the management of major depression was established in 3 placebo-controlled studies of 8 weeks' duration in adult outpatients who met DSM-IV criteria for major depressiv ro disorder. 1/2 In these studies, 10- and 20-mg daily dosages of escitalopram were more effective than placebo in improving scores Montgomery Asberg Depression Rating Scale (MADRS), the Hamilton Rating Scale for Depression (HAM-D), and the Clinical Global Impression Improvement and Severity of Illness Scale. $\frac{1}{2}$ $\frac{2}{2}$ Escitalopram also was more effective than placebo in improving other aspects of depressive disorder, including anxiety, social functioning, and overall quality of life. Substantial improvement in MADIMACV. For the scores was not d in patients receiving either dosage of escitalopram compared with those receiving placebo after 1-2 we th any. 2, 14, 16 In addition, escitalopram dosages of 10-20 mg daily appeared to be at least as effective as racemic citalopram of 20-40 mg daily. \(\frac{16}{2} \) There is some evidence that escitalopram may offer some clinical advantages compared with citalopram or selective serotonin-reuptake inhibitors (e.g., increased efficacy, more rapid onset of therapeutic effect, fewer adverse effects); however, additional studies are needed to confirm these initial findings. 8, 9, 10 Efficacy of escitalopram in hospital settings has n established to date. 1/2 8 For further information on use of SSRIs in the treatment of major depressive disorder and considerations choosing the most appropriate antidepressant agent for a particular patient, see Uses: Major Depressive Disorder, in Citalopram Hydrobromide 28:16.04.20.

Lexapro 5MG/5ML Solution (FOREST): 240/\$140.86 or 720/\$416.52 References

Lexapro 5MG Tablets (FOR 1. Forest Pharmaceuticals, Inc. Lexapro® (escitalopram oxalate) tablets/oral solution prescribing info

2. Burke WJ, Gergel I, Bose A. Fixed-dose trial of the single isomer SSRI escitalopram in depressed of 63:331-6. [IDIS 479908] [PubMed 12000207]

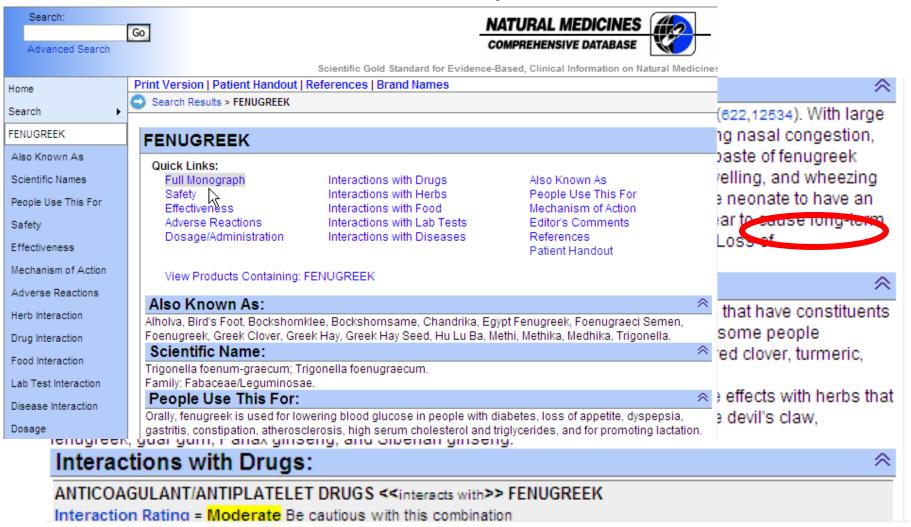
Names

(scored)

3. Anon. Forest Lexapro® approval includes label claim of greater potency than celexa. FDC Rep. Au



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Cancer prevention	<u>c</u>
Diabetes (type 2)	<u>C</u>
<u>Dry skin</u>	<u>c</u>
HIV infection	<u>C</u>
<u>Lichen planus</u>	<u>C</u>
Skin burns	<u>C</u>
Skin ulcers	<u>c</u>
Ulcerative colitis (including inflammatory bowel disease)	<u>C</u>
Wound healing Level of	f Evidence Grade
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Pressure ulcers	
B (Goo	d Scientific Evidence)

Natural Standard

Statistically significant evidence of benefit from >2 properly randomized trials (RCTs), OR evidence from one properly conducted RCT AND one properly conducted meta-analysis, OR evidence from multiple RCTs with a clear majority of the properly conducted trials showing statistically significant evidence of benefit AND with

Statistically significant evidence of benefit from 1-2 properly randomized trials, OR evidence of benefit from ≥1 properly conducted meta-analysis OR evidence of benefit

evidence of benefit or ineffectiveness, OR evidence of benefit from ≥1 cohort/casecontrol/non-randomized trials AND without supporting evidence in basic science,

animal studies, or theory, OR evidence of efficacy only from basic science, animal

Statistically significant negative evidence (i.e., lack of evidence of benefit) from cohort/case-control/non-randomized trials. AND evidence in basic science, animal

supporting evidence in basic science, animal studies, or theory.





from >1 cohort/case-control/non-randomized trials AND with supporting evidence in basic science, animal studies, or theory. This grade applies to situations in which a well designed randomized controlled trial reports negative results but stands in contrast to the positive efficacy results of multiple other less well designed trials or a well designed meta-analysis, while awaiting confirmatory evidence from an additional well designed randomized controlled trial.

C (Unclear or conflicting scientific evidence)

C (Unclear or conflicting scientific evidence)

Evidence of benefit from ≥1 small RCT(s) without adequate size, power, statistical significance, or quality of design by objective criteria,* OR conflicting evidence from multiple RCTs without a clear majority of the properly conducted trials showing

studies, or theory.

69

D (Fair Negative Scientific Evidence)



Wound healing and related conditions

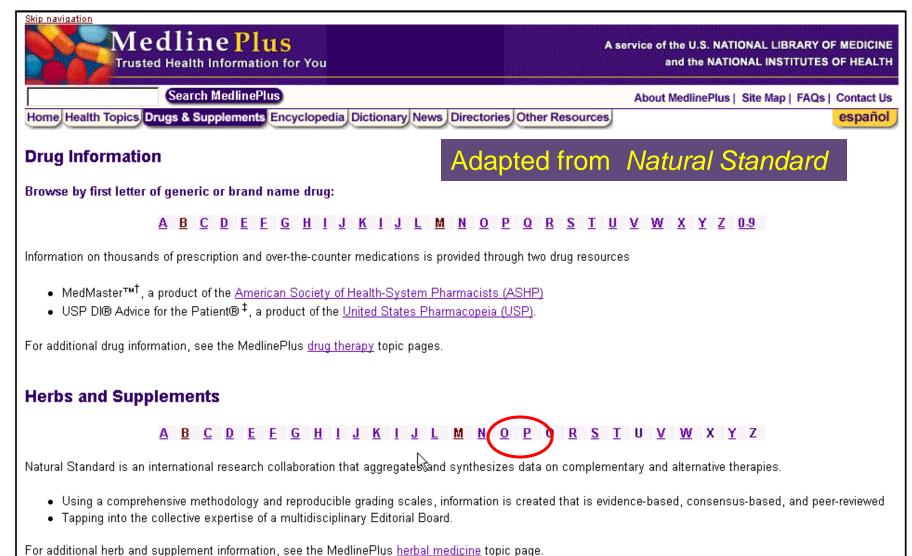
levels of scientific evidence for specific therapies

Natural Standard does not recommend specific therapies or practitioners.

Grade: C (Unclear or Conflicting Scientific Evidence)		
Therapy	Specific therapeutic Use(s)	
Aloe	Skin ulcers	
<u>Aloe</u>	Wound healing	
Alpha-lipoic acid	Wound healing (in patients undergoing hyperbaric oxygen therapy)	
<u>Arginine</u>	Anal fissures	
<u>Arginine</u>	Wound healing	
<u>Aromatherapy</u>	Wound care	
<u>Aγurveda</u>	Anal fissure	
Bovine cartilage	Skin care (laser resurfacing adjunct)	
<u>Calendula</u>	Wound healing	
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Peppermint oil

Peppermint oil (Mentha x piperita L.)

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consult with a qualified healthcare provider before making decisions about therapies
land/or health conditions.



While some complementary and alternative techniques have been studied scientifically, high-quality data regarding safety, effectiveness, and mechanism of action are limited or controversial for most therapies. Whenever possible, it is recommended that practitioners be licensed by a recognized professional organization that adheres to clearly published standards. In addition, before starting a new technique or engaging a practitioner, it is recommended that patients speak with their primary healthcare provider(s). Potential benefits, risks (including financial costs), and alternatives should be carefully considered. The below monograph is designed to provide historical background and an overview of clinically-oriented research, and neither advocates for or against the use of a particular therapy.

Related Terms:

- Balm mint, black peppermint, brandy mint, curled mint, Feullis de menthe, Japanese peppermint, Katzenkraut (German), lamb mint, Mentha arvensis L. var piperascens, menta prima (Italian), Menthae piperitae aetheroleum (peppermint oil), Menthae piperita var officinalis, Menthae piperitae folium (peppermint leaf), Menthe anglaise, Menthe poivre, Menthe poivree, Mentha piperita var vulgaris, Our Lady's mint, pebermynte (Danish), Pfefferminz (German), Porminzen, Schmecker, spearmint (Mentha spicata L.), water mint (Mentha aquatica), white peppermint, WS(R) 1340.
- Essential oil constituents: Cineol, isomenthone, liminene, menthofuran, menthol, menthone, menthyl acetate, terpenoids.
- Leaf constituents: Caffeic acid, chlorogenic acid, luteolin, hesperidin, rutin, "volatile" oil.
- Selected brand names: Ben-Gay®, Colpermin®, China Maze, Cholaktol, Citaethol, Enteroplant® (contains peppermint and caraway oil), Kiminto, Mentacur, Mentholatum, Mintec, Rhuli Gel®, Robitussin® cough drops, SX Mentha®, Vicks VapoRub®.
- Combination products: Absorbine Jr.®, Iberogast®, Listerine®.

Aceite de menta (menta piperita)

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No obstante se han estudiado de forma científica ciertas técnicas complementarias y afternas, para la mayoría de las terapias hay limitación o controversia sobre los datos de afla talidad respecto a la seguridad, eficacia y mecanismo de acción. Se recomienda, al máximo posible, que los practicantes cuenten con licencias expedidas por una organización profesional reconocida que se adhiera a normas claramente publicadas. Además, antes de iniciar una nueva técnica o contratar a un practicante, se recomienda que los pacientes consulten con su(s) proveedor(es) médico(s) principal(es). Se deben considerar atentamente los beneficios y riesgos potenciales (incluye los costos financieros) así como las afternativas. La siguiente monografía está diseñada para ofrecer una historia y un resumen de la investigación con orientación clínica, y la misma ni defiende ni se opone al uso de una terapia en particular.

Términos relacionados:

- Bálsamo de menta, menta negra, menta de brandy, menta crespa, Feullis de menthe, menta japonesa, Katzenkraut (alemán), menta de cordero, menta arvenis, L. var piperascens, menta prima (italiano), Menthae piperitae aetheroleum (aceite de menta) Menthae piperita var officinalis, Menthae piperitae folium (hoja de menta), Menthe anglaise, , Menthe poivree, Mentha piperita var vulgaris, Our Lady's mint, pebermynte (danés), Pfefferminz (alemán), Porminzen, Schmecker, hierbabuena (Menta spicata), menta acuática (Mentha aquatica), menta blanca. WS (R) 1340.
- Elementos constituyentes esenciales del aceite: Cineol, isomentona, limoneno, mentofurano, mentol, mentona, acetato de mentilo, terpenoides.
- Elementos constituyentes de la hoja: Ácido cafeíco, ácido clorogénico, luteolina, hesperidina, rutín, aceite "volátil".
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Cystic Fibrosis

Also called: CF

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Cystic fibrosis (CF) is an inherited disease of the mucus and sweat glands. It affects mostly your lungs, pancreas, liver, intestines, sinuses and sex organs. CF causes your mucus to be thick and sticky. The mucus clogs the lungs, causing breathing problems and making it easy for bacteria to grow. This can lead to problems such as repeated lung infections and lung damage.

The symptoms and severity of CF vary widely. Some people have serious problems from birth. Others have a milder version of the disease that doesn't show up until they are teens or young adults.

Although there is no cure for CF, treatments have improved greatly in recent years. Until the 1980s, most deaths from CF occurred in children and teenagers. Today, with improved treatments, people with CF live, on average, to be more than 35 years old.

National Heart, Lung, and Blood Institute

Start Here

- Cystic Fibrosis NIH (National Heart, Lung, and Blood Institute)
- Cystic Fibrosis Interactive Tutorial (Patient Education Institute) Requires Flash Player Also available in Spanish
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National Institutes of Health

The primary NIH organization for research on Cystic Fibrosis is the National Heart, Lung, and Blood Institute

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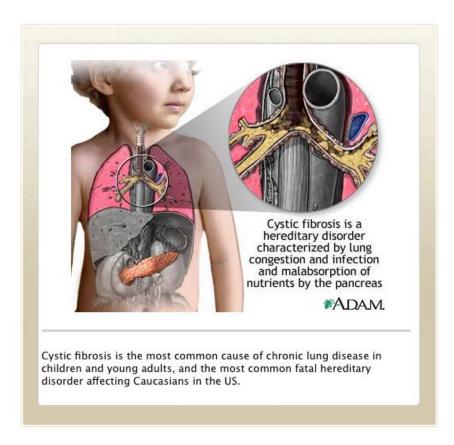
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Cystic fibrosis



Update Date: 5/11/2009

Updated by: Daniel Rauch, MD, FAAP. Director, Pediatric Hospitalist Program, Associate Professor of Pediatrics, NYU School of Medicine, New York, NY. Review provided by VeriMed Healthcare Network. Also reviewed by David Zieve, MD, MHA, Medical Director, A.D.A.M., Inc.





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Management of severe sepsis and septic shock in adults

TOPIC OUTLINE INTRODUCTION THERAPEUTIC PRIORITIES EARLY MANAGEMENT Stabilize respiration Assess perfusion.

Management of severe subsis and septic shock in adults

approximately 40 percent and can exceed 50 percent in the sickest patients [2-5].

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Kevin C Wilson, MD

Deputy Editor

Last literature review version 17.3: September 2009 | This topic last updated: October 16, 2009 (More)

INTRODUCTION — Sepsis is a clinical syndrome characterized by systemic inflammation due to infection. There is a continuum of severity ranging from sepsis to severe sepsis and septic shock. Over 750,000 cases of sepsis occur in the United States each year, resulting in approximately 200,000 fatalities [1]. Even with optimal treatment, mortality due to severe sepsis or septic shock is

Numerous interventions exist that decrease mortality due to sepsis. In this topic review, the management of severe sepsis and septic shock is discussed. Definitions, diagnosis, pathophysiology, and investigational therapies are reviewed separately. (See "Sepsis and the systemic inflammatory response syndrome: Definitions, epidemiology, and prognosis" and "Pathophysiology of sepsis" and

"Investigational and ineffective therapies for sepsis".)

THERAPEUTIC PRIORITIES — Therapeutic priorities for patients with severe sepsis or septic shock include:

- Early initiation of supportive care to correct physiologic abnormalities, such as hypoxemia and hypot nsion [6-9].
- Distinguishing sepsis from systemic inflammatory response syndrome (SIRS) (table 1 and table 2) because, if an infection exists, it must be identified and treated as soon as possible (table 3). This may require a surgical procedure (eg, drainage), as well as appropriate antibiotics.

EARLY MANAGEMENT — The first priority in any patient with severe sepsis or septic shock is stabilization of their airway and breathing. Next, perfusion to the peripheral tissues should be restored [7,10].

Stabilize respiration — Supplemental oxygen should be supplied to all patients with sepsis and oxygenation should be monitored continuously with pulse eximetry. Intubation and mechanical ventilation may be required to support the increased work of breathing that typically accompanies sepsis, or for airway protection since encephalopathy and a depressed level of consciousness frequently complicate sepsis [11,12].

CONTROL OF THE SEPTIC **FOCUS** Identification of the septic

- Additional therapies

Ongoing management

- Catheters

 Restore perfusion - Intravenous fluids

- Vasopressors

focus

- Eradication of infection.
- Antimicrobial regimen ADDITIONAL THERAPIES
- Recombinant human activated protein C
- Less severe disease - Children
- SIRS VTE prophylaxis during
- infusion Glucocorticoids
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Chapter 36. Skin Integrity and Wound Care
 KOZIER & ERB'S FUNDAMENTALS OF NURSING: CONCEPTS, PROCESS, AND PRACTICE - 8th Ed. (2008)
 » Unit 8 - Integral Components of Client Care

... ¶ The accompanying Practice Guidelines describe the principles of assessing common pressure sites. ¶ WOUND HEALING ¶ Healing is a quality of living tissue; it is also referred to as regeneration (renewal) of ...

3. 😱 GOTU KOLA

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... content also are available and have been studied in clinical trials in venous insufficiency and wound healing at doses of 30 to 90 mg/day Wound-healing studies have involved topical application of a hydrogel ...

4. 😱 healing

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... abuse, cancer), as well as the use of several drugs, including corticosteroids. SEE: illus: WOUND HEALING. ¶ COMPLICATIONS: These may result from the formation of a scar that interferes with the ...

5. 😱 DRAGON'S BLOOD

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6. 😱 Pressure Ulcers

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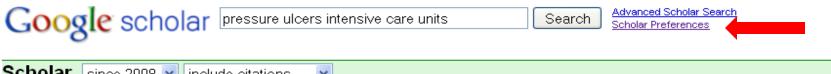


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N Nijs, A Toppets, T Defloor, K Bernaerts, K ... - Journal of Clinical Nursing, 2009 - ccmjournal.org

Results.: Cumulative incidence of pressure ulcers grade 2-4 was 20-1%. The

following variables were positively associated with pressure ulcers grade 2-4:

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Validity of the Waterlow scale for pressure ulcer risk assessment in the intensive care unit: a ...

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Critically ill patients are at a particular risk for developing pressure ulcers.

Yet until now, no sufficiently specific, validated pressure ulcer risk assessment instruments exist for critically ill patients. In a prospective ...

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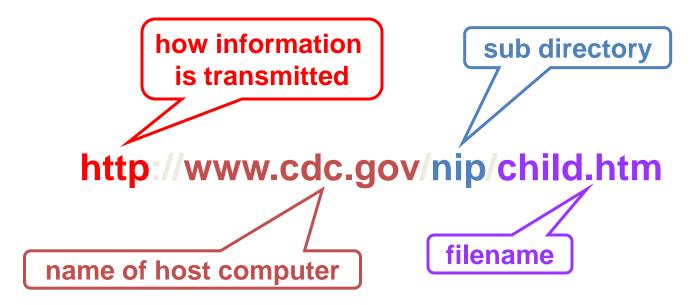




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