Surgery Clerkship
Introductory Orientation

EFFECTIVE METHODS FOR NAVIGATING MEDICAL RESEARCH

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Welcome to the Surgery Clerkship Orientation. . . If you haven’t already, open a browser on your computer to

https://ttuhsc.libguides.com/homepage

(Google Chrome is recommended as the most well-supported browser for database searching)
The homepage provides a launch pad for all resources in the clerkship. From here you can access both course materials and database portals.

Contact us if you have questions.
Pathway to Course Module

Click the MSIII Surgery Clerkship Module

Click Library Courses
Purpose and Objectives for the MSIII Surgery Clerkship EBM Library Course, 2018-2019

Purpose: To become familiar with the principles of Evidence-Based Practice as it applies to Evidence-Based Medicine. Specifically this involves an understanding of how existing medical knowledge can be integrated into clinical practice.

Objectives: As a result of the EBM Library Course for the MSIII Surgery Clerkship and the group discussion led by Dr. Griswold, participants will be able to:
- Identify and define the concept of Evidence-Based Medicine
- Recognize the 5-step process (the 5 A's) in Evidence-Based Practice
- Understand the key research methods needed to locate evidence
- Distinguish between various levels of evidence and their categories
- Appraise the evidence based on validity, reliability, and applicability
- Integrate and apply the evidence within a clinical setting

From the research guide, select the “Activities & Assignments” button from the menu bar.
1) Construct a Focused, Well-Articulated Question. See The PICO Question tab.

2) Complete the PICO Question and email it to surgerspico@ttuhsc.edu. It is normally due by noon on the Monday 2 weeks after the Clerkship Orientation (or Tuesday if the Monday is a holiday).

3) Attend 1 Database Searching Class. Mandatory. See Hannah Dillard for the schedule. Classes are held in the Library's Learning Resource Center (LRC). Along with the librarian who has researched your PICO question & PICO worksheet, students will learn to search EBM databases to locate an article that answers their PICO question. Please do not choose an article beforehand. Questions may be on any topic; they do not have to be surgery related and may be adjusted as needed. Before leaving class, be sure to locate the appropriate Critical Appraisal Worksheet for your article. See the Appraisal tab for the location of the worksheets.

4) Attend 1 Group Discussion Class with Dr. John Griswold. Mandatory. See Hannah Dillard for the schedule. Classes are held in the Library's Rare Books Conference Room. EBM Reports are due at the end of the discussion and should be submitted to one of the librarians. Reports should include the EBM Report Cover Sheet (see tab), copy of completed PICO question worksheet, copy of article (or abstract for a long article), and a copy of the critical appraisal worksheet(s).
Course Calendar

2018/2019 Rotation 1: July 9, 2018 – August 31, 2018

1. EBM Surgery Introductory Orientation: July 9, 2018 @ 4:00 PM
   • PICO Question: July 18th by 1:00 PM (surgerypico@ttuhsc.edu)

2. Database Searching Classes (Learning Resource Center)
   • Group 1: July 19 @ 3:00 – 4:30 PM
   • Group 2: July 23 @ 3:00 – 4:30 PM

3. EBM Group Discussion (Rare Books Room)
   • Group 1: July 30 @ 1:30 – 3:00 PM
   • Group 2: July 31 @ 3:30 – 5:00 PM

4. EBM Report Due at end of Discussion Group
The Surgery Clerkship Orientation occurs on the first day of the rotation. Attendance is mandatory.

The orientation introduces the course and explains the following:

- **Access Products - JAMAevidence & Access Surgery**
- **MedlinePlus.gov** – free website for both professionals and patients; includes a nice collection of surgery videos
- **EBM Point-of-Care tools** – Clinical Key/First Consult, Dynamed Plus, and Essential Evidence Plus
- **Practice Guidelines** – both commercial and government sources like PubMed
The Surgery Clerkship requires that you develop a relevant clinical question in the form of a . . .

**PICO**

A PICO question is representative of:

- **the Patient, Population or Problem** being addressed.
- **the Intervention** being considered.
- **the Comparison** intervention or exposure, when relevant.
- **the clinical Outcomes** of interest.

See the PICO Question and PICO Worksheet tabs for further instruction.
Create a PICO Question

Due: July 18, 2018 @ 1:00 pm

Email: surgerypico@ttuhsc.edu
EBM Database Searching Class

The Database Searching class occurs twice during the rotation in the library’s Learning Resource Center (LRC).

This rotation’s sessions will be held at the following times:
- Group 1: July 19th @ 3:00 PM
- Group 2: July 23rd @ 3:00 PM

The search class identifies several of the major EBM review-based resources including:

- PubMed
- Cochrane Library
- ACP Journal Club
- Annals of Internal Medicine
- Ovid
Using your PICO question and worksheet, you and a reference librarian will work through the various databases covered to find a relevant review article for your information.

Instructors:

- Peggy Edwards
- Dan Stuart
- Margaret Vugrin
- Micah Walsleben
Use time during the database search class and your group’s discussion to select an article that supports your PICO.

Then use the appraisal sheets found at Dartmouth’s EBM site (https://www.dartmouth.edu/~library/biomed/guides/research/ebm-resources-materials.html)
EBM Surgery Group Discussion

Be ready to discuss the following criteria with Dr. Griswold and the group:

- Discuss which databases were selected and searched
- Describe your search strategy
- Identify your article’s publication history and study design
- Describe its methods and relevant findings
- How reliable and valid are results?
- What implications do the article’s criteria present for further application?

The dates and times for this rotation’s group discussion sessions are:

- **Group 1:** July 30th @ 1:30
- **Group 2:** July 31st @ 3:30

EBM Reports are due at the end of your Discussion Group!!! Turn them in to one of the librarians.
Select the PICO Worksheet icon to further explore the approach to EBM and how to accomplish the first assignment.

PICO Questions must be submitted prior to the database searching class.

Due: July 18th, 2018 @ 1:00 pm

Email to: surgerypico@ttuhsc.edu

PICO Worksheets should be completed by the Discussion Group date.
In adult male patients with recent myocardial infarction, does a single daily dose of 300 mg of aspirin prevent re-infarction?
In adult male patients with recent myocardial infarction, does a single daily dose of 300 mg of aspirin prevent re-infarction?
From the course module, navigate back to the library homepage.

Click the link to the Access Products Index

https://ttuhsc.libguides.com/homepage
Access Products operates in conjunction with McGraw-Hill to supply eBooks and other materials. Create a MyAccess account for personalized preferences and tailored learning tools.
Click on the User’s Guide to the Medical Literature course book for EBM.

A MyAccess account is needed to see these tools.

JAMAevidence provides guides for the systematic consideration of the validity, importance, and applicability of evidence-based healthcare.

Three primary textual tools for evidence-based practice in a clinical setting.
‘Foundations’ systematically orients users to the 5 A’s of EBM: Assess, Ask, Acquire, Apply, and Appraise.

‘Users’ Guides’ is a key EBM authority featuring approaches to key clinical scenarios.

Click on “Chapter 7: Therapy (Randomized Trials)”
“Finding the Evidence” helps users formulate clinical questions.

Click on “Finding the Evidence” to learn more about applying the evidence.

Click on “Finding the Evidence” to see relevant information about applying the evidence.
“Users’ Guides” help correlate the study or articles to the clinical problem. Click on “View Table” to see the table. Tables and point-of-care inventories help investigate various studies and their implications. Click here to see about applying results.
Applying the results can mean comparing review articles for effectiveness & risk assessment.

Comparison tools can evaluate the potential cases. Further data sets can be accessed to support the analysis.

Click on “View Table” to access Table 7-3.

Scroll down to the section entitled “Are the Likely Treatment Benefits Worth the Potential Harm and Costs?”

Scroll down to Table 7-3.
Risk assessment and evaluation comparisons can help clinicians determine the best approach based on prior evidence.
Access Surgery provides textual materials and educational tools for surgery students, residents, and physicians.
Access Surgery

Major electronic textbooks such and prominent series.

Case files and general surgery criteria can be found under the “Cases” tab.

Click on the Advanced Search to browse topics within major textbooks.

Major electronic textbooks such and prominent series.
Select the ‘Current Diagnosis’ textbook and type “stroke prevention” into the search box. Click Search.
Select the “Postoperative Complications” result.

Accredited texts such as this one can be quickly navigated to obtain information on the relevant clinical question.
Medline Plus is a government website with valuable patient education information.
Click on Angioplasty

Narrated by surgeons
EBM Point-of-Care (PoC) Tools

EBM PoC tools include decision support information accessible at the patient’s bedside or the “point of care.” The data within PoC tools is evaluated and rated with varying levels of evidence. Important clinical information includes:

- history and physical
- signs and symptoms
- differential diagnosis
- diagnosis
- therapy
- follow-up
- guidelines
https://ttuhsc.libguides.com/homepage

Click on ClinicalKey/FirstConsult
ClinicalKey is Elsevier’s primary research portal. It provides access to relevant clinical information in addition to the medical library items supported by this vendor.
Clinical Key – Clinical Overviews/First Consult

Type in the following phrase: “acute coronary syndrome.” Click Search.

First Consult (FC) is a point of care resource that summarizes other sources of evidence. It is currently transitioning into a new interface tool called Clinical Overviews (CO).
Click on “Acute Coronary Syndromes”

Additional Clinical Key & Elsevier search engine tools.

Condensed PoC summary
Click "Treatment" from the menu

Click on "Treatment Options"

Scroll to "Drug therapy"

Preventative treatment recommendations
Click on DynaMed Plus

https://ttuhsc.libguides.com/homepage
DynaMed Plus monitors over 500 medical journals and is updated daily. Its overall conclusions represent a synthesis of the best available evidence.
DynaMed’s results browse results within clinical profiles as well as options for images and calculators.
DynaMed Plus

Select result of the same name

Select "Acute Coronary Syndrome"

Click Treatment

DynaMed presents summaries of certain conditions which integrate evidence at various graded levels.
Antiplatelet and anticoagulant drugs for acute coronary syndromes

Aspirin
- give non-enteric-coated, chewable 102-325 mg to patients with likely or definite unstable angina
- give immediately after myocardial infarction (STEMI) as soon as possible after hospital presentation and continue indefinitely (maintenance dose 81-325 mg/day in patients who tolerate it (ACC/AHA Class I, Level A)"

DynaMed correlates treatment recommendations with evidence-based sources

Click Aspirin

Select hyperlinked citation
Essential Evidence Plus covers over 13,000 topics and links the user to evidence summaries. It is also partnered with Systematic Reviews from Cochrane Collaboration. Certain tools such as the Daily POEMS, Calculators, and Derm Expert Image Viewer can allow users better access to EBM material.

Select Essential Evidence Topics from the drop-down and type myocardial infarction into the search box. Click Search.
Select Myocardial Infarction from the results

Evidence graded by level; criteria can be seen by hovering your mouse.

Click on Prevention

Integrative diagnostic tools
Essential Evidence Plus

Concise guidelines with revealed evidence and links to POEMS (Patient-Oriented Evidence That Matters)

Click on Guidelines
Index of Practice Guidelines


Resources
- NGC Practice Guidelines
- Aspirin uses and indications (ACCP) Read More


Resources
- NGC Practice Guidelines
- Warfarin uses and indications (ACCP) Read More

3. Evidence-Based Best Practice Guidelines: Cardiac Rehabilitation. (NZCC, 2002-08-01) www.nzcc.org.nz

Resources
- NGC Practice Guidelines
- Read More


Resources
- NGC Practice Guidelines
- Read More
Abundance of related EBM articles in addition to Reference

In “Related Evidence,” scroll down to the “Drug Treatment” section under the “POEMS” heading.

Daily POEMS articulate EBM resources with relevant clinical questions.
Create a PICO Question

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The End