Taubman Health Sciences Library

The library at the point of care:

Integrated resources and instruction in the third-year medical school curriculum

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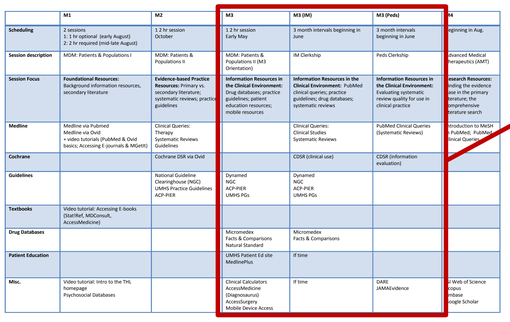


	M1	M2	M3	M3 (IM)	M3 (Peds)	M4
Scheduling	2 sessions 1: 1 hr optional (early August) 2: 2 hr required (mid-late August)	1.2 hr session October	1.2 hr session Early May	3 month intervals beginning in June	3 month intervals beginning in June	beginning in Aug.
Session description	MDM: Patients & Populations I	MDM: Patients & Populations II	MDM: Patients & Populations II (M3 Orientation)	IM Clerkship	Peds Clerkship	dvanced Medical herapeutics (AMT)
Session Focus	**Foundational Resources:** Background information resources, secondary literature	**Evidence-based Practice Resources:** Primary vs. secondary literature; systematic reviews; practice guidelines	**Information Resources in the Clinical Environment:** Drug databases; practice guidelines; patient education resources; mobile resources	**Information Resources in the Clinical Environment:** PubMed clinical queries; practice guidelines; drug databases; systematic reviews	**Information Resources in the Clinical Environment:** Evaluating systematic review quality for use in clinical practice	**esearch Resources:** olving the evidence ase in the primary iterature; the omprehensive iterature search
Medline	Medline via Pubmed Medline via Ovid + video tutorials (PubMed & Ovid basics; Accessing E-journals & MGetIt)	Clinical Queries: Therapy Systematic Reviews Guidelines		Clinical Queries: Clinical Studies Systematic Reviews	PubMed Clinical Queries (Systematic Reviews)	ntroduction to MeSH PubMed; PubMed linical Queries
Cochrane		Cochrane DSR via Ovid		CDSR (clinical use)	CDSR (information evaluation)	
Guidelines		National Guideline Clearinghouse (NGC) UMHS Practice Guidelines ACP-PIER	Dynamed NGC ACP-PIER UMHS PGs	Dynamed NGC ACP-PIER UMHS PGs		
Textbooks	Video tutorial: Accessing E-books (StatRef, MDConsult, AccessMedicine)					
Drug Databases			Micromedex Facts & Comparisons Natural Standard	Micromedex Facts & Comparisons		
Patient Education			UMHS Patient Ed site MedlinePlus	If time		
Misc.	Video tutorial: Intro to the THL homepage Psychosocial Databases		Clinical Calculators AccessMedicine (Diagnosaurus) AccessSurgery Mobile Device Access	If time	DARE JAMAEvidence	Web of Science opus ebsoe oogle Scholar

[1]

Current M3 Involvement

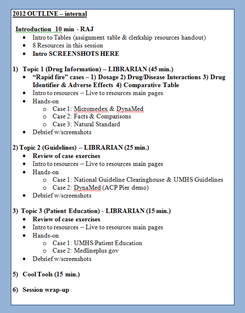
- 3 Curriculum-integrated information resources sessions
- LibGuide supplemental content
- CMS-integrated library page

One of the most pressing challenges clinicians face is effectively and appropriately utilizing online information resources at the point of care. The third year medical school curriculum is a prime place to teach tomorrow's physicians to incorporate library resources into their workflow as they begin their clinical clerkship rotations. This poster is an overview of the ways librarians integrate instruction and online resources into third-year medical student clerkship experiences within a large academic health system. Methods include: hands-on instruction during pre-clerkship orientation, targeted hands-on instruction co-taught with clinical faculty during two different clerkship rotations, and utilization of the medical school's online course management system to supply targeted point of care resources and relevant online instruction to designated clerkship rotations.

M3 Orientation

Orientation to PoC Resources

Taubman Health Sciences librarians have been involved in third year medical student orientation sessions for over a decade. Orientation to the wards takes place in early May, and marks a "tipping point" for students and their relationship to information resources. Students begin their clinical rotations and need rapid access to high quality information for medical decision making at the point of care. This two hour hands-on session is co-taught with a faculty physician and is arranged in a rapid-fire case-based format to simulate the clinical environment. Students are also briefly introduced to available mobile resources and the library's mobile resources guide.



2012 OUTLINE – internal

Introduction_10 min - RAJ

- Intro to Tables (assignment table & clerkship resources handout)
- 8 Resources in this session
- **Intro SCREENSHOTS HERE**

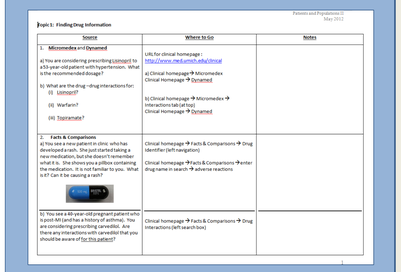
1) Topic 1 (Drug Information) – LIBRARIAN (45 min.)
- **"Rapid fire" cases – 1) Dosage 2) Drug/Disease Interactions 3) Drug Identifier & Adverse Effects 4) Comparative Table**
- Intro to resources – Live to resources main pages
- Hands-on
  - Case 1: Micromedex & DynaMed
  - Case 2: Facts & Comparisons
  - Case 3: Natural Standard
- Debriefw/screenshots

2) Topic 2 (Guidelines) – LIBRARIAN (25 min.)
- **Review of case exercises**
- Intro to resources – Live to resources main pages
- Hands-on
  - Case 1: National Guideline Clearinghouse & UMHS Guidelines
  - Case 2: DynaMed (ACP Pier demo)
- Debriefw/screenshots

3) Topic 3 (Patient Education) - LIBRARIAN (15 min.)
- **Review of case exercises**
- Intro to resources – Live to resources main pages
- Hands-on
  - Case 1: UMHS Patient Education
  - Case 2: MedlinePlus.gov
- Debriefw/screenshots

5) **Cool Tools (15 min.)**

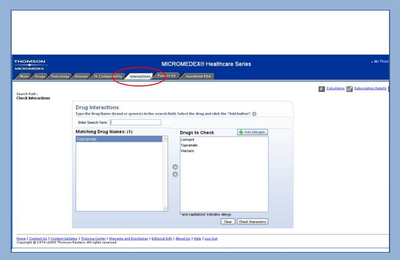
6) **Session wrap-up**



Patients and Populations © May 2012

Topic 1: Finding Drug Information

Source	Where to Go	Notes
1. **Micromedex** and **Dynamed** a) You are a cardiology resident and you are consulting on a 56-year-old patient with hypertension. What is the recommended dosage? b) What are the drug –drug interactions for: (1) Lisinopril (2) Warfarin? (3) Topiramate?	URL for clinical homepage : http://www.med.umich.edu/clinical a) Clinical homepage → Micromedex Clinical Homepage → Dynamed b) Clinical homepage → Micromedex → Interactions tab (at top) Clinical Homepage → Dynamed	
2. **Facts & Comparisons** a) You see a new patient in clinic who has developed a rash. She just started taking a new medication, but she doesn't remember what it is. She shows you a pillbox containing the medication. It looks familiar to you. What is it? Can it be causing a rash? b) You see a 40-year-old pregnant patient who is post-MI (and has a history of asthma). You are considering prescribing carvedilol. Are there any interactions with carvedilol that you should be aware of for this patient?	Clinical homepage → Facts & Comparisons → Drug Identifier (left navigation) Clinical homepage → Facts & Comparisons → Enter drug name in search → adverse reactions Clinical homepage → Facts & Comparisons → Drug Interactions (left search box)	



Online Resources to Know for M3 Clerkship Rotations	
Internal Medicine	AccessMedicine Dynamed | ACP PIER | UpToDate
Surgery	AccessSurgery (includes Schwartz's Principles of Surgery) Surgery Clerkship Guide
Pediatrics	Red Book Online Aunts&Uncles (1 concurrent user limit; includes Rudolph's Pediatrics) Pediatric Care Online
Obstetrics/Gynecology	Williams Obstetrics Williams Gynecology UpToDate
Neurology	Adams & Victor's Principles of Neurology Clinical Neurology
Psychiatry	PsychiatryOnline (includes DSM-IV TR)
Family Medicine	Textbook of Family Medicine (McWhinney & Freeman) Textbook of Family Medicine (Rakel) Current Diagnosis & Treatment in Family Medicine

Need help with resources? Contact your librarian!

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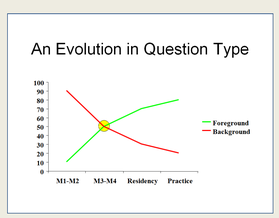
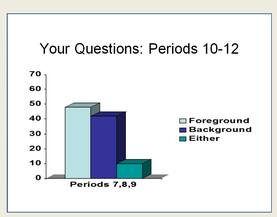
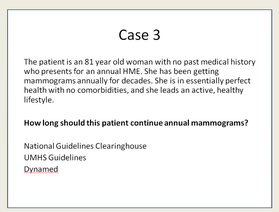
Internal Medicine Clerkship

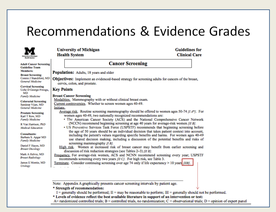
Real-Case/Real-Time EBM

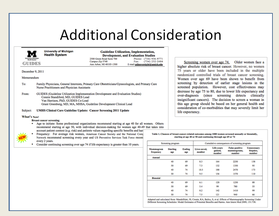
The third-year Internal Medicine Clerkship session requires students to submit a challenging clinical question they encountered recently during the rotation. The instructors review the student-submitted questions and identify four that best illustrate the tools and features of four major categories of resources: primary literature, systematic reviews, practice guidelines, and drug databases. For each of the four clinical questions selected, the students are directed to two resources and given five minutes to answer the question. The faculty instructor leads a discussion about the clinical significance of their findings. Finally, a librarian walks the students through each resource, again highlighting key features and functionalities. [1]

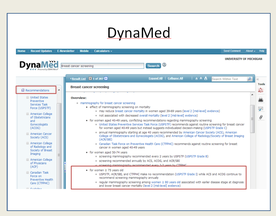








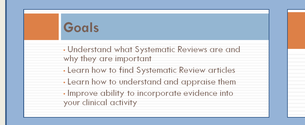


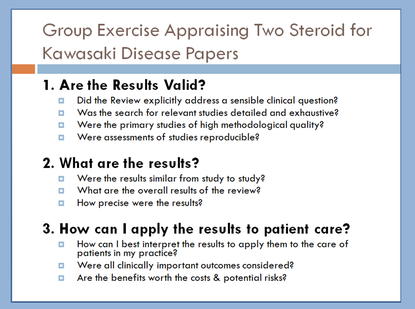


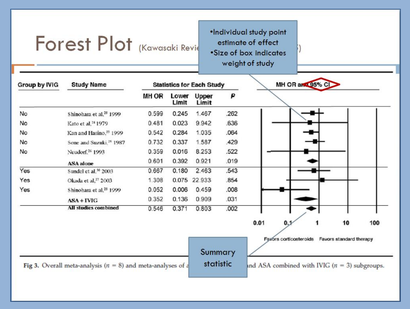
Pediatrics Clerkship

Systematic Reviews at the PoC

In contrast to the frenetic pace of the Internal Medicine Clerkship session, the third-year Pediatrics Clerkship session focuses less on finding and more on evaluating information and integrating that information into clinical practice. During the session, students are given a PICO question and asked to search for a relevant systematic review using PubMed's Clinical Queries. Once a relevant review is identified, they are asked to use the DARE (Database of Abstracts of Reviews of Effects) review structure to evaluate it, and then report their conclusions to the class. This session is held during the 12-week Pediatrics rotation. [1]



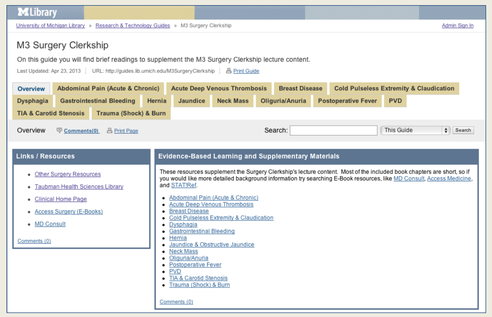


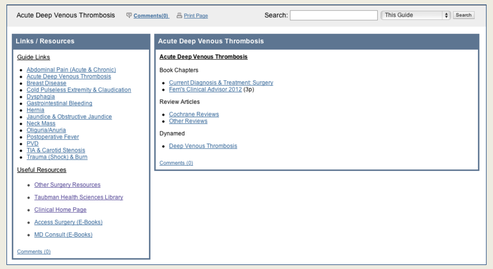


Surgery Clerkship

Online Surgical Resources

In late 2011, an author (WT) attended a Clerkship director meeting to discuss how the library supports clerkship rotations. After the session the surgery clerkship director expressed interest in developing a website of supplemental readings for that rotation's lecture content. The director and the surgery librarian (MPM) met to discuss E-Book content and website platforms. ultimately deciding on a Libguide comprised of short E-Book chapters, review articles, and Dynamed entries. The Libguide was instituted as a pilot in September 2012 (http://guides.lib.umich.edu/M3SurgeryClerkship).





[1] MacEachern, M., **Townsend, W.**, Young, K., & Rana, G. (2012). Librarian integration in a four-year medical school curriculum: a timeline. *Medical Reference Services Quarterly*, *31*(1), 105-114. doi:10.1080/02763869.2012.641856