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The Art and Science of Searching and Managing the Medical Literature

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Art & Science of Searching the Medical Literature Perspectives in Medicine Spring 2013

Instructors: Sarah Knox Morley and Ingrid Claire Hendrix

Session One – Identifying Information & Selecting the Right Resource (part 1)

Upon completion, the student will be able to:

Objective 1 – Differentiate between background and foreground questions
Objective 2 – Evaluate information resources
Objective 3 – List resources available through mobile devices

1. Introductions and elective goals (30 min)
2. Overview of types of questions Background/Foreground (10 min) (remind them e-books)
3. Resources for specific questions / Mobile devices (hands-on – 20 min; discussion – 30 min)
   a. Access Medicine
   b. ACP Pier
   c. MDConsult
   d. VisualDX

Session Two – Identifying Information & Selecting the Right Resource (part 2)

Upon completion, the student will be able to:

Objective 1 – Evaluate information resources
Objective 2 – Describe search functionality, pros and cons of targeted resources

1. Physical Assessment Tools (20 min) *hit the highlights & then let them explore
   a. Bates Guide to Physical Examination
   b. Geriatric Assessment
   c. NEJM Clinical Videos
   d. NeuroExam
   e. Practical Clinical Skills
   f. Stanford Medicine 25
2. Drug Information Resources (45 min) *hands-on scenario & discussion
   a. *Access Pharmacy*
   b. *Lexicomp*
   c. *Natural Standard*M
   d. NLM Drug Portal
   e. International Pharmaceutical Abstracts (IPA)
   f. AHFS Drug Information (AHFS DI)

3. Patient Education (15 min)
   a. MedlinePlus
   b. AMA video snippet (if time allows)
   c. UNM Hospital Health Information/Education > Health Sheets

4. Muddiest Point

Session Three – Developing and Answering the Clinical Question

Upon completion, the student will be able to:

Objective 1 – Demonstrate the ability to search the Cochrane Database
Objective 2 – Construct a clinical question using the PICO method
Objective 3 – Create search strategies using PubMed

1. Overview of targeted resources (Hands-on activity) (30 min – 10 min hands-on; 20 minutes report by 1 pair per resource)
   a. Cochrane
   b. DynaMed M
   c. UpToDate
2. Formulate a research/clinical question (Hands-on activity) (10 minutes)
3. Search the medical literature in PubMed (Hands-on Activity) (50 min)
   (15 minutes hands-on; 35 minutes is class participation and Instructors demo search techniques and advanced features)

4. Muddiest Point

Session Four – Forming a Clinical Question and Searching the Primary Literature

Upon completion, the student will be able to:

Objective 1 – Create search strategies using 3 different databases

1. Practice formulating a research/clinical question from a scenario (Hands-on activity) (10 min)
2. Search the medical literature (Hands-on Activity) (Stroke scenario)
   a. Pubmed &PubMed Clinical Queries (40 min)
   b. PsycInfo (20 min)
   c. Web of Science (15 min)
Session Five – Managing Your Information

Upon completion, the student will be able to:

Objective 1 – Organize citations for future use
Objective 2 - Create a bibliography using RefWorks (Hands-on activity)

1. Overview RefWorks features (10 min)
2. Create RefWorks account (5 min)
3. Search PubMed/PsycInfo and import references to RefWorks (Hands-on Activity) (1 hour)
4. Create a bibliography using RefWorks (Hands-on activity) (10 min)
5. MyNCBI account creation - Handout
6. Creating a poster - Handout