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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 **M**
 - b. ACP Pier **M**
 - c. MDConsult **M**
 - 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*
 - 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)

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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