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The Art and Science of Searching and Managing the Medical Literature

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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*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