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ACCESSING ELECTRONIC MEDICAL INFORMATION QUICKLY: A REVIEW

http://www.med.fsu.edu/informatics

Objectives

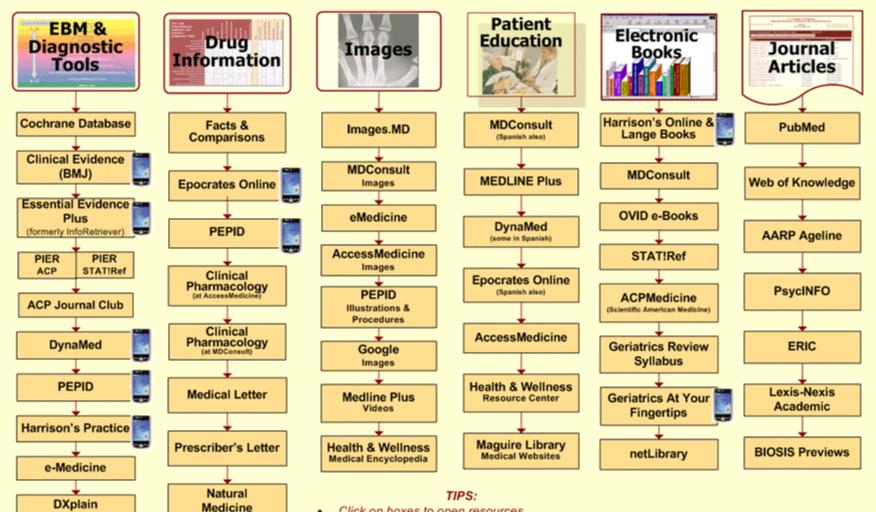
Students will improve their ability to

- Quickly locate current disease information
- Answer clinical questions in small group cases, preceptors
- Using library subscription resources
- Using their PDA
- Using reliable, free resources

PPT and Handouts

- Accessing Medical Information Quickly (PPT) on Informatics web site under Medical References
- Finding Clinical Information Quickly Handout
- Decision Support Handout
- Drug References Handout (on BB)

FIND MEDICAL INFORMATION (START HERE)



SEARCH MULTIPLE COM RESOURCES

WebFeat Meta Search Engine •

- Click on boxes to open resources.
- When off campus, authenticate with EZProxy.
- Find out more about these resources.
- Tutorials on using these resources.



ndicates availability of PDA download.

- Maguire Medical Library
 - College of Medicine
- Florida State University

Page revised: April 2008

When to Use Which Resource?

- Diagnosis versus list of complaints/symptoms
- Zebras versus common problems
- Detailed information/explanations versus bottom line
- Lots of time versus short on time
- Internet connection versus PDA only

Types of Clinical Questions

- - Definition of a term (Stedman's in PEPID, eMedicine)
- Drug question
- - DDX (DxPlain and Epocrates Sx)
 - Question about a known disease or condition
 - Lab test question



Types of Disease Questions

• BACKGROUND Questions:

- Description
- Cause/etiology
- Incidence and prevalence/Epidemiology
- ICD-9 codes
- Risk Factors
- Signs and Symptoms
- Associated Conditions
- History and physical

Types of Disease Questions

- Types of Questions that require current information:
 - Diagnosis
 - Treatment
 - Surgery, medications, therapy, diet....
 - Initial versus ongoing management (follow-up)
 - Harm of certain treatments
 - Prognosis
 - Outcomes or course of the disease
 - Prevention and screening

Knowing type of question makes using resources more efficient

Bottom line

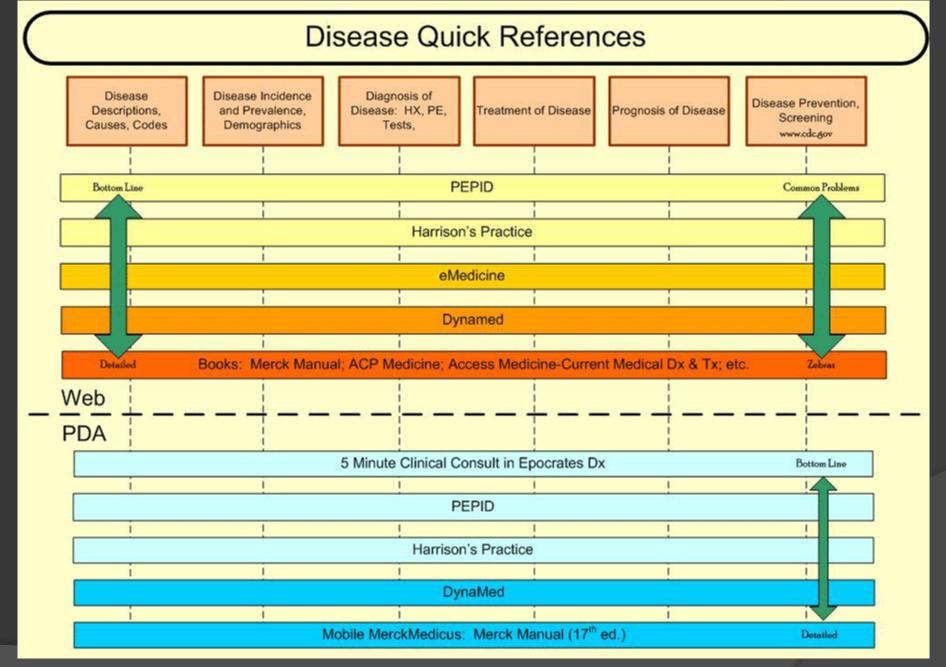
Disease Quick References WEB PDA

- ACP PIER
- DynaMed
- eMedicine
 - Harrison's Practice
 - PEPID

- DynaMed
- Epocrates Dx 5MCC
 - Harrison's Practice*
 - PEPID

How do the resources differ?

- Interface issues
 - Ease of use, organization of subtopics...
- Scope of content # diseases, symptoms
- Depth of Content
 - Bulleted lists versus lengthy commentary
 - Links out to original research articles
- Currency of content
- Specialty perspective



PEPID

- Contains disease information with images (check out Diverticular Disease)
- Bottom line bulleted lists
- Very little background information geared to 3rd year students or higher
- Links within to drugs, diagnostic tests, associated conditions, evidence based summaries
- On Web and PDA

Harrison's Practice

- Internal Medicine focus
- Background information
- Signs and symptoms as well as diagnoses
- Moderate depth, scope is growing
- Linked to Access Medicine content
- Has drug information from GoldStandard
- Can be downloaded to PDA

eMedicine

- Moderate amount of detail and information
- Several monographs on one topic by different specialties
- One long page (CTRL-F)
- Background information good
- Stedman's is built in
- Navigation variable between monographs
- Google searches it

Dynamed

- Highly evidence based resource
- Contains signs and symptoms as well as diagnosis
- Very in-depth, thorough
- Background information as well
- On PDA as well

Epocrates Dx on PDA

- 5 Minute Clinical Consult
- Content depth light
- Bottom line resource with background
- No signs or symptoms
- Popular- updated annually
- Scope: 800 diseases

Compare Resources

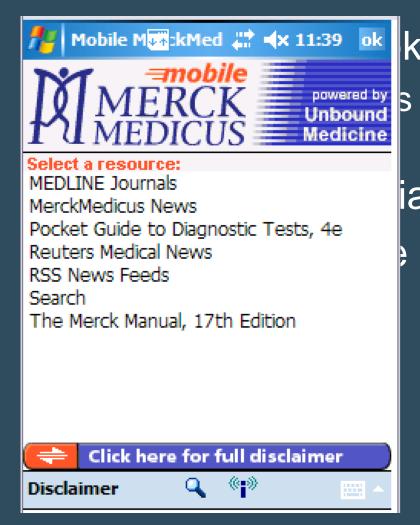
- Background: What is the incidence and prevalence of acute pancreatitis?
- Diagnosis: What tests should you order with Gilberts Disease to confirm diagnosis?
- Treatment: What are the general treatment methods for acute otitis media (AOM)?
- Prognosis: What is the 5 year survival rate for someone with Stage II adenocarcinoma of the lung?

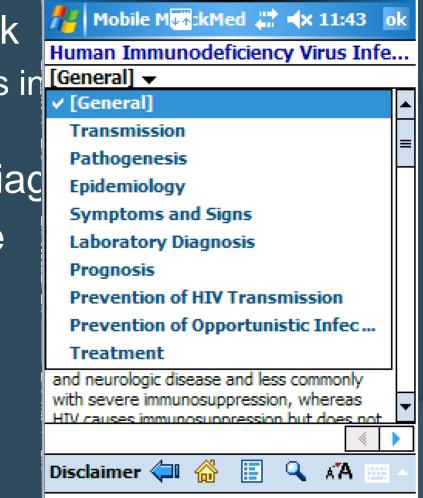
Books

- Merck Manual available online and free on PDA in Mobile MerckMedicus
 - Access wirelessly on IE: Merck Manual, Harrison's Practice, Pocket Guide to Diagnostic Tests, Reuter's Medical News
 - Free to all practicing physicians and medical students
- ACPMedicine Scientific American Medicine online

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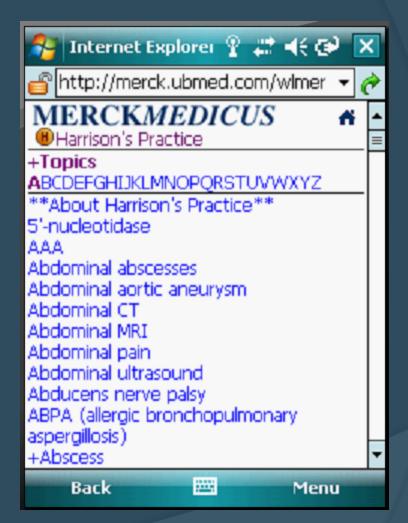
Mobile Merck Medicus





Mobile Merck Medicus





LAB RESOURCES

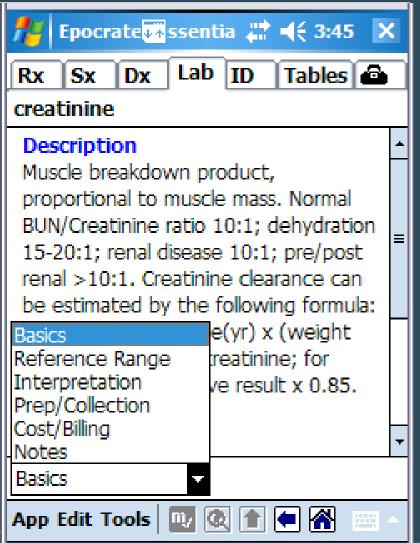
LAB Resources

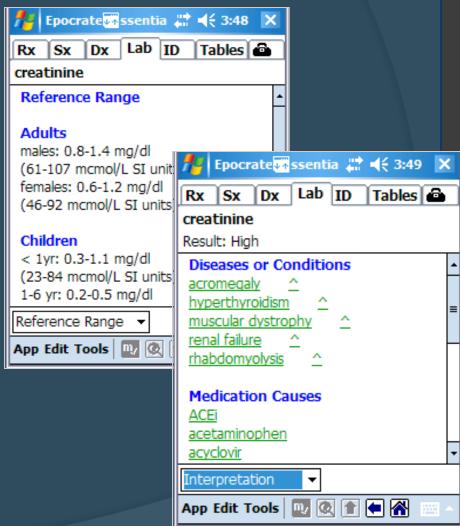
- Epocrates Essentials Labs PDA
 - Laboratory tests only
- PEPID Lab Manual online and PDA
- Pocket Guide to Diagnostic Tests
 - Laboratory, imaging, and microbiology tests
 - Online at Access Medicine and MerckMedicus
 - PDA in Mobile MerckMedicus

Interpretation of diagnostic tests

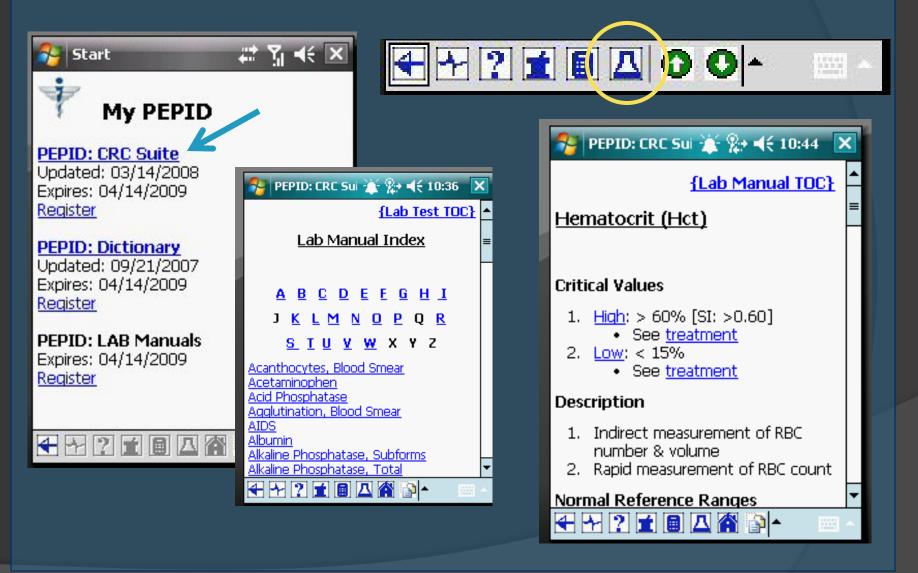
- What are normal lab values?
- What diseases could cause these findings?
- What medications could cause these findings?

Epocrates Labs





PEPID Lab Manual



Lab tab in Access Medicine

- Contains
 - Diagnostic imaging
 - Cultures
 - laboratory

Lab Questions

- 1. A basic metabolic panel reveals that a 30 year old man suffering from bipolar disorder has a serum calcium level of 10.9 mg/dL. Is this normal, high or low?
- 2. A 32 Yr old female patient complaining of fatigue and weight gain is evaluated for hypothyroidism. Her TSH (thyroid stimulating hormone) comes back 0.1 mIU/L. Is this high, low or normal?

Bottom Line

- Pick your favorites that match your taste in depth of information
- Learn which resource to use to answer certain types of questions.
- Resources should be current, accurate, evidence based, respected.
- Resources should be easy to use.
- Practice... this is lifelong learning

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