Spring 2010

Biofeedback - Spring 2010

Biomedical Library Staff

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Notes from the Director ...

A 2008 report by the Pew Internet & American Life Project predicts that by the year 2020, the majority of people world-wide will be using a mobile device as their primary means for connecting to the Internet. Mobile devices are becoming increasingly sophisticated. SmartPhones, iPhones and Androids allow users to communicate, search the Internet and manage documents. 3G networks and wifi make Internet access much faster with these devices. Third party applications extend the usefulness of the devices. Applications are being developed for educational purposes, with the ability to listen to lectures via podcasts and/or view videos of procedures. Mobile devices allow users to access information in various locations including the bedside. Readily accessible, quality information can improve patient care and increase the health care professional’s knowledge.

The Biomedical Library (BL) has been offering reference service via text for several months. Many of the BL’s electronic resources either have mobile access or an interface that has been optimized for mobile devices. In this issue of Biofeedback, those resources will be highlighted. In addition, the BL has developed a mobile web page devoted to mobile technologies. This page will be updated as more applications and access becomes available.

Judy Buncham
Director

The National Library of Medicine Develops Mobile MedlinePlus

The National Library of Medicine (NLM) has recently developed a mobile version of MedlinePlus. Users can now access the information resources of MedlinePlus anytime, anywhere. NLM has also created an FAQ that includes set-up instructions for Blackberry user.
New mobile website

by Andrea Wright

Use the mobile site to call, email, text, chat, or map a visit to a reference librarian.

The Biomedical Library has a new website optimized for mobile devices available at
http://bi.southalabama.edu/m.

The mobile website includes information about our locations and hours and features links to library resources optimized for small screens.

One can also use the mobile site to call, email, text, chat, or map a visit to a reference librarian, or to read the library’s news blog. While the site was designed with touch screen devices in mind, it has been tested and can easily be used on most phones with internet capabilities. If you have any questions about or suggestions for the Biomedical Library’s mobile website, please contact Technology Librarian Andrea Wright at awright@bbl.usouthal.edu or (251) 461-1424.
Applications for mobile devices are offered free by the National Library of Medicine

The National Library of Medicine (NLM) has several applications for mobile devices such as Palm Powered and Pocket PC devices (Figure 1) available at http://www.nlm.nih.gov/mobile/.


There are five different ways to search in PubMed for Handhelds: a search using PICO components (Figure 2), a natural language search, a term search that can utilize clinical queries, a journal browser search, and a disease association search.

Another mobile application provided by NLM is AIDSinfo, where users can access HIV/AIDS federally-approved medical guidelines by downloading them in PDF format to use as a on-the-go reference tool. Also available is the Radiation Event Medical Management (REMM) application (Figure 3), which provides guidance on diagnosis and treatment for healthcare providers during radiation events.

The NCBI Bookshelf (Figure 4) is a mobile application that will allow users to download NCBI books. Titles that are currently available for download are Blood Groups and Red Cell Antigens, Clinical Methods, Genes and Disease, Health Services/Technology Assessment Text (HSTAT), Inflammatory Atherosclerosis: Characteristics of the Injured Agent, and Medical Microbiology.
New Books Now Available

Location in brackets following the call number. [B] Baugh Biomedical Library (Carpus)
[CW] Childen's & Women's Library [HIRC] Health and Information Resource Center (formerly Medical Center Library) [Ref] Reference collection at indicated site. SOUTHCar catalog online access here.

WS 18.2 L164 2005 [B]
Exploring medical language: a student-directed approach / Myrna LaFleur Brooks.

WS 20.5 G335w 2006 [B]
Writing the NIH grant proposal: a step-by-step guide / William Gerin.

W 21 P9643 2006 [HIRC]
Professionalism in medicine: critical perspectives / Delese Ware, Julie M. Ashman, editors.

W 21 P9645 2010 [HIRC]
Professionalism in medicine: a case-based guide for medical students / John Spandorfer ... [et al.], editors.

W 21.5 P5775 2008 [B]
Physician assistant: a guide to clinical practice / Ruth Ballweg ... [et al.], editors.

W 26.5 F316h 2006 [B]
Health care informatics: a skills-based resource / Bill G. Fekely, Brent L. Fox, and Margaret R. Thower.

W 26.5 H1251h 2006 [HIRC]
Healthcare informatics / C. William Hanson III.

W 26.55.C7 P719e 2009 [HIRC]
Evidence-based medicine for PAs: a guide for practice / Allan F. Platt.

WA 17 A8817 2010 [HIRC]
The ethics of emergency medicine / Kevin J. Knoop ... [et al.], editors.

WA 30 A5126a 2007 [B]
ANA-ASA principles of environmental health for nursing practice with implementation strategies / American Nurses Association.

WB 18.4 R75 2005 [HIRC]
Residents as teachers: a guide to educational practice / Neal Whitman, Thomas L. Schwenk.

WB 102.Z99 2009 [HIRC]
The 5-minute Clinical Consult 2010 / Lippincott Williams & Wilkins.

WB 111.M67 2006 [HIRC]

WB 205.M894 2006 [B]
Methyl's guide to physical examination / Henry M. Seidell ... [et al.], editors.

WB 310.S783 2006 [HIRC]
Turn of life / Quint Studer.

WC 250.G656 2008 [HIRC]
MRI: and stereotopic operations / by Herman R. Chang.

WE NERVOUS SYSTEM

WM PSYCHIATRY
WM 34.M414 2010 [B]
The Massachusetts General Hospital/McKim Hospital residency handbook of psychiatry / James Nichols, Robert Rosenquist ... [et al.], editors.

WM 100.K173 2009 [HIRC]
Kaplan & Sadock's comprehensive textbook of psychiatry / editors, Benjamin J. Sadock, Virginia A. Sadock, Pedro Ruiz.

WM 270.A35614 2007 [CW]
Alcohol, drugs and young people: clinical approaches / Edith Galvin and Paul McCartney, editors.

WO SURGERY
WO 178.C64 2008 [B]
Clinician's guide to surgical care / John P. Poyor, editor.

A supplement to new frontiers in geriatric research: an agenda for surgery and related medical specialties / Joseph LoCicero III ... [et al.], editors.

WS PEDIATRICS
WS 39.F73125 2009 [HIRC]
Pediatric emergency medicine / Gary R. Strange ... [et al.], editors.

WS 100.G668 2006 [CW]
Management of disorders of bladder and bowel control in childhood / Alexander von Goosen, Trygge.
New Books, continued

WS 342 H819o 2007 [CW]
Orthopaedic management in cerebral palsy / Helen M. Horstmann and Eugene E. Bleck.

WS 350.8.AB P419 2007 [CW]
People with hyperactivity: understanding and managing their problems / Eric Taylor, editor.

WY NURSING

WY 813453 2008 [B]

WY 85 C946f 2008 [B]

WY 85 N9742 2008 [B]
Nursing and healthcare ethics: a legacy and a union / Winifred J. Elenbrook Pinch, Amy M. Haddad, editors.

WY 87 H434f 2005 [B]

WY 87 S666f 2008 [B]
Family community nursing: developing a quality practice / Carol J. Smocke with Linda Weinberg, contributing author.

WY 100 1772 2007 [B]
Transforming nursing data into quality care: profiles of quality improvement in U.S. healthcare facilities / Luis Montalvo and Nancy Dunton, editors.

WY 101 A512L 2006 [B]

WY 101 S741 2008 [B]
Specialization and credentialing in nursing revisited: understanding the issues, advancing the profession / margaret Madden Styles ... [et al.], editors.

WY 105 N97419 2009 [B]

WY 113 S3726 2005 [B]
School nursing: scope and standards of practice / National Association of School Nurses.

WY 115 A512zm 2008 [B]

WY 152 H828h 2007 [B]

WY 152.5 C2679 2008 [B]

WY 159 N9765p 2008 [B]

WY 160 P974 2007 [B]

WY 161 I61 2009 [B]

WY 170 I61f 2009 [B]
Forensic nursing: scope and standards of practice / International Association of Forensic Nurses.

WZ HISTORY OF MEDICINE

WZ 345 P976 2010 [B]

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Faculty Publications

Listed are journal publications by USA faculty indexed in MEDLINE, CINAHL, and Web of Science for August through December, 2009. Department chairs are asked to submit citations of recent publications by their department members. If you want to know about the literature, please notify the editor so it can be included in a future listing. New faculty are encouraged to submit their latest publications to the editor (krosaini@bbl.usouthal.edu).


Moor R. Furniture in the test booth: less is more. Audiology Online 2009:1p.


Op’t Holt TB. E-mail communication in a smoking-cessation program. Respir Care 2009;54(8):1024-5.


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Rutecki GW. Top papers of the month: Articles you don’t want to miss. I’m leaving on a jet plane... When will I be able to sleep again? Consultant 2009;49(9):514.


DynaMed Calculators

DynaMed, an evidence-based, point-of-care decision support tool, has recently added over 500 clinical calculators designed to aid health care practitioners in all aspects of clinical decision-making, from forming a diagnosis [or prognosis] to estimating a patient's particular risk of disease. All of these resources are designed to help clinicians choose diagnostic tests and then interpret the results of these tests.

To access DynaMed Calculators, go to the homepage of the Biomedical Library and click on "Database List." Next, click on the link entitled "DynaMed." When the DynaMed search page opens, click on the "Calculators" link on the top right corner. When the main search page of DynaMed Calculators opens, note that the left sidebar is divided into ten hyperlinked sections, as follows:

1. Medical Equations
2. Clinical Criteria
3. Decision Trees
4. Statistics Calculators
5. Units & Dose Converters
6. Search by Specialty
7. Math Calculator
8. Glossary
9. References
10. Send Comments to Editor

Clicking on any of the first seven section results in the opening of a new page, which is further subdivided. For example, the first category, "Medical Equations," is subdivided alphabetically into two hundred and fifty three [253] equations, from "A-a Gradient" to "Z Score to Percentile Estimation." As an illustration, the "A-a Gradient" medical equation window is reproduced above:

The second category, "Clinical Criteria," is subdivided alphabetically into two hundred and eighteen [218] criteria, from "Acetaminophen (Paracetamol) Toxicity Assessment" to "Waterlow Scale for Stratification of Pressure Sore Risk." As an illustration, the "Acetaminophen (Paracetamol) Toxicity Assessment" window appears at the right:


The fifth category "Unit and Dose Converters" contains twenty-nine [29] converters, from "Area Unit Conversions" to "Weight Unit Conversions." To demonstrate, the "Weight Unit Conversion" tool calculated "1718 drums (avoirdupois)" as being equivalent to "9.1 pond (Russian)," while the "Area Unit Conversion" tool calculated 40 square centimeters as being equivalent to 4000 square millimeters.

The "Search by Specialty" category allows the user to search by thirty-one [31] medical condition/disciplines across all other categories of calculators. To illustrate, clicking on "Hematology" allows the user to search all subcategories related to Hematology in Medical Equations [Category 1] or Clinical Criteria [Category 2].
EPOCRATES RX: Free mobile drug reference

Epocrates Rx is a free comprehensive handheld drug guide for Palm, Windows Mobile, iPhone, and BlackBerry (Android compatibility is promised soon). It includes monographs for more than 3,000 drugs and is updated at least once a week.

Epocrates Rx for Windows Mobile Smartphone instantly accesses drug prescribing and safety information for more than 3,300 brand and generic drugs. Search for a drug by name or class; then you can review:

- Adult and pediatric dosing for FDA-approved and off-label indications.
- Black box warnings; contraindications, and cautions;
- Serious and common adverse reactions, and drug interactions organized by clinical category;
- Approximate retail drug pricing for patients paying out-of-pocket;
- Safety and monitoring information, such as pregnancy risk categories, lactation safety ratings, monitoring parameters and therapeutic drug levels;
- Manufacturing information including DEA/FDA status;
- Pharmacology information, including metabolism, excretion, drug class, and mechanism of action; and,
- Notes section for your personal notes.

The powerful MultiCheck feature enables you to check for interactions among up to 30 drugs at a time. Potential interactions are organized by category to help you determine the appropriate action.

Epocrates Rx contains up-to-date, detailed formulary information for national and regional healthcare insurance formularies, including all Medicare Part D plans, and provides easy access to therapeutic alternatives. Select and download the insurance formularies you use most often. Quickly check to see which drugs are covered. Find plan-specific details on: Copay tiers; Prior authorization requirements; Quantity limits; Step-therapy guidelines; and Search for preferred therapeutic alternatives.

Win Mobile edition includes additional references and tools to help you every day. These include: MedMath - dozens of useful medical calculators, including STAT Cholesterol, BMI & Obesity, and Opioid Analgesic Converter; Association guidelines and reference tables; and Optional add-ons to suit your needs.

For more information about free Epocrates Rx go to: 
http://www.epocrates.com/product/rx/
search for and download Skyscape to an iPhone or iPod Touch from the App Store. Contact the Biomedical Library at medlib@bbl.usouthal.edu or (251) 460-7044 to ask for a DynaMed Serial Number. (You must be affiliated with the University of South Alabama to use DynaMed.) In the Skyscape app, choose the “Tools” menu, then “Install Resource.” Enter the number you were given into the “Skyscape Serial Number” field. Then click “Continue.” Skyscape will download DynaMed data, and it will then be available from your home screen.

Skyscape also comes with several free medical resources built in. These include the Archimedes Medical Calculator, Outlines in Clinical Medicine, RxDrugs Dosing Companion, and MedAlert current awareness tool.

DynaMed is also available for Android and Blackberry phones, as well as some Palm, Windows Mobile, and Pocket PC devices. To use DynaMed on these devices, follow the directions for contacting the library for a serial number above. Then visit http://www.ebscohost.com/dynamed/technical.php and follow the link for your device for further instructions.

For more information about mobile device resources, contact Technology Librarian Andrea Wright at awright@bbl.usouthal.edu or (251) 461-1424.

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The Biomedical Library won the 2009 Distinguished Library Award from CONBLS (Consortium of Southern Biomedical Libraries) for their participation in the STARS and STRIPES enrichment programs managed through the University of South Alabama’s Center for Healthy Communities’ Center for Excellence.

Judy Burnham and the University of South Alabama College of Allied Health faculty Dennis Fell, Department of Physical Therapy; K. Adams and K. Greathouse, recent graduates of DPT program won first place in the research poster competition for their poster Comparing and Contrasting Physical Therapy-Related Articles from a Social Bookmarking Site to Library Database Terminology at the 2009 Annual Meeting of the Southern Chapter/Medical Library Association.

Geneva Stagg received a certificate awarding her a Level II Designation in the Consumer Health Information Specialization Program from the Medical Library Association.

Judy Burnham has received funding from the National Library of Medicine for her proposal Empowering Health Ministry Leaders, an outreach project which will collaborate with the University of South Alabama (USA) Center for Health Communities (CHC) to provide train-the-trainer session for Community Health Advocates and for targeted health ministry leaders in local urban African American churches in the 36617, 36610 and 36603 zip codes of Mobile County.

The project will also provide technology tools (laptops, printers, jump drives) and health check tools (and any needed training on those tools) for health ministry leaders to monitor the health of their congregations and to encourage members of congregation to develop a personal health record (PHR) using free Internet PHR tools. Other goals of the project are to provide technology and technology training for health ministry leaders so as to improve communication, to work with the USA CHC to develop a speakers’ bureau on health related topics, and to host health fairs for congregations.
Wisconsin Information System for Emergency Responders (WISER) is a system developed by the National Library of Medicine (NLM) designed to assist first responders in hazardous material incidents. WISER provides a wide range of information on hazardous substances, including substance identification support, physical characteristics, human health information, and containment and suppression advice. It is available via the web or can be downloaded to a computer or a Windows mobile device.

The substance identification module helps to identify an unknown chemical based on:
- Physical properties of the substance
- Signs/symptoms from exposure to the substance
- NFPA 704 full or partial placard values
- Substance categories (flammable, meth lab, etc.)
- Transport identification: DOT placard and/or type of rail car or road trailer.

WISER also includes a PMDR Response Guidebook, triage procedures for both adult and pediatric, and radiologic tools (dose estimator, radiation unit converter, emergency contacts, initial on-site activities, manual for first responders) and an Emergency Management Pocket Guide for Clinicians for radiologic terrorism.

When using via real-time, WISER will show protective distances for spilled substances overlaid on a map, based on wind direction.

WISER is a project of the Specialized Information Services Division (SIS) of the NLM.

WISER is available for download at [http://wiserr.nlm.nih.gov](http://wiserr.nlm.nih.gov). There is no charge to access WISER.

- Judy Burnham

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Test Prep Resources

*by* Robert Britton

**in our collection**

Did you know that your Biomedical Library offers both electronic and print test prep resources, including the renowned *Lange Case Files* series, *Exam Master*, the *First Aid* series (Cases for the USMLE Step 1, First Aid for the® USMLE Step 1 2009: A Student-to-Student Guide, and Q&A for the USMLE Step 1), anatomy quizzes in *Primal Pictures*, various surgery resources (First Aid for the® ABSITE, Schwartz's Principles of Surgery: Self-Assessment and Board Review, Surgery Board Review Tests from Access Surgery, and Surgery Review Illustrated®)

Cases within the *Case Files* series of books are designed to simulate a patient encounter with open-ended questions. Texts available electronically include *Case Files Anatomy, Case Files Emergency Medicine, Case Files Microbiology, Case Files Pathology, Case Files Pharmacology, Case Files Physiology, Case Files Neurology, Case Files Neonatology*.

When using *Exam Master* for the first time, you will be prompted to fill out a brief registration form, after which your username and password will immediately be emailed to you. *Exam Master* includes thousands of questions pertaining to USMLE Step 1, 2, and 3, medical subject review and certification review questions.

The *First Aid* series includes *First Aid for the USMLE Step 1 2009: A Student-to-Student Guide*, along with supplemental texts *Cases for the USMLE Step 1 and Q&A for the USMLE Step 1*. Together these offer a comprehensive preparation strategy for the USMLE including analysis of the test, study and test-taking strategies, revisions based on recent student testing experiences, over 1000 commonly tested facts and useful mnemonics, nearly 200 photos, and a list of hundreds of recommended examination books.

The Biomedical Library also provides via *AccessMedicine Harrison's Online Self-Assessment and Board Review*, which includes over 1,000 multiple-choice questions, answers, explanations, and references to *Harrison's Online, Williams Obstetrics Study Guide*, containing over 2,600 questions and answers, linked to *Williams Obstetrics* online for further study, and *Hurst's Imaging Tests*, featuring cases which present images and video for interpretation.

Anatomy review may be performed via "Product Quizzes" on *Primal Pictures* home page, and don't forget that *Lange's Case Files series* also contains an Anatomy component. Surgery resources include *Schwartz's Principles of Surgery: Self-Assessment and Board Review, Surgery Review Illustrated*, their accompanying *Surgery Board Review Tests from Access Surgery*, and USMLE Easy Lite. Note that the each of these also require you fill out a brief registration form.

We also offer *Davis's NCLEX-RN® Success*, which includes a 500 question pre-test with test-taking tips, and sections on management of care, infection control, biotechnology agents and associated syndromes, herbal medicines, complementary and alternative therapies, calculations and conversions in medication administration, a pediatric safety and injury prevention chart, and an updated CPR section.

Additional resources to help you prepare for the NCLEX-RN may be found in the Nursing portal of the Biomedical Library's website: [http://biomedicallibrary.southalabama.edu/library/?q=nursing](http://biomedicallibrary.southalabama.edu/library/?q=nursing)

Lastly, our print test review material consists of the following from Lange: *Case Files Biochemistry, Case Files Emergency Medicine, Case Files Family Medicine, Case Files Gross Anatomy, Case Files Internal Medicine, Case Files Neurology, Case Files Obstetrics and Gynecology, Case Files Pathology, Case Files Pediatrics, Case Files Pharmacology, Case Files Physiology, Case Files Psychiatry, Case Files Microbiology, Case Files Neuroscience, Case Files Surgery*.

A list of all our test preparatory material may be found here: [http://biomedicallibrary.southalabama.edu/library/?q=testbank](http://biomedicallibrary.southalabama.edu/library/?q=testbank)
The TRIP Database is a clinical search engine designed to allow clinicians to quickly find answers to their clinical questions using the best available evidence.

Begun in 1997 in South Wales, UK, TRIP searches the following categories of publications:

- Evidence Based Synopses
- Systematic Reviews
- Guidelines (from Australia, New Zealand, Canada, UK, USA)
- Core primary research
- E-Textbooks
- Patient information

The free resource can be searched using either a basic or advanced search. A list of search tips is available. You can register for a free TRIP account to keep track of your searching. There is not a special mobile interface, but TRIP has been optimized for the IPhone and also works with smart phones and Androids.

The Virtual Biomed - Fletcher Bowling

Just a few years ago the PDA was the king of portable applications and about the only way to keep your contacts, appointments and various other personal data with you at all times. These devices were handy but required being physically connected to a desktop computer to update data such as outlook contacts or calendar events. The original PDA soon gave way to smart phones which combined the cell phone with the PDA and offered the ability to keep your data up to date over a wireless network (phone or access point).

Though it was not the first on the market, the one smart phone that has caught everyone's eye and is probably the most popular is Apple's iPhone. The iPhone is Unix based and there are thousands of applications (~127,000) available via Apples online store, iTunes. One drawback with the IPhone is it is a closed system, and all new applications must be approved by Apple: users can only install the applications approved by Apple.

Last year, Apple blocked an application that allowed users to make free VoIP phone calls over the AT&T network. The VOIP application was produced by Google and rather than continue to have to deal with Apple's closed system, Google decided to build their own smart phone operating system called Android. The Android OS is built using parts of Linux so in a technical way it is similar to the IPhone, but that is where the similarity ends.

Google designed Android to be an open system where any company can use the OS for their own smart phone hardware without cost. Application developers are also given free reign to develop applications with almost none of the restrictions imposed on Apple developers. This open system should speed development of both phone hardware and applications.

Within about a year and a half since it's debut, Android has appeared on half a dozen new phones and released approximately 16,000 applications. Google has recently turned up the heat by releasing it's own phone, the Nexus One. While the Nexus One appears to be only incrementally superior to the IPhone, it's openness could be a big draw to end users. Unlike most traditional cell phones, the Nexus One can be purchased directly from Google without any contract and can be used on several different phone networks. Later models promise to work on more networks so end users can switch providers with ease if all goes according to plan. Whether Android knocks the IPhone off the smart cell phone throne or not, this competition between open and closed systems should offer more choices and be good for both hardware manufacturers and end users.
