

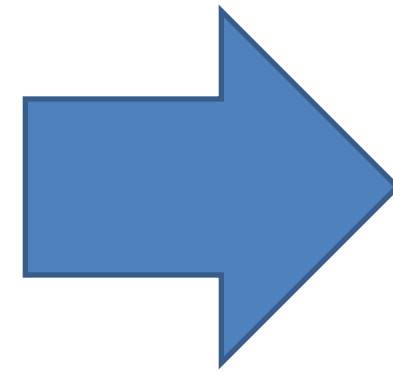
Implementing the Infobutton for the Library



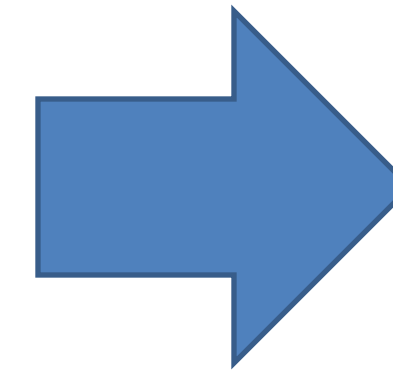
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The screenshot shows the OpenInfobutton configuration interface. It includes a list of resource profiles on the left, a main configuration area with fields for HL7 compliant, ID, Name, URL style, Description, Resource base URL, and URL static parameters. Below this is a 'Task*' section with a 'Search*' checkbox and a 'Matching domain enumeration' table with columns for Code and System. The table lists various HL7 codes and systems for different tasks like 'Diagnosis list review' and 'Medication list review'.



The screenshot shows the QuickSearch interface. It has a title 'QuickSearch Quick and Easy Search Across Evidence-Based Resources'. There are two main sections: 'Find Clinical Evidence' and 'Find Drug Information'. The 'Find Clinical Evidence' section has a search box for 'Patient Problem' (containing 'bell palsy') and 'Intervention' (containing 'acyclovir'). The 'Find Drug Information' section has a search box for 'Drug name'. At the bottom, there is a yellow button 'Is QuickSearch Helpful?' and the text 'Powered by OpenInfobutton'.



The screenshot shows the Duke University Medical Center Library website. The search bar contains 'bell palsy AND acyclovir'. The search results are displayed in a list format, including items like 'Bell's palsy: Prognosis and treatment in adults', 'Acyclovir: An overview', and 'Clinical manifestations and diagnosis of herpes simplex virus type 1 infection'. The website header includes the Duke University logo and navigation links like 'Catalog', 'All Journals', 'E-Journals', 'MEDLINE', 'Clinical Tools', and 'Ask a Librarian'.

Background

Infobutton is a content-specific link from one information system – such as an electronic health record – to some other resource (such as UpToDate, PubMed, etc.) that provides information relevant to the initial context.

- Uses an open source platform to foster wide adoption & innovation
- Duke's clinical IT department was interested, but wanted more information
- Library wanted:
 - Resources from the Library to be accessible in the electronic medical record
 - To simplify searching and resource selection for students
- No budget for creating federated search

Configuration

1. Select clinically relevant resources representing drug, point-of-care, textbooks, guidelines, patient education, and nursing
2. Use XML editor (Altova) to create XML-based knowledge resource profiles
 - Investigate URL parameters
 - Determine how granular the search could be in each resource (i.e., guidelines, books from MD Consult)
 - Send profiles to Utah server for hosting
3. Design search box - Library's Clinical Tools page
4. Design results page - Limitations: some resources require new window
5. Revise approach as discovered what was possible

Bottom line: Simplified our approach as we developed the tool

Next Steps

- Create instance of OpenInfobutton on Duke servers
- Use QuickSearch to demonstrate to IT the effectiveness of searching across Library resources
- Promote integration of OpenInfobutton into new electronic medical record system (Epic)
- Anticipate increasing complexity in EMR as we seek to connect resources with specific patient variables such as disease codes, age, and medications
- Re-evaluate resources for inclusion
- Wait for Infobutton LITE tool for easier resource configuration



More about [Open Infobutton](http://www.openinfobutton.org)
www.openinfobutton.org

See the Search engine
<http://www.mclibrary.duke.edu/tools/clinical/ClinSearch>

