Expanding Library iPad Instruction: Developing and Analyzing a Mobile Technology Curriculum for First Year Clinical Students

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Expanding Library iPad Instruction: Developing and Analyzing a Mobile Technology Curriculum for First Year Clinical Students

Michele L. Whitehead, Instruction Librarian

Setting

Objectives

Methods

Summary of Survey Results

<table>
<thead>
<tr>
<th>Question</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>Would like to know more about the regulation of medical apps?</td>
<td>You showed us several PubMed apps and how to use them. Is there one that is better than another?</td>
</tr>
<tr>
<td>Students perceived understanding significantly following the class with students indicating they “agree” or “strongly agree” with the statement on the post assessment about their knowledge from attending the course.</td>
<td></td>
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<tr>
<td>80% of attendees had previous experience with mobile technology. Among those, most (73%) have or currently use another Apple product.</td>
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<tr>
<td>More than half of the attendees had questions about the library that they would use the iPad to look up, including hours and class offerings.</td>
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Summary of Student Comments

<table>
<thead>
<tr>
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<th>Comments</th>
</tr>
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<tbody>
<tr>
<td>You showed us several PubMed apps and how to use them. Is there one that is better than another?</td>
<td></td>
</tr>
<tr>
<td>&quot;Couldn’t log on to wireless network.”</td>
<td></td>
</tr>
<tr>
<td>&quot;Very informative class!!! Will there be more like it later in the program?&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Curriculum Design Steps

1. Participated in Abilene Christian University’s Connected-Open House, April 5, 2012
2. Reviewed the ACU 2010-2011 Mobile-Learning Report
3. Collaborated with UNT's IT Department
4. Curriculum and Course Development

- Analysis of Lewis library mobile optimized resources for research and patient care
- Mobile technology and the training for library staff
- Division of course materials, including instructions for downloading relevant apps, into two distinct course modules: Lewis Library Research Resources and Point-of-Care Tools
- Surveys attempted to measure if there was:
  - An increase in familiarity with mobile technology
  - Understanding of information literacy concepts
  - Comprehension of search strategies
  - Awareness of library resources
  - An increase in familiarity with Lewis library’s website
  - Difficulty accessing the wireless student network
- Incorporation of information literacy, basics of database searching, and evaluating sources of information into course content

Course sessions included:
- A tour of the Lewis Library website
- Introduction of recommended mobile optimized resources and the Mobile Health Research Guide
- Inclusion of usage instructions for pain-of-care apps such as Dynamed and Micromedex

Limitations

- Small sample size: n=15 out of >350 incoming clinical students
- Low overall student participation: Non-mandatory class offerings
- Timing: These optional classes were held on two areas of focus were determined to fall under the needs of first year clinical students required to review and the curriculum plan developed to meet
- Course Development: At the time of this study, Lewis

Conclusions and Future Study

- "Efficiency is accessing medical information is critical and it is the role of library instruction to assist in this process (Lorincz, 2006). The emerging role of research libraries will be to facilitate critical thinking and in order to do this, libraries should embrace the technological tools of information discovery. (Jennison, 2008)." Point of Care Tools and mobile usage data were collected and analyzed to determine the perceived impact of device implementation and the inaugural class session.

- Literary Review: In order to create an effective instructional session and valid research study, a comprehensive review of the current scholarly literature was employed.

- Institutional Review Board (IRB): The Instruction Librarian received training in the protection of human subjects and IRB approval prior to teaching the course and administering the surveys.

- Survey Instrument: Statistics regarding user training, effectiveness, and preliminary mobile usage data were collected and analyzed to determine the perceived impact of device implementation and the inaugural class session.

- Curriculum and Course Session Development:

- Literature Review:

- Literature to Utilize: A more comprehensive understanding of informa+on literacy con+cepts

- Importa+on of informa+on discovery, (Heath, 2009).

- The emerging role of research libraries will be to facilitate critical thinking and in order to do this, libraries should embrace the technological tools of information discovery. (Jennison, 2008).

- The curriculum that includes mobile technology as a prerequisite to receiving the device.

- The evolving role of research libraries will be to facilitate critical thinking and in order to do this, libraries should embrace the technological tools of information discovery. (Jennison, 2008).

- Increasing student attendance and performing scholarly research on a mobile device prior to the class session. Student perceived understanding significantly following the class with all students indicating they “agree” or “strongly agree” with the statement on the post assessment about their knowledge from attending the course.

- 80% of attendees had previous experience with mobile technology. Among those, most (73%) have or currently use another Apple product.

- More than half of the attendees had questions about the library that they would use the iPad to look up, including hours and class offerings.

- Literature to Utilize: A more comprehensive understanding of information literacy concepts

- Efficiency is accessing medical information is critical and it is the role of library instruction to assist in this process (Lorincz, 2006). The emerging role of research libraries will be to facilitate critical thinking and in order to do this, libraries should embrace the technological tools of information discovery. (Jennison, 2008)." Point of Care Tools and mobile usage data were collected and analyzed to determine the perceived impact of device implementation and the inaugural class session.