

# MOBILE INTERFACES & THE IMPACT ON (AND OPPORTUNITIES FOR) PUBLISHER CONTENT

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NISO Forum: Philadelphia, PA May 20, 20 I I





# American College of Chest Physicians

- Organization of 18,000 Physician Members
  - Practicing clinicians, specializing in pulmonary, critical care, and sleep medicine
- Mission
  - To promote the prevention, diagnosis, and treatment of chest diseases through education, communication, and research.







# 76 Years in Publishing



#### Overview

Case I



Case 2



- Why Apps
- How We Did It
- Where We Are Today
- Lessons Learned





# Why Apps

And how do you decide on a platform?

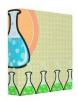






# Why not the mobile Web?

- Did not want a positive user experience to rely on internet connectivity
- Hoped to offer personalization and functions that could be saved easily



- Global adoption
- Trusted e-commerce platform
- Ease of use
- High-res touch screen





# Consider the audience







# Spy on readers (and talk to them)

Operating System	Visits
Windows	92.35%
Macintosh	6.50%
Linux	0.40%
not set)	0.31%
iPhone	0.31%
■ iPod	0.05%
SymbianOS	0.03%
Android	0.02%
PalmOS	0.02%
Danger Hiptop	0.01%

Traffic to chestjournal.org Jan 1, 2009 thru June 30, 2010

- .
  - from BlackBerry to iPhone

• Members transition

- Hospitals were finding more utility in the iPhone
  - Allscripts
  - Epocrates





#### How We Did It

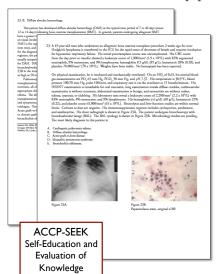
Choosing the right content, finding a reliable partner, and diving in







# Case 1: Select app-worthy content



#### **ACCP-SEEK**

- Granular format
- Rich images
- Built-in "actions"
  - Select an answer
  - Turn a page to read rationale
  - Read references for more info





# Find a partner

- Focus on delivery of educational content
- Understanding of scientific writing and research
- Apps in progress
- Past projects
  - Developed collaboration tools for scientists and researchers







# Assess special challenges

- 8 x 11 inch book → 3.5 inch (diagonal) screen
- Editorial review would need to occur within the device
  - Special characters, table and figure labels, references
- Pricing model (book \$100 \$300)
  - \$9.99 download + \$9.99/10 questions
- 3 different editions
  - Pulmonary, Critical Care, Sleep Medicine (100 Qs)





# Develop interface and functionality







#### Planned for Launch

- Reader for questions, answers, and rationales
- Embedded images with link to image viewer with zoom in/out
- List view, indexes, search
- Auto-scroll with tilt
- Note taking and voice annotation
- Save place on open/close
- Link references to PubMed via inapp browser
- Email references to contacts
- In-app purchase
- Save state on closing/relaunch

#### Planned for Future Releases

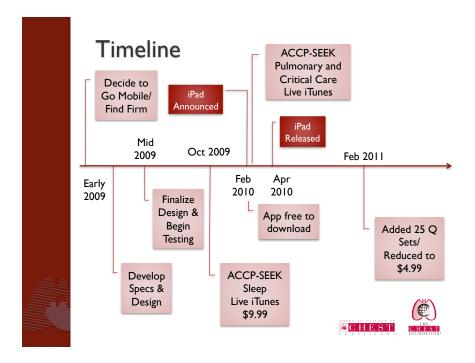
- Advertising support
- Push notifications of new volumes
- Send data for CME accreditation
- Add survey component
- In-app viewing of educational videos
- News/feeds from ACCP





# ACCP-SEEK app demo





# Case 2: Select app-worthy content





- High traffic
- Broad audience
- Quality content and images
- Strong browsing use cases
  - Detailed table of contents
  - Abstract views





# Assess special challenges

- User authentication
- Quantity of content
- Speed of use
- Need to make the app different from the Web without sacrificing the features of the Web site







# Develop interface and functionality for iPhone and iPod touch...













# ... And this time iPad, too









#### Feature list

#### Planned for Launch

- 3G download, access to recent issues
- Article navigation by section
- View by table of contents, abstract, full-text iOS optimized, full-text PDF, and history list
- Figure viewer with legend overlay
- Save favorite articles
- In-app Web browser
- Settings to save log-in info, preferred email address
- IP authentication

#### Planned for Future Releases

- Advertising support
- Usage statistics & analytics
- Note taking
- Browse by topic
- Podcasts
- Voucher access

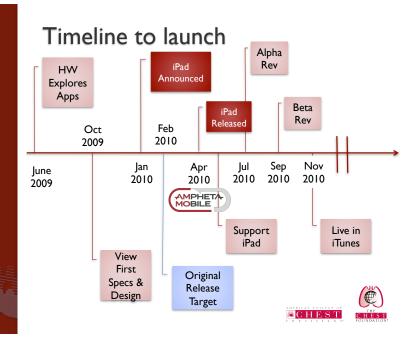




# CHEST Journal app demo







#### Work involved to launch

- 2 staff (development)
- 5+ rounds of review
  - Design
  - Text and front matter
  - Functionality
  - Engaged members for input
- Many meetings on marketing and pricing

... AND THEN
CUSTOMER SUPPORT
AND UPDATES!



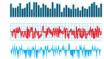




# Where We Are Today

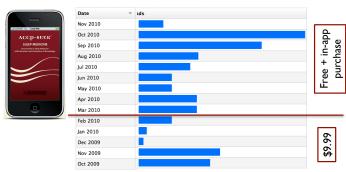
Data, downloads, and diverging from the original game plan







### Case I: Downloads

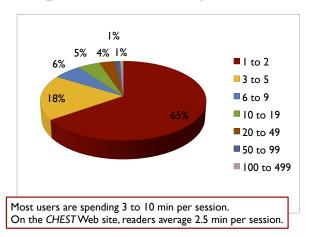


- ACCP-SEEK is tied to board exam season
- Cannot yet asses impact of price change
- 16% of those who download in the "off season" buy question sets
- ~ 40% buy question sets in board exam season





# Usage, no. sessions per month







# What the customers say

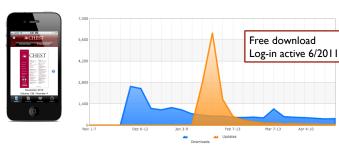
- Overall excellent application. Biggest problem is that there is no CME like the hardcopies. Also, I personally feel that if you bought the hardcopies, you should get the same SEEK questions for free in the app...
- Interface is easy to use & the radiology and pathology images are valuable to the experience.







#### Case 2: Downloads



Country	Downloa	oads	
■ United States	8,305		
<b>I</b> •■ Mexico	850		
<b>⊠</b> <u>Brazil</u>	808		
United Kingdom	664		
₩ <u>Canada</u>	658		
Colombia	549		
<u> </u>	472		

- ↑18,000 downloads
- ↑12,000 updates
- Global Reach
- No usage data ⊗



# What the customers say

- It's tiny on the iPhone, but it actually looks great on the iPad... I like the easy one-button integration of the CHEST Web site by way of the little side button.
- Great app but crashes.



Ongoing challenge is to find a way to address the one-star ratings by improving the apps ...





# Continue to monitor what users are doing on their mobile phones

- 29% downloaded an app
- 13% paid to download an app
- App users skew younger, more educated, and affluent.

Source: Pew Internet & American Life Project App use ranks low on a list of non-voice cell phone

% of adult cell phone users who do each of the following on their phone..

Take a picture	76%
Send or receive text messages	72
Access the internet	38
Play a game	34
Send or receive email	34
Record a video	34
Play music	33
Send or receive instant messages	30
Use an app	29

Source: Pew Research Center's Internet & American Life Project, April 29-May 30, 2010 Tracking Survey. N=1,917 adult cell phone users





# Continue to monitor what users are doing on their mobile phones

By the end of 2010, an estimated 22 percent of U.S. physicians were using iPads, according to Chilmark Research.

Doctors Adopting IPad Use Nationwide To Enhance Medical Care. Institutions Buy In. Apple The New Healthcare Company.



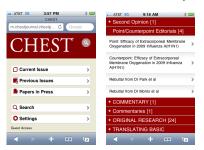






### Diverge from the plan, cover all bases

- Decided to partner to create mobile site
- False start on launch Dec 2010
- Final launch of mobile-opt site March 22, 2011









# Mobile-optimized site use







#### **Lessons Learned**

A brief rundown before your important questions





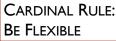
# App development 101

0.18%

BlackBerry

- Partner strategically, do not become a software developer
- Know your target audience (and their devices)
- Allocate time for testing (and re-testing and more testing)
- Price with caution, apps are cheap

- Retain functionality and features from original
- Prioritize download and performance speeds
- Plan to incorporate usage statistics
- Prepare to respond to users (and new devices) with updates







# Thank you!

...Questions?





Search iTunes for:

ACCP-SEEK or CHEST Journal



