Adoption of Mobile Applications by Advanced Practice Providers

Susan Bowman Burpee, RN, MS, CNP
Joni Tornwall, MEd, RN
Linda Quinlin, DNP, ACNS, FNP, ACHPN
Overview

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Objectives
- Describe three apps used most often by advanced practice providers in the clinical setting and how they can facilitate workflow and patient care.
- Identify strategies for discovering new apps and exploring their potential validity, reliability, and usability in practice and nursing education.
Who, What, Why?

- Apps and education
- Research questions and survey development
- IRB approval
- Email
- Results
Mobile app use in clinical practice

- Provide APPs with any-time, any-place access to current information
- Tools for APPs who need information quickly
- Facilitate workflow for APPs
- Maximize patient flow
- Improve diagnosis, treatment, and documentation
Survey results: Demographics

- 128 results returned (N = 598)
- 103 female, 17 male
- Average age = 43
- Average years in practice = 9 years
- 90% from The Ohio State University Wexner Medical Center
Mobile app use

• Using apps on mobile devices:
  – YES-102
  – NO-26
Reasons for not using apps

- No time: 44%
- No knowledge: 18%
- Poor connection: 15%
- Phones not allowed: 9%
- Cost: 9%
- Other: 6%
Evaluating Mobile Applications

8 Criteria

– Usefulness
– Accuracy
– Authority
– Objectivity
– Functionality
– Design
– Security
– Value
Medical apps most used to make clinical decisions

- Epocrates 77%
- UpToDate 67%
- Micromedex 41%
- Medscape Mobile 20%
- MedlinePlus 20%
- Lexicomp 17%
- 5-Minute Clinical Consult 10%
- Sanford Guide to Antimicrobial Therapy 10%
- ASCVD Risk Estimator 8%
- uCentral 7%
- VisualDx 5%
- Calculate by QxMD 4%
- Skyscape 3%
- Omnio 1%
Women’s health apps

- STD Tx Guide 67%
- ASCCP Algorithms 67%
- FRAX 33%
- Other = Lactmed 8%
Pediatric health apps

- Pedi QuikCalc 67%
- PediStat 33%
Psych/mental health apps

• DSM-5 Diagnostic Criteria 88%
• Stahl’s Essential Psychopharmacology 13%
General non-medical or less healthcare specific apps

- Google Translate 84%
- 3D Brain 16%
- Canopy 5%
Social media apps used to access information related to patient care

- YouTube 79%
- Facebook 31%
- Twitter 5%
- Other 8%: YouTube for procedure coaching, Instagram, Doximity
QUESTION

Should I recommend apps to my patients?
Apps survey participants recommend to patients

- CDC
- MyFitnessPal
- Apps for Memory/Cognition
- Alzheimer’s Assoc App
- Mindfulness Apps
- Catch my Pain App
- Cycle Trackers
- Menses tracker
- Insomnia
Future trends

Apps for better health outcomes
- Prevention and management of chronic health conditions
- Patient care and compliance
- Support for caregivers

Hardware improvements
- Even larger databases
- CDSS (clinical decision support system) prompts

Apps in healthcare education is expected to grow and completely replace textbooks
Conclusion

• Apps are invaluable tools for APPS
• Risk and benefits
• Development of guidelines
Link to handouts

• Presentation
  – go.osu.edu/mobileapps1

• List of mobile apps
  – go.osu.edu/mobileapps2
References


