Expanding the Scope of Research Using Technology

Missi Stec, DNP, APRN, CNM, FACNM, FAAN
SUNY Downstate College of Nursing

Distinguished Educator
Objectives

• Conceptualize ways to improve research using technology

• Evaluate apps that can be used in research implementation
BARRIERS

- Sample size
- Cost
- Data
- IRB
- Recruitment
- Multiple sites
BARRIERS

- Sample size
- IRB
- Recruitment
- Cost
- Multiple sites
- Data
mPower
Parkinson’s Disease

Epi Watch
Seizure Monitoring
3185 reported taking a medication

6989 reported having a disease

48,968 users provided consent

898 contributed data for 5 days

9500 chose to share data

2,317 users filled out multiple surveys

7,593 people completed consent

48,000 app downloads

50,000 app downloads

1484 seizures tracked

177 reported seizure triggers

598 participated

9500 chose to share data

50,000 app downloads

1484 seizures tracked

**SUCCESSES**

- Large enrollment numbers
- Large scale data
- Correlation of results with existing studies
- Ease of use for consent and data gathering

**CHALLENGES**

- Drop off in engagement over time
- Self report could be a validity threat
- Study follow up variance
- Physical activity measurement inaccuracies
Potential options

- Communication with participants
- Interaction via social media sites
- Utilization of learning platforms
- Access to study resources
Surveys

- Survey Monkey
- RedCap
- Google forms
- Survey Gizmo
Digital Content

Multitouch Books

iTunesU Or LMS

iMovie

Podcast
Face to Face Interventions
Web based interventions

Teen Dating Violence

Let's get started! Click Day 1 to begin.

Ideally you will visit one day's message daily. But feel free to work ahead or visit other topics once you complete your daily message.

Day 1 Day 2 Day 3 Day 4 Day 5 Day 6 Day 7 Day 8
Day 9 Day 10 Day 11 Day 12 Day 13 Day 14 Day 15 Day 16
Day 17 Day 18 Day 19 Day 20 Day 21 Day 22 Day 23 Day 24

Teen Dating Violence: Day 3

Dating violence can be physical, emotional, or sexual abuse between two people in a dating relationship.

Click to learn more
Questions

melissa.stec@downstate.edu
References

- All apps available through the Google Play, Android and Apple App Store


