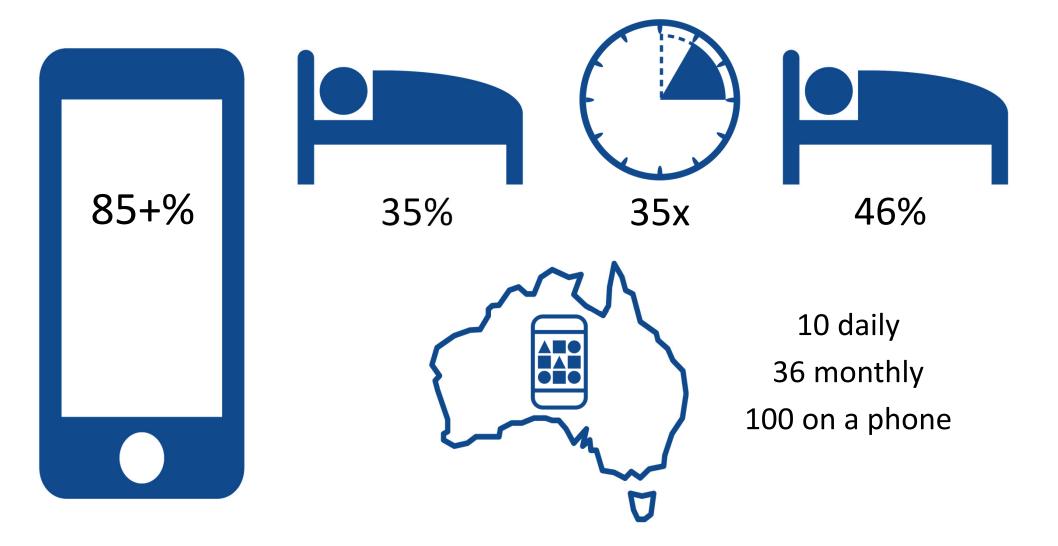


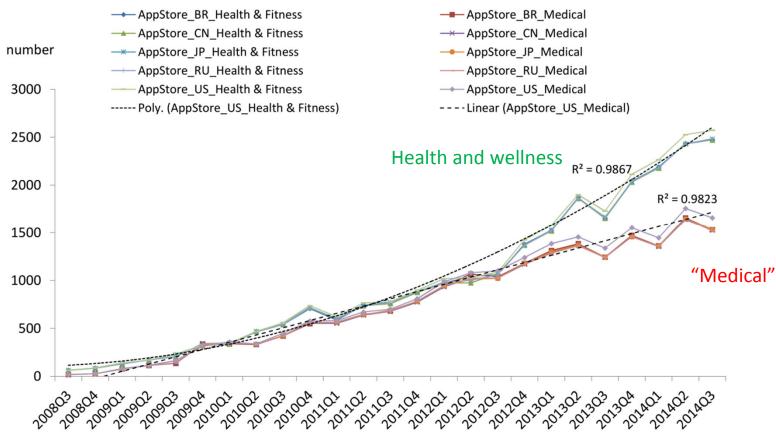
Supported by Islamic Women's Council of New Zealand and the NZ Muslim Association





Health apps are a growth category







Johns Hopkins EpiWatch: App and Research Study



EpiWatch: Two goals

- Collect seizure biosensor & labelling data for non-EEG seizure detection
 Post-seizure query: aura/seizure type/triggers; caregiver alerting & interventions
- Help persons with epilepsy manage their disease
 - Seizure & pill taking journals
 - o Brief daily queries
 - Oco-morbidity screening:
 - anxiety/depression & drug side effects
 - Relationships to QOLIE
 - o Individualized referral links & telemedicine





App literature



Apps





People

Outcomes



Apps



- Development
- Types of apps in a disease area
- App review

Gout app development



Beta-web based app "Healthy.me"

Identified

- helpful features
- Scope and role
- Barriers to uptake



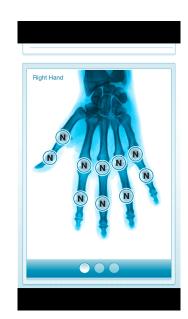


Rheumatoid arthritis App review

- "Systematic" search for apps for people to monitor own RA
- Search = 987 apps \rightarrow 19 met inclusion criteria (8 \bigcirc 0 0 3 \bigcirc 0)
- Only 1 app = used validated measure + tracked







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People and Apps

- Who uses apps
- How people use apps
- Attitudes to apps
- App knowledge

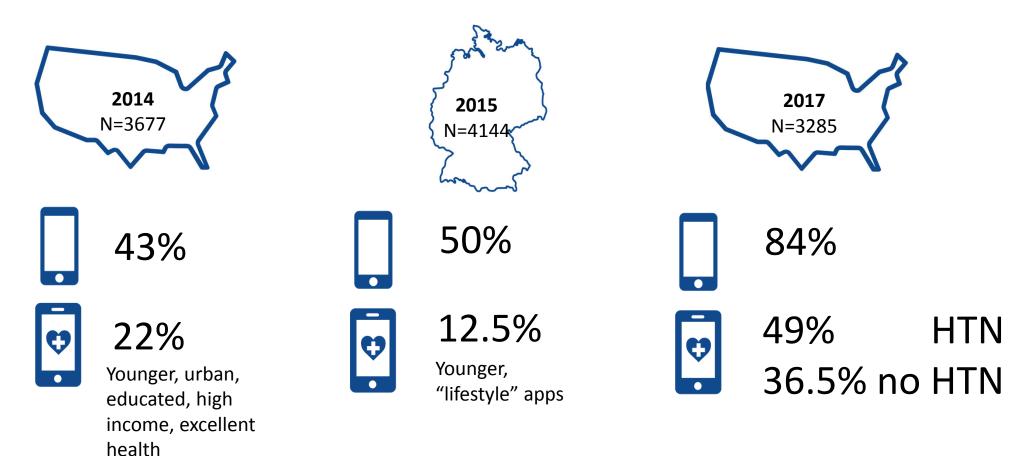


Implementation

- User experience
- Use over time
- Pitfalls and wins

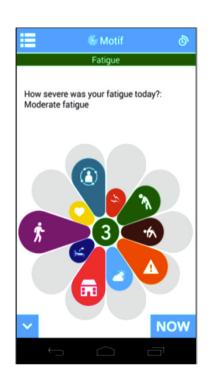


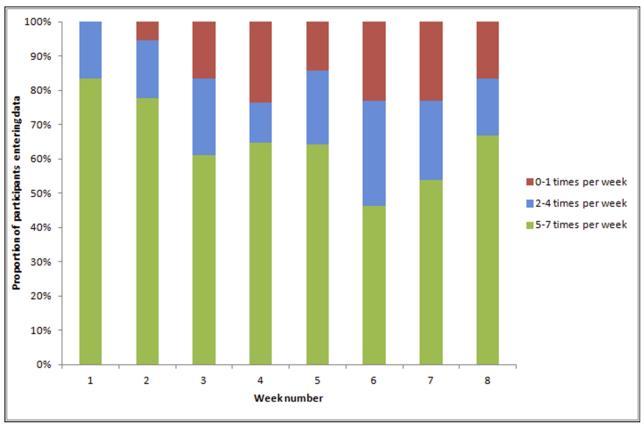
People and Apps





Cloudy with a Chance of Pain is the world's first smartphone-based study to investigate the association between weather and chronic pain.





1 in 7 track data daily data for 6/12

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App outcomes

- Observational app implementation, single location
- Some RCTs
- Some metasynthesis



Diabetes Apps and HbA1c - metasynthesis

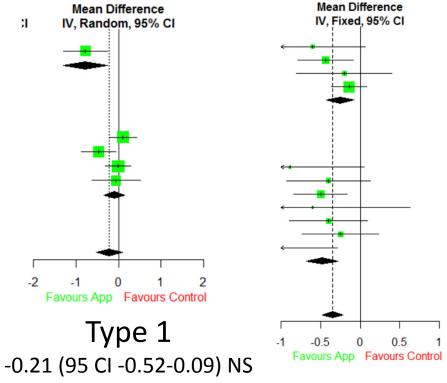
P adults with DM

I DM app - behavioural change

C usual care

O HbA1C

Risk of bias – lack of blinding Clinical significance?



Type 2 -0.35 (95CI -0.48—0.21), p<.01

The future of self management apps











Move from single solution (an app on a phone) to a health ecosystem (and wearables)

Emphasis on user perspectives and preferences – avoid over engineering

New models of health service development that learn from software development approaches More flexible approaches to evaluation of software in clinical settings

Emphasis on effective business models as much as effective apps

Six questions to ask about health apps

- Who developed the app and why?
- 2. Does the app contain factual information based on reliable resources?
- 3. Is the app up-to-date?
- 4. What are the reviews like?
- 5. What does it cost?
- 6. Does the app require data access to function?



How to find apps

www.healthnavigator.org.nz/app-library/



www.healthdirect.gov.au/health-and-wellbeing-apps

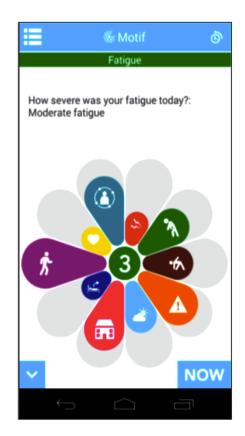


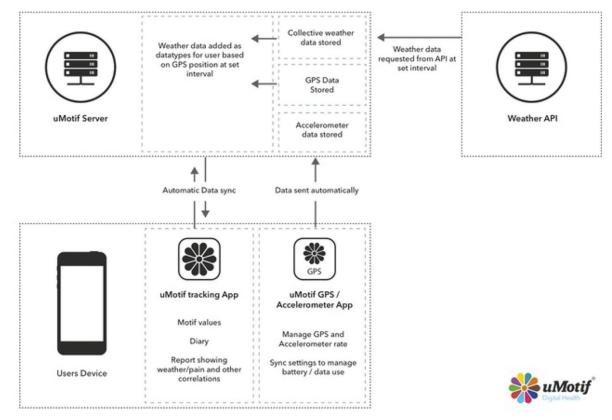
www.imedicalapps.com/





Cloudy with a Chance of Pain is the world's first smartphone-based study to investigate the association between weather and chronic pain.





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10 daily 36 monthly 100 on a phone

Silver surfers power smartphone swell

Graph 1: Smartphone ownership by age

Which, if any, of the following devices do you own or have ready access to? Smartphone responses below.

