

Guidelines for Developing Healthy Living Apps

AKA: How to build things people don't hate

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What we aimed to do

- Create an evidence-based method to collect, rate and review “healthy living” apps
- Focussed on VicHealth’s 5 priority areas:
 - Healthy eating, physical activity, alcohol harm reduction, smoking cessation, mental wellbeing
- Publish a directory of apps recommended for (public) health uses

What we didn't do

- Look at apps for clinical / treatment / diagnostic purposes
- Have a real-time updated directory listing
- Anything 100% perfect – aim was to improve on existing knowledge (approx zero)

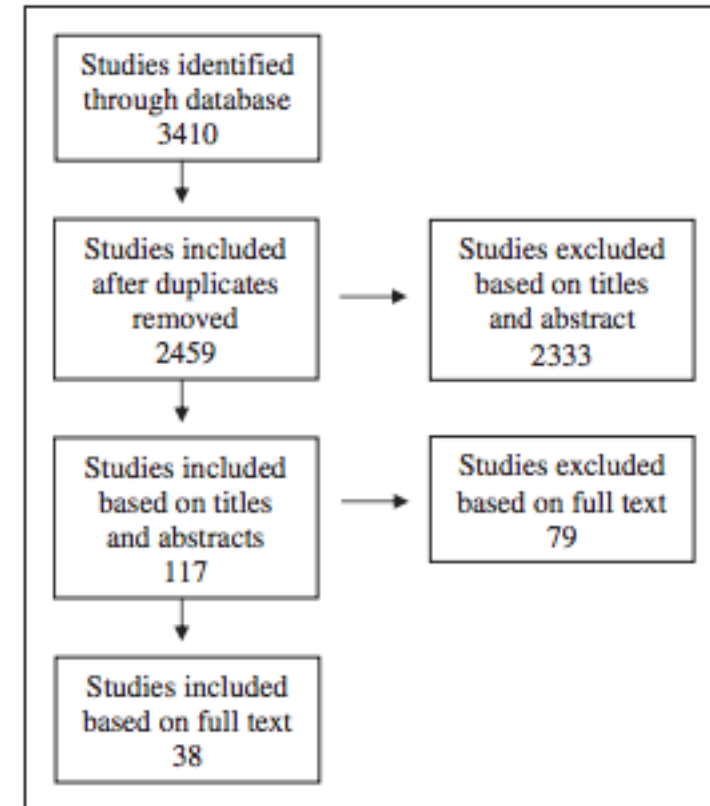
1. Literature

RESEARCH/Original Article

Evaluating mobile phone applications for health behaviour change: A systematic review

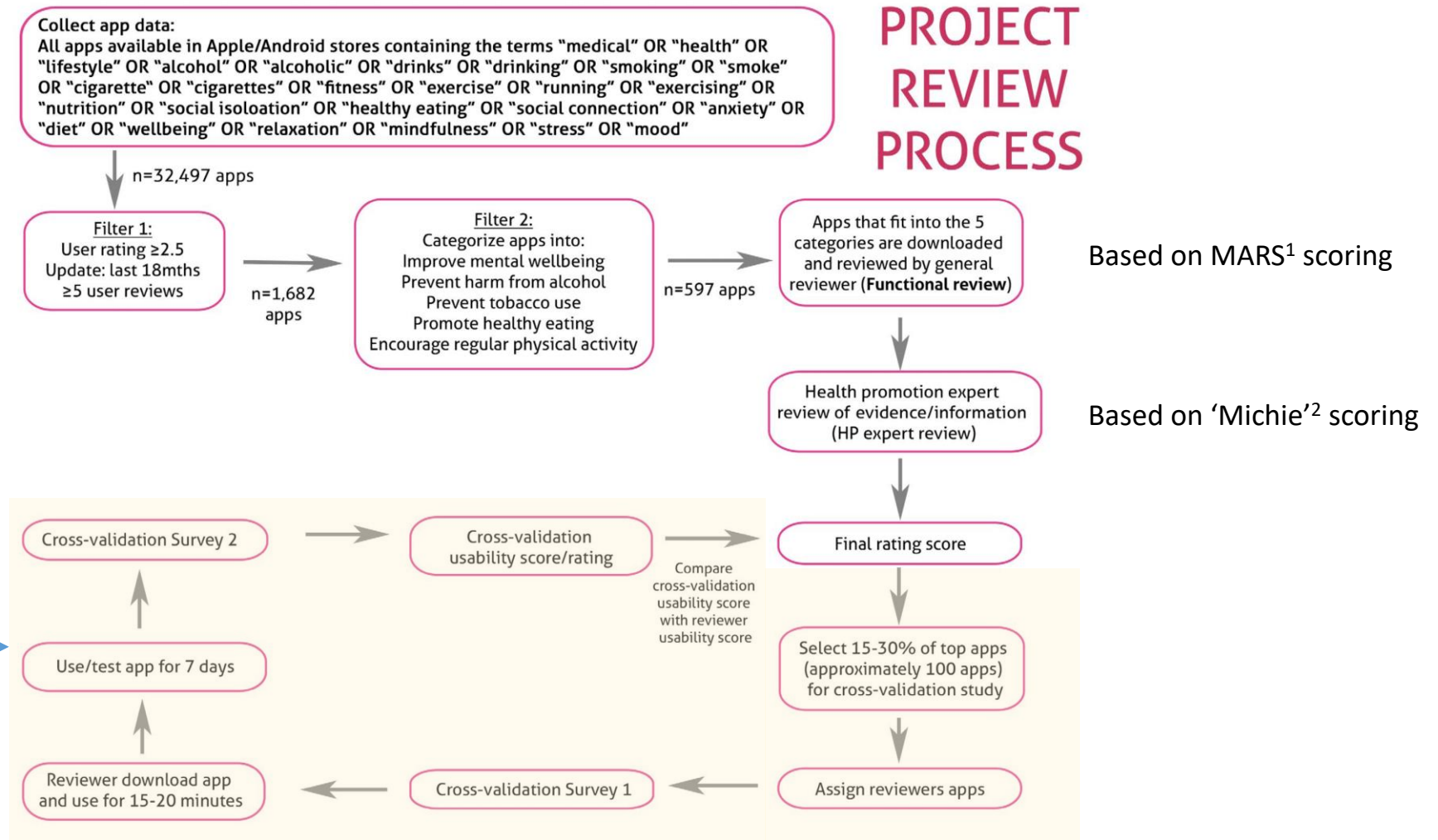
Fiona H McKay¹, Christina Cheng¹, Annemarie Wright², Jane Shill², Hugh Stephens³ and Mary Uccellini³

Journal of Telemedicine and Telecare
0(0) 1–9
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DOI: 10.1177/1357633X16673538
jtt.sagepub.com



Conclusion: there is no single best practice approach to evaluating mobile health apps

2. Review methodology (2014 data)



¹ Stoyanov SR, Hides L, Kavanagh DJ, et al. Mobile app rating scale: A new tool for assessing the quality of health mobile apps. JMIR Mhealth Uhealth 2015; 3(1): e27–e27.

² Abraham C and Michie S. A taxonomy of behavior change techniques used in interventions. Health Psychol 2008; 27(3): 379–387.

3. Collection & review of apps

- 2014: initial corpus 32,497 apps – 2017: 77,617 (!!)
- Data filter for supported (<18mths updated or launched) and not horrible (minimum 2.5 star rating, 5+ reviews)
- Categorised in/out of VicHealth priority areas
- 2014: functional/detailed review of 407 apps (2016: 329 apps)
 - Got better at excluding 'broken' / silly apps
- Health promotion expert review (Michie) conducted on 'promoting' apps but not 'enabling'

4. Results: app types (2016 data)

- 324 Health Promotion Apps + 11 'VIP' Apps (including some promoting and some enabling apps) – eg *Pokémon Go*
- 75 (22%) Healthy Eating Apps
- 266 (79%) Physical Activity Apps
- 7 (2%) Tobacco Cessation Apps
- 5 (1%) Preventing Harm from Alcohol Apps
- 26 (8%) Mental wellbeing apps
- (incl) 41 Cross Category apps
- 150 apps(44%) were rated in both 2014 and 2016 studies





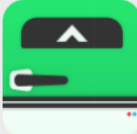

4. Scoring

- Average overall score (MARS+Michie) 2.07, range 0 – 3.76
- Most apps were free (66%, n=218), and 127 (39%) used in app payments (53 one off, 74 subscription based)
- Highest rated paid app was ranked 17th
- Small increase in score between 2014 and 2016 (av +0.14)
- Health promotion expert scoring was typically very low (av 0.88)

5. Example top rated apps

Full directory: <https://www.vichealth.vic.gov.au/media-and-resources/vichealth-apps>

67 apps available < 1 2 3 4 5 > ☰ ☱


 FREE ★★★★★ Pact: Earn Cash for Exercise, Healthy Living, and Eating Right >	 FREE ★★★★★ DietBet - Lose Weight. Make Money. >	 FREE ★★★★★ Lose weight with Applause >
 FREE ★★★★★ Calorie Counter & Diet Tracker by MyFitnessPal >	 FREE ★★★★★ CARROT Hunger - Talking Calorie Counter >	 FREE ★★★★★ Record by Under Armour - Exercise Smarter, Feel Better, Live Longer, connects with UA HealthBox >

5. Example top rated apps

247 apps available

< 1 2 3 4 ... 17 >


☰ ☱



FREE

★★★★★


Pact: Earn Cash for Exercise, Healthy Living, and Eating Right >



FREE

★★★★★


Lose weight with Applause >



FREE

★★★★★


FitFox - Exercise rewards, activity tracker, and fitness movement coach >



\$3.99


★★★★★

Runtastic Squats Workout, Trainer & Counter PRO >



FREE

★★★★★ Freeletics Gym >



FREE

★★★★★

Freeletics Bodyweight - Workouts & Training >

5. Example top rated apps

3 apps available



\$4.49

★★★★★ I Am Sober >



FREE

★★★★★
Australian Drink Scanner &
Alcohol Tracker - Drinkscape >










\$1.49

★★★★★
Alcohol Cutdown Coach >

5. Example top rated apps

7 apps available




 <p>FREE</p> <p>★★★★★</p> <p>Quit Now: My QuitBuddy ></p>	 <p>\$2.99</p> <p>★★★★★</p> <p>Quit It - stop smoking today ></p>	 <p>FREE</p> <p>★★★★★</p> <p>Kwit - quit smoking for good - smoking cessation app ></p>
 <p>FREE</p> <p>★★★★★</p> <p>Way of Life - The Ultimate Habit Maker & Breaker ></p>	 <p>FREE</p> <p>★★★★★</p> <p>Smoke Free - Quit smoking now and stop for good ></p>	 <p>FREE</p> <p>★★★★★</p> <p>Day Organizer+ Tasks, Reminders & To Do Lists ></p>

5. Example top rated apps

24 apps available


< 1 2 >

☰ ☱




FREE

★★★★★ What's Up? >




FREE

★★★★★
Happify - Activities & Games for
Stress & Anxiety >




FREE

★★★★★
Pacifica - Anxiety, Stress, &
Depression relief based on CBT &
Mindfulness >




FREE

★★★★★
Remente - Goal Setting, Personal
Improvement & Mental Training >



FREE

★★★★★ SuperBetter >



FREE

★★★★★ 1 Giant Mind v2 >

Extensive 'questionable' apps

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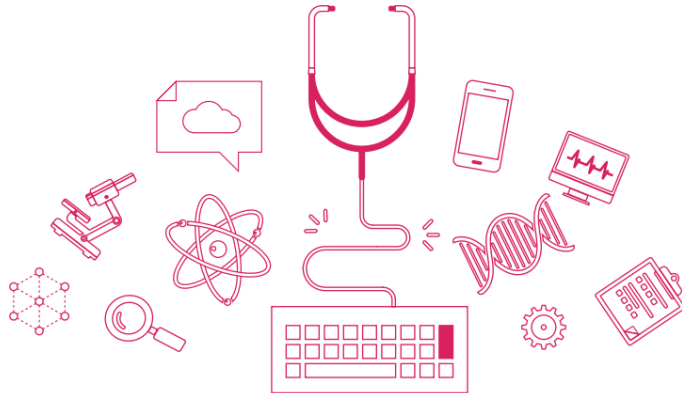
APPLE JUST SAYS YES TO IPHONE GAME FOR SMOKERS



Read our guidelines

<https://www.vichealth.vic.gov.au/media-and-resources/app-developers>

Guidelines for creating healthy living apps



The guide is organised by each stage of the app development process so that you can easily access the most relevant parts.

- **Before you start building your app**
Identifying what your app will do, who will use it and how.
- **Planning your app**
Assessing the right team structure, requirements and quality framework for your app.
- **Building and testing your app**
Selecting the right development and behaviour change frameworks or constructs, and tips for how to create effective healthy living apps.
- **Launching your app**
Advice on marketing and promoting your app to your target users.
- **Updating your app**
Information about the importance of keeping your app up-to-date.

The guide also has further resources and references with more information.



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So you want to build an app

- ***You probably don't need one***
- Think before code
- Understand some basics of app development
- Distribution and promotion are key to adoption – without, you have an expensive digital paperweight
- It costs money to keep them up to date
- You will not 'go viral'

Questions?

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