

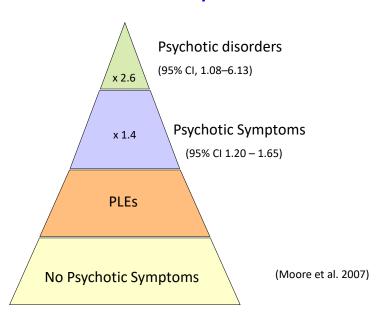
Feasibility & outcomes of a web-based program targeting PLEs among young cannabis users

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The Continuum of Psychosis





PLE'S

- subclinical psychotic symptoms, which include delusions and hallucinations.
- 12-month prevalence rates 17%—28%
- share many genetic, social and environmental risk factors with the clinical phenotype of psychosis

(Kelleher and Cannon, 2011)

 Increase risk of psychosis (16-28x), depressive or anxiety disorder (5-6x) & suicide (3-4x) (Bak et al., 2003; Nishida et al., 2010; Poulton et al 2000; Varghese et al., 2011)

Cannabis and PLE'S

More frequent PLES

- Age of onset (< age 16)
- THC +ve hair samples/IV THC (Mason et al., 2009, Morgan et al., 2012)
- More frequent cannabis use (Miettunen et al., 2008, Hides et al., 2009, Skinner et al., 2011)
- Dose-response relationship (Henquet et al., 2005, Kuepper et al., 2011, Mackie et al., 2011)
- ESM: 90% reported PLEs in the same week (Verdoux et al., 2003)
- Over 20 years (Rössler et al., 2007)
 - Weekly cannabis users 4.3 x risk continuously high PLEs
 - Occasional cannabis users 2.3 x "



Unlikely to seek professional help

- Important opportunity for early intervention is being missed
- Many cannabis users with PLE's don't present to health services
 - receive emergency treatment without follow-up
- Web/mobile based programs provide a highly accessible, anonymous way of delivering treatment to this at-risk group to prevent a range of psychopathology



Aim

To evaluate the feasibility and outcomes of web-based program for reducing the frequency of cannabis use & PLEs in young cannabis users

Keep it Real



Project Team: Leanne Hides, Stoyan Stoyanov, Wendell Cocksaw, Oksana Zelenko, & David Kavanagh

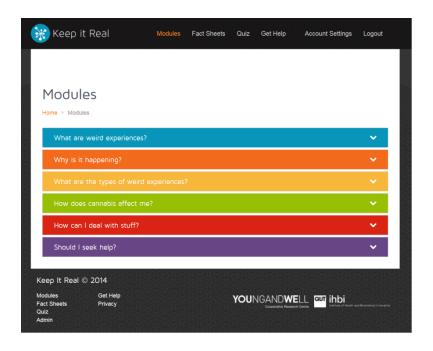
Keep it Real

- Brief, youth friendly, customizable, anonymous, mobile-responsive web program
- Participatory design workshops guided program development

Aims:

- To improve the ability to identify, understand and reduce PLEs and distress associated with them
- To reduce cannabis use & increase understanding of its relationship with PLEs
- To teach cognitive-behavioral coping strategies
- To facilitate appropriate help-seeking.

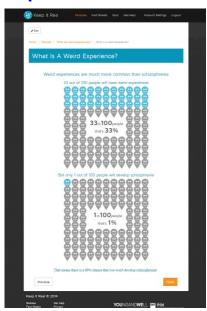
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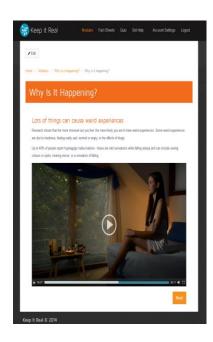


What are weird experiences?



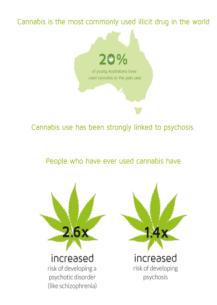


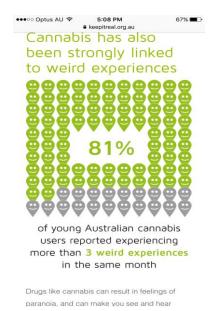
Why are they happening?





How does cannabis affect me?





💥 Keep it Real Weird Experiences while smoking cannabis You reported the following thoughts, feelings and experiences at least sometimes while smoking cannabis. . Deluded (believed in something which afterwards you knew not to be true) FYI . Anxious for no reason FVI Cannabis and your mood . Losing your sense of reality FYI Everybody experiences day-to-day life problems (e.g., Having visions (like visual hallucinations) FYI relationship issues) and negative emotions. Some people use · Fearful that you are going crazy/mad FYI cannabis to forcet their worries and/or reduce negative . Obsessive (or fixated on something) FYI Having out of body experiences FYI make some people feel worse or you can just end up going round and round in circles over time. 17-25 years.

How can I deal with stuff?





Nevt

Participants

- N=213 young people (16-25 years)
- Had used cannabis in the past month
- Had at least 3 PLEs 'sometimes' or 1 PLE 'nearly always' in the past 3 months on the CAPE15 (total score of >18)
- Negative psychosis screen.
- Male: 78.1% Age: 20.9 (SD=2.30)
- Work: Unemp 9%; Empl 40%; Student 51%
- Family Hx of psychosis 14.1%

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Measures

Youth Risk Behaviour Survey (YRBS)

- Lifetime cannabis, ecstasy, amphetamine and cocaine use & 12 month cannabis use (1 or 2 to ≥ 100 times)
- Past month cannabis use (1 or 2 to ≥ 40 times)
- · Time since last cannabis use
- · Cumulative lifetime cannabis use

Community Assessment of Psychic Experiences (not-related to cannabis use)

- CAPE15 (Capra, Kavanagh, Hides and Scott, 2013; 2015)
- CFA: 3 subscales
 - o Bizarre experiences
 - o Persecutory ideas
 - o Perceptual abnormalities
- o Assessments: baseline, 3 & 6 mths follow-up.
- o High follow-up rates: 89% (3m) & 85% (6m)

Substance Use

Drug	
Cannabis Age of onset Cannabis	16.5 years (SD=2.19)
Past 12 month frequency > 10 times > 100 times	18% 57%
Past Month frequency > 10 times > 40 times	56% 22%
Last Use Past 48 hours	51%
Typical Alcohol in Past Year > 7 SDUs	16%
Lifetime Ecstasy Amphetamine Cocaine	47% 31% 30%

Results

Program use

- 95% accessed the CAPE15 feedback
- Mean of 2.94 (SD=1.82) of the 6 modules

Feedback

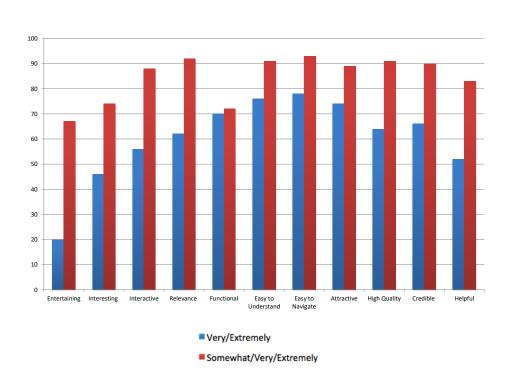
Overall rating 75% Pretty good/Excellent

Helpful 83% Somewhat/Very/Extremely

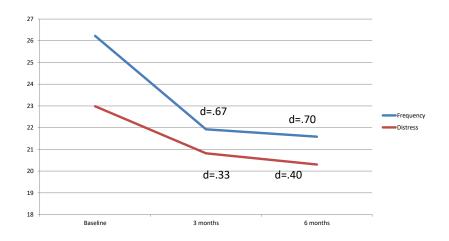
Credible 91% "

Easy to understand 91%

Relevance 92%

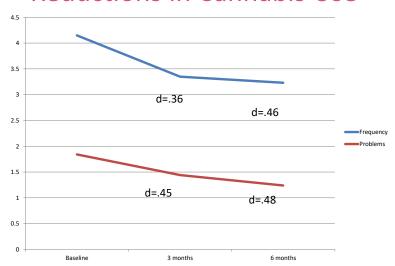


Reductions in PLEs



8/11/2016

Reductions in Cannabis Use



8/11/2016 22

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Conclusions

- Preliminary evidence for the feasibility, acceptability and positive impact of KiR on PLEs and cannabis use
- Cannabis users achieved:
 - Significant, moderate to large reductions in cannabis use and related problems as well as PLEs & associated distress
- A full scale RCTis required to establish program efficacy relative to no/delayed-access, web-based information/programs & as an adjunct to face-to-face treatment

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Thank you!

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