

X GGD X Amsterdam





Internet Use Enhances Retention While Depression Exacerbates Drop-Out from a Sexual Health App Intervention Study for MSM

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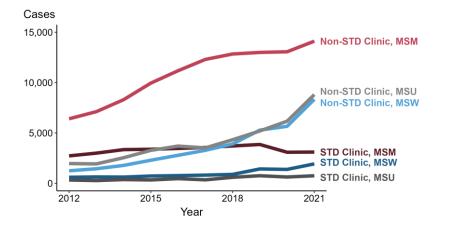


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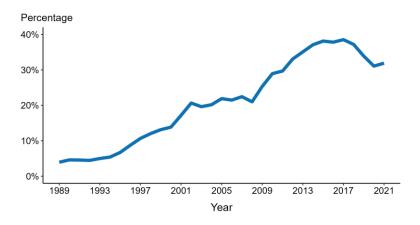
Background

- Rates of sexually transmitted infections have been on the rise among MSM
- Uptake of prevention services has been sub-optimal
- Mobile health (mHealth) interventions show promise

Syphilis cases among men at select STD clinics¹



Gonorrhea rates among MSM at select STD clinics¹





1. Data available at https://www.cdc.gov/std/statistics/2021/figures.htm

Mobile Messaging for MSM (M-Cubed)

- mHealth intervention using tailored text and video messages
- Free screening and commodity ordering
- RCT showed the app doubled the rates of HIV testing and PrEP use²

2. Sullivan PS, Stephenson R, Hirshfield S, Mehta CC, Zahn R, Bauermeister JA, et al. Behavioral Efficacy of a Sexual Health Mobile App for Men Who Have Sex With Men: Randomized Controlled Trial of Mobile Messaging for Men. J Med Internet Res. 2022 Feb 2;24(2):e34574.





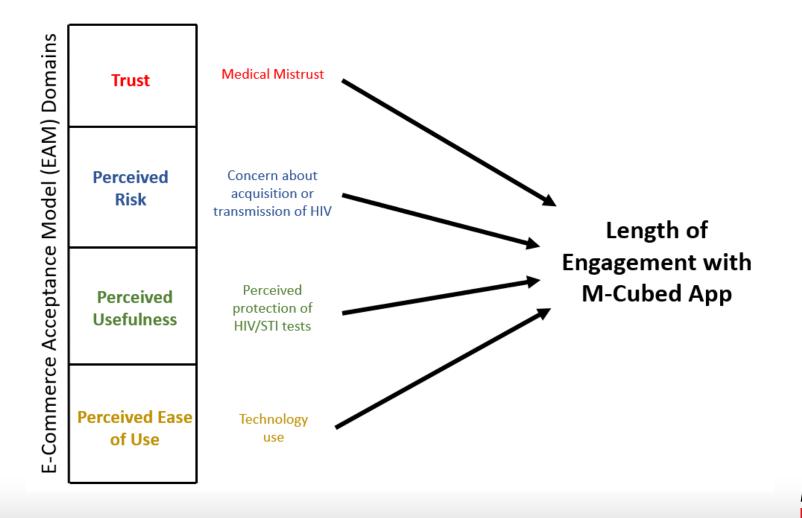
Research Question

 What factors predict how long MSM will engage with the M-Cubed app?





Methods - Theoretical Framework

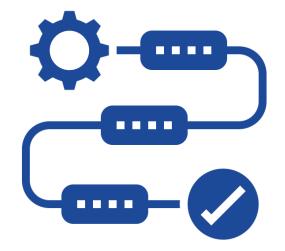




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Methods - Analysis

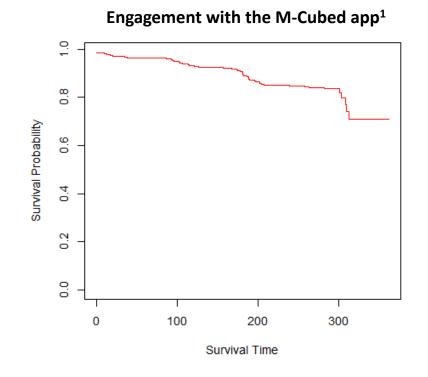
- M-Cubed data from 611 MSM in Atlanta, Detroit, and New York City
- Multivariable Cox regression assessed each EAM domain separately
- Final model constructed from domains with significant explanatory value





Results

- Average age: 36 years
- Majority MSM of color
- 1 in 4 screened positive for depression
- 1 in 3 reported drug use





EAM Domain-Specific Findings



Internet use \rightarrow 30% less likely to disengage \geq 4 hrs/day

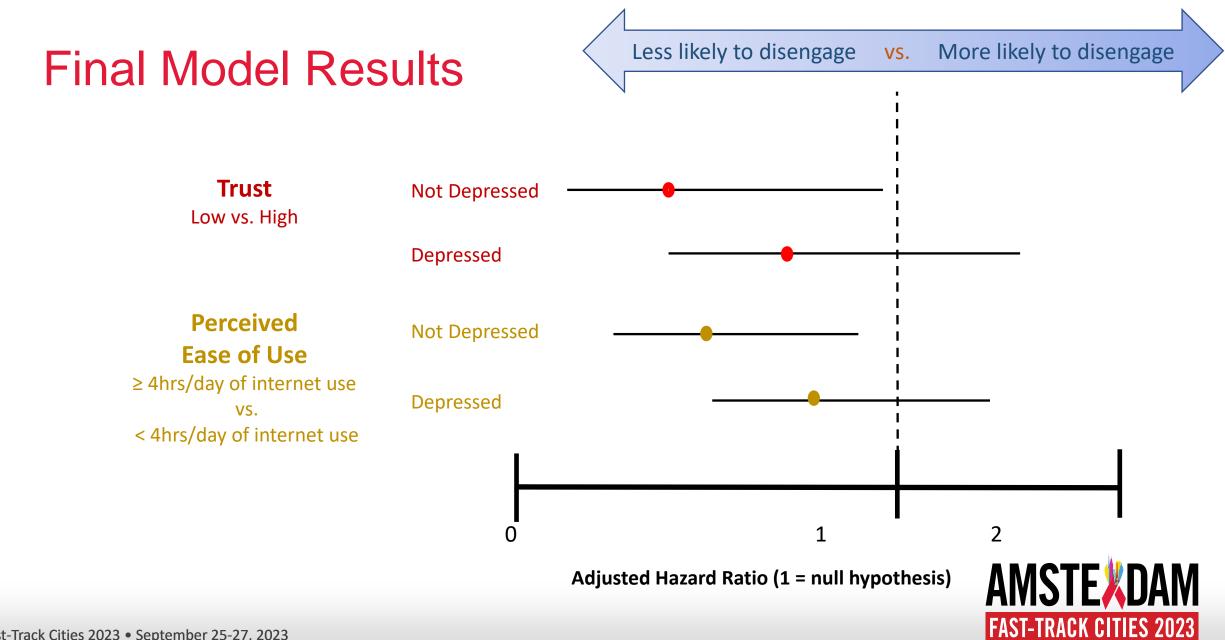


Depression \rightarrow 30% more likely to disengage



Low trust and no \rightarrow 70% less likely to disengage





Discussion

- mHealth interventions may be able to overcome traditional barriers of medical mistrust
- Accessibility and usability of apps should be prioritized for those with low baseline technology use
- Mental health of MSM must be a core component of sexual health promotion



Conclusions

- mHealth interventions can improve sexual health promotion among MSM
- Incorporating implementation science will help us better capitalize on mHealth potential



Acknowledgements

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