



Digital Mental Health and Addiction Interventions for Adolescents, Young Adults and Families

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Interdisciplinary Leaders in Substance Use Education, Research, Care and Policy

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- 1) The Impact of Substance Use on the Developing Adolescent Brain
- 2) Who's Doing What? The Epidemiology of Adolescent Substance Use
- 3) Substance Use Interventions for Adolescents and Transitional Age Youth
- 4) Integrating Stigmatized Loss and Disenfranchised Grief into the SBIRT Model

amersa.org/resources/tay-webinar-series



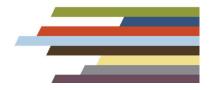
- 5) Substance Use in Adolescents and Transitional Age Youth: Justice Involvement and Homelessness
- 6) Digital Mental Health and Addiction Interventions for Adolescents, Young Adults and Families



Webinar Presenter

Fred Muench, Ph.D.
President,
Partnership to End
Addiction







Partnership to End Addiction

Partnership to End Addiction is a national nonprofit that exists to:

Empower families

Advance effective care

Shape public policy

Change culture

We help the helpers



Presentation Acknowledgements



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^{*}No conflicts of interest related to addiction services. I have several patents on using passive stimulation to create cardiovascular resonance.

Presentation Objectives

- Ingredients of successful digital interventions
- The landscape of digital SUD interventions in general and for adolescents, young adults (AYA), and families
- Research on digital technologies from prevention to recovery for AYA
- Existing and low hanging fruit opportunities for practitioners and researchers



Technology is a Tool

The simplest form of technology is the development and use of basic tools.

The prehistoric discovery of how to control fire and the later Neolithic Revolution increased the available sources of food, and the invention of the wheel helped humans to travel in and control their environment.

Developments in historic times, including the printing press, the telephone, and the Internet, have lessened physical barriers to communication and allowed humans to interact freely on a global scale.

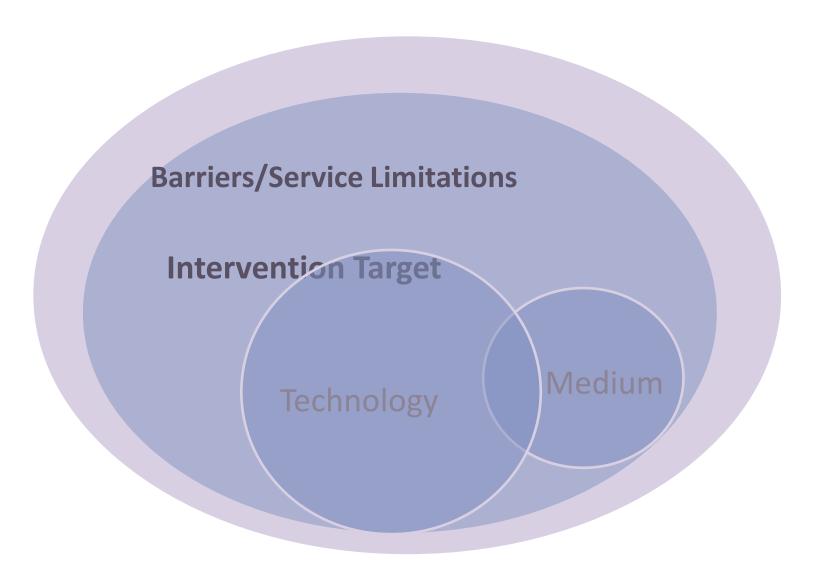
Tools can create new tools

But we have to use it the right way



And be mindful of its power and downside







Technology
mediums / modes
offer enhanced
opportunities to
connect and
intervene based on
how people live

Episodic and continuous
Synchronous and asynchronous
Automated and human
Passive and active
Captured and ephemeral

*Effortless and Salient



Technology Features & Applications

Feature	Applications
Voice & Text	 SMS, IVR, push alerts, emotional tone, natural language processing, vocal prosody, repeated brief assessment, psycho-edu, information, peer and specialist support, virtual agents, therapy, etc.
Camera & Video	 Telepsych, modeling, environmental monitoring, visual analysis, biomonitoring
Gyroscope & Activity Monitoring	 Activity monitoring, behavioral activation, sleep monitoring, arm movement
Geolocation	 Location, triggers, activity scheduling, etc.
Ambient Light, Sound, environmental Sensors	 Improved understanding of environment (eg bar versus home, dark versus light)
Proximity Sensors	Other phones, social gathering, peer triggers
Add-ons & Wearables	 Physiological monitoring, reaction and arousal, alcohol sensing, drug sensing, passive stimulation for guidance and intervention

Technology
mediums / modes
have evolved to
offer new
opportunities that
build off oneanother

TV

- Reach/Dissemination/Scale
- Standardization

CD ROM

- Interactivity
- Personalization/Tailoring
- Adaptability

Web

- Data capture/Analytics
- Social interaction
- Stigma reduction
- Disclosure

Mobile Phone

- Salience/Triggers
- Fffort
- Just-in-time adaptability

Sensors

- Precision
- Objectivity (relative)

What is tech good – and less good at doing?

Good	Concerns						
Reach	Dehumanization						
Disclosure	Reliance						
Salience	Information Overload						
Analytics-Predict	Messy/unreliable data						
Personalization	Privacy						
Adaptation	Security						
Connectivity/Just-in-time	Maintenance						



Acceptability & Comfort

- Youth use technology and like it
- Youth prefer digital health connections for stigmatizing topics
- There is no digital divide by race, ethnicity or SES in youth
- The greatest digital divide is in older adults and lack applications in different languages



Reach / Connection



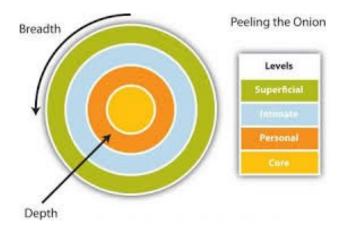
Cognitive Salience
Emotional Salience
Behavioral Salience
Environmental Salience
Social Salience
Object Salience



Disclosure

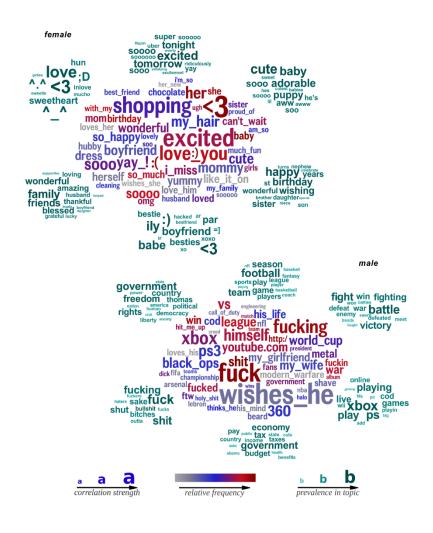
- Youth and adults disclose significantly more to digital platforms than in person.
- Digital mental health communication vs. in-person preferences moderated by condition (anxiety) and type of disclosure (stigmatizing)
- Youth prefer to talk about sensitive topics over text but inperson for less stigmatizing topics.

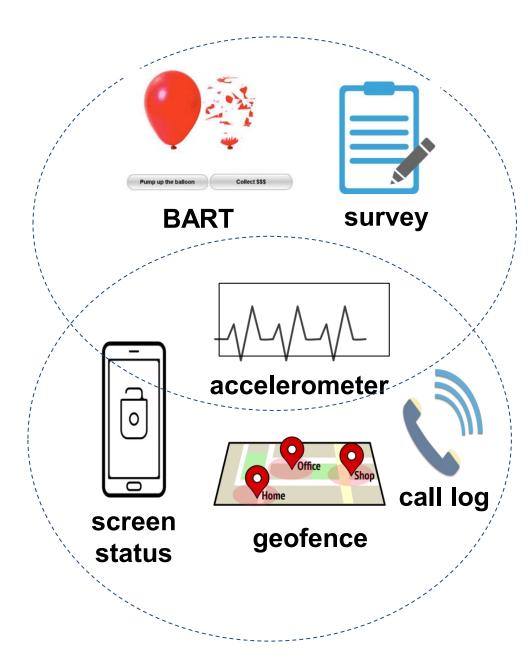
Social Penetration Theory





Passive & Active Data in the Real World





Passive & Active Data

BIS_Motor -	0.33	0.05	-0.15	-0.05	0.16	-0.10	-0.07	0.18	0.09	0.07	0.39	-0.08	-0.05	0.08	-0.09
BIS_Nonplanning -	0.23	-0.01	0.17	0.26	0.28	-0.08	0.02	0.02	-0.05	0.03	-0.14	-0.37	0.46	0.55	0.16
BIS_Attention -	-0.06	-0.11	0.02	0.09	-0.08	-0.26	-0.12	0.06	-0.20	-0.14	-0.17	-0.09	0.06	0.06	-0.05
BIS_Total -	0.23	-0.04	0.03	0.15	0.17	-0.20	-0.08	0.11	-0.08	-0.01	0.02	-0.26	0.24	0.34	0.02
UPPS_Urgency -	0.03	-0.28	0.14	0.21	0.04	-0.39	-0.20	0.20	0.07	-0.05	0.06	-0.27	0.05	0.20	-0.22
UPPS_Perseverance -	0.24	0.04	-0.20	0.01	-0.11	-0.02	-0.11	0.27	0.14	0.32	0.22	-0.31	0.32	0.50	0.05
UPPS_Premeditation -	0.03	-0.13	-0.15	-0.04	-0.34	-0.20	0.02	0.24	0.18	0.11	-0.00	-0.08	-0.07	0.13	-0.07
UPPS_Sensation -	0.48	0.37	-0.20	-0.04	0.29	0.05	0.04	0.10	0.06	0.13	0.32	0.43	-0.19	0.01	0.25
UPPS_Total -	0.32	0.02	-0.12	0.08	0.05	-0.21	-0.10	0.27	0.14	0.15	0.25	-0.02	-0.00	0.26	0.02
	battery_Ent -	battery_Freq -	battery_Mean -	battery_SD -	battery_Use -	call_Ent -	call_Freq -	call_Mean -	call_SD -	call_Use -	screen_Ent -	screen_Freq -	screen_Mean -	screen_SD -	screen_Use -

- 0.50

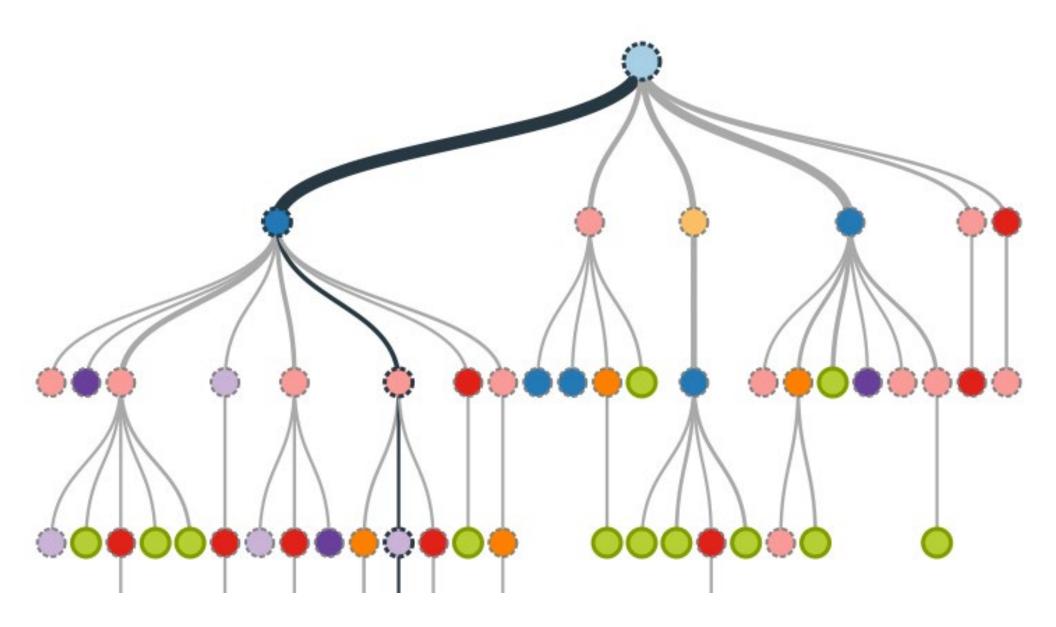
- 0.25

- 0.00

-0.25

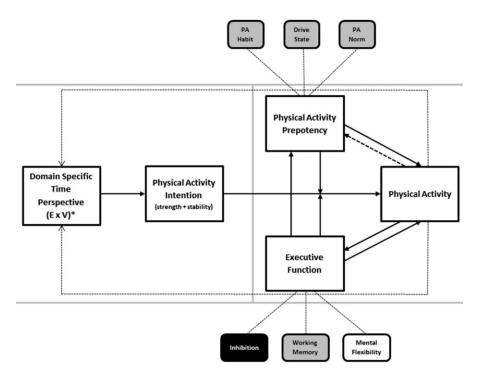
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Personalization

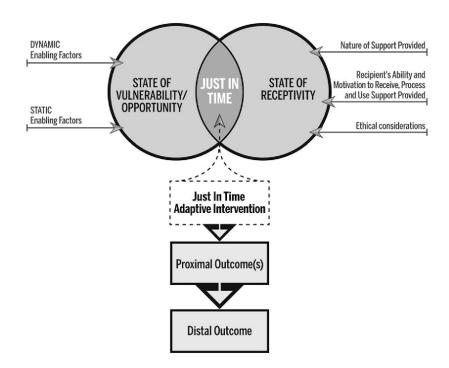




Mixed Just-in-Time Adaptive Models



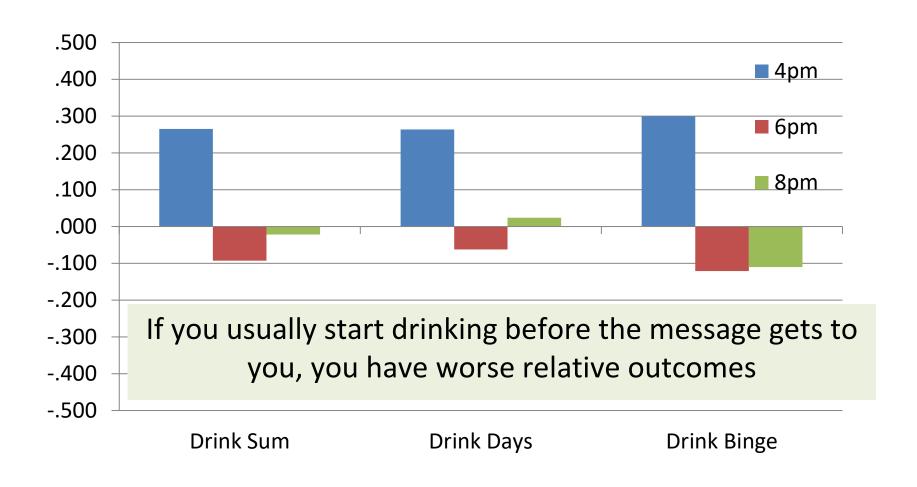
Self-Regulation Theory



Nahum-Shani, Hekler, Spruijt-Metz, 2015

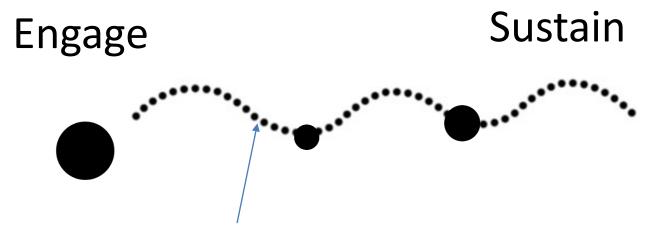


Message Timing and Drinking



Muench F., van Stolk-Cooke K, Kuerbis A, Stadler G, Baumel A, Shao S, et al. (2017). A Randomized Controlled Pilot Trial of Different Mobile Messaging Interventions for Problem Drinking Compared to Weekly Drink Tracking. PLoS ONE 12(2): e0167900. PMC5287456

Ongoing Connection

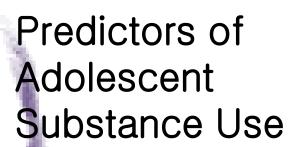


Micro interventions foster salience and timely support



Adolescent Developmental Needs

- Peer connection
- Independence
- Exploration
- Resilience/Confidence
- Identity formation
- Security



Expectancies and Motivations for Use

Availability
Access
Environment
Culture
Peers
Parents and Family
Alternate Activities
Mental Health / Resilience
Attitudes and beliefs
Personality
Temperament/Genetics

Social
Situational/Conformity
Experimentation
Enhancement
Coping

Technology Aligns with Developmental Reinforcers

- Social connections
- Entertainment
- Information-seeking
- Passing time
- Reinforcement
- Affective learning
- Mastery & Self-efficacy

c.f. Giovanelli A, Ozer EM, Dahl RE. Leveraging Technology to Improve Health in Adolescence: A Developmental Science Perspective. J Adolesc Health. 2020 Aug;67(2S):S7-S13



AYA Review References

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Pradhan AM, Park L, Shaya FT, Finkelstein J Consumer Health Information Technology in the Prevention of Substance Abuse: Scoping Review J Med Internet Res 2019;21(1):e11297

MacDougall, S., Jerrott, S., Clark, S., Campbell, L. A., Murphy, A., & Wozney, L. (2021). Text Message Interventions in Adolescent Mental Health and Addiction Services: Scoping Review. JMIR Mental Health, 8(1), e16508.

Broad Statements

- The largest literature on digital interventions for AYA is for nicotine and alcohol.
- The largest literature is for college age AYA.
- There is a heavy emphasis on prevention/early intervention in the computer/web literature while SMS, online social support, and mobile apps trend more severe.
- After the brief digital feedback literature, text messaging and general social support are the most studied mediums of mobile intervention.
- We need more research on digital interventions for more severe AYA SUD populations and for different substances.
- We need more research on caregiver and family based digital interventions.

Qualitative Research Findings with AYA

- Majority of AYA don't feel consequences of use until interferes with developmental milestones
- AYA get turned off by fear based messaging works for younger adolescents
- Believable and credible
 - Independence and resilience (Truth, ATI)
- Reflect their values and views about their own health and well-being
- Connection and peer support



Entertainment Serious Games (All)



About Us
Our Games
The Science
News & Events
Contact Us



Play2Prevent

Serious games, defined as games with a primary purpose other than pure entertainment to educate, communicate, and improve health.*

Both active and passive mechanisms

Reviews suggested that serious games have small positive effects on health-related behaviors and their determinants but that the effect is largely fleeting.



Stealth Skill Building

Night of the Gummies Flavor Monsters DXM Labworks Tunnel Tail

*Use metaphors that build on key prevention concepts to reduce peer pressure









Digital Normative Feedback and Brief Personalized Feedback (Primary & Secondary)







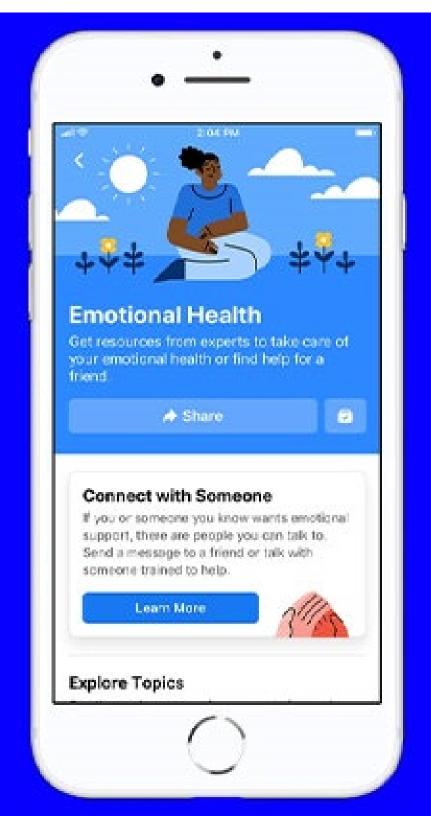
Normative Feedback, Personalized Feedback, Costs/Consequences, Reduction Strategies

- Increase problem awareness
- Primarily with college students
- Results are mixed and depend on numerous factors
- Reviews of social norms feedback reveal little effect
- Overall, personalized may be better than normative and normative should be tailored to the experiences.
- Targeted (e.g. specific event) may be better
- In-lab appears better than remote
- Overall positive effects fleeting



Social Connection Interventions (Secondary & Tertiary)

- Multiple Mediums with emphasis on social media sites, SMS and app based group connection.
- Peers and interactive social elements
- Overall efficacy of interventions that use various social connection interventions promising, but varies among target and program.
- Peer Recovery Support and helplines.
- Real world, real world!
- It is easy anyone can do it.



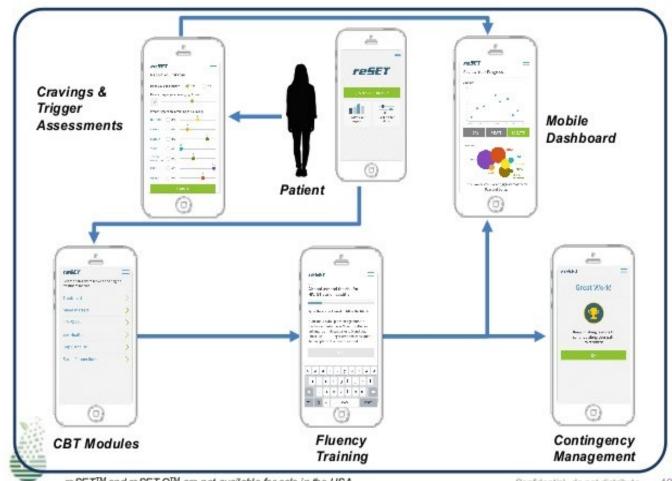


Skills Training & Role Play (Web & Apps)

- CBT
- Skills training
- Role Play
- Contingency Management
- *Mostly +21

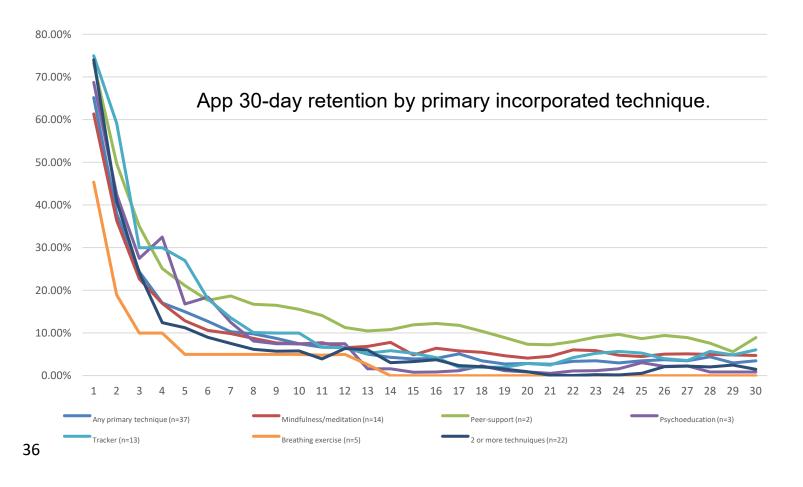
(CBT4CBT, Carroll et al; Check-up and choices, Hester et al: TES/PEAR, Marsch et al.; Dynamicare, Gastfriend et al. and many more! but few <25.

reSETTM: Patient-facing features





Sustained Engagement is a Problem



Closed systems require effort

Baumel, A, **Muench, F**, Edan, S, Kane, JM. (2019). Objective user engagement with mental health apps: systematic search and panel-based usage analysis. Journal of Medical Internet research, 21(9), e14567



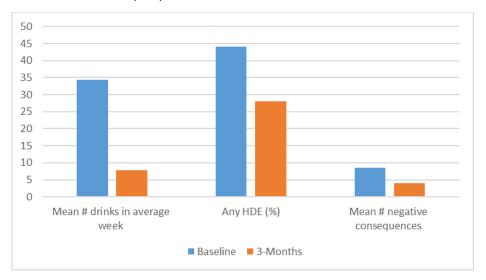
AYA Text Messaging

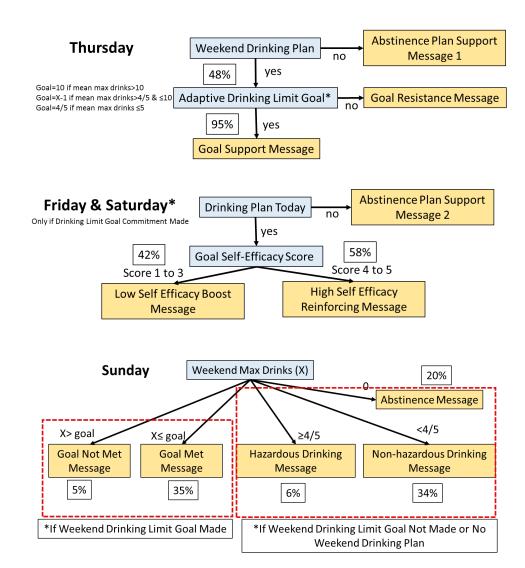
- Best outcomes for binge drinking
- Mixed outcomes other but overall positive
- Focus on commitment and goals
- Proactive = high engagement
- Just-in-time features highlighted

*Refer to Brian Suffoletto's work!

TRAC II Study

- April to June, 2016
- 1 urban ED
- Screened n=143 YAs 18-25 years
 - AUDIT-C score >3 for women or >4 for men
- Enrolled n=50 in 2-week SMS Run-In
 - SMS Assessments only
- Responded to at least 50% SMS queries & opted-in (n=38)
 - 4-weeks (n=9)
 - 8-weeks (n=10)
 - 12-weeks (n=10)
 - >12-weeks (n=9)





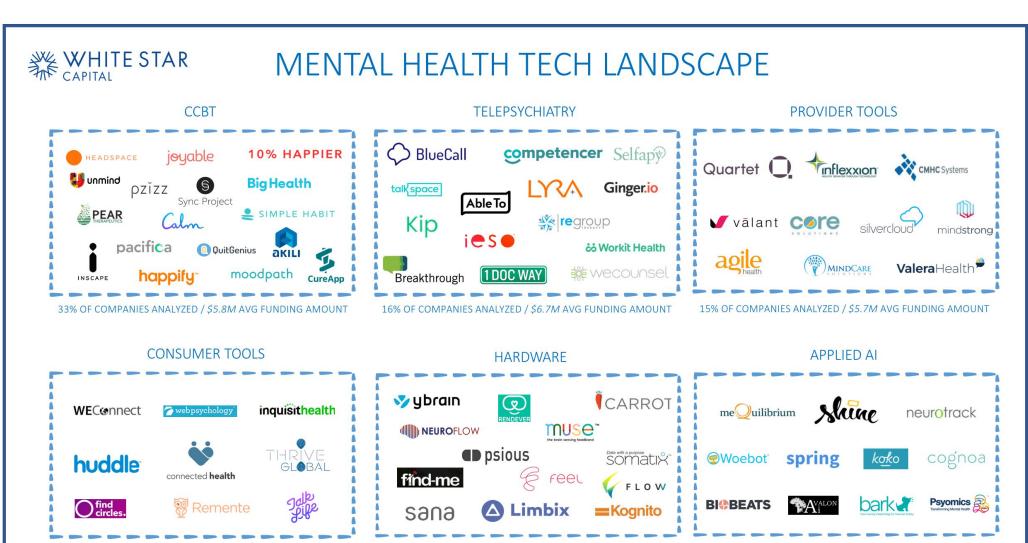


Conversational Agents / Al

- Artificial intelligence (AI) conversational agents have the ability to offer contextual and always-available support.
 - Include text based conversational agents (chatbots) and virtual avatars (animation/VR).
- Studies have shown feasibility and overall positive for mental health improvements in mental health in adolescents and adults.
- Addiction studies primarily smoking with good feasibility but limited overall literature base.
- *Adolescents like conversational agents they add distance and can be a great initial strategy for engagement to triage care and 24-7 care.

One note...

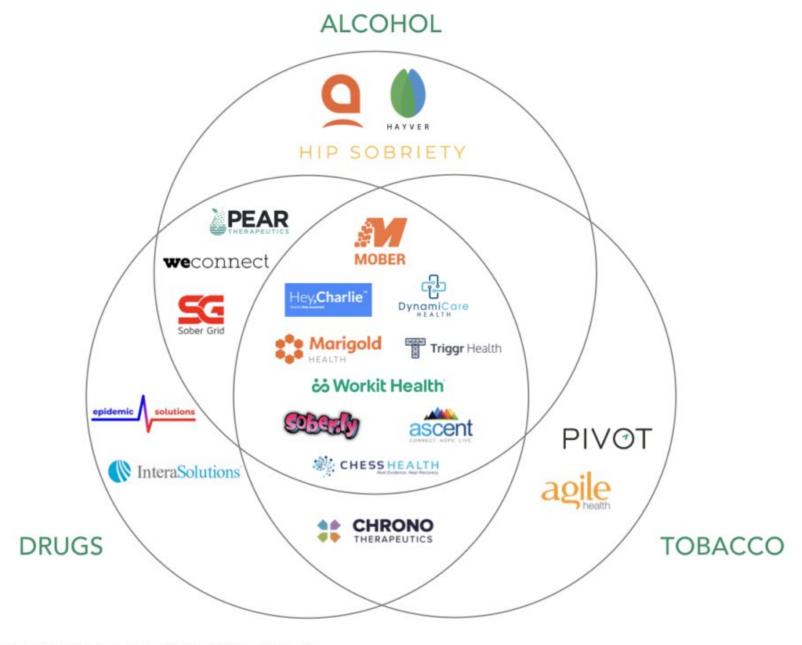
I did not talk about videochat because it is just general therapy now For Profit Digital Behavioral Health Companies Targeting or Allowing for Interaction with Teens and Families





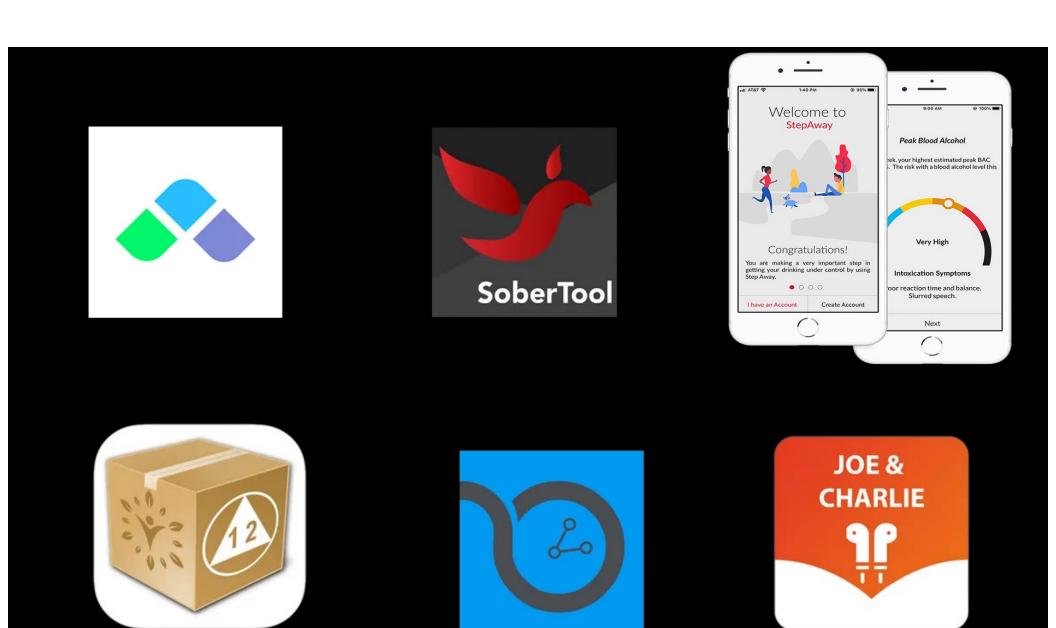
DIGITAL ADDICTION SOLUTION LANDSCAPE





Note: Includes companies intended to treat people with a diagnosed SUD as well companies assisting people who want to minimize their use of substances but do not have a diagnosis; Excludes medication adherence, mental health, and pain management companies whose primary focus is not addiction

Self-Guided Apps



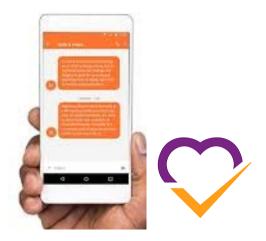
Traditional Treatment Centers are Embracing Digital (Hazeldon, Caron, Wellbridge, etc)



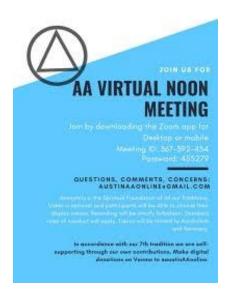
Non-Profits, States and Mutual Support Groups Are Embracing and Leveraging Technology



Text JOIN to 55753







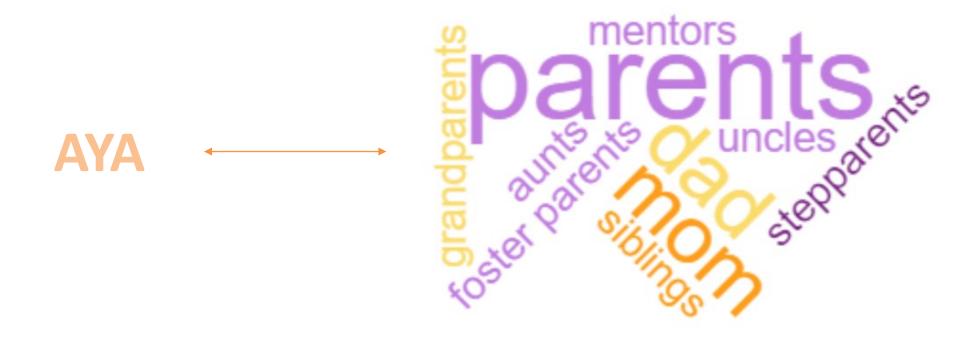








Family and Caregiver Treatments





Barriers to Family Engagement

A review of the barriers to family and concerned significant other focused care highlights the opportunity for digital therapies:

- Trouble with travel, **coordinating schedules**, insufficient time, lack of resources, location barriers etc.
- Stigma, family blaming, unengaged family members, prior experiences, etc.
- Organizational expertise, scheduling, billing that does not reward family engagement, etc.
- Alanon philosophy, ignoring relevance of concerned other.
- Ignoring treating the family as the unit of intervention.



Parent and Family Training

- Limited empirical literature for addiction prevention and SUD digital interventions for parents and families.
- Large literature on online digital parent training for childhood disruptive disorders.
 - Overall effective for both self-care and child symptoms
- Telehealth / video chat literature more prevalent for parent and family mental health care.
- Provider and peer phone based interventions effective
- Emerging literature on text messaging to increase parental self-efficacy and care in mental health.
- Large window of opportunity!

Family / Caregiver Digital Intervention References

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Consumer Programs (Prevention & Intervention)







SMART Recovery Family & Friends Help For You and Your Loved Ones

Are you looking for resources to help you support someon addiction? Is someone else's addiction negatively affecting seeking an alternative to tough love? We provide effective both you and your loved one. Our methods are based on t and CRAFT Therapy (Community Reinforcement & Family

Lesson 8: How do I allow natural consequences for my child?





Partnership Consumer Programs













Helpline

Bilingual specialists provide support, guidance and resources

Personaliz ed plan for your family

Drugfree.org

Science-based information and resources to help you and your family

Guides, e-books, videos and more

Help & Hope by Text

Personalized and supportive messages sent straight to your mobile device

E-Learning

Self-paced course addressing teen substance use

10 lessons strengthen parenting skills and offer tools and strategies

Peer Parent Coaching

Work one-onone with a peer parent coach who has "been there" and can relate to your family's experience with substance use

Online Support Community

Live online gatherings hosted by Peer Parent Coaches

Opportunity to find support and connection

*Note: Does not include our provider training technical assistance programming for families



The Support Journey

Multi-channel Engagement

Preferred Mode of Communication (Phone, video-chat, SMS, Chat, Facebook, Whats App)

Assess

Curate (Feedback)

Synchronous & Asynchronous Automated & Human Support









Adapt

Adapt through ongoing

assessment that

changes the program

with the changing

needs



Localize



Personalize to each person's

feedback



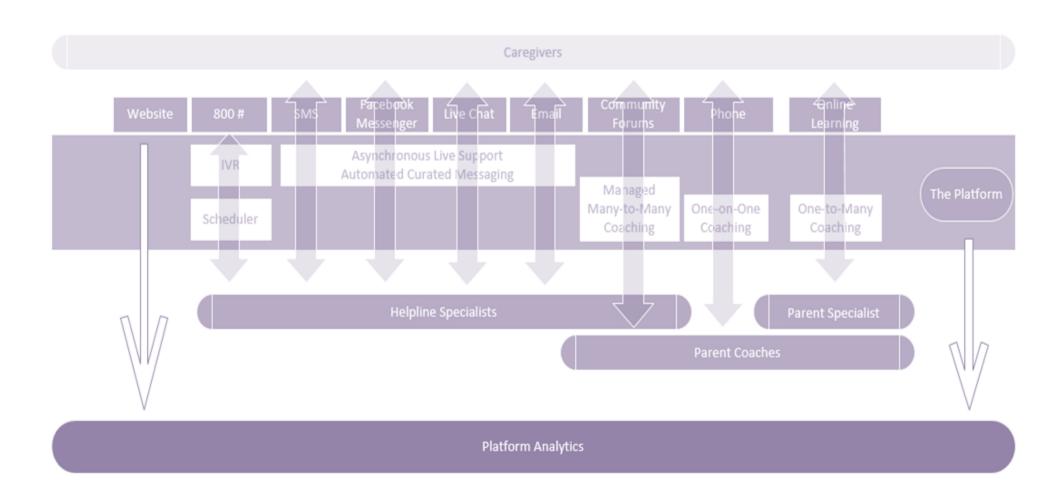


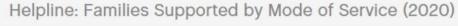


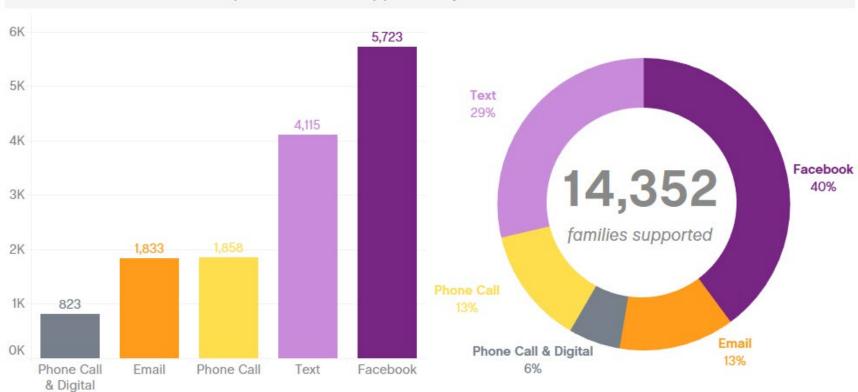


Omni-Channel Communication

Partnership Helpline Example





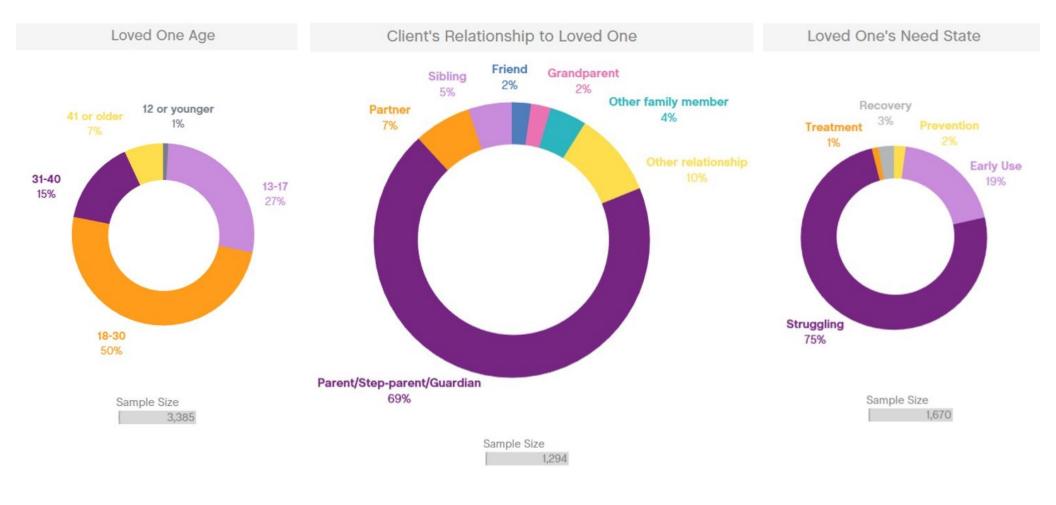


Families supported data include all families who reached out to the helpline in 2020. They are split up by mode of service: Facebook, Text, Phone Call, Email, and Phone Call & Digital. These categories are the methods through which families can access the helpline. Families who enter the helpline through a digital mode of service (i.e., Facebook, Email, or Text) and schedule at least one phone call with the helpline are included in the Phone Call & Digital category. This category is only effective beginning in May 2020.

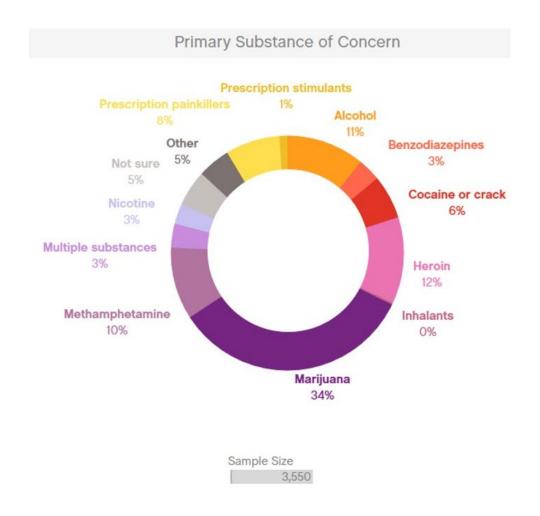
2020 Helpline Stats (Sample Only)

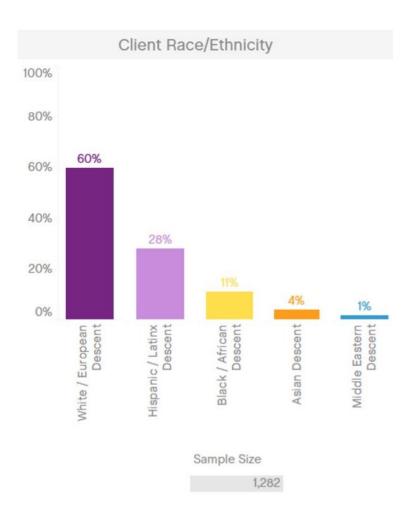


2020 Helpline Stats (Sample Only)



2020 Helpline Stats (Sample Only)





Help & Hope Mobile Intervention





 Personalized feedback and mobile messaging from prevention to recovery (some in beta)

Text "JOIN" to 55753 to start receiving messages

The helpline received over

100,000

digital messages in 2020.

The helpline replied to clients' inital contact in under

1 hour

on average in 2020.

27%

of clients receiving automated messages texted "chat" to connect with a specialist. 39%

of families reported re-engaging with the Partnership after contacting the helpline in 2020.

Suggestions for Integration into Practice

- Review the literature
- Then, question the literature
- Then, try it yourself and don't cheat
- Then, try it with the target population
- Then try it with your population when nobody cares about it happening (e.g. no monitoring or incentives).

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