# Focus on Virtual Assessment and Treatment for Depressed and Suicidal Youth



 Source
 Bocks, Intellectual Provide and Provi

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# Agenda

- 1. Overview of Virtual Approaches
- 2. Evidence for Virtual Approaches
- 3. Clinical Considerations
- 4. Measurement-Based Care in Virtual Practice





- Drastic changes in a short period of time
- Providers and patients who were not engaging in virtual assessment and treatment before are now
- Long-term impact of pandemic on youth services unclear.









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- \$ billions invested in studying evidence-based treatment
- Treatment works
- Yet MOST are not in standard clinical practice
- Demand > Supply



Martin et al 2020; Fonagy et al 2017; Flaum 201

















## Telehealth for Youth: What Do We Know?

• Yields valid and reliable diagnoses



- Feasible for a range of childhood disorders
   (autism, PTSD, ADHD, psychosis, eating disorders, depression...)
- As effective as the same care delivered in person (with low ercost and higher satisfaction)
- Virtual CBT (clinician-delivered) has biggest effect size



### Online Interventions for Youth Depression: What Do We know?

Meta-analyses of online treatments for youth depression and anxiety • 34 controlled studies (20 anxiety; 10 depression; 4 both)

- <50% had any clinician contact</li>
- ~60% program completion rate overall

- Findings:
  Small overall treatment effect (g=0.45; > waitlist and attention control)
  - CBT > Cognitive Bias Modification, Attention Bias Modification & Other
     Equally effective for clinical depression and anxiety
  - Less effective for subclinical symptoms
  - Mixed findings on age differences

  - Enhanced outcomes with parental involvement
     Enhanced outcomes with therapist support
     More effective (g=0.66 vsface to face g=0.72) Better adherence

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### Online Interventions for Youth Depression: What Do We know?

- Online CBT programs for youth depression and anxiety:
- CATCH-IT (Ip et al 2016)
- SPARX (Merry et al 2012)
- Stressbusters (Wright et al 2017)
- The Journey (Stasiak et al 2014)
- BRAVE-ONLINE (Conaughton et al 2017)
- Bip-OCD (Lenhard et al 2017)
- . Cool Teens (Wetrich et al 2012)
- Think Feel Do (Stallard et al 2011)
- MoodGym (Twomey & O'Reilly 2016)

### Other online programs:

- BiteBack (Positive psychology; Maricavasagar et al 2014)
- PratenOnline (Solution-Focused Brief Treatment; Kramer et al 2014)



### Virtual Intervention for Suicidal Youth: What Do We Know?

- Very little! Concerns re: risk
   Suicidal youth often excluded from trials
- E-DASH (Sayal et al 2019) phone or video problem solving / CBT Small controlled trial (age 16-30) who recently self-harmed Low retention in treatment and follow-up Stopped trial early
- EMPATHY open trial in schools (Silverstone et al 2015)
   Guided-internetbased CBT
   7<sup>th</sup> & 8<sup>th</sup> graders
   Pre-post improvement in depression and suicidal ideation
  - Perry et al 2019

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### "Webside Manners"

- Open body posture

Roth et al 2019

- Managing pauses and turn-taking
- Nodding!
- Distance from camera approximates personal space
- Hand gestures (small;thumbsup,waving)replace physical and verbal gestures (i.e., less "yes, uh-huh")
- Consider your physical space (privacy, professionalism, light)
- Eye contact is critical
- Monitor your own image (picture in picture)

### Telehealth Considerations: Privacy and Security

- Password protect your device
- · Limit use of devices to professional activities
- Safe storage of devices when not in use
- · Disposal of "records"
- HIPAA-compliant platform



McGinn et al 2019 Adamas et al 2018

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### Telehealth Risk Management



Risk management guidelines:

- Discuss at informed consent
- Obtain contact # and physical location at start of each contact
- Review and confirm safetyplan
- Create emergencyplan if disconnected / safety concerns protocol for contacting collaterals (secondary, tertiary contacts) emergencyservices
- Incorporate parents/guardians as appropriate
- Timeframe for asynchronous communications





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### Safety Planning

Safety plan is standard of care for at-risk youth

- A structured sequential plan for coping with suicidal thoughts / urges
- Tailor made for the youth; collaboratively created
- An agreement to defer acting on suicidal thoughts / urges for a specified period in order to try other potential solutions

Brent et al 201



- Safety plan is readily available in real time
- · Could be used across levels of care
- App serves as guide for clinician in building an effective safety plan









### What Do Suicidal Teens Want In An App?

- Security and discretion
- Personalization
- Suggestions for useful interventions
- Multiple methods for coping
- · Daily reminders to use the app so that when a crisis
- comes, they are used to using it

Brite is the only app for suicidal teens that is personalized, multi-faceted, has a safety plan, and has been tested in a controlled trial to examine suicide attempts

Kennard et al 2015

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### **BRITE Features**

### Personalized Safety Plan

Routes adolescent to possible interventions (all customizable):

- Savor
- Distract
- Self-Soothe
- Reasons for living
- Reaching out to contacts

### Highlights:

- Badges as rewards
- Substantial user-generated content
- Clinician Dashboard















The Interver	ntions:	Treatment as l	Usual (TAU) and ASAP		
TALL		Inpatient Hospitalization Core Content			
		Inpatient programming Standard safety plan Standard aftercare			
ASAP	Module	Title	Core Content		
	1	Adherence & Safety	<ul> <li>Adherence (MI)</li> <li>Psychoeducation</li> <li>Safety planning informed by chain analysis</li> </ul>		
Motivational Interviewing (MI)	2	Affect Protection: Reasons for Living	Reasons for living     Mood monitoring     Pleasant activities     Populate BRITE app		
Framew Ork	3	Affect Protection: Savoring	Savoring & switching     Distress tolerance		
	4	Consolidation (pre-/post discharge)	Review skills     Plantroubleshoot BRITE app use     Bridging calls     Case management     Liaison with aftercare		

Suicide Outcomes: 6 months* since intervention					
		TAU	ASAP	Р	
	Any suicidality	79.3%	67.7%	0.49	
	Suicidal ideation	75.9%	67.7%	0.49	
	Suicide related behavior	10.3%	12.9%	>.99	
	Suicide attempt**	28.6%	10.3%	0.08	
*Data Aggregated from Week 4, 12, and 24 Interview s ** This excludes the 3 participants w ho were still in the hospital at the time of attempt					









### Future Directions for ASAP and BRITE

- Currently conducting a large clinical trial 2 sites, N=240
- We aim to identify which aspects of the intervention (ASAP, Brite, or the combination) is most associated with prevention of future suicide attempts







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provides appointment reminders

ein, Suffoletto - NIMH

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# Why Use Measurement-Based Care? Effectiveness Research supports <u>affectiveness</u> of MBC in behavioral healthcare: Enhanced treatment outcomes Medication and therapy have faster and more robust effects Across patient age, disorder type, and provider type Meta-analysis of over 50 controlled studies g = 0.5 for patients adhering to treatment g = 0.3 for all patients \*\*Largest effect size for studies including: Outpatient, patient self-rated symptoms, & feedback to provider over time in a structured manner

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### Why Use Measurement-Based Care? Acceptability & Feasibility

### For PATIENTS, MBC:

Promotes illness know ledge and symptom self-management

- Improves adherence to tx plan Empow ers patients to be more involved w ith clinical decision making
- Provides evidence that provider is taking their concerns seriously Enhances collaboration and

coordination across providers

Enables evaluation of programming





Harding et al 2011 Fortney et al 2017 Konnedy Fort



Complements clinical judgment (clinical judgment alone detects deterioration for ~20% of patients)

Prompts providers to change course of tx w hen patients are not improving

Harding et al 2011 Fortney et al 2017








### What Is Needed for MBC to be Effective?

### Measurement

- Reliable and valid
- Sensitive to change
- Diagnostic / symptom-specificity

### Implementation

- <u>Frequent</u> measurement and feedback to provider; screening alone insufficient to improve outcomes
- <u>Timely</u> measurement and feedback to provider (concurrent with clinical encounter)
- Clinically actionable feedback

Fortney et al 2017 Kennedy Forum Brief, 20

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### Conclusions

Virtual assessment and treatment:

- Valid & reliable assessment
- High provider and patient satisfaction
- Feasible
- · As effective as same care delivered in person
- · However, research remains limited:

Need to know for whom & under which conditions

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### **Future Directions**

- Development / testing of hybrid models
- Gaming
- Virtual reality
- · Wearables / real-time monitoring
- Passive sensing



### Resources

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- American Psychiatric Association
- American Telemedicine Association
- · National Association of Social Workers and Association of Social Work Boards
- National Board for Certified Counselors

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