

Examining the applicability of the screening, brief intervention, and referral to treatment (SBIRT) model to mental health services delivery

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U.S. Public Health Challenge

- The integration of behavioral health and primary care services for patients with mental health problems is a pressing challenge for modern health care systems
- This presentation will explore the
 - Evidence base for the potential application of SBIRT-based principles to the delivery of mental health services in primary care settings
 - Integration into primary care
 - Implementation considerations and implications for mental health treatment

Prevalence of Mental Health Problems in U.S.

- Lifetime prevalence of major depressive disorder --16.6%
- Lifetime prevalence of panic disorder, generalized anxiety disorder, post-traumatic stress disorder (PTSD), and social phobia ranges from 4.7 to 12.1%⁶
- In 2010, 45.9 million U.S. adults had a diagnosable condition
 - 39.2% received treatment
 - 19% reported unmet treatment needs ^{10, 11}
- U.S. adults with mental health conditions exhibit poorer physical health and require greater healthcare utilization compared with the general population²⁻⁵

Opportunities in Primary Care Settings

Patients often present their symptoms to their primary care providers rather than to mental health specialists ^{12, 13}.

Provider barriers 14-17:

- Lack of time
- Cost/inadequate insurance coverage
- Lack of access to specialist providers/lack of coordination between primary and specialty care
- Lack of knowledge about where to go for services
- Patient resistance/perceived stigma
- Failure to schedule or show up for appointments

Patient barriers ^{12,20}

- Do not perceive a need for treatment
- Resistance
- Failure to schedule or show up for appointments
- Cost, Lack of time
- Perceived stigma
- Lack of knowledge about where to go for services

Could SBIRT be extended to encompass mental health services delivery?

- SBIRT model used successfully for treating alcohol and other substance use disorders ²¹⁻²⁷
 - Screening
 - Brief Intervention
 - Brief Treatment
 - Referral to Treatment
- To date, current research has not directly investigated the applicability of a comprehensive SBIRT model for the treatment of mental health disorders
- However, there is evidence to suggest that some components of SBIRT could be successfully applied/adapted to improve diagnosis and treatment delivery for mental health problems

What is the evidence for SBIRT for mental health problems?

Methods: Search Criteria

- Articles published in English between January 2000 and December 2011
- Database: PubMed/MEDLINE
- Combinations of the following search terms were used:
- PTSD
- Depression
- Anxiety
- Mental health disorder

and

- Brief screening
- Brief intervention
- Brief treatment
- Treatment referral

and/or

- Primary care
- Collaborative care
- Integrative care

Methods: Article Selection Criteria

Abstracts were collected and catalogued by topic area, and the full-text articles of relevant abstracts were reviewed

Articles **included** in this review relate to the effectiveness of the following for mental health screening/treatment in primary care settings:

- Brief screening instruments
- Brief interventions
- Brief treatments
- Referral to specialty care
- Treatment models

Articles **excluded** from this review include:

- Drug studies
- Case studies
- Studies involving animal models
- Studies examining neurobiological function
- Studies examining the prevalence or symptoms of PTSD, depression, or anxiety

Screening

- Screening allows providers to identify symptoms and initiate dialogue
- The United States Preventive Services Task Force currently recommends:
 - Routine depression screening for adults in healthcare settings that can support effective diagnosis, treatment, and followup³⁰
 - Has not issued any recommendations for screening of anxiety or other mental health disorders
- Numerous instruments developed for mental health in primary care settings
- Many have good reliability, sensitivity, and utility

Brief, Self-Administered Screening Assessments:

Depression (10 min or less, not audience specific)

Name of instrument	Number of items	Administration time (min.)	Timeframe
Beck Depression Inventory®-II (BDI-II)	21	5 to 10	Past 2 weeks
BDI-Primary Care (BDI-PC)	7	Under 5	Past 2 weeks
Center for Epidemiologic Studies Depression Scale (CES-D)	20	5 to 10	Past week
Major Depression Inventory (MDI)	10	5 to 10	Past 2 weeks
Patient Health Questionnaire, 2, 4, and 9-item versions (PHQ-2, 4, 9)	2, 4, or 9	Under 5	Past 2 weeks
Quick Inventory of Depressive Symptomatology (QIDS)	16	5 to 10	Past week
World Health Organization-5 Well-being Index (WHO-5)	5	Under 5	Past 2 weeks
Zung Self-Rating Depression Scale	20	5 to 10	Past several days

Brief, Self-Administered Screening Assessments: Anxiety, including PTSD

Name of instrument	Number of items	Administration time (min.)	Timeframe
Anxiety and Depression Detector	5	Under 5	Past 3 months
Beck Anxiety Inventory (BAI)	21	5 to 10	Past week
Breslau's 7-item screen (PTSD)	7	5	Past month
Generalized Anxiety Disorder 2- and 7-item scales (GAD-2, 7)	2 or 7	Under 5	Past 2 weeks
Hospital Anxiety and Depression Scale (HADS)	14	5 to 10	Past week
My Mood Monitor-3 (M-3) Checklist	27	5 to 10	Past 2 weeks
Primary Care PTSD Screen (PC-PTSD)	4	Under 5	Lifetime

Brief Intervention (BI) Substance Abuse and Mental Health

Substance Abuse

- Delivered by behavioral health professional
- Delivered to individuals with mild/moderate symptoms
- Include a few short sessions (1-5), each <1 hour in length
- Frequently apply:
 - Motivational interviewing (MI) techniques
 - Stages of change theory

Mental Health

- Delivered by licensed professionals
- Individuals with mild/moderate symptoms less likely to seek intensive treatment
- Often involve longer/more intensive sessions than BI for substance abuse
- Applying MI and CBT approach is common

Brief Intervention (BI) Mental Health Summary

- Precise definition of a BI and empirical evidence supporting the application of BI to mental health treatment is limited and largely inconclusive
- BI for mental health may be effective for:
 - Psychoeducation³⁸
 - Addressing basic symptoms of depression and anxiety^{34,35}
 - Improving patient adherence to/engagement in specialty care³⁶
- BI may be ineffective/harmful if used for PTSD, or when broadly used to treat all victims of traumatic events³⁹⁻⁴⁶, but may be an effective preventive intervention for secondary trauma victims (e.g., emergency services personnel)
- Additional research is needed

Brief Treatment Substance Abuse and Mental Health

Substance Abuse

- Intended for patients who exhibit some symptoms of substance abuse but do not have symptoms severe enough to qualify for specialized treatment

Mental Health

- May be effective for treating patients with mild/moderate depression and anxiety disorders^{48, 49}.
- Sessions longer and more rigorous than BI but less intensive than treatment in specialty care
 - Treatment effects may be smaller than lengthier treatments⁴⁸
 - CBT for anxiety
 comparable effects for
 both brief and longer
 treatments

Brief Treatment Evidence Base for Mental Health

- CBT, bibliotherapy, counseling, and problem-solving therapy are all ay be effective in primary care settings for treating depression and anxiety disorders^{48, 49}.
 - 6-session CBT intervention for panic disorder⁵⁰
 - Coordinated Anxiety Learning and Management (CALM) model⁵¹
- Computer/Web-based therapies can effectively deliver or facilitate delivery of mental health treatment for patients outside of specialty care, especially for patients with mild/moderate symptoms^{49, 52, 53}
 - Randomized controlled trial of 8-session computerized CBT program administered in general practice⁵⁴
 - Therapist-guided Web-based CBT program designed to treat multiple mental health problems led to significant improvements in both 8- and 5-session formats

Brief Treatment Mental Health Summary

- Stronger empirical support for effectiveness of primary care-based brief treatments for mental health problems than for BI
- However, research surrounding brief treatments for PTSD and acute traumatic stress is mixed
- A brief treatment approach may not be effective for all patients or for all disorders
- Additional research is needed

Referral to Treatment Substance Abuse and Mental Health

Identifying and assisting patients who require referral to specialty care is integral to the SBIRT process

Substance Abuse

 Treatment referrals are made for patients with moderate/severe symptoms who require more extensive treatment than can be offered through BI or brief treatments

Mental Health

- Individuals with more severe symptoms may also be those most reluctant to seek mental health treatment^{66, 67}
- Physician referral can facilitate mental health services utilization⁶²
- Patient engagement in mental health referrals is generally low

Referral to Treatment Mental Health Summary

- BI incorporating motivational interviewing techniques may improve patient follow up and engagement in mental health treatment referrals³⁶
- Many factors influence whether a physician makes a referral to specialty treatment^{14, 63}, including:
 - Physician confidence
 - Physician familiarity with/access to mental health specialists
 - Physicians' attitudes
 - Patients' perceived treatment preferences
- Additional work is needed to identify the factors that facilitate or inhibit patient participation in mental health care

Integration of primary and behavioral health care services

- Coordination between primary and mental health care services is needed
- May require the establishment of new linkages between healthcare systems.
- Several collaborative care models have been developed that incorporate components of SBIRT
- Trials of these models show^{50, 51, 68-70}
 - reduced symptom severity
 - improved remission rates
 - improved case management
 - Increased patient satisfaction
 - Improved communication between primary and mental health care providers

Implementation Considerations

- Optimal methods for service delivery
- Amount of training and support required for service providers
- Patient and provider acceptance
- Quality and type of screening instruments, interventions, and treatment protocols
- Degree of mental health specialist involvement or oversight
- Target patient populations
- Integration into existing health care systems
- Treatment cost
- Sustainability

Implications for behavioral health

- Many important questions remain and future research is needed
 - Assess whether and how best to use an SBIRT approach to identify and manage patients with sub threshold symptoms of MH problems
 - Asses how to manage patients with co-morbidity
- Research suggests SBIRT MH differs from SBIRT SA but may be successfully adapted
- Many effective, existing collaborative care models already incorporate SBIRT-like features
- Additional evaluation of these existing models and the components that have the greatest impact on patient outcomes may provide insight into how SBIRT-based approaches could be adapted successfully to mental health services delivery

Thank you!