SBIRT - Now More Than Ever!

















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Former Tenured Professor of Family Medicine University of Wisconsin (1990-2017)

Former Senior Medical Director for Population Health Management ConcertoHealth (2017-2020)

Board Member, Community Health Worker Coalition for Migrants and Refugees (www.chwcoalition.org)





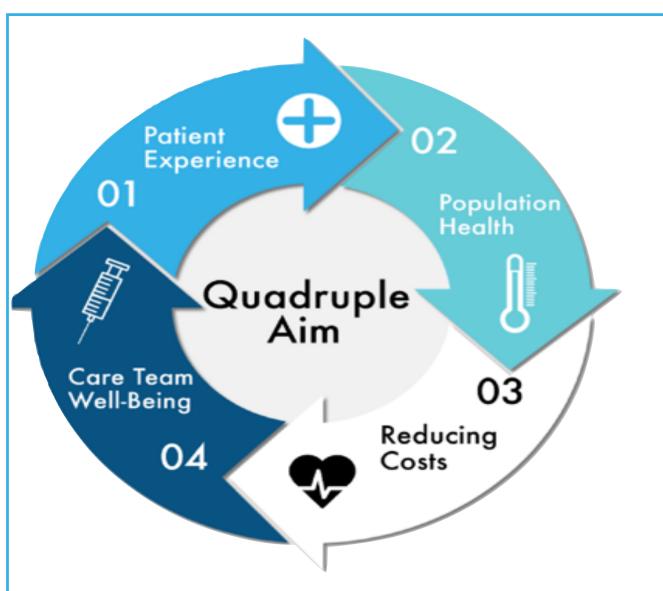
Learning Goal

You will be equipped and motivated to advocate that general healthcare leaders implement SBIRT*

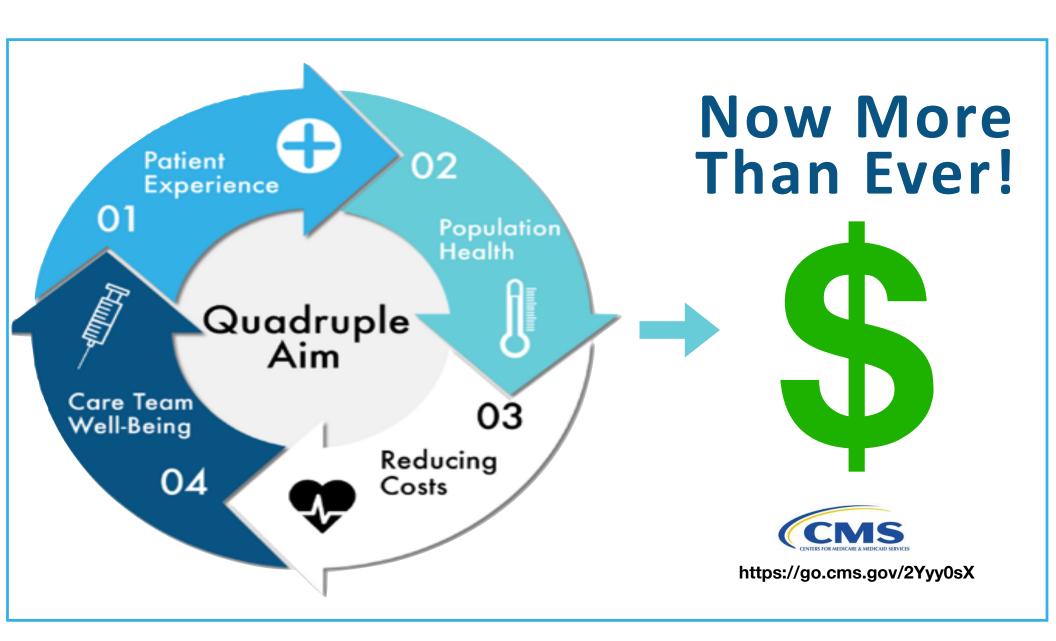
- * With two twists:
 - An expanded SBIRT model –
 Behavioral Screening and Intervention (BSI)
 - 2. Delivered by newly hired Health Coaches

- The quadruple aim
- The scope of Behavioral Health
- The problem
- What works Behavioral Screening and Intervention
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Behavioral Health

Mental Health & Substance Use Disorders

Unhealthy and Risky Behaviors

Non-Adherence to Treatment Regimens

CAD, CKD, COPD, DM, HF, HTN,

Anxiety & Depression
PTSD
SPMI - Bipolar Dz, Psychosis
Alcohol/Drug Disorders

Smoking
Poor diet
Physical inactivity
Unhealthy substance use

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Anxiety Disorders

- For patients with COPD, anxiety is associated with 40% more exacerbations
- Meta-analysis of 20 studies: anxiety is associated with a
 - 26% increase in Coronary Artery Disease (CAD)
 - 43% increase in death from CAD
- For patients with heart failure, anxiety is associated with more
 - medication non-adherence

 - ED visits

- hospitalizations
 - deaths

Eisner, Thorax, 2010; El-Gabalawy, General Hospital Psychiatry, 2011; Roest, J Amer Coll Card, 2010; DeJong, Heart Lung, 2011

Depression

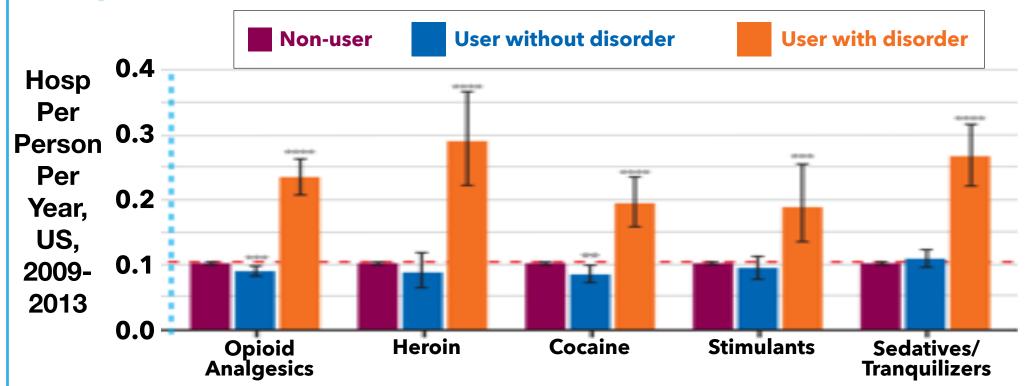
- ≥69-year-old men living at home:
 ↑ 22% in hospital admissions, ↑65% in hospital days
- 160,000 admissions for CHF, MI & pneumonia in 11 healthcare systems:
 † 40% in 30-day readmissions
- 1,418 Boston hospital inpatients



 64% increased risk of revision for hip replacement surgery (Largest risk factor of 29 conditions studied)

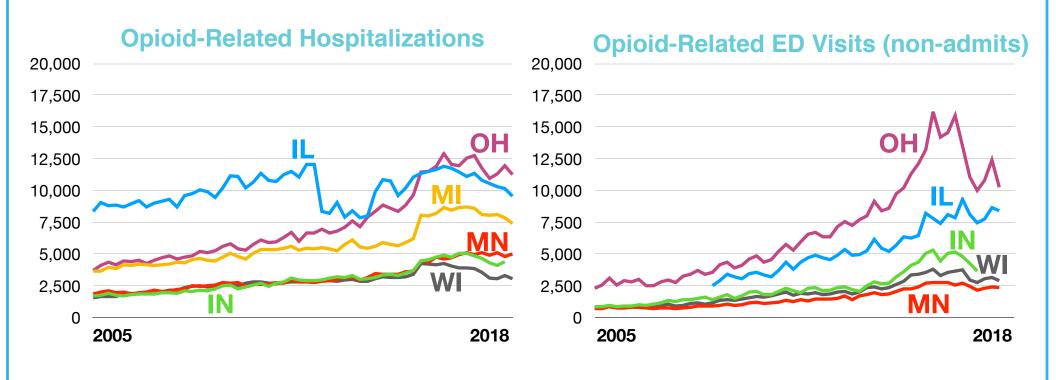
Prina, CMAJ, 2013; Ahmedani, Psychiatric Services, 2015; Cancino, Journal of Hospital Medicine, 2014; Bozic, Clinical Orthopedics and Related Research, 2014

Drug Use Disorder



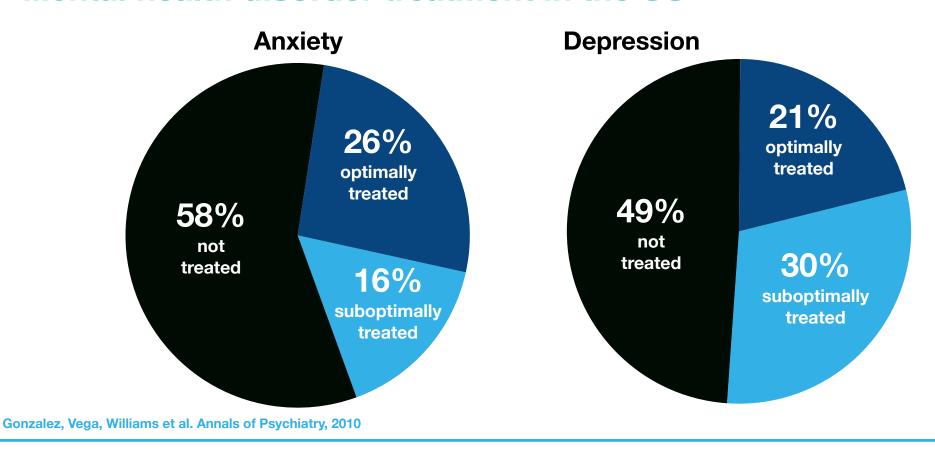
Gryczynski, Health Affairs, 2016 from National Survey on Drug Use and Health, 2009-2013

Per 100,000 Population

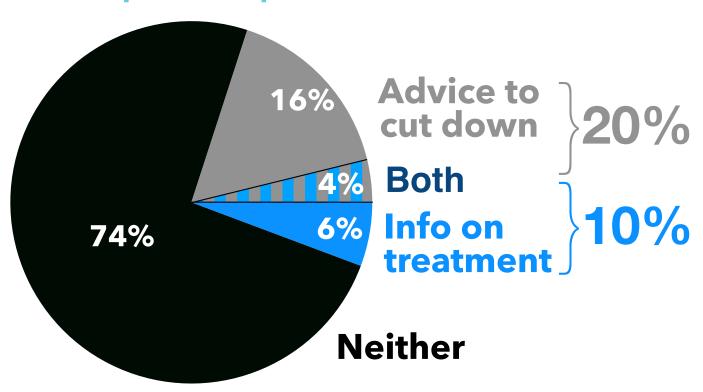


https://www.hcup-us.ahrq.gov/faststats/

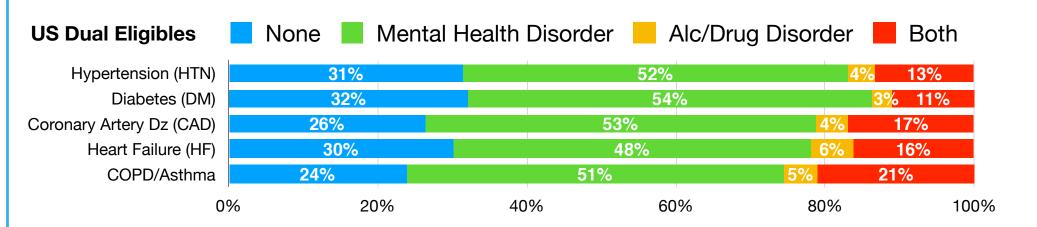
Mental health disorder treatment in the US



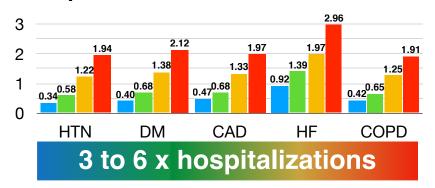
Of 1,358 alcohol dependent patients across the US in 2013



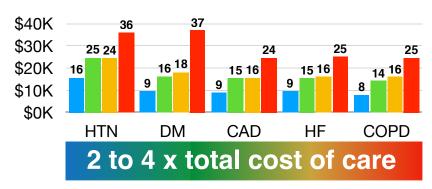
Glass, Rohnert & Brown, JGIM, 2016, with data from the 2013 National Survey on Drug Use and Health



Hospitalizations Per Patient Per Year

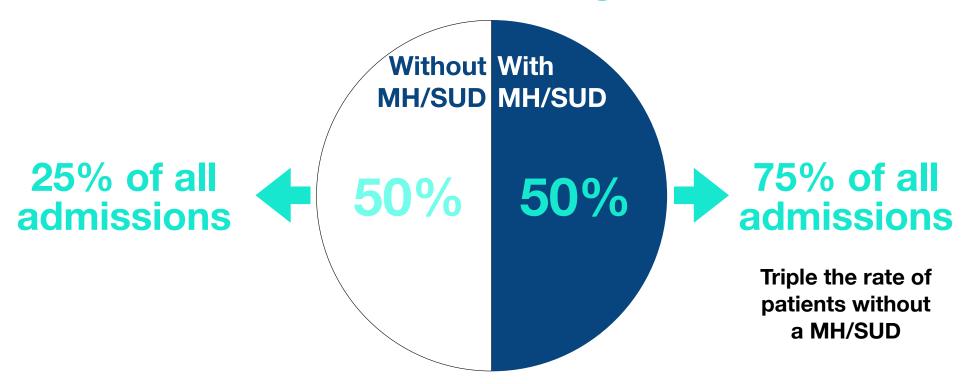


Total Cost of Care Per Patient Per Year



Boyd C, Faces of Medicaid Data Brief, Center for Health Care Strategies, December 2010

ConcertoHealth Dual-Eligible Patients



The Problem

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Unhealthy and Risky Behaviors

Smoking
Unhealthy substance use
Poor diet
Physical inactivity

Non-Adherence to Treatment Regimens

CAD, CKD, COPD, DM, HF, HTN,

Smoking

- At one hospital, prevalence is 3 times that for the general population
- 753 VA patients with CHF 82% increase in odds for 1-year readmission
- Higher 30-day readmission rates for

- Myocardial infarction Hysterectomy Ventral hernia repair
- H. flu pneumonia + COPD Arthroscopic meniscectomy
- Schizophrenia

- Lower extremity arterial bypass

Benowitz, American Journal of Epidemiology, 2009; Evangelista, American Journal of Cardiology, 2000; Shen, American Heart Journal, 2013; Yadavilli, European Respiratory Journal, 2012; Kobayashi, General Hospital Psychiatry, 2010; Catanzarite, Obstetrics and Gynecology, 2015; Basque, American Journal of Sports Medicine, 2015; Nelson, Hernia, 2015; McPhee, Journal of Vascular Surgery, 2013

Smoking and surgical complications

- For 82,304 smoking vs. 82,304 non-smoking surgical pts,
 - 1 odds of many complications:
 - Pneumonia (109%) MI (80%)

- Infections
- Unplanned intubation (87%) Stroke (73%) (30% 42%)

- Cardiac arrest (57%)
- Septic shock (55%)
- Mechanical ventilation (53%) Death (38%)
- Hip replacement 3.71 x 1 risk of deep infection
 - 3.05 x 1 risk of aseptic prothesis loosening
 - 2.58 x 1 risk of repeat surgery

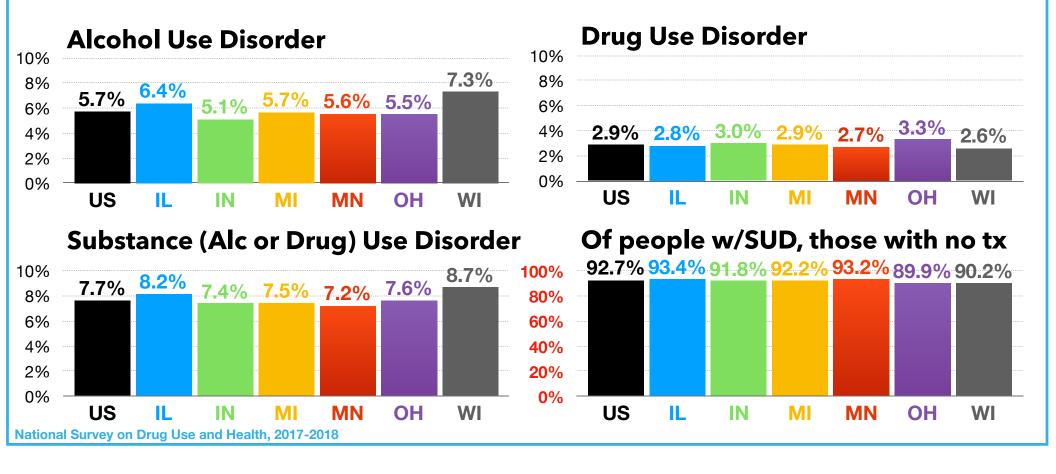
Benowitz, American Journal of Epidemiology, 2009; Evangelista, American Journal of Cardiology, 2000; Shen, American Heart Journal, 2013; Yadavilli, European Respiratory Journal, 2012; Kobayashi, General Hospital Psychiatry, 2010; Catanzarite, Obstetrics and Gynecology, 2015; Basque, American Journal of Sports Medicine, 2015; Nelson, Hernia, 2015; McPhee, Journal of Vascular Surgery, 2013

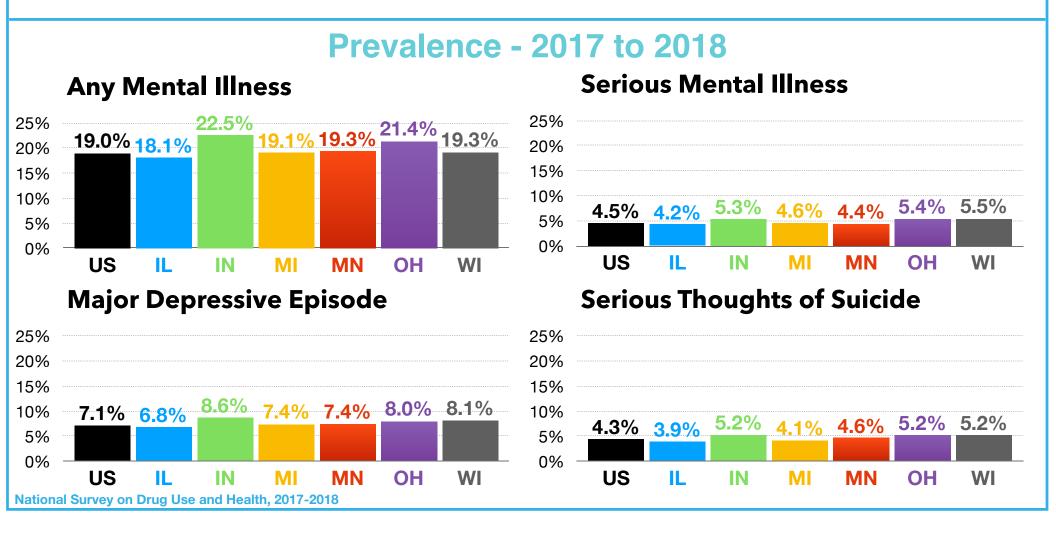
Unhealthy Drinking

- Same number of hospitalizations as for myocardial infarctions
- Inner city hospital: 20% of ICU admissions higher rate of uninsured
- Among pneumonia patients, higher charges, more ICU admissions
- 160,000 admissions for CHF, MI & pneumonia in 11 healthcare systems:
 † 24% in 30-day readmissions
- VA patients admitted for CHF: 6-fold higher 1-year readmission rates
- Trauma center: 150% higher chance of repeat trauma admission, twice the risk of complications from pneumonia and other infections
- 9,000 VA surgeries: Complication rates increased from 5.6% to 14.0% in a doseresponse manner with heavier drinking

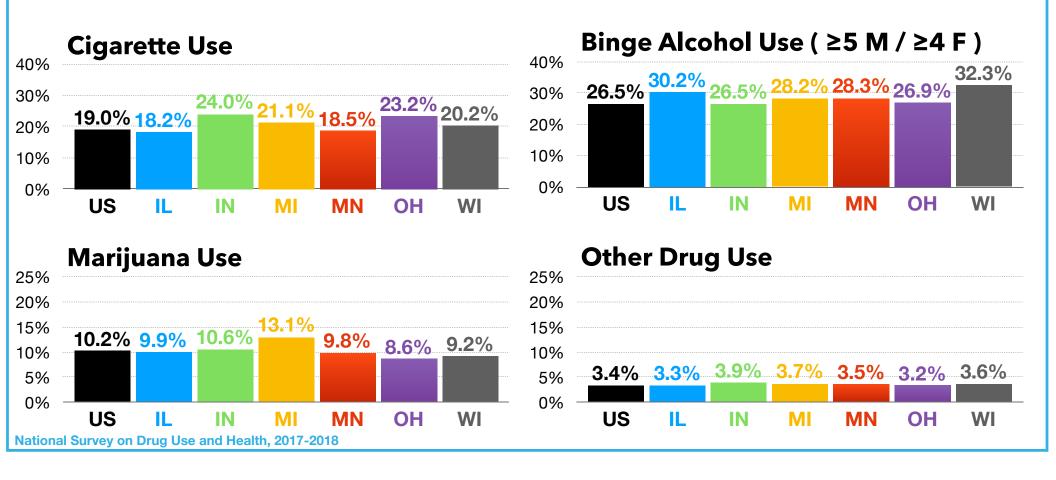
Adams, JAMA, 1993; Marik, Alcohol and Alcohoism, 1996; Saitz, Archives of Internal Medicine, 1997; Ahmedani, Psychiatric Services, 2015; Evangelista, American Journal of Cardiology, 2000; Rivara, JAMA, 1993; Bradley, Journal of General Internal Medicine, 2011

Past-Year Prevalence - 2017 to 2018

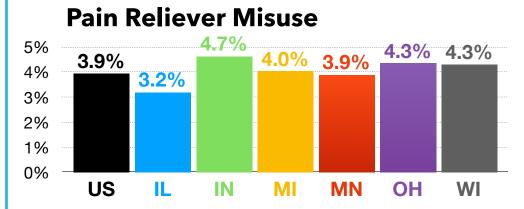


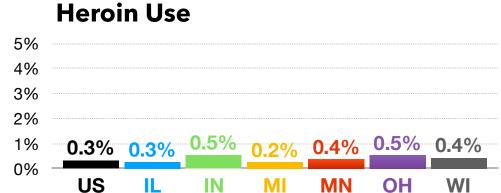


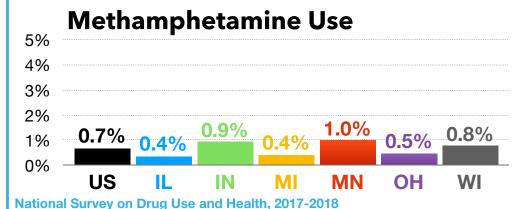
Past-Month Prevalence - 2017 to 2018



Past-Year Prevalence - 2017 to 2018







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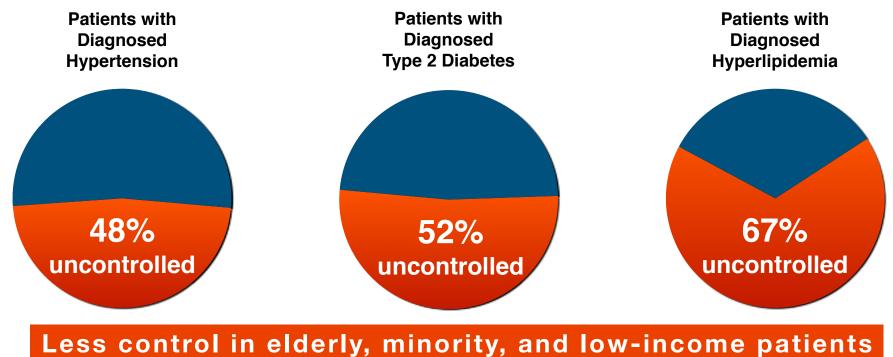
CAD, CKD, COPD, DM, HF, HTN,

Medication Non-Adherence

- For blue-collar minority pts, non-adherence to HTN medication is the greatest risk factor for heart failure
- Elderly have non-adherence rates of 40% to 86%, resulting in 4% to 11% of hospital admissions and 8% of ED visits
- 80% of elderly Medicaid patients have <80% Proportion of Days Covered (PDC) for HTN meds over 1 year
- Of 24,000 Indiana pts with T2DM, 91% had PDC < 80% → 20% increased risk for hospitalization

Adams, JAMA, 1993; Marik, Alcohol and Alcoholism, 1996; Saitz, Archives of Internal Medicine, 1997; Ahmedani, Psychiatric Services, 2015; Evangelista, American Journal of Cardiology, 2000; Rivara, JAMA, 1993; Bradley, Journal of General Internal Medicine, 2011

Chronic Disease Treatment in the US



Less control in claerly, infinitity, and low-income patients

Mozaffarian, Circulation, 2013; Ali, NEJM, 2013; http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6004a5.htm

Impacts of Medication Non-Adherence in the US

Preventable Deaths



Cost of Avoidable Hospitalizations



Other Avoidable Costs



Gandhi, Current Heart Failure Reports, 2016; Monane, Am J Pub Health, 1996; Ghali, Arch Int Med, 1988; Butler, AJMC, 2011



We need better ...

Recognition and treatment for mental health & substance use disorders

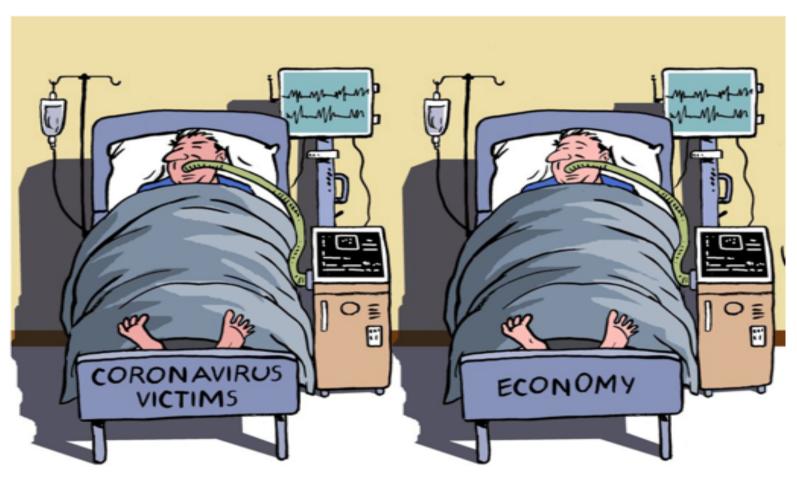
Recognition and intervention for unhealthy and risky behaviors

Efforts to boost adherence to chronic disease treatment regimens

We need better ...

Recognition and Recognition and treatment for intervention for mental health & unhealthy and risky substance use **A SINGLE behaviors** disorders **INTEGRATED SOLUTION Efforts to boost** adherence to chronic disease treatment regimens

... now more than ever!



Frasquilho et al. BMC Public Health (2016) 16:115 DOI 10.1186/s12889-016-2720-y

BMC Public Health

RESEARCH ARTICLE

Open Access

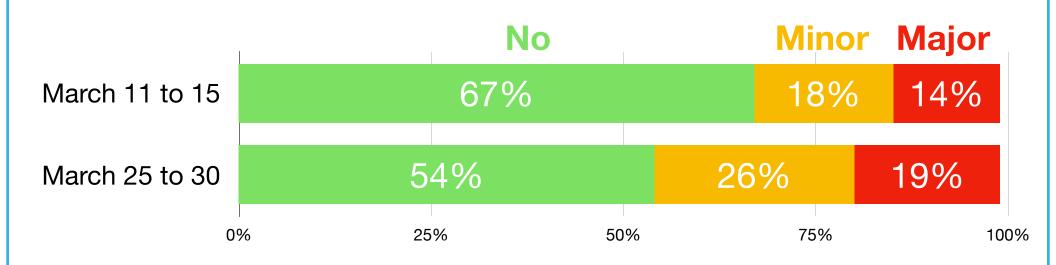
Mental health outcomes in times of economic recession: a systematic literature review



Diana Frasquilho¹, Margarida Gaspar Matos², Ferdinand Salonna^{3*}, Diogo Guerreiro⁴, Cláudia C. Storti⁵, Tânia Gaspar⁶ and José M. Caldas-de-Almeida⁷

KFF Health Tracking Polls

Do you feel that worry or stress related to coronavirus has had a negative impact on your mental health?



https://www.kff.org/health-reform/report/kff-health-tracking-poll-early-april-2020/

KFF Health Tracking Poll - March 25 to 30

- 72% My life has been disrupted "a lot" (45%) or "some" (27%)
- 59% Worry about value of investments
- 57% Worry that need to keep working increases chances of catching the coronavirus
- 53% Worry about family members getting sick
- 53% Worry about affording testing or treatment for the coronavirus
- 52% Worry about losing their job or getting laid off
- 45% Worry about loss of income due to workplace closure or reduced hours

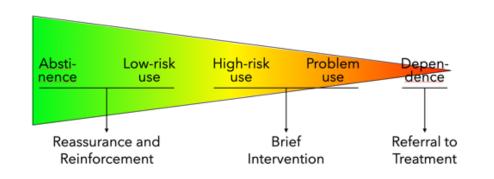
https://www.kff.org/health-reform/report/kff-health-tracking-poll-early-april-2020/

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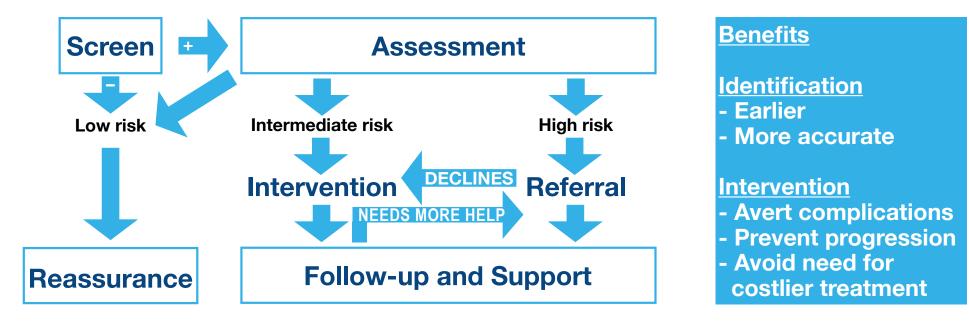
For alcohol and drugs:

Screening, Brief Intervention, and Referral to Treatment - SBIRT

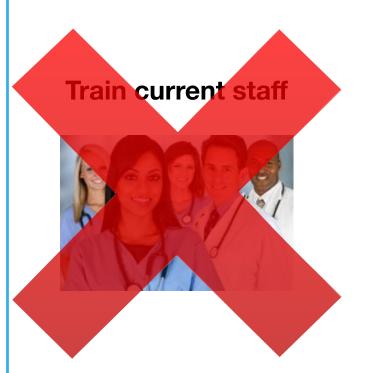


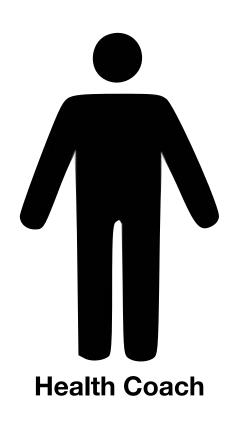
For all behavioral issues:

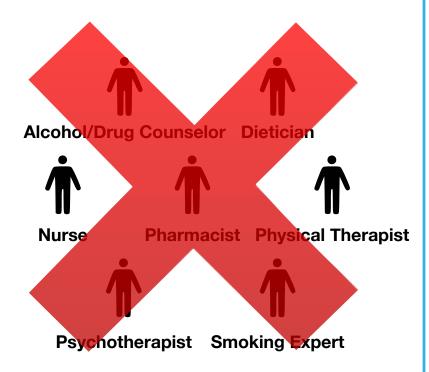
Behavioral Screening and Intervention (BSI)



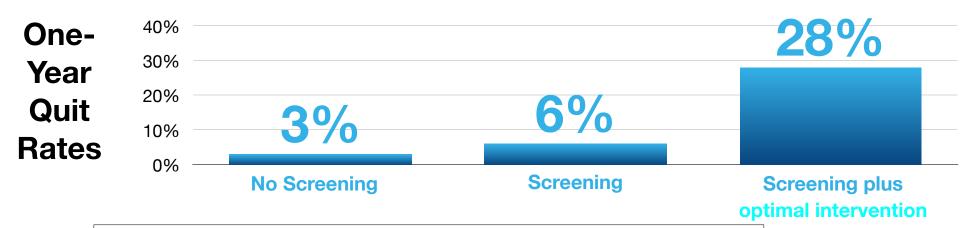
WHO?







BSI Works for Smoking



Optimal intervention

- Motivational interviewing to elicit commitment to quit
- Medications to reduce urges and cravings
- >8 one-on-one support sessions

Fiore, AHRQ Smoking Cessation Guideline, 2008; Lai, Cochrane Database, 2010

BSI Works for Unhealthy Drinking and Drug Use



ED visits **↓** 20%



Injuries **↓33**%



Hospitalizations **₹37**%



Arrests ↓46%



Crashes **↓** 50%

BSI also reduces days of drug use per month by 30%

Fleming, JAMA, 1997; Gelberg, Addiction 2015

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Collaborative Care - A Team Approach to MHDs



Primary care

- Diagnosis
- Medications
- Support



Counselor

- Psychotherapy



Psychiatrist

- Consultation on diagnosis and treatment
- Pharmacotherapy

Health Coach

- First responder for patients with positive screens
- Assist with accurate diagnosis
- Guard against suicide
- Provide feedback and education
- Instill optimism for treatment
- Assist with referrals
- Deliver behavioral activation
- Promote engagement in treatment
- Track progress with monthly PHQ-9s and GAD-7s, and alert others to lack of progress



Collaborative Care Includes Behavioral Activation

Describe optimal self-management



- Ask patients if they'd like to commit to changing behaviors
- What is their current pattern of behaviors?
- What changes do they believe would help most?
- What is their concrete plan for change?

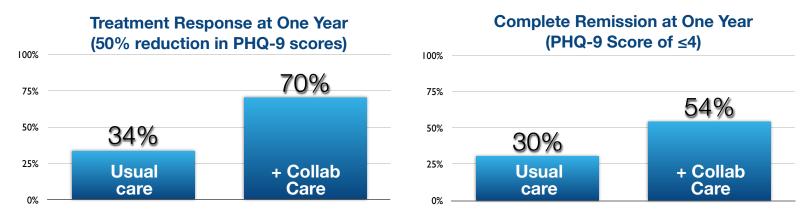
At follow-up

- What changes did they attempt?
- What changes were they able to make?
- What's been helpful?
- What's not been helpful?
- How would they like to modify their plan?

Thota, American Journal of Preventive Medicine, 2012

BSI & Collaborative Care are Effective

- Without screening, 30% to 50% of depressed patients are missed
- 69 RCTs: 75% higher odds of remission at 6 and 12 months with Collaborative Care
- One-year results of Collaborative Care for depression:



Effective for several other mental health disorders.

Thota, American Journal of Preventive Medicine, 2012; Institute for Clinical Systems Improvement, www.icsi.org; Woltmann, American Journal of Psychiatry, 2012; Jacob, American Journal of Preventive Medicine, 2012

BSI Improves Chronic Disease Outcomes

Well, active

Chronically ill, disabled

Prevents chronic illness and injury

Reduces severity, complications, and hospitalizations

- Smoking cessation
 - For HF: As beneficial as adding an ACE Inhibitor
 - For COPD: Slows progression, prevents admissions, prolongs life
- Alcohol intervention
 - For HTN: Reduces BP by 3 points
- Collaborative care for depression
 - For diabetes: Reduces HbA1c by .56

Wu, Intl Journal of COPD, 2011; Lightwood, JACC, 2001; Rose, Addiction, 2008; Katon, Archives of Gen Psych, 2012

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Avoids

- Dispensing unwanted advice and information
- Using scare tactics
- Twisting arms
- Shaming





Engages patients in

- Learning about risks and consequences that they find important
- Weighing pros and cons of behavior change in light of their goals and values
- Making and strengthening arguments for change

Miller & Rollnick, Motivational Interviewing, 3rd edition, 2013

Behavior Change Plans

- Limits or targets
- Triggers
- Strategies to avoid or manage triggers
- Other activities
- Environmental changes

- Medications
- Social supports
 - professional and lay
- Self-rewards
- Contingency plans
- Follow-up



Over time, patients learn what works to sustain change and meet their goals

Handley, JABFP, 2006

- •1200+ studies, 200+ RCTs, and a meta-analysis of 199 studies show effectiveness
- MI improves outcomes for a variety of behaviors
- Tobacco use Marijuana use

- Diet

- Safe sex

- Alcohol use
- Other drug use

- Physical activity
- Gambling

- MI generalizes well across cultures
- •21 studies: MI yields the highest smoking cessation rates
- For patients with alcohol-related injuries, MI reduces drinking more and longer than information and advice

Carroll et al, Drug & Alc Dep, 2006. Field et al, Annals of Surgery, 2013. Lai, Cochrane Collaboration, 2010. Lundahl & Burke, J Clin Psych, 2009. Lundahl et al, Pt Educ Counseling, 2013.

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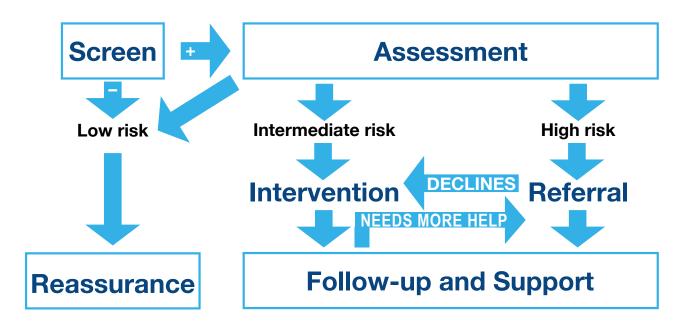
Referral for SUDs is Not Enough

- Referral is usually ineffective THEN WHAT???
- Effective, FDA-approved pharmacotherapy for alcohol and opioid use disorders is vastly under-prescribed
 - For alcohol: disulfiram (Antabuse®), acamprosate (Campral®), and naltrexone (Vivitrol®)
 - For opioids: naltrexone (Vivitrol®), buprenorphine (Suboxone®)
- Primary care treatment of SUDs
 - Pharmacotherapy by PCP
 - Motivational Interviewing and Behavior Change Planning by Health Coach
 - Offer on-site counseling: 1-on-1 or group

Glass, Addiction, 2015; Brown, AJMC, 2014

Referral for SUDs is Not Enough

 Referral is more effective when patients who are motivated to change find that their initial self-management efforts are insufficient



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Wisconsin Initiative to Promote Healthy Lifestyles







Three federally funded projects:

- \$14M from 2006 to 2017
- Helped 44 clinics deliver BSI
- Screened >100,000 patients
- Delivered >23,000 interventions







SAMHSA-funded project results:

• Pt satisfaction: 4.3 to 4.9 of 5 points







Marijuana use

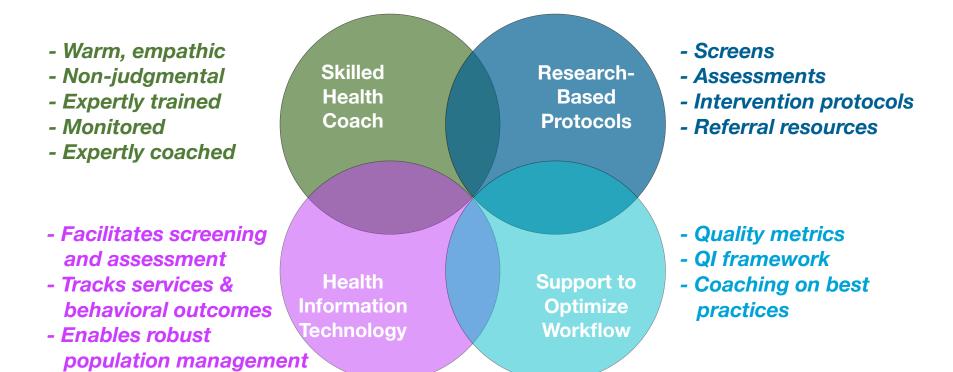
- Depression symptoms
- Reductions in drinking:
 Bachelor's > Master's health coaches
- \$782 two-year net cost savings per Medicaid patient screened

Brown, American Journal of Managed Care, 2014; Paltzer, Journal of Behavioral Health Services and Research, 2017; Paltzer, Medical Care, 2019

Health Coaching Topics - Well Adults

	Effectiveness	Return on Investment	<u>Notes</u>	
Fruit intake	Modest	None	Helps frame other topics as	
Vegetable intake	Modest	None		
Physical activity	Modest	None	health-related	
Smoking	Strong High over many years		USPSTF-A	
Alcohol	Strong	High in 1 year	USPSTF-B	
Drugs	Moderate	Unknown	USPSTF-B	
Anxiety	Strong	Unknown	_	
Depression	Strong	High over 4 years	USPSTF-B	

Integrated Health Coaching: Components for Success



Cost Savings of BSI

	Setting	Patients	Investment	Savings	Net Savings	Per Patient	Years	ROI
Smoking	-	Medicaid	\$183	\$571	\$388	who quit	1	2.1
Smoking	-	Medicaid, pregnant	\$201	\$1,273	\$1,072	who quit	1+	5.3
Alcohol	PC	All adults	\$205	\$523	\$318	intervened on	1	1.6
Alcohol & Drugs	ED	Disabled Medicaid	\$15	\$4,392	\$4,377	intervened on	1	292
Alcohol & Drugs	PC	Medicaid	\$48 \$96	\$439 \$878	\$391 \$782	screened	1 2	8.1 8.1
Depression	РС	≥60 yo	\$900	\$5,200	\$4,300	intervened on	4	4.8

Richard, PLOS One, 2012; McCallum, Journal of Health Care for the Poor and Underserved, 2014; Fleming, Medical Care, 2000; Estee, Medical Care, 2010; Paltzer, Journal of Behavioral Health Services and Research, 2016; Unutzer, CMS Testimony, 2011

Cost Savings of BSI

Year 1 Savings Assumed for Projections

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Projected One-Year Cost Savings – 1,000 Primary Care Patients

	Unhealthy Alc/ Drug Use	Depression	Cigarette Smoking	
Patients screened	1,000	1,000	1,000	
Prevalence	20%	20%	18%	
# patients intervened upon	200	200	180	
Additional patients who quit (22% of those who receive interventions)	_	_	40	
Year 1 healthcare cost savings per patient	\$300	\$1,300	\$571	
Total 1-year healthcare savings	\$300,000	\$260,000	\$22,840	
Total 1-year savings for all 1,000 patients	\$582,840			
Total 1-year savings per patient screened	<u>\$583</u>			

Projected Coach Hours for 1,000 Primary Care Patients

	Unhealthy Alc/Drug Use	Mental Health Disorder	Cigarette Smoking	
# patients who receive intervention	200	200	180	
Average # of 30-minute sessions	3	10	3	
Hours per patient	1.5	5.0	1.5	
Total hours by topic	300	1,000	270	
Total hours for 1,000 patients	1,570			

1 Health Coach serves 1,000 patients Total Cost per Health Coach ~ \$100,000

Net Cost Savings and ROI per 1,000 patients

Net one-year savings per Health Coach

\$582,840 (healthcare cost savings)

\$100,000 (expenses)\$482,840 (net healthcare cost savings)

ROI = \$482,840 / \$100,000 = 482% - nearly 5 to 1

For 12,000 adults: 12 health coaches → \$5.8M net savings

Outline

- The quadruple aim
- The scope of Behavioral Health
- The problem
- What works Behavioral Screening and Intervention
- What works Collaborative Care
- What works Motivational interviewing
- What works Pharmacotherapy for AUD and OUD
- An integrated health coaching program for primary care
- An expanded health coaching program

Comprehensive Screening

For all patients

- Smoking
- Depression
- Anxiety
- Alcohol
- Drugs
- Chronic diseases
 - CAD
 - COPD/Asthma
 - DM
 - HF
 - HTN

For chronically ill, frail, or low-income patients

- Medications
 - Knowledge gap
 - Side effects
 - Adherence
- Specific health issues
 - Pain
 - Wounds/sores
 - Vision & hearing
 - Chewing & swallowing
 - Bladder & bowel
 - Cognition
 - Fall risk

- Function
 - ADLs, IADLs
 - Mobility
 - Caregiver burnout
- Social determinants
 - Housing
 - Food access
 - Finances
 - Loneliness
 - Employment
 - Education

- Healthcare-related issues
 - Difficulty making appointments
 - Transportation barriers
 - Advanced directives

- Difficulty making medical decisions
- Phone/communication barriers

Health Coaching for Chronic Diseases

Patient Education

- Normal anatomy and physiology
- Etiology altered anatomy and physiology
- Symptoms
- Complications

Motivational Interviewing

- Patient goal-setting: What symptoms and complications does pt most wish to avoid?
- Patient selection of behavior changes from a menu of options
- Behavioral change planning SMART objectives and ongoing QI



Screening and Intervention Topics by Chronic Disease

Behavioral Focus	CAD	COPD	DM	HF	HTN
Smoking cessation	✓	✓	✓	✓	✓
Increased physical activity	✓	✓	✓	✓	✓
Daily rest periods with legs elevated				✓	
Diet with less animal products	✓		✓	✓	✓
Diet with more plant products	✓		✓	✓	✓
Diet with less sodium/salt			✓	✓	✓
Weight loss	✓		✓	✓	✓
Limited drinking	✓		✓	✓	✓
Stress reduction	✓		✓	✓	✓
Regular PCP visits			✓		✓
Flu and pneumonia shots	✓	✓	✓	✓	
Regular HbA1c tests			✓		
Regular dentist and eye doctor visits			✓		
Twice-a-day brushing and flossing			✓		
Daily feet check for sores			✓		
Medication adherence	✓	✓	✓	✓	✓
Rescue plan or sick plan	✓	✓	✓	✓	
Control of diabetes	✓			✓	✓
Control of blood pressure	✓		✓	✓	

Health Coaching Interventions

Unhealthy Behaviors and SUDs	Mental Health Disorders	Medical & Social Needs
To promote commitment to change: Motivational Interviewing To implement and sustain change: Behavior Change Planning	The UW model of Collaborative Care	Referral to internal or external resources
Pharmacotherapy as		

The Problem

Mental Health & Substance Use Disorders

Unhealthy and Risky Behaviors

Non-Adherence to Treatment Regimens

CAD, CKD, COPD, DM, HF, HTN,

Anxiety & Depression
PTSD
SPMI - Bipolar Dz, Psychosis
Alcohol/Drug Disorders

Smoking
Poor diet
Physical inactivity
Unhealthy substance use

Medication
Diet
Physical activity
Healthcare services

Summary

Problem/Opportunity:



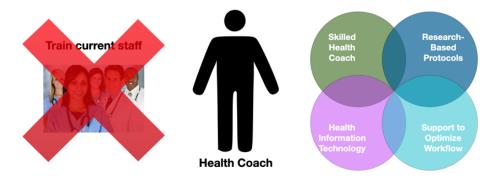


• Gaps:

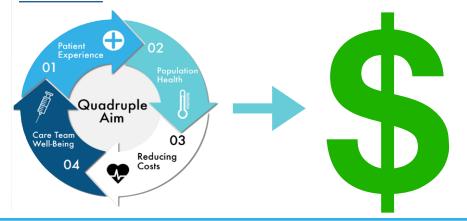
Few healthcare settings deliver

- SBIRT/BSI - MI - Collaborative care

• Solution:



Benefits:



SBIRT - Now More Than Ever!

















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