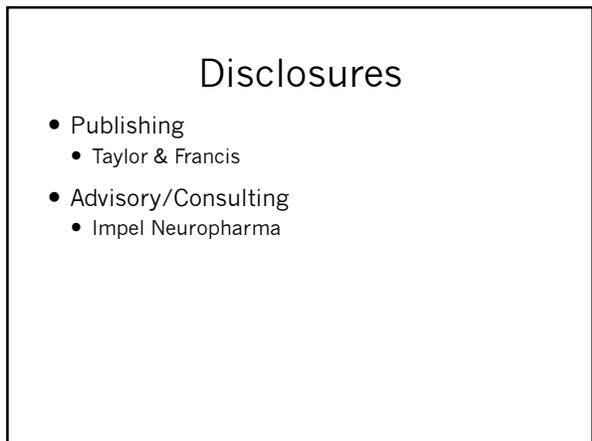
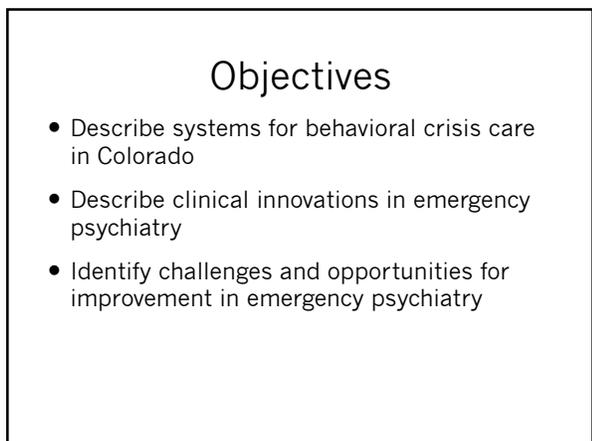


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	Colorado	Minnesota
Population	5.7 million	5.6 million
% pop change 2008-18	+1.5%	+0.7%
Major metro population (% of state)	Denver 2.9 million (51%)	Minneapolis 3.3 million (59%)
Inpatient ψ beds/100k	43	54
Suicides/100k	20	14
Overdose deaths/100k	18	13

4



DENVER HEALTH
est. 1860
FOR LIFE'S JOURNEY

- Level 1 Trauma Center
- 525 bed hospital
- Affiliated with University of Colorado
- 9 Family health centers
- 17 school based clinics
- Public health department



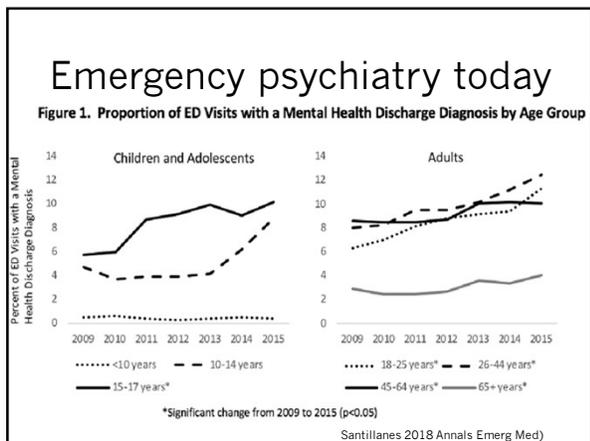
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Emergency Services

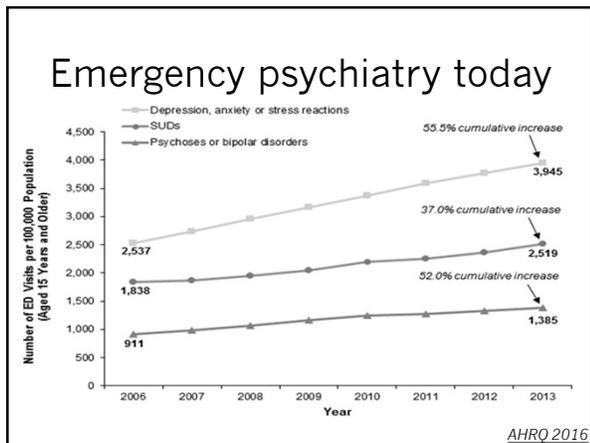
- Psychiatric Emergency Services
 - 16 bed unit
 - Mobile crisis services
 - Consultation services
- Emergency department
 - Adults and kids
 - 120+k patient encounters/year
- CARES
 - 60 bed detox
- Paramedic division
- Community nurseline



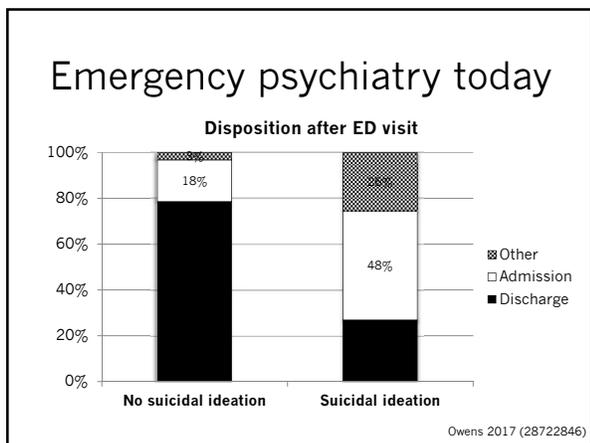

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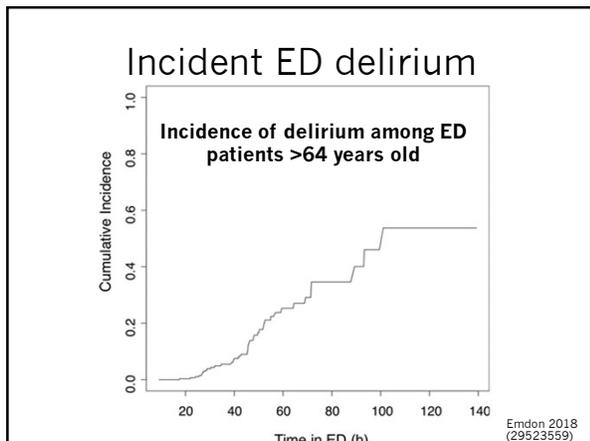
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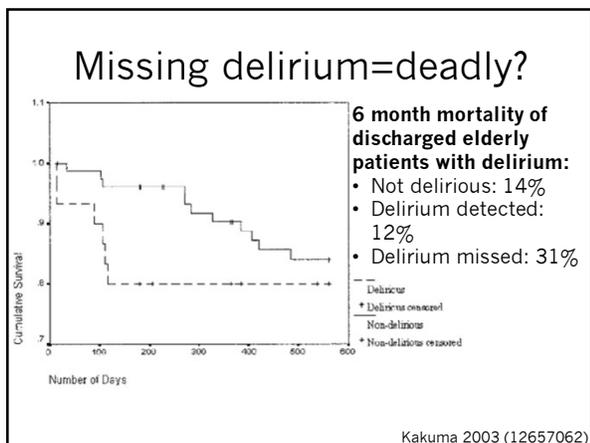
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Boarding and its (many) causes

- Increasing number of ED presentations
- Lack of behavioral health training
- Conservative practice
- Lack of specialized treatment in the ED
- Poor care navigation
- Lack of hospital alternatives
- Unavailability of inpatient beds

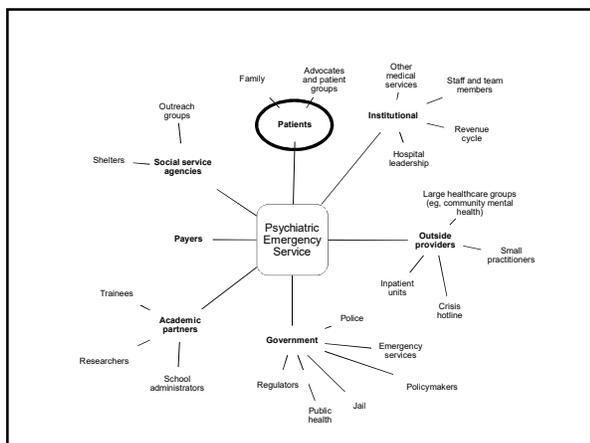
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Who boards?

- Arrive on Fri/Sat/Sun
- Experience restraint or seclusion
- Diagnosis of psychosis/mania
- Tobacco use
- Medicaid
- Hospital factors

Simpson 2014 (25247041);
Smith 2016 (27364809)

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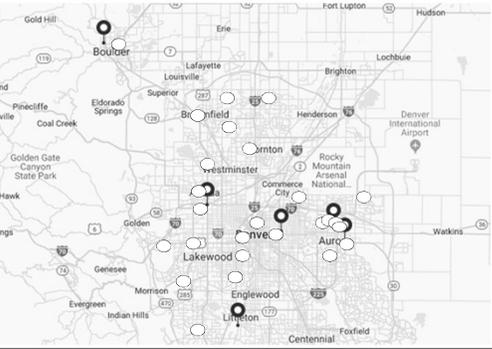
Access

- Fast
- Well-known to patients, families, and providers
- Appropriate level of care

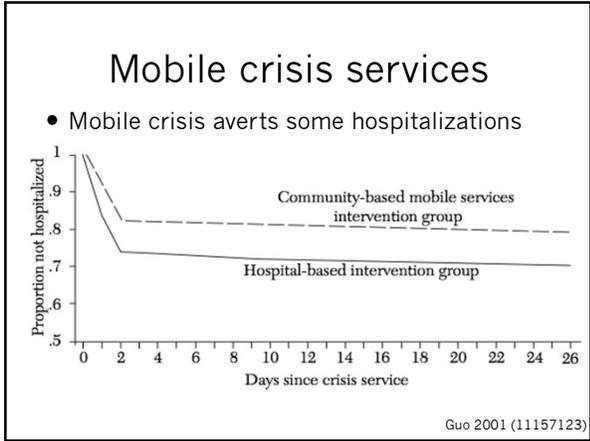


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Access



20



21

Law enforcement

- Frequent mental health encounters
- Court decisions
- Regulatory expectations
- Community pressure
- Cost



22

Crisis Intervention Training

- Denver: 100% CIT trained
- 40 hour initial training
 - Skills assessment
 - Test
- Annual refresher



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Weekly Curriculum

Intro & pre-test	Table top discussion	Table top discussion	Table top discussion Department resources	Final test Role plays
Law & police with city attorney	Resource panel	Substance abuse & excited delirium	Elderly encounters	
	Intellectually disabled persons	Tactical & equipment considerations	Adolescent encounters	
Lunch	Lunch	Lunch	Lunch	Lunch
Overview of mental illness	Stages of an escalating crisis	Suicide by cop	NAMI	Role plays
	Basic strategies for de-escalation	Advanced verbal techniques	Role plays	
Intro to verbal techniques	Suicide intervention	Veteran considerations	Course review	Graduation
Stages of an escalating crisis				

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Developing CIT

- Integrating CIT at all levels
 - Level 1 training is universal
 - Level 2 mentors
 - Level 3—hostage negotiation
- Outcome tracking
 - Diagnoses encountered
 - Use of M1 holds
 - Utilization of non-jail services



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The test: no joke!

- What is the most common of all the mental health disorders?
- Antisocial Personality Disorder is characterized by a long standing pattern of what?
- What moves the discussion off the factual level to the emotional level?

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The police twist on BH

- Where should you look first when a patient with autism wanders?
- Working with veterans, use “radio someone” rather than “call someone.”
- What should you do with a demented patient who is shoplifting?
- Maintain safety of co-responders
- Appropriate use of Tazers and firearms

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Ongoing work

- >100 published studies of such collaborations
- Avoid use of jail where reasonable
- Field identification of substance use
- Coordination of care
- Co-responders through community mental health
- Data analysis to understand outcomes from MH-related encounters

Parker 2018 (29588323)

28

Substance treatment No Wrong Door

Jail Inpatient services

CURES/detox/rehab Community

Emergency services **Outpatient specialty services** Specialty clinic

29

2018 opioid treatment referrals

Detox (n=36, 6%) Jail (n=59, 10%) Inpatient services (n=85, 14%)

Community (n=129, 21%)

Emergency services (n=307, 49%) **627 patients** Specialty clinic (n=1, 2%)

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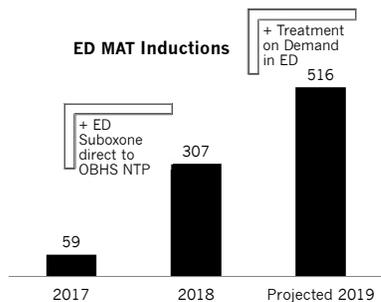
Current state in the ED: Treatment-on-deman

- Launched December 2018
- 24/7 on-demand team largely funded by City of Denver
- Narcotic treatment program intake completed in the ED



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Pre & Post Treatment on Demand



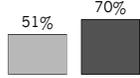
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Pre & Post Treatment on Demand

Induction Location	2018	Projected 2019
ED	307	516

Linkage

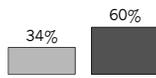
■ 2018 ■ 2019



Avg Time to Follow-Up:
2018: 7 days | 2019: 2 days

Retention*

■ 2018 ■ 2019



*2018: 30 day
2019: 60 day

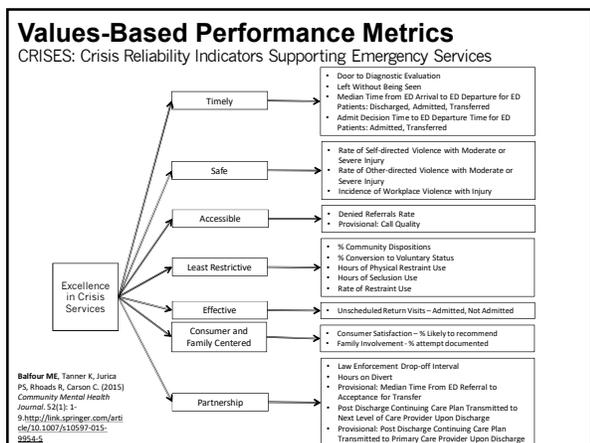
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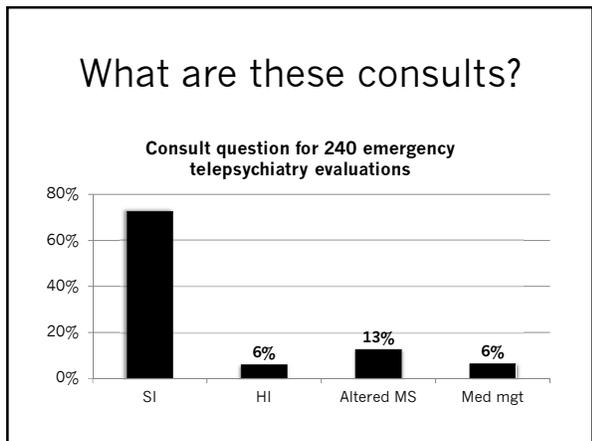
Emergency telepsychiatry

- Well-accepted by patients
- Correlates with improved 30d f/u (46% v 16%)
- Correlates with fewer admissions (11% v 22%)
- Correlates with overall lower LOS
- Might save provider time
- Cost effective



Narasimhan 2015 (26129992); Reifford 2019 (30379635); Salmoraghi 2015 (26348806)

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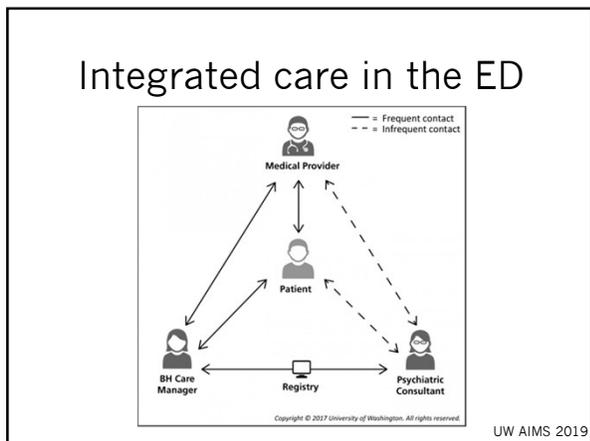


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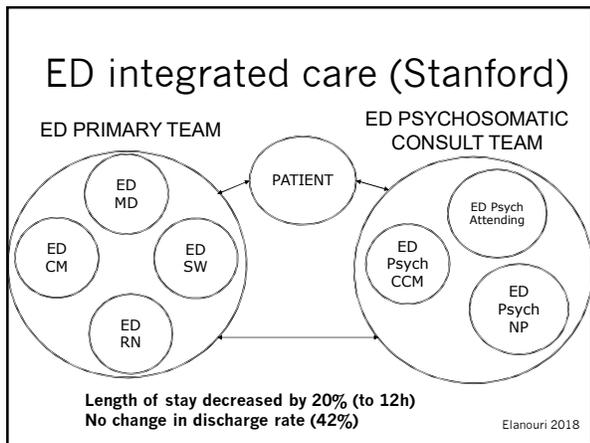
Telepsychiatry limitations

- Not appropriate for all patients
- Cost is not negligible—often need multiple sites
- Confounding in data
- Limited impact across larger ED culture
- Doesn't fix disposition issues

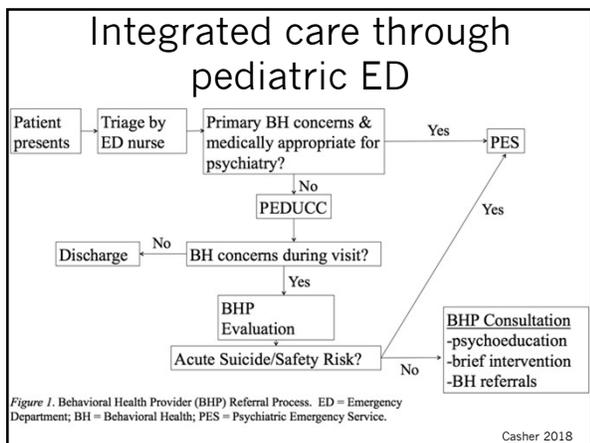
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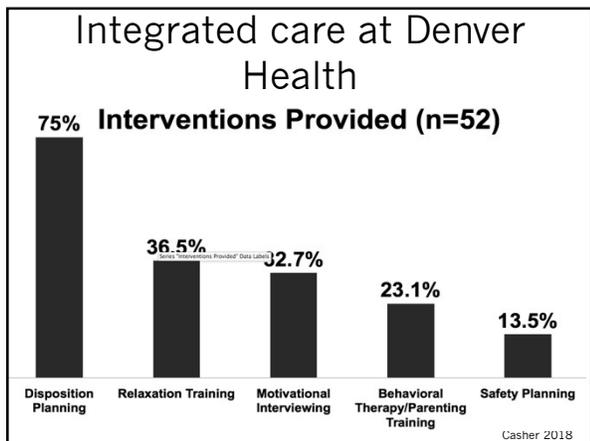
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- ### Psychiatric Emergency Service
- Handles most severe cases
 - Experienced staff to appropriately diagnose
 - Maintain relationships with alternative levels of care
 - As a community resource, allows sicker patients to be treated in the community
 - Supports other models

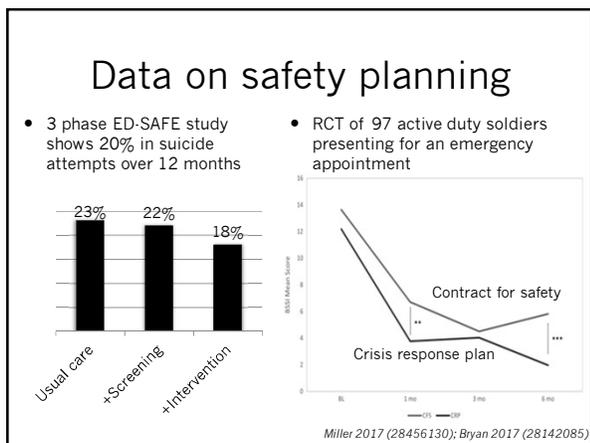
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A good PES evaluation

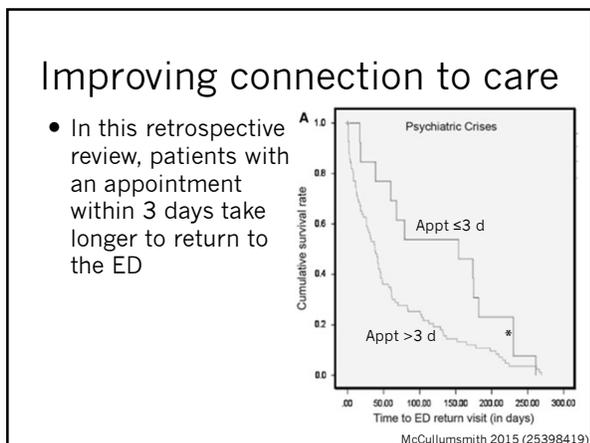
Standard	Justification
Obtain an accurate medication reconciliation	In studies, most patients have medication errors on admission.
Obtain collateral information	Published standards of care for risk assessment expect collateral.
Write a safety plan	Safety planning decreases ED return rates, inpatient admission, and self-harm after discharge.
Identify one next best provider	Identifying one best provider and making an appointment decreases ED return rates.
Contact that provider	Consulting with the follow-up provider improves adherence and reduces return ED visits.

Simpson 2018 (30170836)

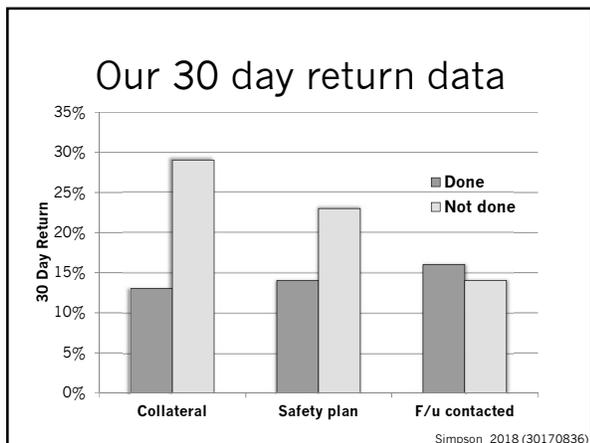
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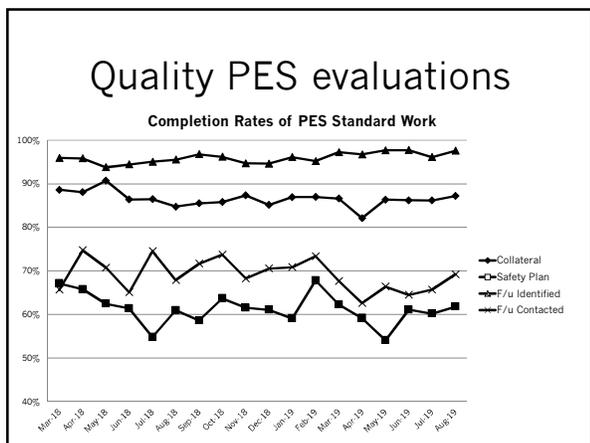


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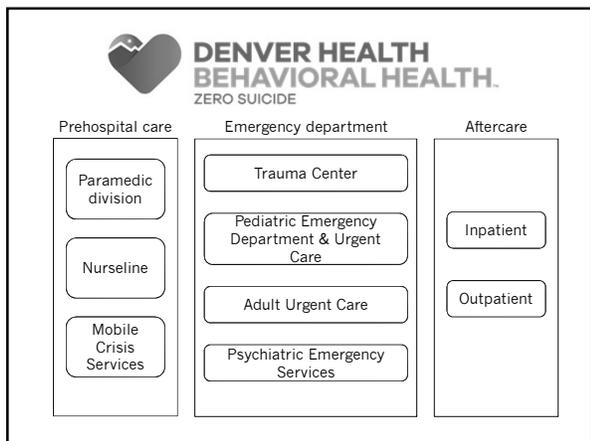
Zero Suicide

Lead	• System-wide culture change committed to reducing suicides
Train	• Competent, confident, caring workforce
Identify	• Individuals with suicide risk via screening and assessment
Engage	• All individuals at-risk of suicide using a suicide care management plan
Treat	• Suicidal thoughts and behaviors using evidence-based treatments
Transition	• Individuals through care with warm hand-offs and supportive contacts
Improve	• Policies and procedures through continuous quality improvement

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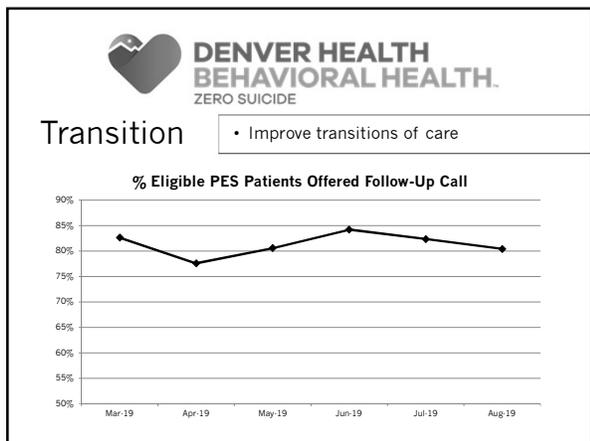
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DENVER HEALTH BEHAVIORAL HEALTH. ZERO SUICIDE

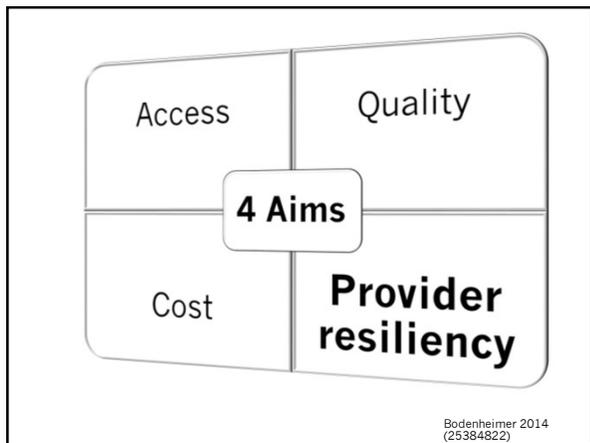
- Identify**
 - Epic enhancements to leverage screening

Complaint	MHH	Legal Status	PES TT	Comments	Reg	Recent CSSR-S Score
Overdose - Intentional				tox recs	✓	High Risk
Detox Screening				Road test, po challenge and d/c to c...	✓	Negative S...
Overdose - Accidental, Ches...				ESU ok	✓	Negative S...
Opiate Withdrawal		Voluntary	01:44	suboxone induction	✓	Negative S...

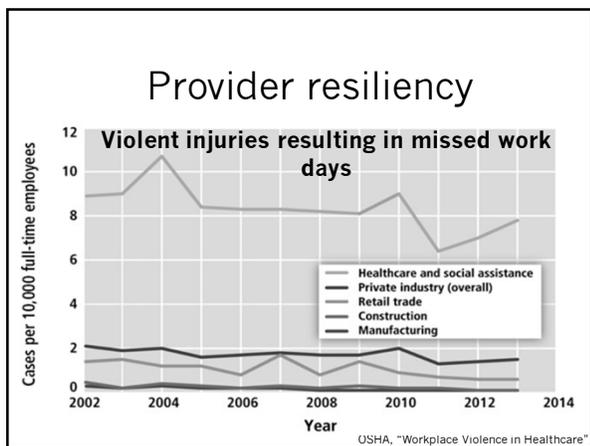
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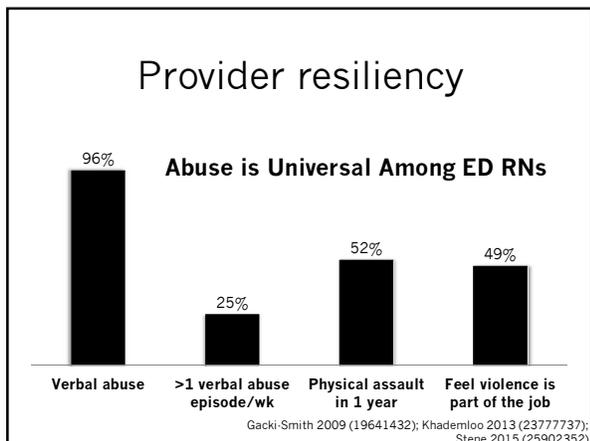
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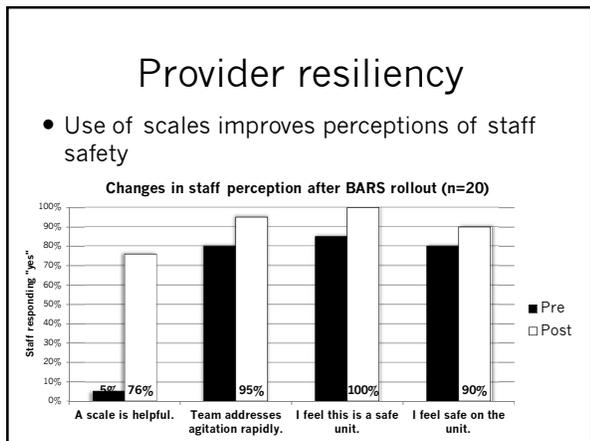
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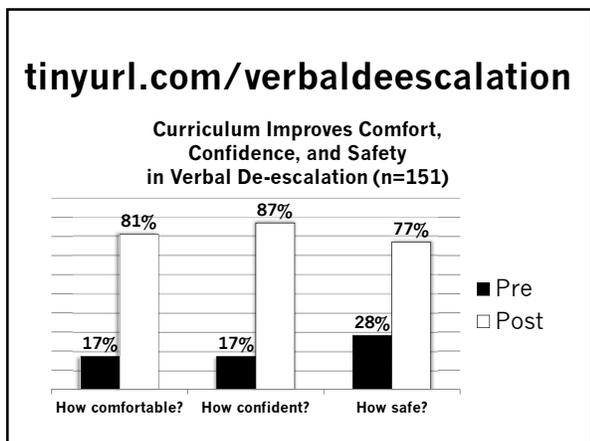
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Specialized training

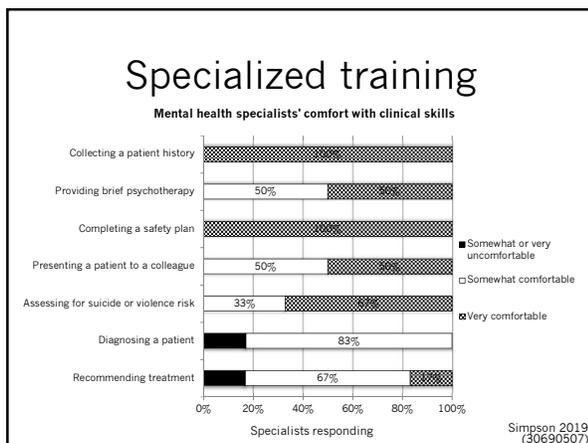
MILITARY MEDICINE, 184, 78:e184, 2019

Implementation and Evaluation of a Military–Civilian Partnership to Train Mental Health Specialists

Scott A. Simpson^a; COL Matthew Goodwin^{a†}; LTC Christian Thurstone^{a†}

ABSTRACT Introduction: Mental health specialists (MHS, or 68X) play a central role in meeting the growing demand for combat stress care among Service Members. Partnering with civilian institutions may enhance the MHS training experience beyond Advanced Individual Training (AIT). Methods: We describe a novel military–civilian collaboration to train U.S. Army Reserve MHS's in the psychiatric emergency service (PES) of a public, safety-net hospital. Details of implementation are described. The training rotation was evaluated after 1 year through a comprehensive chart abstraction of patients seen as well as surveys of MHS's and civilian partners. Results: The roles of MHS and physician officers in this rotation are described. Over 9 days in the PES, the MHS team evaluated 26 patients. MHS's described a high-quality training environment (83% rated very good or excellent) in which they frequently saw high-

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Brief psychotherapy

A Single-session Crisis Intervention Therapy Model for Emergency Psychiatry

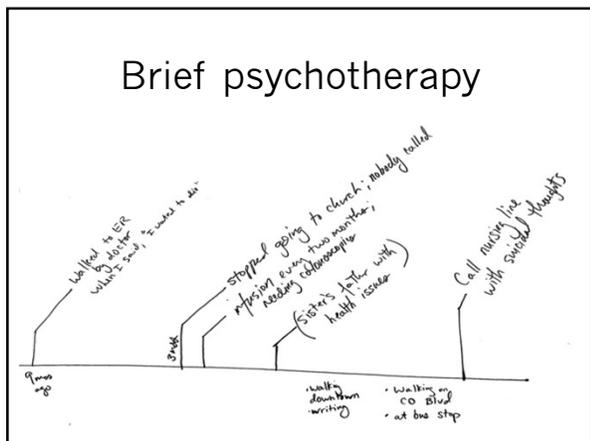
Scott A. Simpson, MD, MPH Denver Health Medical Center, Psychiatric Emergency Services, Department of Behavioral Health, Denver, Colorado

Section Editor: Shadi Lahham, MD
 Submission history: Submitted August 1, 2018; Revision received September 23, 2018; Accepted October 9, 2018
 Electronically published January 10, 2019
 Full text available through open access at http://escholarship.org/uc/uciem_cpom
 DOI: 10.5811/cpom.2018.10.40443

Presentations for anxiety and depression constitute the fastest growing category of mental health.

Simpson 2019 (30775659)

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PGY5 Emergency Psychiatry Fellowship

Denverhealth.org/EPF

Emergency Psychiatry Fellowship 📱📺📺📺📺

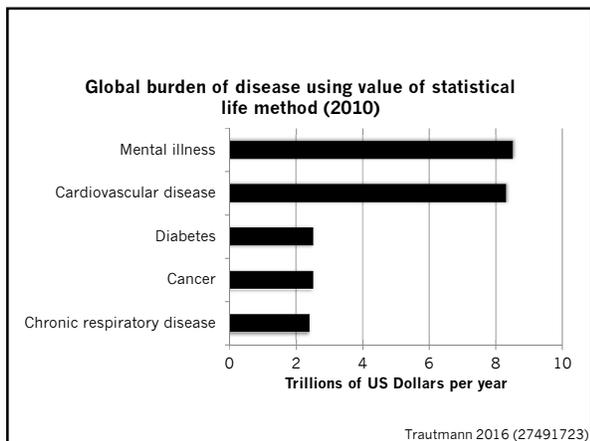
Overview

The Denver Health Emergency Psychiatry Fellowship is designed to train physician leaders in the subspecialty of emergency psychiatry. Over 10% of emergency department (ED) visits in the United States involve a psychiatric or substance use disorder—over 17 million visits per year. This volume continues to increase. Upon presentation, behavioral health patients experience longer lengths of stay, increased resource utilization, and significant morbidity and mortality after ED discharge. Thus, EDs play a vital role in identifying and treating behavioral and substance use disorders.

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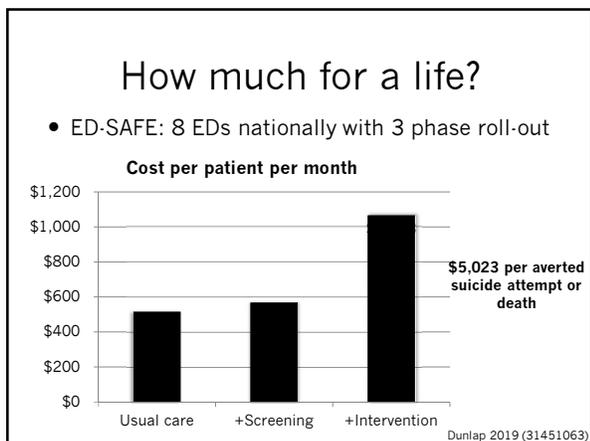
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Challenges in mental health system cost assessment

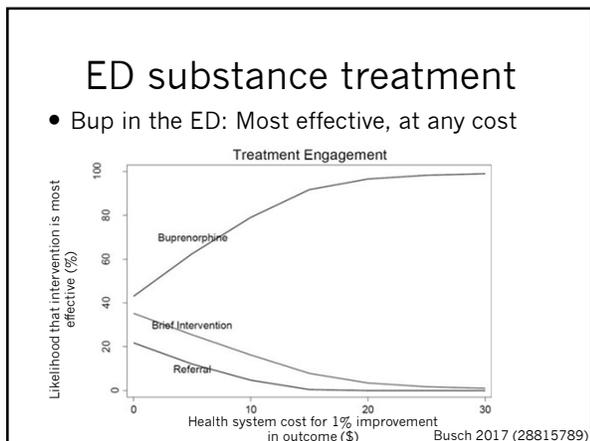


- Cost of *no* treatment
- Co-morbid illness
- Ascertaining costs across systems
- Valuation of outcomes (eg, suicide)
- Does not consider incentive structures at institutional level

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A few principles

- You are seeing patients at their worst.
- Treat, not just triage.
- Someone will always be upset if you do the job right.

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Comments? Questions?

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