

# Treatment Interventions for Suicide Prevention

**Kate Comtois, PhD, MPH**  
University of Washington



**Behavioral Research & Therapy Clinics**  
University of Washington

**C**  
**H**  
**A**  
**M**  
**P** Center for  
Healthcare Improvement for  
Addictions,  
Mental Illness and  
Medically Vulnerable  
Populations

# Suicide prevention has many forms

Treating Depression



TEEN DEPRESSION

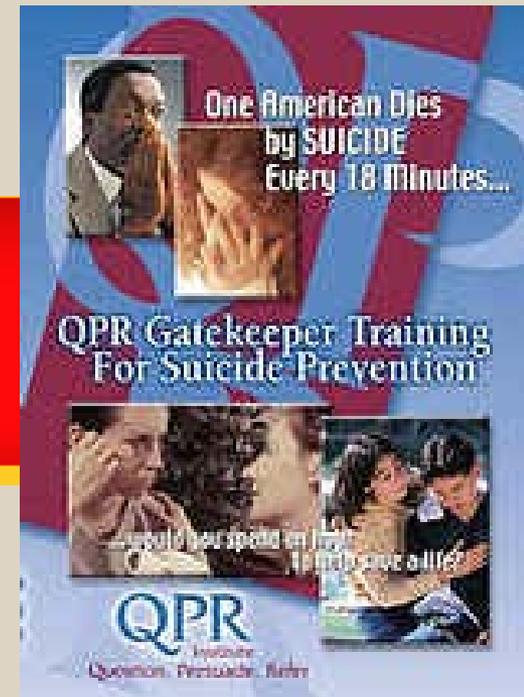
Public health or injury prevention



LOK-IT-UP

A Campaign to Promote the Safe Storage of Firearms

Gatekeeper Training



# Suicide prevention has many forms

***This talk* is about preventing suicide with mental health interventions to treat suicide attempts or other suicidal behavior**



# Overview

- **What does the clinical trial research tell us about treatment with suicidal patients?**
  - **What doesn't work?**
  - **What does work?**
- **What can we learn clinically from the research data?**



# What doesn't have evidence?

## Inpatient psychiatric admission

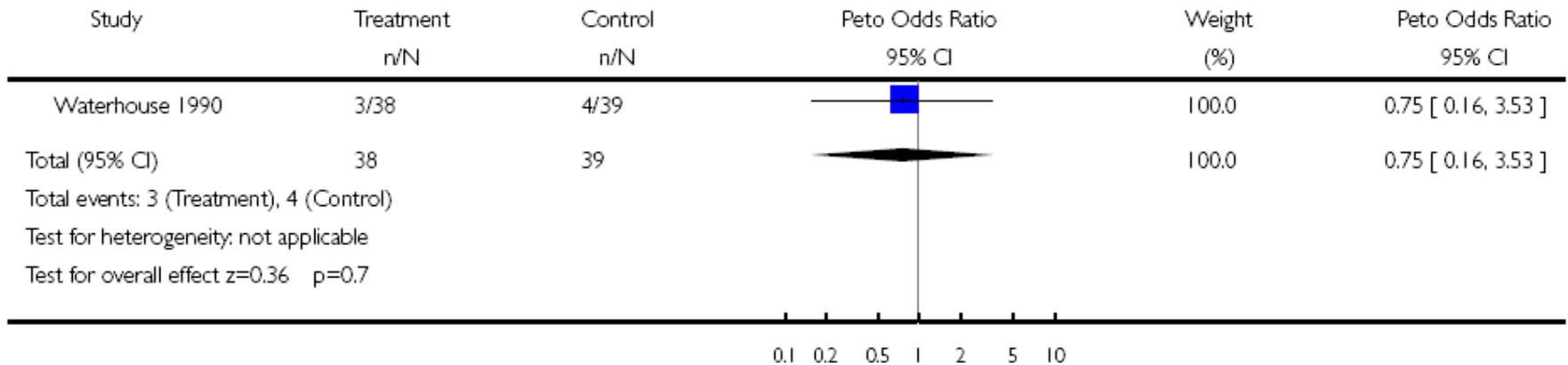
**Fig. 7. Comparison 07. General hospital admission vs. Discharge**

### 07.01 Repetition

Review: Psychosocial and pharmacological treatments for deliberate self harm

Comparison: 07 General hospital admission vs. Discharge

Outcome: 01 Repetition



**Note, highest risk individuals excluded from trial.**

# Or type of inpatient psychiatry...

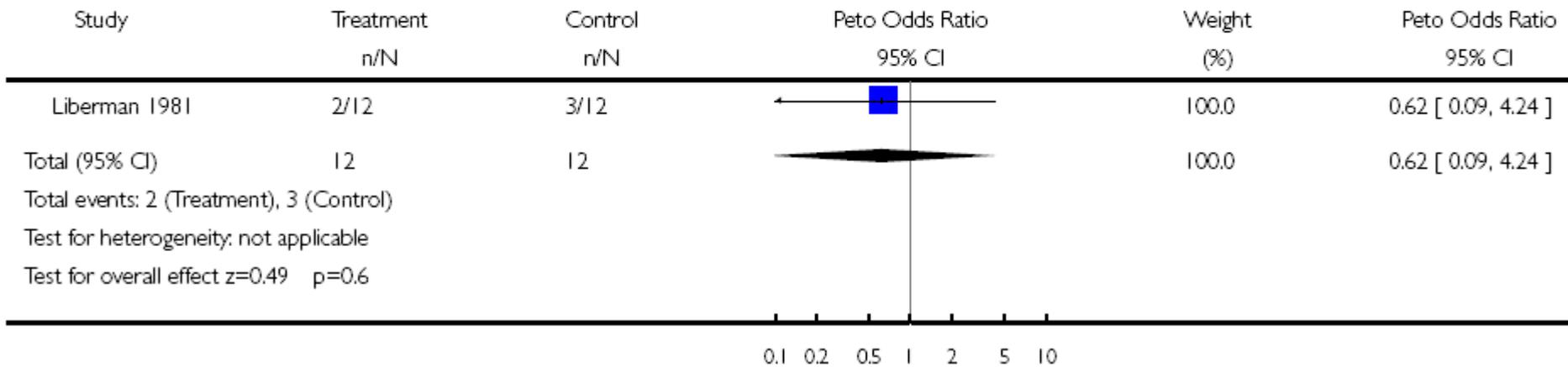
**Fig. 5. Comparison 05. Inpatient behavior therapy vs Inpatient insight-orientated therapy**

## 05.01 Repetition

Review: Psychosocial and pharmacological treatments for deliberate self harm

Comparison: 05 Inpatient behavior therapy vs Inpatient insight-orientated therapy

Outcome: 01 Repetition



# Easy access to inpatient psychiatry has promise, but is not significant.

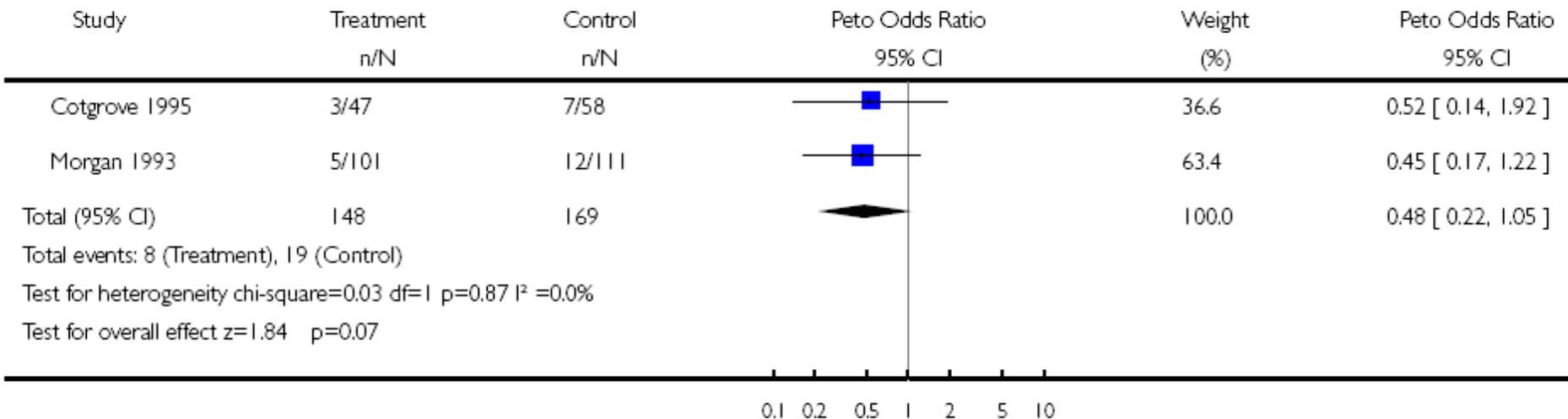
**Fig. 3. Comparison 03. Emergency card vs. Standard aftercare**

## 03.01 Repetition

Review: Psychosocial and pharmacological treatments for deliberate self harm

Comparison: 03 Emergency card vs. Standard aftercare

Outcome: 01 Repetition



# Anti-depressant medications don't have evidence either.

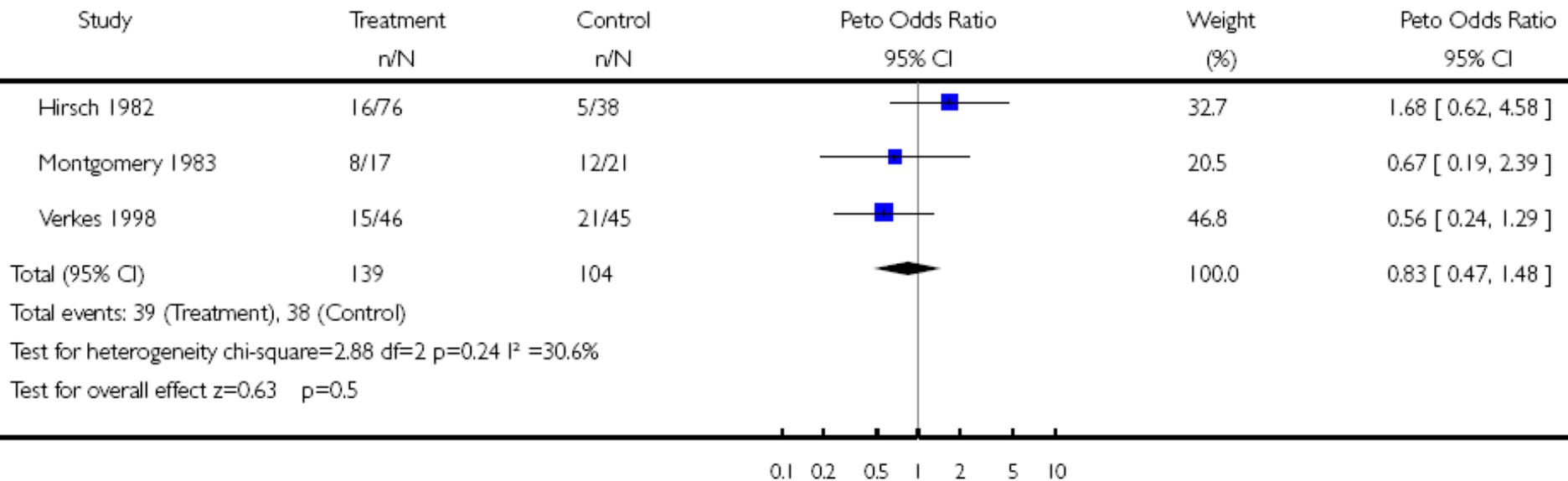
**Fig. 9. Comparison 09. Antidepressants vs. Placebo**

**09.01 Repetition**

Review: Psychosocial and pharmacological treatments for deliberate self harm

Comparison: 09 Antidepressants vs. Placebo

Outcome: 01 Repetition



# What does work?

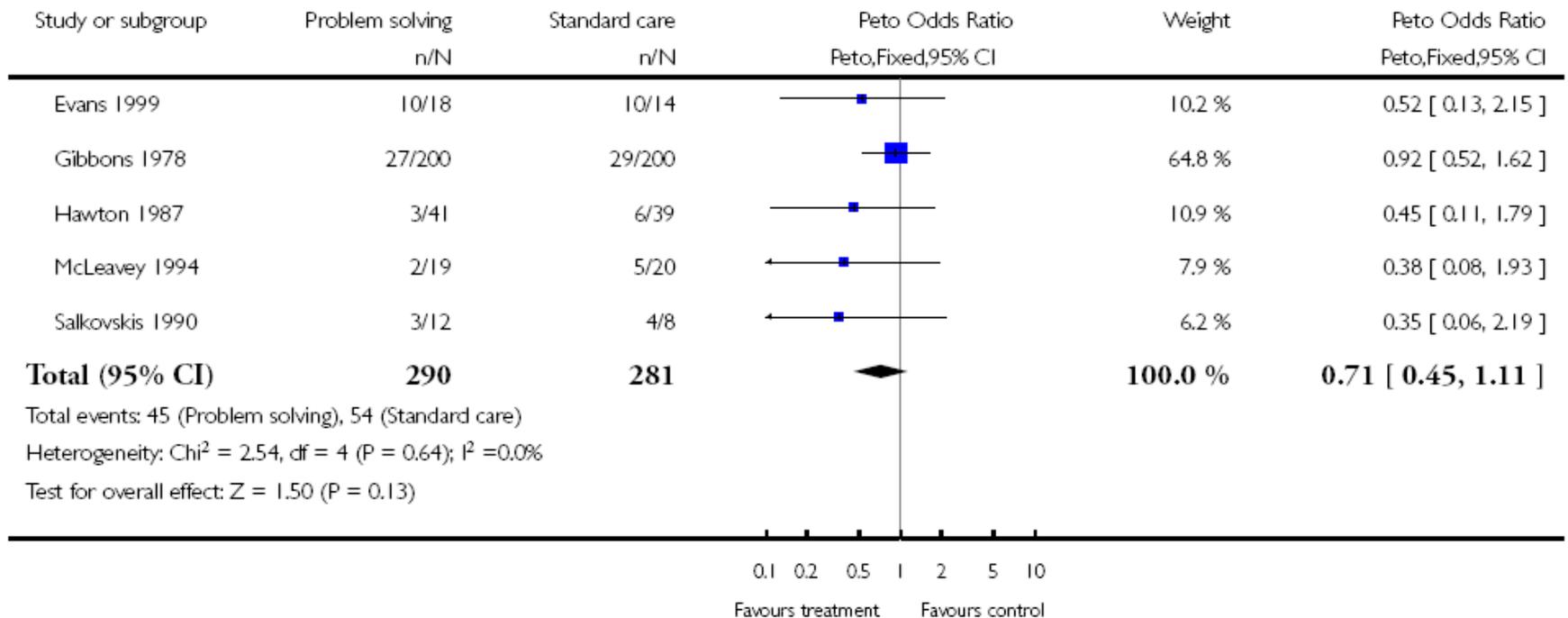
## Earlier studies of CBT show promise

### Analysis 1.1. Comparison 1 Problem solving therapy vs Standard aftercare, Outcome 1 Repetition.

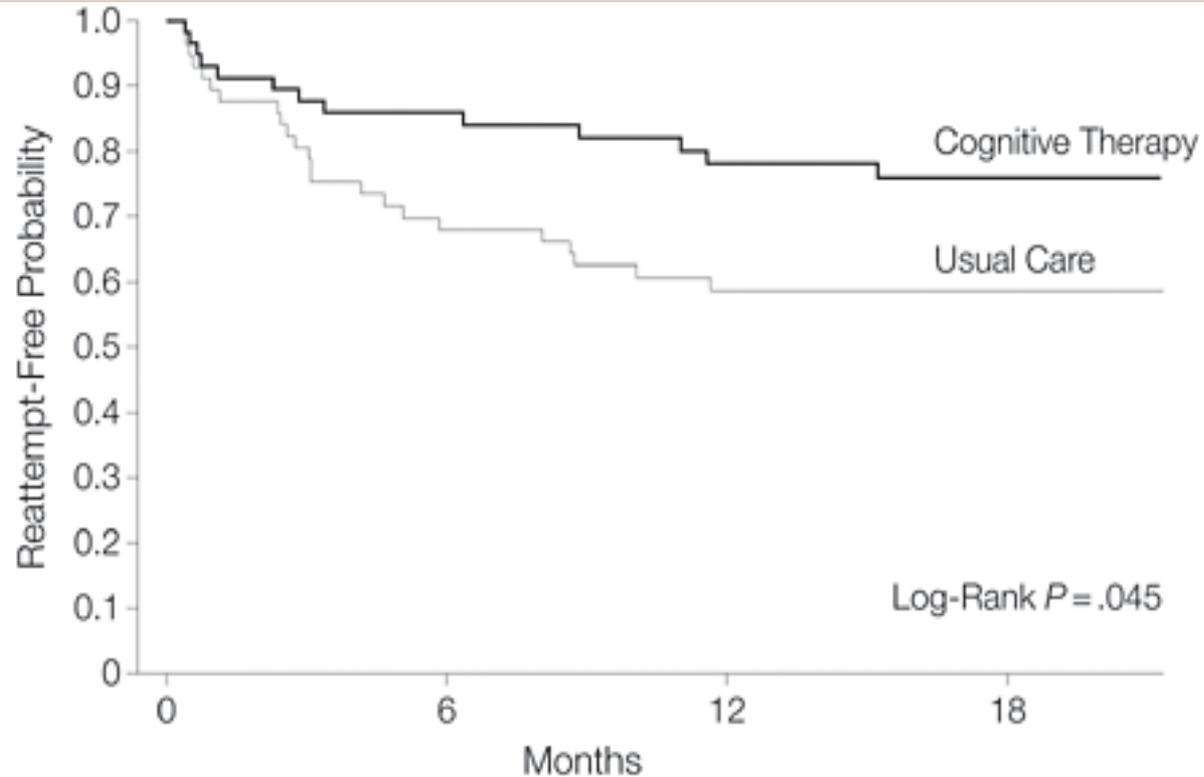
Review: Psychosocial and pharmacological treatments for deliberate self harm

Comparison: 1 Problem solving therapy vs Standard aftercare

Outcome: 1 Repetition



# Cognitive Therapy for suicide prevention (10-16 sessions) plus case management is quite effective in reducing suicide attempts.



No. at Risk	
Cognitive Therapy	60      45      37      16
Usual Care	60      36      28      11

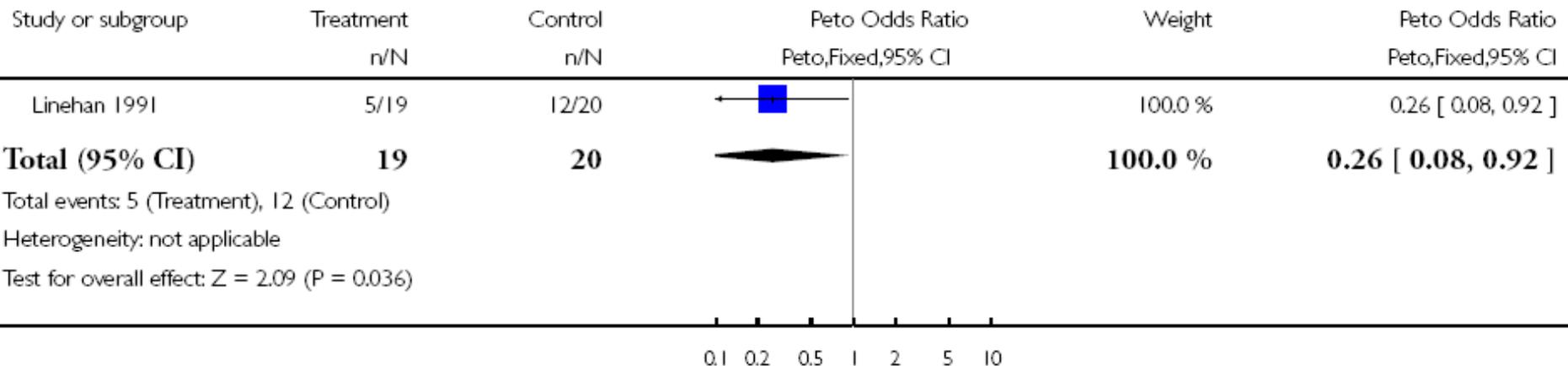
# Dialectical Behavior Therapy (DBT) is effective at reducing self harm (with BPD).

## Analysis 4.1. Comparison 4 Dialectical behavior therapy vs. Standard aftercare, Outcome 1 Repetition.

Review: Psychosocial and pharmacological treatments for deliberate self harm

Comparison: 4 Dialectical behavior therapy vs. Standard aftercare

Outcome: 1 Repetition



Since this review, DBT benefits have been replicated in 8 randomized clinical trials. Two trials non-significant: compared to APA guidelines for BPD and to Transference Focused Therapy

<http://www.thecochranelibrary.com> Hawton et al, 2009, Deliberate Self Harm

# And, believe it or not, an innovative idea from 1976: sending caring letters is effective.

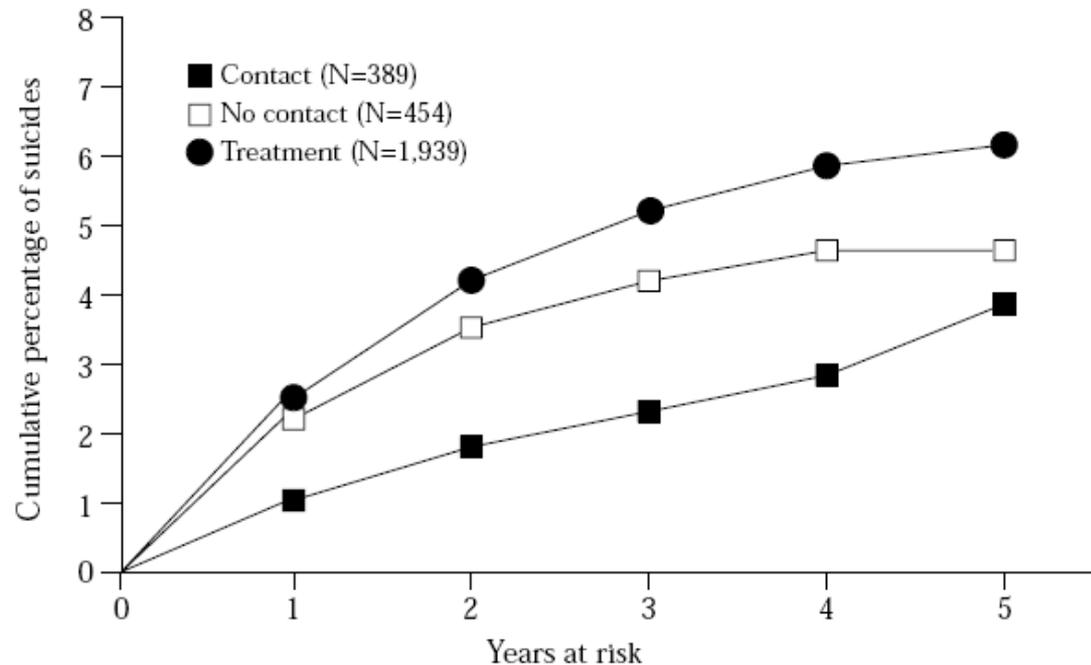
Dear \_\_\_\_\_,

It has been some time since you were here at the hospital, and we hope things are going well for you. If you wish to drop us a note we would be glad to hear from you.

Sincerely,

Letters were sent to patients who were not in treatment 30 days after inpatient discharge.

Cumulative percentage of suicidal deaths among 2,782 patients during the five years after hospital discharge, by whether they accepted or declined ongoing treatment and whether they were periodically contacted by letter



(*Psychiatric Services* 52:828-833, 2001)

# Sending caring letters was replicated in Australia for deliberate self poisoning.

## Hunter Area Toxicology Service



Dear «FirstName»

It has been a while since you were here at the Newcastle Mater Hospital, and we hope things are going well for you.

If you wish to drop us a note we would be happy to hear from you.

Best wishes,

Dr Andrew Dawson



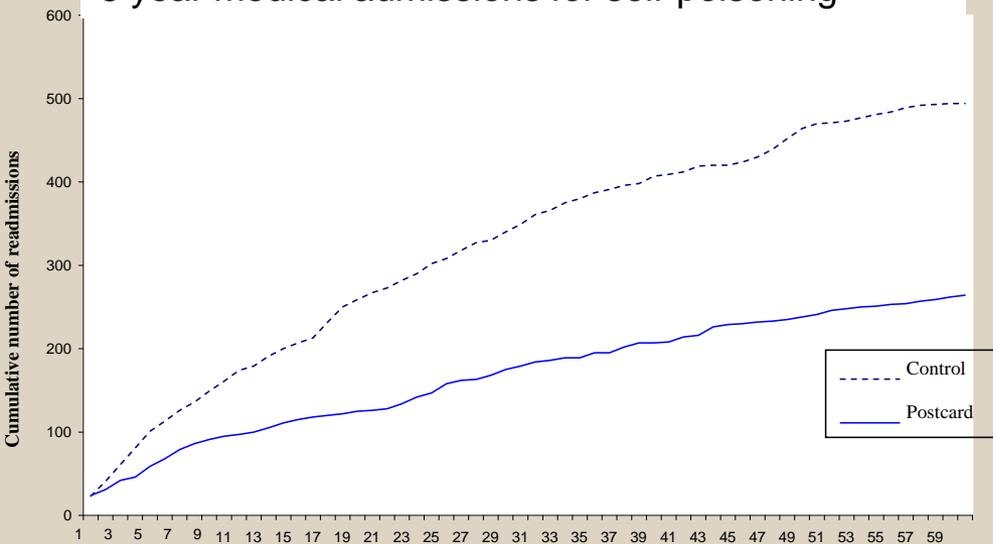
Dr Ian Whyte

Newcastle Mater Misericordiae Hospital  
Locked Bag 7, Hunter Regional Mail Centre NSW310  
Phone: 49 211 283 Fax 49 211 870

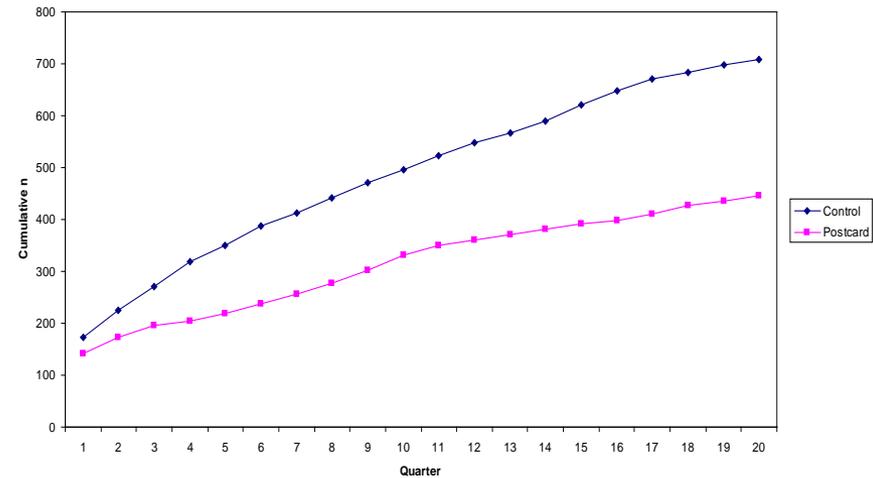
Random half of the patients discharged after self-poisoning got these cards.

Results:

### 5 year medical admissions for self-poisoning



### 5 Year Psychiatric Hospital admissions



Carter GL et al 2005 BMJ;331:805;  
Carter GL et al 2007 Br J Psychiatry;191:548-53.  
Carter GL Oct 2008 Presentation at HMC

# Recently letters did not replicate in psychiatric emergency room setting when controlling self-harm

**Table 3** Re-presentation for self-harm in the 12 months following the index presentation, adjusted for prior self-harm

	Intervention	Control	<i>P</i>	OR (95% CI)	IRR (95% CI)
Re-presentation for self-harm, %					
To psychiatric emergency service	16.2	22.5	> 0.13	0.64 (0.36–1.15)	
To emergency department	26.6	26.0	> 0.88	1.04 (0.62–1.73)	
Total (psychiatric emergency service or emergency department)	26.6	27.2	> 0.91	0.97 (0.58–1.62)	
Number of self-harm re-presentations <sup>a</sup>					
To psychiatric emergency service	28.7	44.1	< 0.04		0.65 (0.43–0.98)
To emergency department	67.2	61.0	> 0.52		1.10 (0.82–1.49)
Total (psychiatric emergency service or emergency department)	71.1	66.4	> 0.64		1.07 (0.80–1.43)

OR, odds ratio; IRR, incident risk ratio.

a. Total number of re-presentations per 100 people.

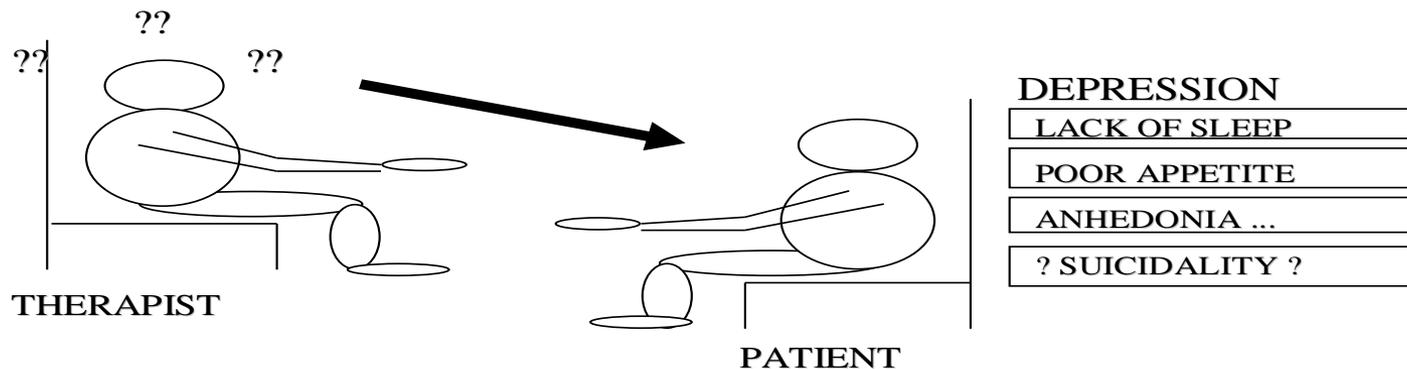
Beautrais et al 2010 Br J Psychiatry 197, 55–60

**Caring letters receiving further study with study pending in Army personnel and revising a grant from Harborview to NIMH.**

**VA has implemented caring letters now.**

Standard clinical interactions, including suicide interventions, are clinician as expert interviewing patient about depression.

## KRAEPELINIAN REDUCTIONISTIC MODEL



# Effective psychotherapies for suicidal individuals have (at least) 2 differences.



**SUICIDE**

It's the only way out.

**(1) Treating suicide directly (not just by treating the diagnosis)**

**(2) Using an overtly collaborative stance rather than psychiatric interview.**



# Treatment of psychiatric diagnosis does not necessarily result in reduction of suicide risk.

## •Treatment associated with reduced psychiatric symptoms and suicidal behavior:

- Lithium in bipolar affective disorder (no RCT but Baldessarini et al, 1999 shows evidence in review of studies) (RCT in progress)
- Clozapine in schizophrenia (one RCT: Meltzer et al., 1998)

## •Treatment *not* associated with reduced psychiatric symptoms and suicidal behavior:

- Depression (Brent et al, 1997; Hawton et al, 2009; Khan et al., 2000; Khan et al, 2001; Lerner & Clum, 1990; Rutz, 1999)
- Psychosis (Khan et al., 2001)
- Depression in Borderline Personality Disorder (Linehan et al, 1991)

**If you're not treating diagnosis,  
what should you treat?**



There are many stressors, including psychiatric diagnosis, experienced by suicidal individuals.



**Pain and Medical problems**



**Interpersonal conflict or loss**



**Homelessness**



**Financial Stress**

**Secondary drivers  
of suicidality**

The most effective treatments focus on the unique problems of suicidal people that prevent them from solving secondary drivers.



Inability to solve  
problems



Intense emotion  
dysregulation



Reasons for dying  
(e.g., thinking they  
are a burden)

**Primary drivers of  
suicidality**

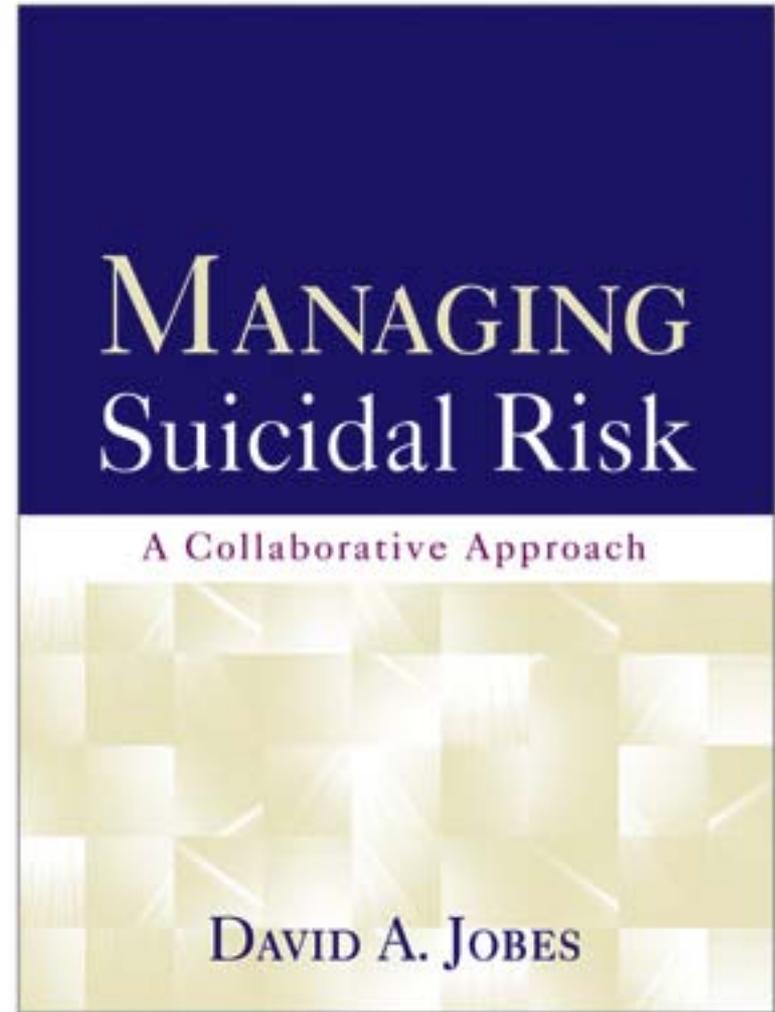
Lack of reasons  
for living



# Psychiatric interviews often do not create collaboration.

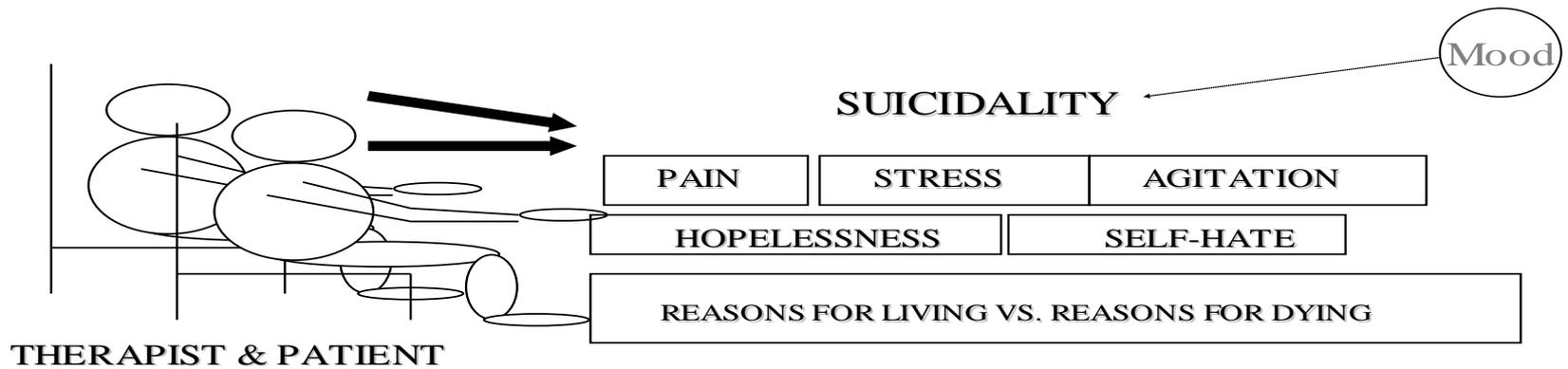
- Instead, the patient is more likely to feel interrogated (or even shamed if regretful).
- The patient may feel that you are only trying to run through a checklist, rather than trying to understand what is really going on.
- Patients are frequently aware that they can have their freedom taken away due to their suicide risk, so they can be leery of authority.

**Collaborative  
Assessment and  
Management of  
Suicidality  
(CAMS)**



Take steps to overtly demonstrate a desire to be collaborative.

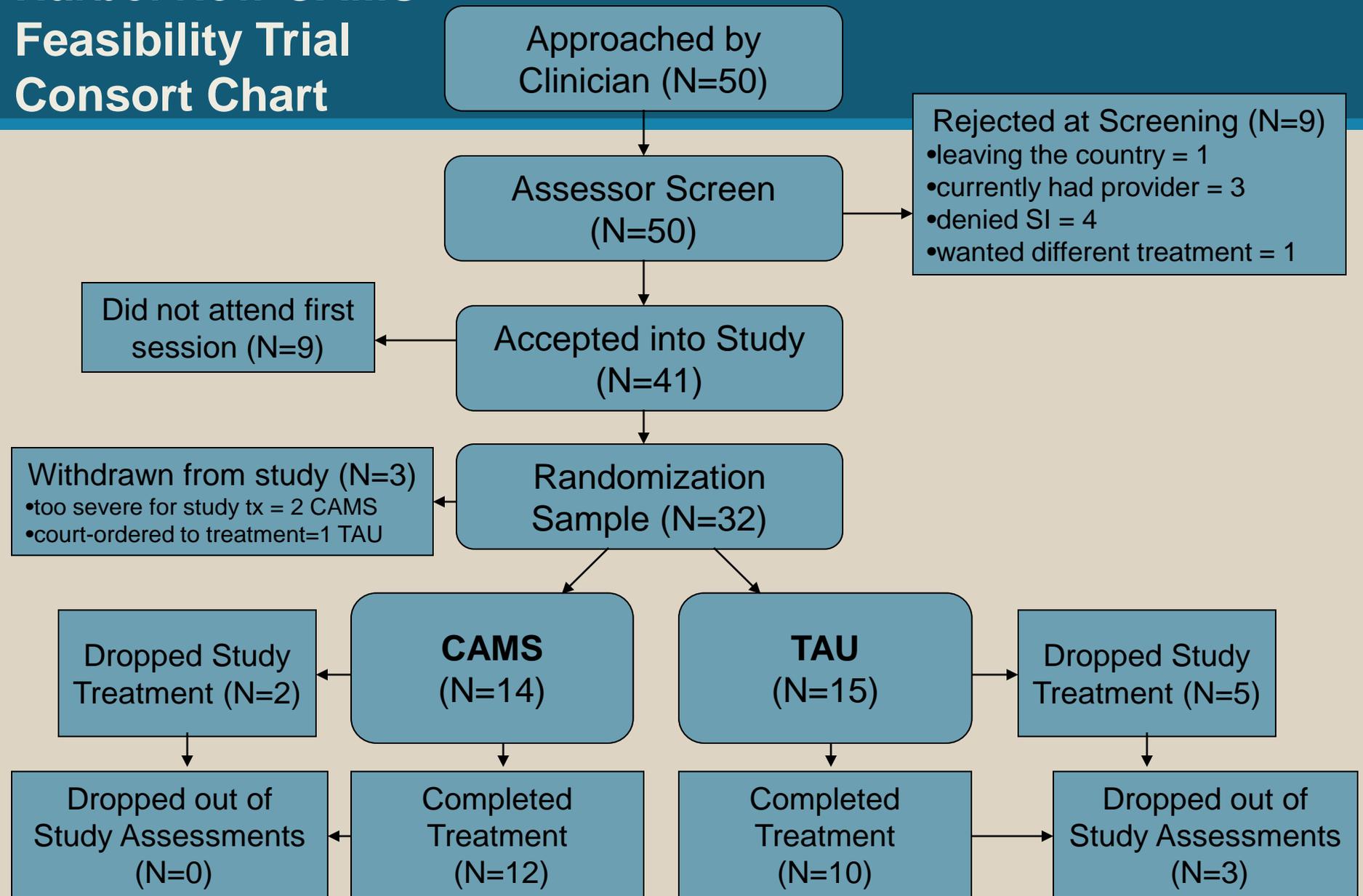
## THE CAMS APPROACH



# Collaborative Stance in CAMS

- Want to directly demonstrate to client that you empathize with the patient's suicidal wish
    - “You have everything to gain and nothing to lose from participating in this potentially life-saving treatment”.
    - You can always kill yourself later.
  - At the same time, clarify when you would have to take action that they might not choose – know your personal and clinic limits
    - If they won't participate in treatment...
- OR
- If they say they can't control their impulses...

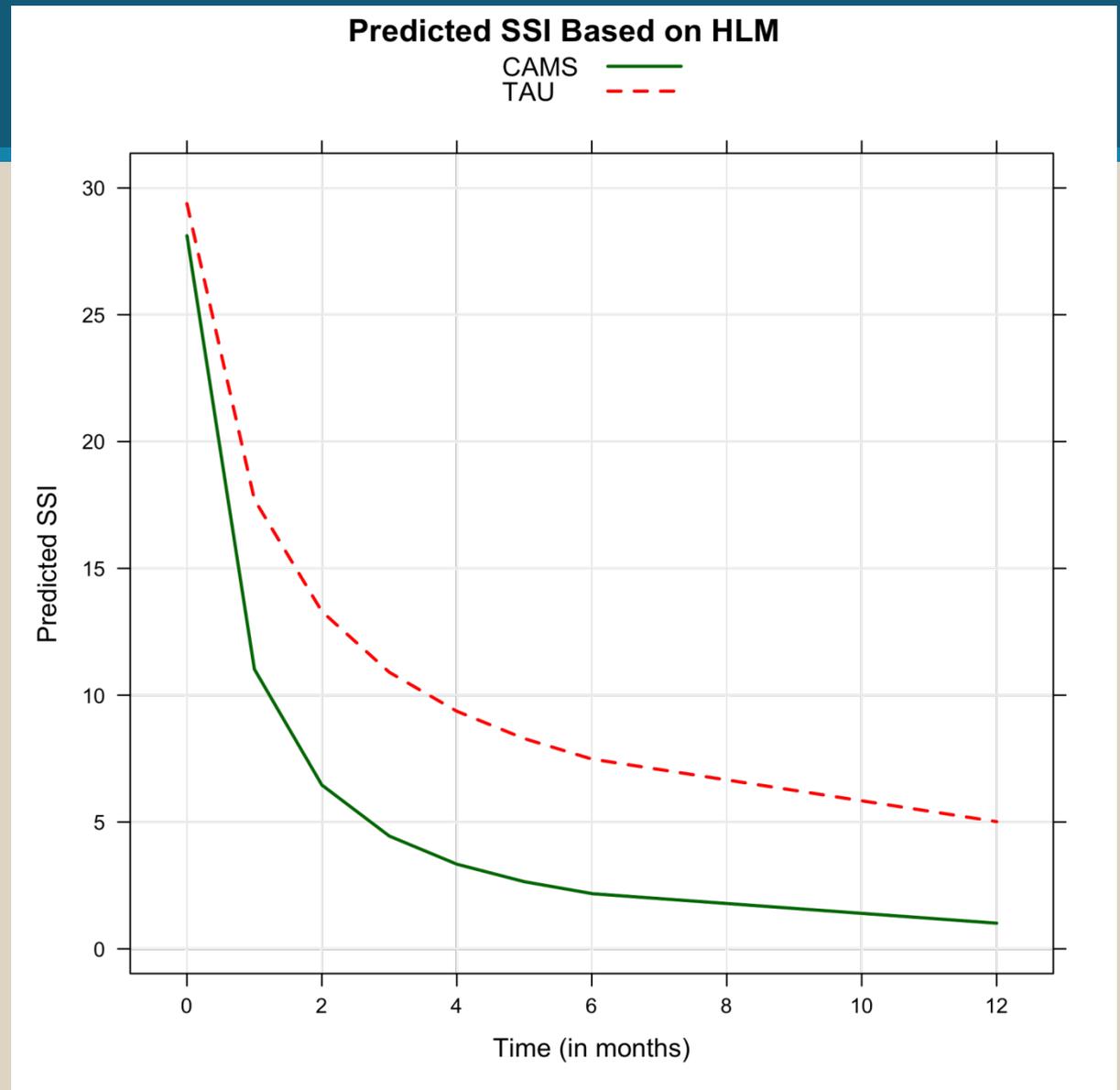
# Harborview CAMS Feasibility Trial Consort Chart



# Results for Suicidal Ideation

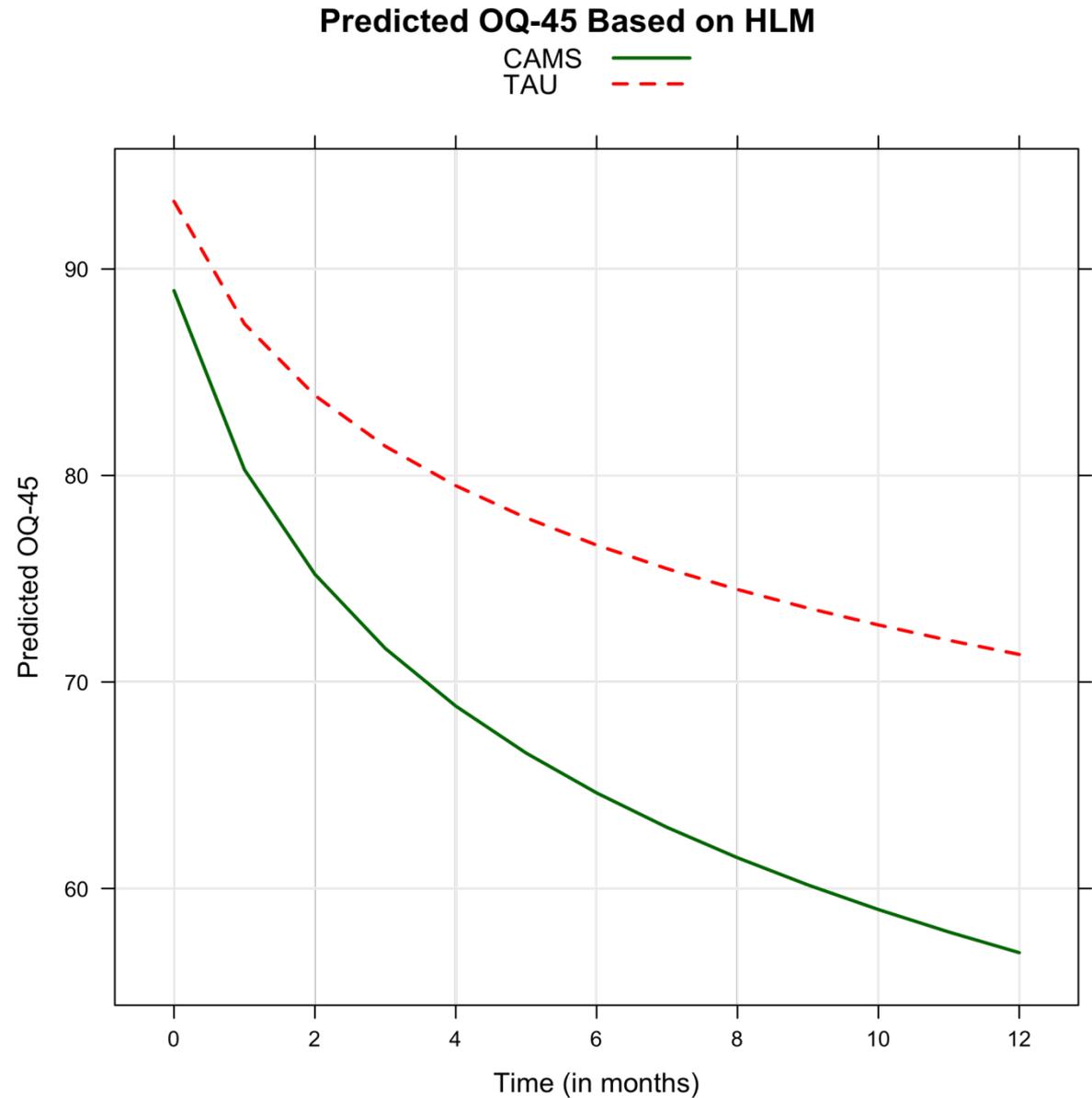
Bayesian Poisson HLM  
(because many zeros)

Posterior mean=-0.62  
95% CI: -1.19 - -0.04



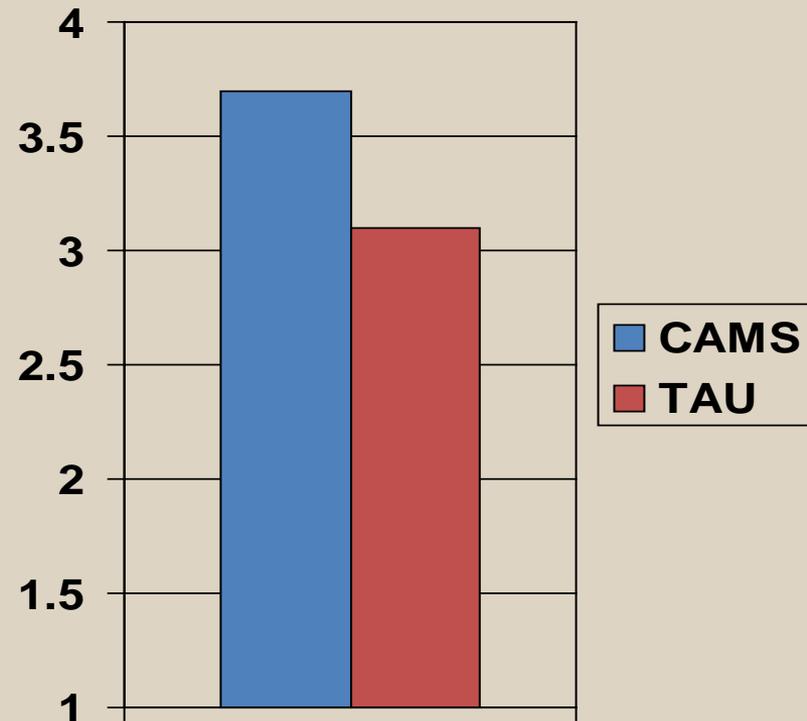
# Results on Overall Symptom Distress

Standard HLM  
 $t=-1.19$   $p=0.24$



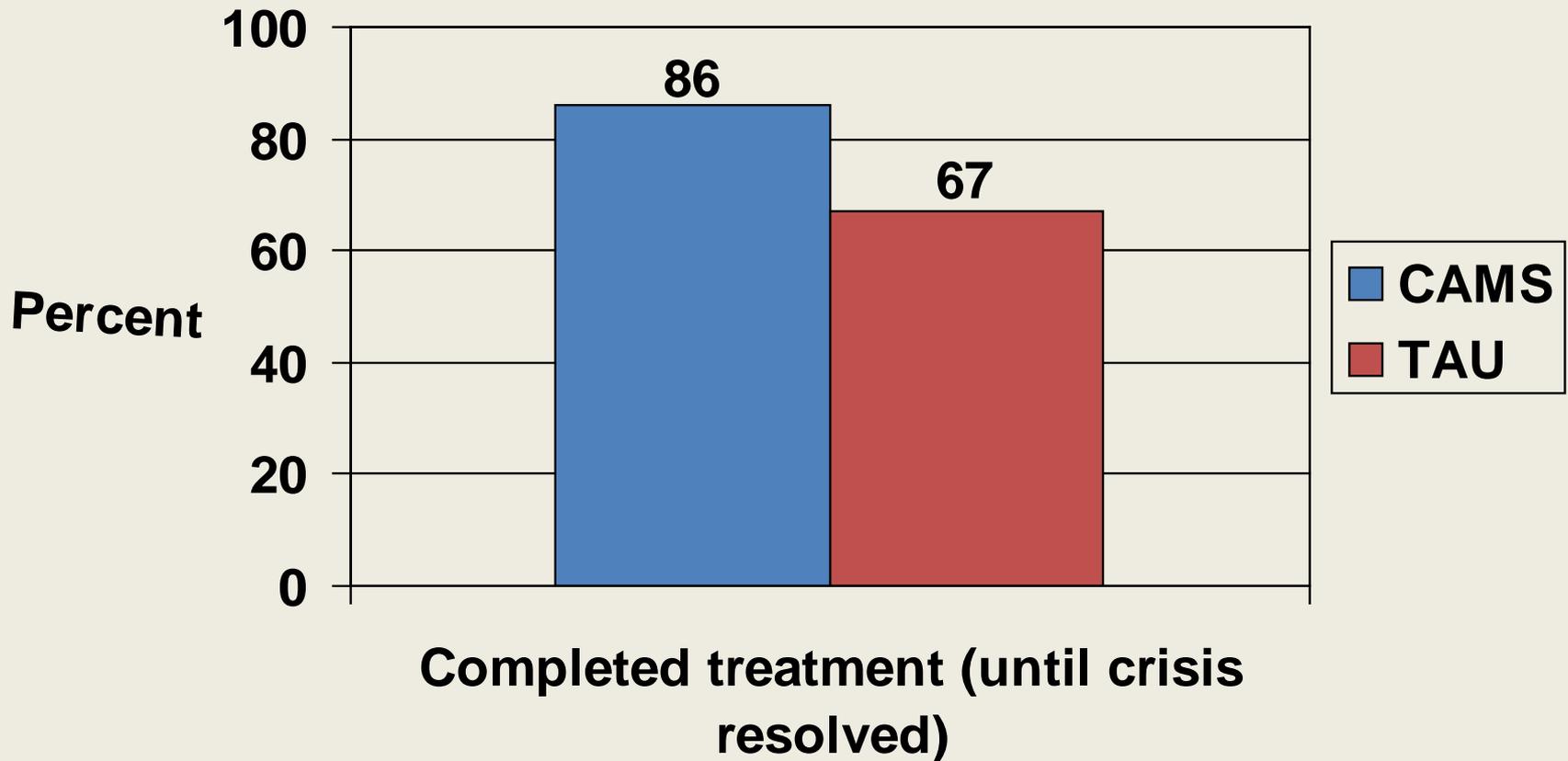
# Client Satisfaction

Average client satisfaction was high for both treatments (range 1-4). Satisfaction higher for the CAMS treatment condition



$t(24) = -2.76$   $p = .01$

## Treatment Retention



Total sessions ranged from low of 1 to high of 16 sessions:

**CAMS** = 2 to 16 sessions (mean = 8.5), 7% subject had < 3 sessions

**TAU** = 1 to 11 sessions (mean = 4.5), 53% subjects had < 3 sessions

# In summary



- 1. There are relatively few clinical trials for treatments for suicidality.**
- 2. Standard of care interventions such as inpatient and anti-depressants do not have strong support.**
- 3. Psychotherapy – particularly CBT and DBT have support.**
- 4. Caring letters alone have support.**
- 5. Psychotherapy emphasizes collaboration and directly treating suicidality. Perhaps this makes them more effective?**

Questions?

