REDDUCING SUICIDES AND NONFATAL ATTEMPTS BY 20% IN 5 YEARS: A DISCUSSION ABOUT THE NATIONAL SUICIDE PREVENTION RESEARCH AGENDA ASPIRATIONAL GOALS

PHILLIP SATOW, MA CO-LEAD, NATIONAL ACTION ALLIANCE FOR SUICIDE PREVENTION’S RESEARCH PRIORITIZATION TASK FORCE
CINDY CLAASSEN, PhD ASSOC PROF, UNIVERSITY OF NORTH TEXAS HSC
SHERRY MOLOCK, PhD NIMH SENIOR ADVISOR OF OUTREACH & ENGAGEMENT RESEARCH
JANE PEARSON, PhD CHAIR, NIMH SUICIDE RESEARCH CONSORTIUM
CHELSEA BOOTH, PhD 2011 PRESIDENTIAL MANAGEMENT FELLOW

for the
RESEARCH PRIORITIZATION TASK FORCE
Educational Objectives:

At the end of this workshop, audience members will be able to:

1. Describe the overall goal of the National Action Alliance for Suicide Prevention’s Research Prioritization Task Force (RTF).

2. Identify three aspirational goals being considered for inclusion in the research agenda and explain the process by which these aspirational goals were selected.

3. Explain how meeting each of these goals could contribute substantially to reducing suicidal acts in the U.S.
Presentation One:
OVERVIEW OF THE RESEARCH AGENDA DEVELOPMENT PROCESS & DISCUSSION OF THE RESEARCH PRIORITIZATION TASK FORCE GOAL

PHILLIP M. SATOW, CO-LEAD, RESEARCH PRIORITIZATION TASK FORCE
Relatively Intractable Suicide Rates

Annual U.S. Suicide Rates, 1950 - 2010

High since 1950 (1977) 13.01
Low since 1950 (1957) 9.67
Difference 3.34

GOAL 10. PROMOTE AND SUPPORT RESEARCH ON SUICIDE AND SUICIDE PREVENTION

Objective 10.1: By 2002, develop a national suicide research agenda with input from survivors, practitioners, researchers, and advocates.

Given $10,000,000, $50,000,000 or even $100,000,000 for incremental suicide research, how should it be used?
A New Research Paradigm Focused on Allowing Better Prioritization and Use of Resources

Create a paradigm focused on prioritization of research efforts.

Use the prioritization scheme to inform allocation of scarce resources.
FACT: Approximately $40,000,000 is expended for suicide prevention research each year in the USA.

Priorities for the future?

Source: National Institutes of Health Research Portfolio Online Reporting Tools (RePORT). Suicide Categorical Funding, FY08= $39 million; FY12= $49 million http://report.nih.gov/categorical_spending.aspx
Overall U.S. rates of suicide deaths have not decreased appreciably in 50 years. Each year, over 678,000 individuals report that they received medical attention for a suicide attempt; each year, more than 30,000 individuals die by suicide.

RTF Goal: To develop an agenda for research that has the potential to reduce morbidity (attempts) and mortality (deaths) each, by at least 20% in 5 years, and 40% or greater in 10 years, if fully implemented.
Action Alliance for Suicide Prevention

PRIVATE SECTOR
CO-CHAIR

PUBLIC SECTOR
CO-CHAIR

SECRETARIAT

EXECUTIVE COMMITTEE:
PRIVATE SECTOR MEMBERS (Senior executives of leading for-profit and non-profit organizations, philanthropic organizations, researchers and practitioners, and survivors of suicide loss and attempts)
PUBLIC SECTOR MEMBERS and EX OFFICIO MEMBERS

TASK FORCE A
TASK FORCE B
TASK FORCE C

ADVISORY GROUPS
NATIONAL COUNCIL FOR SUICIDE PREVENTION
FEDERAL WORKING GROUP ON SUICIDE PREVENTION
AD HOC ADVISORY GROUPS

http://actionallianceforsuicideprevention.org/?page_id=359
Research Prioritization Task Force Members

PHILLIP SATOW, MA—CO-LEAD PRIVATE SECTOR; EXCOM REPRESENTATIVE FROM NATIONAL COUNCIL ON SUICIDE PREVENTION; CO-FOUNDER AND BOARD PRESIDENT, JED FOUNDATION

THOMAS INSEL, MD—CO-LEAD PUBLIC SECTOR; DIRECTOR, NATIONAL INSTITUTE OF MENTAL HEALTH

ALAN (LANNY) BERMAN, Executive Director, American Association of Suicidology (AAS); President, International Association for Suicide Prevention (IASP)

MARY DURHAM, Vice-President, The Center for Health Research, Kaiser Permanente

SAUL FELDMAN, Chairman Emeritus, United Behavioral Health

THOMAS FRIEDEN, Director, U.S. Centers for Disease Control and Prevention (CDC)

ROBERT GEBBIA, Executive Director, American Foundation for Suicide Prevention (AFSP)

MICHAEL HOGAN, Commissioner, New York State Office of Mental Health

DAVID GROSSMAN, Medical Director, Preventive Care, Group Health Research Institute

DANIEL J. REIDENBERG, Executive Director, Suicide Awareness Voices of Education (SAVE); Managing Director, National Council for Suicide Prevention

Over 20 NIMH, NIDA, CDC, VA, and DOJ, staff and contractors help support the Research Task Force, and serve as liaisons with other task forces
CORE VALUES & OPERATING PRINCIPLES:

CORE VALUES: Through this research agenda development process, the Task Force seeks to produce a final agenda in which the very best science is represented as the highest priority. The Task Force seeks to do this by using procedures that promote inclusiveness, innovation and accountability.

THE GENERAL PRINCIPLES guiding the process are:

- **Timeliness:** We will take relatively prompt steps to meet established timelines.
- **Accuracy:** We will proceed in a way that minimizes the possibility of bias, inconsistencies or errors once the process has been completed.
- **Balanced Input:** We will design an input system with optimal variation in the choice of stakeholder groups surveyed.
RESEARCH PRIORITIZATION TASK FORCE

CORE VALUES & OPERATING PRINCIPLES (CONTINUED):

- **Adequate Sampling**: We will provide for an adequate sampling approach for stakeholder groups.
- **Critical Review**: We will give due consideration to what suicide research already has been completed and identify the important gaps that currently exist.
- **Structured Decision-Making**: We will develop plans for prioritization of research topics.
- **Transparency and Public Access**: We will build transparency into the process by ensuring public access to agendas and minutes and a way for unsolicited input to be received and considered.
- **Adequate Dissemination**: We will implement a plan for dissemination of information on the agenda development process and on the final agenda.
- **Behavioral Change**: We will encourage both funding agencies and suicide prevention scientists to consider and respond to key ideas in the final agenda and to adjust their priorities accordingly.
- **Long-term Maintenance**: We will create protocols to ensure that the agenda becomes a “living document.”
Research Prioritization Task Force

Agenda Development Process

- NIH Request For Information
- Literature & Grant Portfolio Review
- Stakeholder Survey and Delphi Process
- Selection of Aspirational Research Goals
- Research Agenda Developed Short- and Long-term Goals
- Dissemination of Agenda
- Maintenance & Updating & Changing Behavior

Process Designed

Expert Consultants

Burden Map of Suicide Attempts & Deaths

Models of potential lives saved

- http://actionallianceforsuicideprevention.org/task-force/research-prioritization
Key Concepts in Research to Reduce Suicide Burden

1. Develop a list of high-priority goals which – if met – will substantially reduce suicide burden

2. Define and articulate viable research pathways through which these goals can be realized
   • Identify and sequence the studies required to reach each goal
   • Address the most critical methodological barriers to achieving these goals

3. Disseminate the final agenda and cultivate the funding streams necessary to support this research
PROJECTED TIMELINE FOR AGENDA DEVELOPMENT

Feb 2012  Stakeholder analyses and brief summary completed
          Aspirational goals prioritized
          RFI [Request for Information] issued

Mar 2012  Portfolio analyses web platform built; portfolio data collected
          Qualitative analyses of stakeholder survey
          Literature review begins

April 2012 Burden maps / populations and surveillance resources refined

May 2012  Experts invited to consultation/writing tasks
          RFI input reviewed and summarized

June 2012 Portfolio analyses completed; targeted literature review completed

July 2012 Drafts of logic models and format of agenda developed;
           materials assembled for experts

Sept 2012 Experts initial in person meeting
          Experts multiple webinars to review logic models, evidence, identify
gaps, draft short and long-term research objectives

Dec 2012  Experts final meeting to review draft agenda

Feb 2013  Final Research Prioritization Report completed
### Stakeholder Survey process

1. Idea Generating Round
2. Initial Ranking & Rating Round
3. Discussion Round
4. Final Ranking & Rating Round

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http://actionallianceforsuicideprevention.org/task-force/research-prioritization
Presentation Two:
NEXT STEPS & ASPIRATIONAL GOAL ILLUSTRATION:
POPULATION-BASED RISK-REDUCTION / RESILIENCE-BUILDING

JANE PEARSON, PhD, NATIONAL INSTITUTE OF MENTAL HEALTH
CHELSEA BOOTH, PhD, 2011 PRESIDENTIAL MANAGEMENT FELLOW
Research Prioritization Task Force
Agenda Development Process

- Literature & Grant Portfolio Review
- Stakeholder Survey and Delphi Process
- NIH Request For Information
- Selection of Aspirational Research Goals
- Research Agenda Developed Short- and Long-term Goals
- Dissemination of Agenda
- Maintenance & Updating & Changing Behavior

Models of potential lives saved
Burden Map of Suicide Attempts & Deaths
Expert Consultants

http://actionallianceforsuicideprevention.org/task-force/research-prioritization
NEXT STEPS

Step One: Selection of Goal Statements
1. Systematically identify empirically-validated interventions and prevention initiatives (e.g., universal, selected and indicated) for various subpopulations.
2. Develop a grant portfolio data extraction tool that classifies and systematically organizes information about the research targets being addressed by currently-funded suicide prevention scientists.
3. Prioritize research goals that are practical and widely recognized by diverse groups of stakeholders as important to burden reduction.
4. Identify and solve the most important “methodological roadblocks” hindering intervention and prevention research and support the most promising new conceptual models in suicide prevention science.

Step Two: Identifying and Sequencing Research Pathways
1. Quantify burden within boundaried populations for each research goal.
2. Characterize the state of intervention development for each goal with logic models.
3. Quantify the potential burden reduction associated with specific classes of interventions by relative accessibility of boundaried population group.
STAKEHOLDER SURVEY

BRIEF SUMMARY OF FINDINGS

NATIONAL ACTION ALLIANCE FOR SUICIDE PREVENTION RESEARCH PRIORITIZATION TASK FORCE

STAKEHOLDER SURVEY RESULTS

BACKGROUND: The goal of the National Action Alliance Research Task Force (RTF) is to develop a research agenda that reduces suicidal attempts and suicides by 20 percent each within five years, and by 40 percent or greater within 10 years if the research agenda is fully implemented.

Three types of information-gathering processes will be used to provide input into the RTF suicide prevention research agenda:

- **Ongoing Studies Grant Portfolio Review.** A review of the scientific studies currently underway will be used to develop a working knowledge of the research targets being addressed by suicide prevention scientists.

- **Critical review of the scientific literature.** Literature reviews will be used to identify empirically-validated interventions and prevention strategies for various subpopulations.

- **Constituent Input.** Feedback from suicide attempters, relatives and close friends of individuals who have died by suicide, healthcare providers, policymakers/administrators and suicide prevention researchers in the form of a "Stakeholder Survey" will be used to identify the biggest scientific challenges in doing suicide research. The final results from the Stakeholder Survey will be used to understand the perspectives of many different stakeholder groups about the most important goals for suicide research. In addition, input through a Request for Information process.

http://grants.nih.gov/grants/guide/notice-files/NOT-MH-12-017.html
36,000 Suicide Deaths in 2009

- College Students: 200-1,000
- American Indians/AN: ~430
- Emergency Departments: ~9,300 (est.)
- Male Veterans: ~7,000 (est.)
- Primary Care Patients: ?
- Criminal Justice System: ~465

Data Sources:
- CDC WISQARS 2009
- CDC NVDRS 2005
- U.S. Army 2009-2010
- Schwartz 2011
- Bureau of Justice Statistics 2008-2009
**Literature Reviews**: The quality of systematic reviews will be evaluated using Cochrane protocols, and newer studies will be evaluated for the following factors:

a) evidence level/study design strength (e.g., randomized controlled trial, case study, observational),

b) type of prevention approach,

c) measurement of outcome (odds ratio, incidence) and effect size,

d) duration of follow up,

e) characteristics of research subjects (demographic, geographic), and

f) type of suicidal behavior studied (ideation, attempts, deaths).

**Grant Portfolios**: Online tool that uses a common language and a common classification system to classify and systematically organize information about the research portfolios of over twenty-five organizations that fund suicide prevention research in the United States to identify funding priorities over time.
Request for Information (RFI): A Call to Identify Key Methodological Roadblocks and Propose New Paradigms in Suicide Prevention Research

Notice Number: NOT-MH-12-017

Key Dates
Release Date: February 17, 2012
Response Date: April 27, 2012

Issued by
National Institute of Mental Health (NIMH)
National Institute on Drug Abuse (NIDA)
National Institute of Alcohol Abuse and Alcoholism (NIAAA)

Purpose

The National Institute of Mental Health (NIMH), National Institute on Drug Abuse (NIDA), and National Institute on Alcohol Abuse and Alcoholism (NIAAA) are seeking input to identify the types of research tools needed to support rapid advancement in suicide prevention research. Specifically, this request asks interested parties to provide input on the following topics: a) the key methodological roadblocks that currently exist in suicide prevention research, and b) new paradigms and theoretical models with the potential to spark innovative research. A methodological roadblock is defined as a critical, unresolved challenge that is clearly limiting progress along an important suicide prevention research pathway. New research paradigms and theoretical models are novel ways of thinking about suicidal behavior and avenues for its prevention.

This Request for Information (RFI) is issued as an invitation to interested parties to contribute these specific methodological challenges and new conceptual paradigms for inclusion in a compendium of ways to facilitate suicide prevention research progress.
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**What Do We Know?**

(2 – 3 paragraph summary, written in non-technical language)

**What Do We Need?**

(2 – 3 paragraph summary, written in non-technical language)

**Aspirational Goal:**

**Research Opportunities:**

▪ Bulleted, specific research targets

**Short-Term Objectives:**

**Long-Term Objectives:**
POPULATION-BASED RISK-REDUCTION / RESILIENCE-BUILDING
Aspirational Goal 1:

Prevent the emergence of suicidal behavior by developing and delivering the most effective prevention programs to build resilience and reduce risk in broad-based populations.
Flow Diagram for Creating Research that Impacts the Rate of Repeat Suicide Attempts

1. Scientific process: Consistent pipeline of Researchers and funding

2. Promising Approaches

3. Find high value targets

4. Breakthroughs in: Conceptual precision New constructs

5. Design & test practical interventions

6. Deploy

7. Adoption of evidence-based practices

8. Reduced suicide attempts & deaths

Questions to be answered:

1. What potential reduction in suicide burden would be associated with attaining AG1?

2. What breakthroughs would need to occur to facilitate attainment of AG1?

3. What intervention research would have to be completed in order to meet AG1?

4. What advancements toward AG1 are feasible in a 5–10 year time frame?
**Burden Example:** What is the **Suicide Attempt Burden** for College Students?

**National Survey on Drug use And Health (NSDUH), 2008 and 2009**

Full time college students age 18+ who reported attempting suicide in past year

N= 64,000

*Data Source: SAMHSA, Center for Behavioral Health Statistics and Quality*

http://www.oas.samhsa.gov/nhsda.htm
Round Zero Suggestions

Round zero suggestions for this goal pertaining to a college youth

Since 80% of suicidal students do not seek help from health services on campus, what can be done to inspire them to seek help (Survivor)

Evaluate an effective training program for peer support to prevention suicide that can be introduced as part of orientation programs for all students entering educational programs beyond high school (Policy/Administrator)

Educate service providers—doctors, teachers, college professors, police, etc about not fearing to talk about suicide.... Too many fear they will say something wrong (Provider)
Develop Overall Logic Model of Processes Believed to Produce Resilience

- Gender
- Biological/inherited risk
- Family context
- Geographic location
- Cultural factors

Life Stressors

- Optimal social functioning
- Good health
- Employment

Provide adequate early parenting environment

Promote safe schools & healthy peer relations

Promote healthy social connections & Lives worth living

Reduced Suicide Attempts / Deaths

Promote healthy social connections & Lives worth living

Provide adequate early parenting environment

Promote safe schools & healthy peer relations
Literature Review Example:
Elements of a Comprehensive Suicide Prevention Program for Colleges and Universities

(Jed/EDC Model, 2004)

Surveillance & Screening
- problem scope
- high risk groups

Crisis Management
- gatekeepers
- medical leave & return policies

Promote Mental Health & Well-Being;
Prevent Suicide
School Policy & Values

Mental Health Services
- on campus
- off campus links

Means Restriction
- bridges/hi bldgs
- alcohol access
- chemistry/ pharm

Life Skills Development
- stress mngmt
- mindfulness

Social Marketing
- improve help-seeking norms
- equality for mental health care

Social Network Connection & Promotion

Education
- student leaders
- other gatekeepers

**Intervention Example:**

**Life Skills Development Intervention**

*NIMH Grant by Hayes & Pistorello MH083740*

*(based on Biglan, Hayes & Pistorello 2008)*

**Screen**

Incoming Freshman for Experiential Avoidance

**Course in**

Acceptance & Mindfulness Psychological Flexibility

**Reduced Problem Behaviors**

- Alcohol Use
- Sleep Problems
- Body Image

**Campus Norms for**

Enhanced Problem Solving

**Potential Moderators**

Gender
Race/Ethnicity
Sexual Orientation
Veteran Status

**Reduced Suicide Ideation and Attempts**

*Level of evidence? Ready for Dissemination?*

*NIMH Grant by Hayes & Pistorello MH083740; Biglan, Hayes & Pistorello (2008), Prevention Science 9(3); 139-152*
Presentation Three:

TRAINING HEALTHCARE PROVIDERS

SHERRY DAVIS MOLOCK, PhD
ASSOCIATE PROFESSOR, GEORGE WASHINGTON UNIVERSITY
CHELSEA BOOTH, PhD
2011 PRESIDENTIAL MANAGEMENT FELLOW
Aspirational Goal #3

- To improve the quality of treatment across settings by training healthcare providers and other community-based gatekeepers to identify, intervene, and follow-up appropriately with high-risk suicidal individuals.

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Aspirational Goal 3 – Presentation Overview

Goal: To improve the quality of treatment across settings by training healthcare providers and other community-based gatekeepers to identify, intervene, and follow-up appropriately with high-risk suicidal individuals

Questions to be answered:

1. What potential reduction in suicide burden would be associated with attaining AG3?
2. What breakthroughs would need to occur to facilitate attainment of AG3?
3. What intervention research would have to be completed in order to meet AG3?
4. What advancements toward AG3 are feasible in a 5 – 10 year time frame?
Round Zero Suggestions to Achieve Aspirational Goal 3

• Suicide Education in Graduate Training Programs
  • To offer best practices suicide prevention training to all mental health professionals. To require all primary care physicians to take best practices suicide prevention training suicide prevention should now be made part of the curriculum for all mental health professionals and physicians. They need to be able to meet a client where he is instead of treating him like a hot potato.

• Training Beyond Mental Health Professionals
  ▪ Increase education of QPR to healthcare workers, teachers, clergy, law enforcement, funeral directors and bereavement [counselors] and support group leaders, AA, PTA, Girl and Boy Scouts, ... Development of a simple, but direct means of assessment and education for healthcare providers to use on admission and discharge from any inpatient or outpatient setting and for all staff involved in physician office settings and telephone/reception staff/appointment setters.
Round Zero Suggestions to Achieve Aspirational Goal 3

- Acceptability of Training & Integration of Training into Health Care Systems
  - Strengthen the research on suicide prevention practices. Gatekeeper training is a widely used [intervention] but it is unclear to what degree it is successful in prevention suicide. If its not, our time and effort might be better spent elsewhere. Henry Ford Health Systems has recently gone 2 1/2 years without a suicide among their MH clients by implementing "perfect depression care"; this should be research to determine what elements may be most efficacious and encourage replication.
36,000 Suicide Deaths in 2009

What potential reduction in suicide burden would be associated with attaining AG3?

Focus on Primary Care Systems

Across all ages, average of 45% of pts saw PCP within one-month before suicide death (Luoma et al. 2002)

Burden = 45%
45% of 36,000
16,200?

How many of the 36,000 persons who died by suicide were seen in PCP settings?

Primary Care Patients?
N = A Lot!


What breakthroughs would we need to achieve AG3?

- Better Surveillance
- Resources for Surveillance
- Consistency in Data Collection Across Systems of Care

**How To Reach Most Vulnerable Who Don’t Have Access to PC Systems**

- Change Norms/Values:
  - Need for Uniform Surveillance Data
  - Need for Integrated Systems of Care
    - Wrap-a-Round
    - Case Management

**WHO PAYS FOR INTEGRATED SYSTEMS OF CARE?**

Resources for Surveillance
What Intervention Research Would Need to Be Completed to Achieve AG3?

What are Most Effective Ways to Train Medical Students & PCP on Suicide Prevention

Most Effective Models of Delivery of Care Across Different Type of Care Systems:
- Private Insurance
- Medicaid/Medicare
- VA
- Managed Care

Process -- Impact

Implementation, Dissemination, Adoption & Sustainability of Suicide Prevention Practices Across Multiple Systems of Care

Feasibility -- Fidelity --
What Advancements toward AG3 are Feasible in 5-10 Years?

- Increase in Surveillance Systems
- Consistency in Data Collection For Surveillance
- Train Medical Students & Residents on Screening for Suicide
- Mandatory Suicide Prevention Training in all MH Graduate Training
- Training for Suicide Prevention in Primary Care Settings
- Post Doc Training For Suicide Prevention
- Evaluate Pre & Post Grad Training Programs
- Dissemination & Implementation Research
- Evaluation of Use Of Suicide Prevention Programs Across Systems of Care

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**Literature Review:** Elements of a Training Program for Primary Care Providers (PCP) (van der Feltz-Cornelis, et al., 2011)

- **Medical School/Residency Training**
- **Post Grad Training**
  - CEU’s
  - Prof orgs
  - State orgs
  - Managed Care
  - Credentialing?
- **Use Screening Tools**
- **Incr Know of Risk Factors**
- **Incr Know of Vulnerable Pops**
- **Incr Know of Pharmacological Tx**
- **Incr Referrals to MHP**
- **Use hotline for MHP consultation**
- **Incr dissem of MH info to pts.**

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Presentation Four:

EFFECTIVE CARE FOR ATTEMPTERS

CINDY CLAASSEN, PhD, ASSOCIATE PROFESSOR, UNTHSC
CHELSEA BOOTH, PhD, 2011 PRESIDENTIAL MANAGEMENT FELLOW
**STAKEHOLDER SURVEY**

### Stakeholder Survey process

1. Idea Generating Round
2. Initial Ranking & Rating Round
3. Discussion Round
4. Final Ranking & Rating Round

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[http://actionallianceforsuicideprevention.org/task-force/research-prioritization](http://actionallianceforsuicideprevention.org/task-force/research-prioritization)
Aspirational Goal 9 – Presentation Overview

Goal: Prevent repeat suicide attempts by improving follow-up care after a suicide attempt.

Questions to be answered:

1. What potential reduction in suicide burden would be associated with attaining AG9?
2. What breakthroughs would need to occur to facilitate attainment of AG9?
3. What intervention research would have to be completed in order to meet AG9?
4. What advancements toward AG9 are feasible in a 5 – 10 year time frame?
"Self-harm increases the likelihood 50- and 100-fold that the person will die by suicide within a 12-month period.” (NICE Pathway, 2012)

In 2009 there were:

**NSDUH**

- An estimated 1.0 million self-reported US adult suicide attempters.
  - An estimated 678,000 adults who reported they received medical care for a suicide attempt.

**NEISS-AIP**

- An estimated 325,242 adult patients treated in EDs for a known self harm episode.
- An additional 36,909 individuals who died by suicide.

---

Burden in Boundaried (Accessible) Populations:
“High-Yield” Environments in which to Identify and Treat Suicide Attempters

- Emergency Departments
  - Approximately 80% of all medically identified and treated suicide attempters receive immediate their post-attempt care in the emergency department or an inpatient setting

- Inpatient Psychiatric Units
  - 25-50% of all medically-treated suicide attempting patients experience some amount of inpatient psychiatric care after a suicide attempt.

Among those who experience a nonfatal suicide attempt:

- In US data, an estimated 8 – 14% of medically-treated (ED + Inpt) suicide attempters present to an ED or Inpatient setting for treatment of a reattemp within 12 months (26,019—45,534), so this is the absolute upper limit of attempts that could be eliminated with a 100% effective reattemp prevention strategy implemented in this setting.

Among those who go on to die by suicide:

- Approximately 15% of persons who die by suicide have been treated for a nonfatal self harm event in the emergency department within the 12 months prior to death (5,536).

A 100% effective intervention that prevented reattempts uniformly implemented in these environments would yield a reduction in national suicide and suicide attempt rates of 15% and 4%-7%, respectively.

1) **Overwhelmingly pessimistic view of current standard of care provided to suicide attempting individuals:**

- “Current insurance policies discourage the collaboration between inpatient and outpatient teams.” (Researcher)

- “The mental health care in this country is fragmented and plagued by poor handoffs of care. This is accentuated by the shortage of behavioral health clinicians in many areas of the country.” (Provider)

- “I believe that the fragmented, bureaucratized and impersonal mental health delivery system in the US fails, by and large, to help promote human connectedness between distressed, suicidal patients and their families, larger social networks, and the mental health delivery system itself.” (Provider)

- “What worked for me . . . had everything to do with steering clear of the mental health system. Seriously. The more you have a stake in the world, from jobs to social relationships, the more you have a reason to stay alive. The more you are sucked into the mental health system, the more your chances of meaningful education and employment and social relationships are reduced. (Suicide attempt survivor)
2) Specific, serious objections to involuntary hospitalization as it is now used:

- “The enormous distinction between people who need to be able to articulate suicidality (and retain control over the possibility of suicide in order to actually stay alive) and the people who end up really killing themselves (who in my experience don’t telegraph it and take careful steps to hide their suicidality) needs to be really understood. The former are harmed and damaged by involuntary treatments they call on themselves by their proclamations . . ; the latter, who might actually be helped by limited involuntary treatment, slip through the din created by the former group and we lose them forever.” (Suicide attempt survivor)

3) The dilemma the family faces when the attempter comes home:

- “Families and caregivers [of] an attempter need to be educated about suicide and need to be made aware of the suicide risks and warning signs to watch for. They also need to be provided with information and resources on what to do should their loved ones become suicidal again after they have been released from the hospital. Ignorance can be lethal.” (Suicide attempt survivor)
**BREAKTHROUGHS NEEDED**

1) **Policy Research – Confidentiality, Communication & Consent**

2) **More precise understanding of risk states / conditions – when & how long does imminent risk, near-term risk, high risk last?**

3) **Improved instruments by which to measure outcomes**

4) **Statistical techniques that can address rare events and/or validated proxies for outcomes of interest**

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### NICE, 2012 Suicide Risk Assessment Measures Review

<table>
<thead>
<tr>
<th>Scale (Cut-Off)</th>
<th>Sensitivity</th>
<th>Specificity</th>
<th>Positive Predictive Validity</th>
<th>Negative Predictive Validity</th>
<th>Prevalence (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suicide Intent Scale (10 men)</td>
<td>76.7</td>
<td>48.8</td>
<td>4.2</td>
<td>98.6</td>
<td>30/1049</td>
</tr>
<tr>
<td>Suicide Intent Scale (14 women)</td>
<td>66.7</td>
<td>75.3</td>
<td>4</td>
<td>99.2</td>
<td>24/1440</td>
</tr>
<tr>
<td>Beck Hopelessness (9)</td>
<td>77</td>
<td>42</td>
<td>8</td>
<td>96.5</td>
<td>13/212</td>
</tr>
</tbody>
</table>

**Sensitivity:** Proportion of those who go on to repeat self harm who have been identified as high risk on basis of scale score.

**Specificity:** Proportion of those who do not go on to repeat self harm who have been identified as low risk.

**Positive predictive validity:** Probability that a person with a positive score really has self-harmed.

**Negative predictive validity:** Probability that a person with a negative test really is free of self harm.

**Source:** [http://guidance.nice.org.uk/CG133/Guidance](http://guidance.nice.org.uk/CG133/Guidance)
LOGIC MODEL FOR ED-BASED INTERVENTION RESEARCH

(Screening to identify ED patients who acknowledge any level of suicidal ideation.)
Research Agenda

Experts Identify Research Opportunities:

a) Use Literature Review, Portfolio Analyses, RFI Input, Stakeholder Survey

b) Identify Promising Interventions

• 2013: Suicide Attempt & Death Rate Rising;
• Limited number of Preventive Interventions Fielded

Action Alliance
Data and Surveillance Task Force Guides Improvements in Available Data

• 2018+: Suicide Attempt & Death Rate Declining;
• Larger number of Preventive Interventions Fielded

Suicide Burden Defined in Subgroups within Boundaried, Accountable Systems

Estimate Number of Attempts/Deaths Prevented if Interventions Optimally Applied

Public & Private Research Funders Use & Update Research Agenda: Breakthroughs in Theory, Interventions

Accountable Systems Implement Evidence-Based practice

Stakeholders Inform Funding & Policy Decisions

• Estimate Number of Attempts/Deaths Prevented if Interventions Optimally Applied
• Accountable Systems Implement Evidence-Based practice
• Stakeholders Inform Funding & Policy Decisions

• 2013: Suicide Attempt & Death Rate Rising;
• Limited number of Preventive Interventions Fielded

• 2018+: Suicide Attempt & Death Rate Declining;
• Larger number of Preventive Interventions Fielded
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