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Enhancing Risk Assessment across Mental Health Services

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Enhancing risk assessment across mental health services

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The objective

- Educate clinicians for minimizing the chances of error in clinical assessment for suicide behavior
- Training of non-psychiatric professionals for risk assessment
- -Enhance standard of care

What is the purpose of risk assessment?

- > Establish clinical needs
- Prediction of an attempt
- Decide level and quality of care
 - Management issues
 - Policy matters
 - Patient safety
 - Standard of care
- Component of suicide prevention

Assessment: Dimensions

- Chances of suicide attempt in a time span (when)
- 2. Nature of intervention (what)
- 3. Setting of intervention (where)
- 4. Risk (how)
- 5. Personnel for assessment (who)

Training of the trainers

Identification

Assessment

Intervention

Deciding

nature of management,

level of monitoring,

need for hospitalization

and

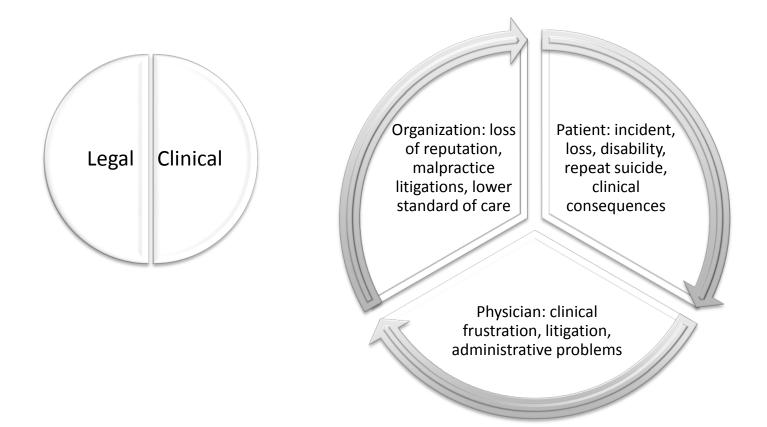
planning of care

Limitations in Risk Assessment

- Too many factors and too many variations
- Prediction of suicide behavior has been a core area of research in suicidology
- Several psychological & biological Markers have been proposed.
- Neither are free from false positive and false negative results
- Conventional method has been a thorough clinical assessment which get enriched by aid of structured interviews.
- Scales are useful: either self-administered, clinician administered or computer-based

Suicide in Clinical Practice is not uncommon

- > 1 in 6 completed suicides are patients in psychotherapy
- ➤ 50% of completed suicides have had previous experience in psychotherapy
- ➤ 1 of every 2 psychiatrists will lose a patient to suicide across (mean) 19.3 years practice
- > 30% psychiatric residents across 4 years' residency
- ➤ 1 of every 4 psychologists will lose a patient to suicide across (mean) 18.5 years practice
- > 17% of psychology interns across 5.2 by internship



PROBLEMS ARISING FROM INADEQUATE RISK ASSESSMENT

Outcomes in Risk Assessment

Clinical outcomes in management of suicide behavior depends on:

- 1. quality of assessment
- 2. quality of intervention

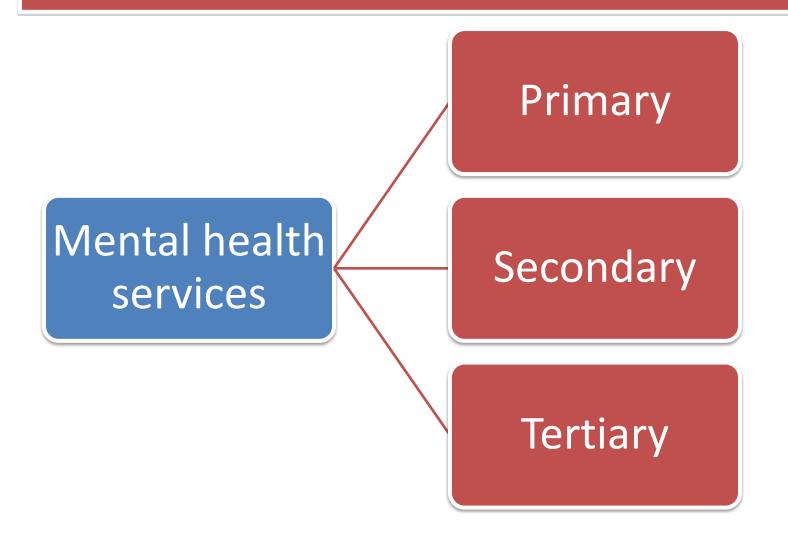
Risk assessment quality Possible scenario	Intervention & monitoring	Outcome
1. High quality risk assessment	High quality management and monitoring	Still client attempts or commits
2. High quality assessment	Resource constrains, inadequate management	Incident
3. Poor risk assessment	Intervention and monitoring was inadequate	Incident

Suicide

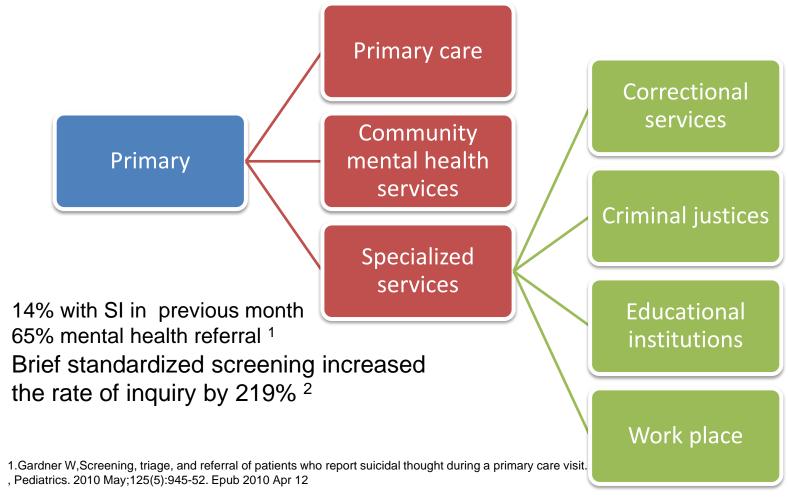
Those who contact the services

Those who do NOT contact the services

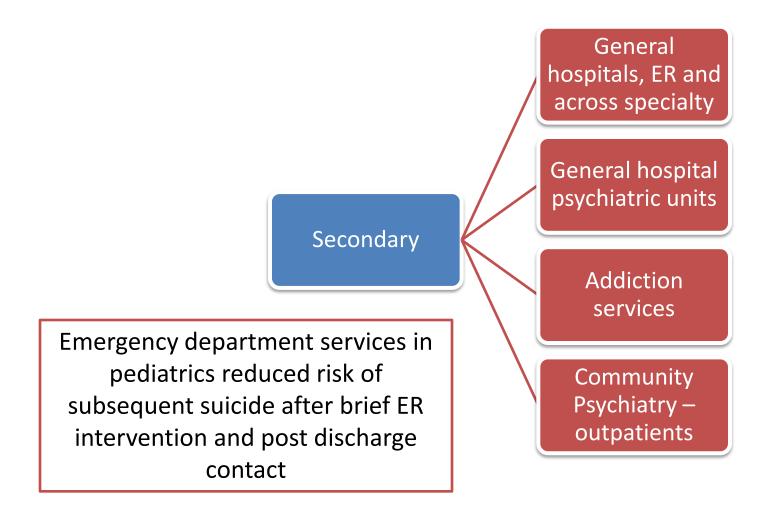
Mental health services - Settings



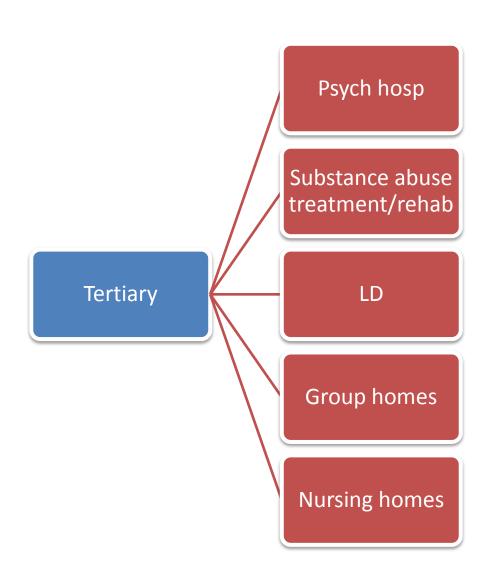
The first contact



2. Wintersteen MB. Standardized screening for suicidal adolescents in primary care. Pediatrics. 2010 May:125(5):938-44. Epub 2010 Apr 12.



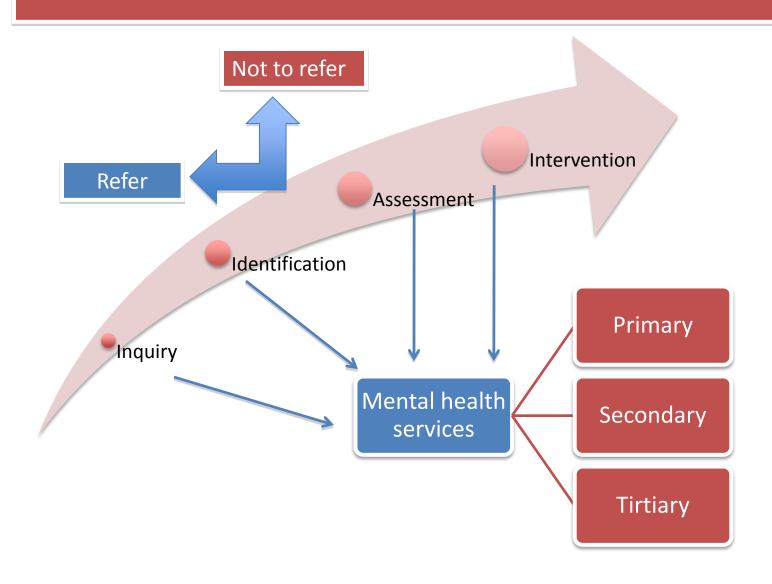
Newton AS,Pediatric Suicide-Related Presentations: A Systematic Review of Mental Health Care in the Emergency Department. Ann Emerg Med. 2010 Apr 8.



Special populations

- Suicide is no longer limited to mental health settings
- Special high-risk populations are clearly becoming newer challenges in the task of suicide prevention
- Some of the high-risk groups are:
- Teen age, post-partum, old age, substance abuse, chronic medical illness, trauma & disaster, emotional & sexual abuse, mental disorders.

Suicide prevention



Common need in all settings

- Identification
- Assessment
- Intervention
- Prevention

Risk assessment across treatment settings

- Rising incidence of suicide attempts have been observed in a wide variety of clinical & social settings e.g. schools, universities, prisons, correctional facilities & health services.
- To provide effective intervention & prevention, we require adequate tools and skills for assessment which can be effectively applied by a range of professionals.
- There is a serious lack of skilled professionals with adequate knowledge & expertise in most of the social & non-psychiatric settings.

Risk factors are 'additive' & 'synergetic'

Risk factors are typically additive (i.e., the patient's level of risk increases with the number of risk factors), they may also interact in a synergistic fashion.

 For example, the combined risk associated with comorbid depression and physical illness may be greater than the sum of the risk associated with each in isolation.

Weighting of risk factors in suicide prediction it is impossible to accurately predict suicide.

Statistical models may be valuable in the epidemiological and research arenas

Suggest clinically important risk factors that, if identified, are potentially amenable to treatment.

However, given the low base rates of suicide in the population, accurate prediction of suicide remains impossible,

Consequently, the psychiatric assessment, in combination with clinical judgment, is still the best tool for assessing suicide risk.

Rating scales for risk

- The Scale for Suicide Ideation (8)
- The Suicide Behavior Questionnaire (SBQ)
- The Suicide Intent Scale (9)
- Reasons for Living Inventory
- Risk-Rescue Rating,
- Suicide Assessment Scale,
- Thematic Apperception Test
- General Health

- Questionnaire
- Shneidman (745) psychological pain assessment
- Beck Hopelessness Scale
- Hamilton Depression Rating Scale
- Beck Depression Inventory.

Rating scales

Because of their

- high rates of false positive and
- false negative findings and
- their low positive predictive values,
- these rating scales cannot be recommended for use in clinical practice in estimating suicide risk.

A recent evaluation concluded:

"no single instrument was able to accurately predict suicide risk without a significant amount of error" (Bisconer & Gross, 2007).

Qualities of appropriate and reasonable assessment tools

An important part is developing assessment instruments which can successfully differentiate between individuals at serious risk and those who are not.

High validity culture free

Specific, sensitive reliable

Used by all mental health professionals

success in predictability

Applicable Across medical setting

free from bias

minimum false negative false positive

Conceptually Incorporates available research evidence

guide for treatment and care planning and appropriate clinical decision

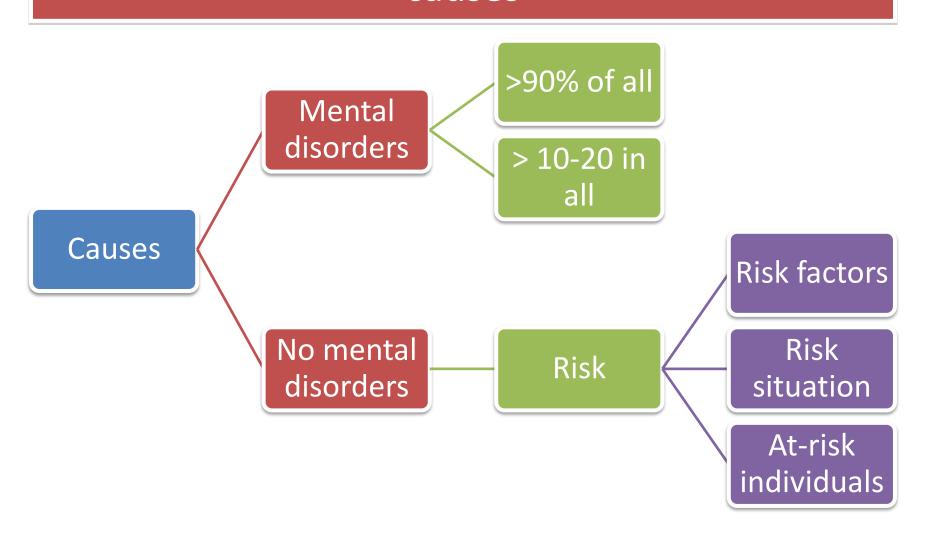
Ducher JL, Dalery J.

[Correlations between Beck's suicidal ideation scale, suicidal risk assessment scale RSD and Hamilton's depression rating scale] Encephale. 2008 Apr;34(2):132

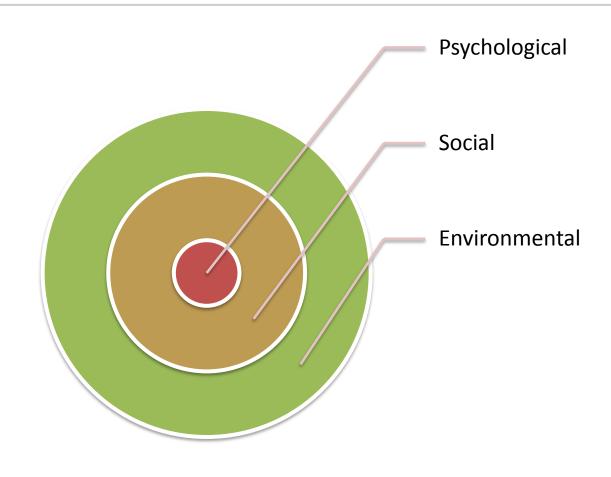
PROTECTIVE FACTORS

- Children in the home, except among those with postpartum psychosis
- Pregnancy
- Deterrent religious beliefs
- Life satisfaction
- Reality testing ability
- Positive coping skills
- Positive social support
- Positive therapeutic relationship

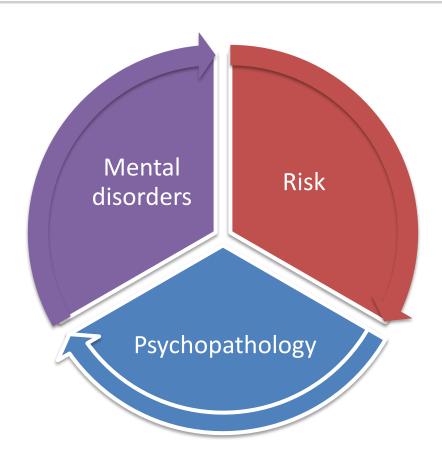
Need for paradigm shift in understanding the causes



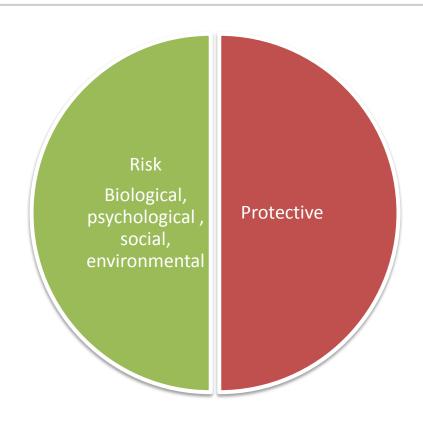
Risk for suicide in NO mental disorder group



What is to be assessed



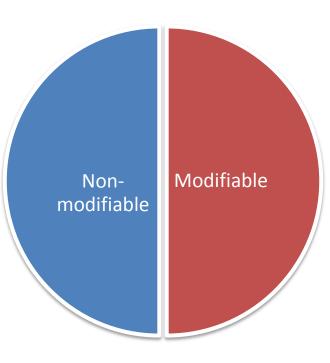
Formulation of risk



Estimation of Suicide Risk

the 'factors are not the focus of treatment'

- Past history,
- family history, and demographic characteristics
- Abuse
- trauma
- Financial difficulties or unemployment can also be difficult to modify,
- at least in the short term.



- Psychological
- Mental illness dimensions.
- Stress experience
- Self-esteem
- Frustation tolerence
- Impulsivity
- Symptoms of mental illness
- Depression-hopelessness

Psychopathology across mental disorders

- Impulsivity
- Depression-hopelessness
- Low frustration tolerance
- Cluster B traits

Conceptual framework

- Concept of risk has been questioned for a long time.
- It appears that it is a continuously evolving process.
- Suicide is a multidimensional concomitant of psychiatric diagnoses; especially mood disorders, and is complex in both its causation and in the treatment of those at risk.
- Risk and protective factors tend to be fairly consistent worldwide, with some cultural variation.

Conceptual framework

- Concept of risk has been questioned.
- Continuously evolving process.
- Suicide is multidimensional.
 Multifactorial
- Risk and protective factors tend to be fairly consistent worldwide, cultural variation).
- An electronic search about risk factor elicited total 76 factors

- Classifiable into:
 - Biological,
 - Social,
 - Psychological,
 - Environmental,
 - Psychiatric,
 - Medical,
 - Cultural,
 - Spiritual and
 - Familial domains.

Factors Associated With an Increased Risk for Suicide

Suicidal thoughts/behavi ors

Suicidal ideas (current or previous)

Suicidal plans (current or previous)

Suicide attempts (including aborted or interrupted attempts)

Lethality of suicidal plans or attempts

Suicidal intent

Psychiatric diagnoses

Major depressive disorder Bipolar disorder (primarily in depressive or mixed episodes)

Schizophrenia

Anorexia nervosa

Alcohol use disorder

Other substance use disorders

Cluster B personality disorders (particularly borderline personality disorder)

Comorbidity of axis I and/or axis II disorders

Physical illnesses

Diseases of the nervous system

Multiple sclerosis

Huntington's disease

Brain and spinal cord injury

Seizure disorders

Malignant neoplasms

HIV/AIDS

Peptic ulcer disease

Chronic obstructive pulmonary disease, especially in men

Chronic hemodialysis-treated renal failure

Systemic lupus erythematosus

Pain syndromes

Functional impairment

Psychosocial features*

- Recent lack of social support (including living alone)
- Unemployment
- Drop in socioeconomic status
- Poor relationship with familya
- Domestic partner violenceb
- Recent stressful life event

Childhood traumas

- Sexual abuse
- Physical abuse
- Genetic and familial effects
- Family history of suicide (particularly in first-degree relatives)
- Family history of mental illness, including substance use disorders

Psychological features

- Hopelessness
- Psychic paina
- Severe or unremitting anxiety
- Panic attacks
- Shame or humiliationa
- Psychological turmoila
- Decreased self-esteema
- Extreme narcissistic

vulnerabilitya

ssful life event

Polarized thinking

Closed-mindedness

vision)

against others

Agitation

Demographic features

Cognitive features

Loss of executive functionb

Thought constriction (tunnel

Aggression, including violence

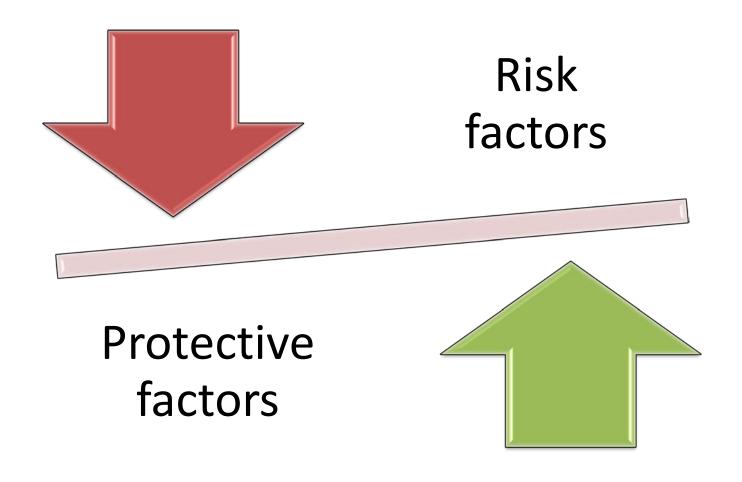
- Male genderc
- Widowed, divorced, or single marital status, particularly for men
- Elderly age group (age group with greatest proportionate risk for suicide)
 - Adolescent and young adult age groups (age groups with highest numbers of suicides)
- White race
- Gay, lesbian, or bisexual orientationb

Additional features

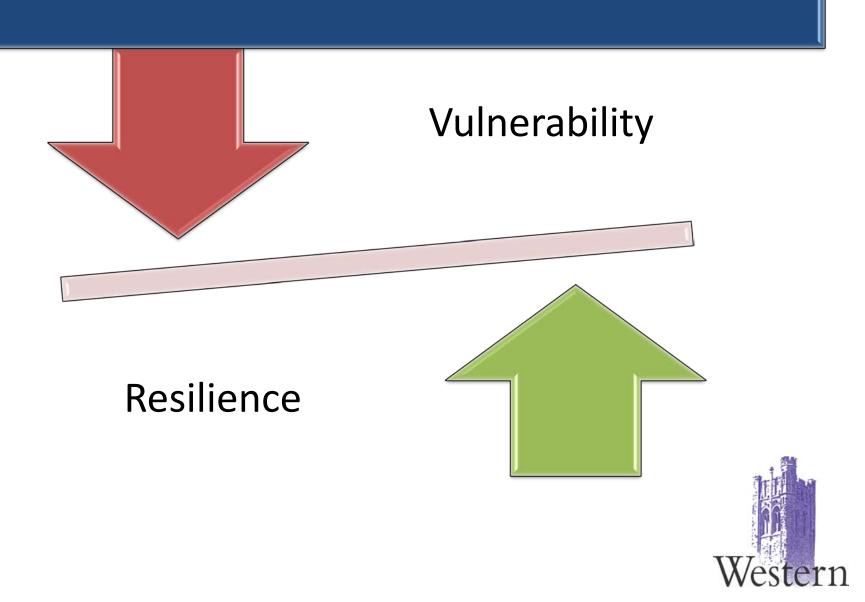
- Access to firearms
 - Substance intoxication (in the absence of a formal substance use disorder diagnosis) Unstable or poor therapeutic relationshipa

- Behavioral features
- Impulsiveness

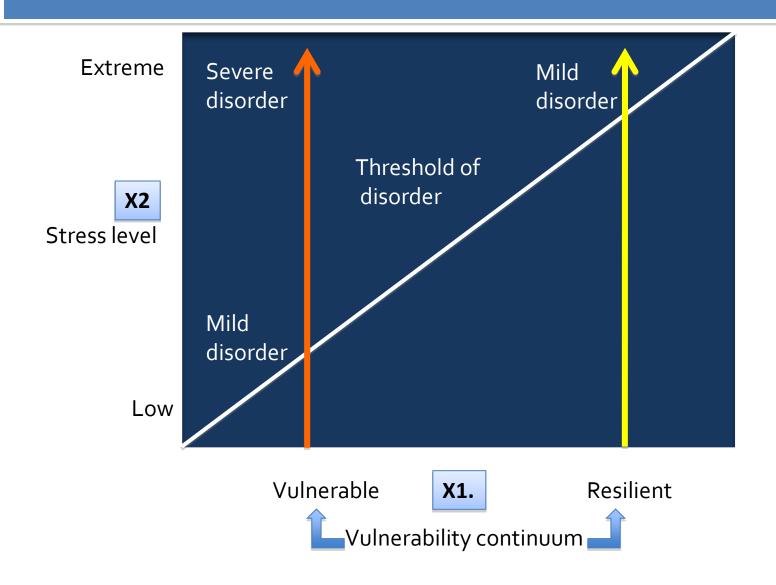
Risk- Vulnerability Spectrum Its Not a dichotomy



Risk is measured in relation to strength



Stress-diathesis model forms the theoretical context of Risk-Vulnerability hypothesis



Protective Risk factors factors Spirituality, belief, attitude Poor coping , mental, physical illness, SUD Personality development

Lack of support system

Current mental state

Recent life events, loss

State risk: determines current or situational response Personal belief



Presence of mental illness

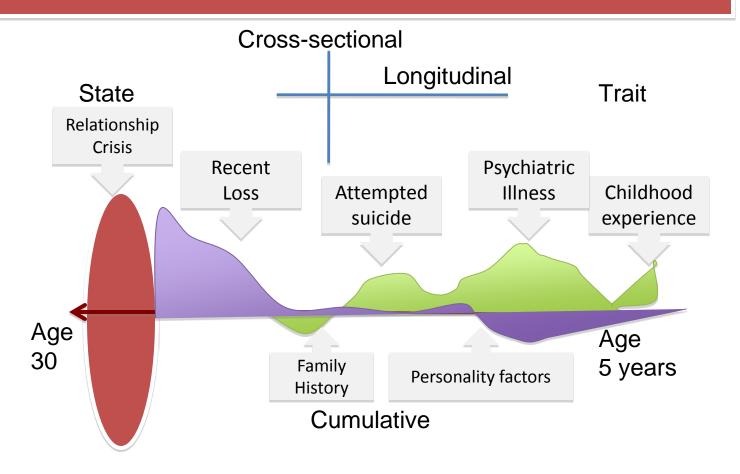
Adverse childhood experiences

Genetics/ familial

Trait risk: determines life time risk Learned coping mechanism



Quantifying Risk (cumulative)



State & Trait Risk

Trait

risk:

Fixed

factors

Current

absolute risk

State

actors

Trait risk:

State risk:

which an individual goes through due to current life situation.

state risk determines
current or situational
response in presence
of recent life events,
lack of support system,
current mental state &
personal belief system.

with which an individual is born and develops limitations in coping mechanism.

Trait factors determine lifetime risks arising from genetics-familial, presence of mental illness, adverse childhood experience & learned coping mechanism.

Hypothesis



A net sum of risk shall be the quantum of risk factors in relation to risk protectors in a given individual at a given situation.

Based upon these understanding a new scale has been developed named SIS-MAP.

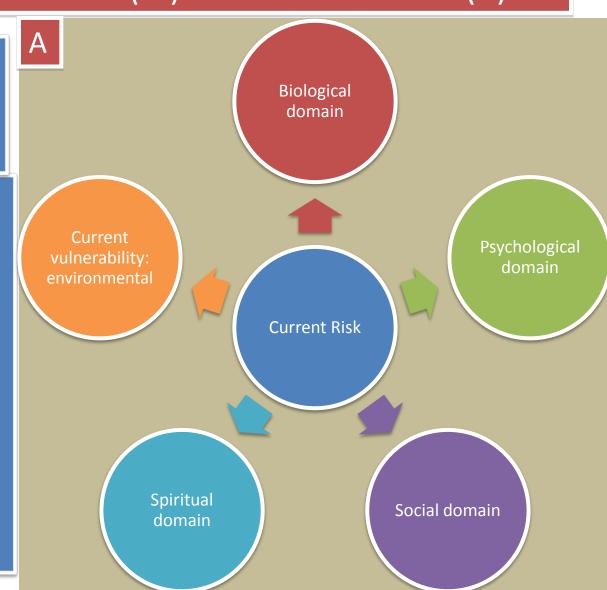
Design of present scale assessment in 5 Domains (A) and 8 dimensions (B)

В

Comprehensive, global, biopsychosocial assessment

Current risk level

- 1. . Demographics
- 2. Biological
- 3. Psychological Domain
- 4. Clinician ratings/observations
- 5. Primacy/Recency
- 6. Family History
- 7. AXIS IV: Psychosocial and Environmental Problems
- 8. Protective factors



	Caseboo	k#:			
Scale for Impact of Suicidality - M	lanagement, NAN	Æ:			
Assessment and Planning of Care	(SIS-MAP)				
A. Srivastava, M.D. & C. Nelson, Ph.D. (2008)	B)* DAT	E:			
1. Demographics					Score
Age in years:	Score 1 for ages 15-25 or 70)+ year.	s 🗲		
Gender:	Score 1 for male		\rightarrow		
Marital status:	Score 1 for recent widow/wi	dower	\rightarrow		
Number of children living with you:	Score 1 for single parenting		→		
Inpatient or outpatient (circle)	Score 1 for inpatient		\rightarrow		
	Subtotal for Demogr	aphics	section 1:		
2. Psychological Domain		Iten	n Scores (ri _l	ght colu	mn = 1
Ideation:			0		1
I. Do you feel that life isn't worth living?		No		Yes	
Do you think you would be better off dead?		No		Yes	
Do you get ideas to hurt yourself?		No		Yes	
Are you facing any 'situation' in which you	might hurt yourself?	No		Yes	
Do you feel you are vulnerable to hurting yo	ourself?	No		Yes	
Have you been thinking of hurting yourself	recently?	No		Yes	
Currently, do you think that dying might be	a better option?	No		Yes	
Have you recently attempted to hurt yoursel	f? (i.e. within last 7 days)	No		Yes	
Do you often hurt yourself by cutting or over	erdose of pills?	No		Yes	
Do you get suicidal ideas?		No		Yes	
	Subto	_	section 2I:		
		(right	column = 1)		

--- -

- -

		····	• -/	
Management of ideation:				
M. How often do you get these thoughts?	Score1 for rarely, 2	2 for occasionally	\rightarrow	
How intense are these thoughts?	Score 1 for low, 2 i	moderate, 3 high	\rightarrow	
Can you control these thoughts?		Yes	No	
Can you cope with distressing thoughts of suicion	de?	Yes	No	
Do you wish to be killed?		No 🗌	Yes	
Do you wish to die?		No 🗌	Yes	
Do you fear losing control and attempting suicid	le?	No 🗌	Yes	
Are you uncertain about the nature of your suici	dal thoughts?	No 🗌	Yes	
Do you believe in communicating about your su	icidal thoughts	_		
to others?		Yes	No	
Do you believe in seeking help for suicidal thou	ghts?	Yes	No	
	Su	btotal for section	n 2M:	
		(right column	ı = 1)	
Assessment of current state of suicidality (cons	ider current thought	processes and/or	r recent atte	mpt)
A. Do you currently feel suicidal?		No 🗌	Yes	
Do you feel hopeless?		No 🗌	Yes	
Do you feel helpless?		No 🗌	Yes	
Do you feel worthless?		No 🗌	Yes	
Do you feel sad or depressed?		No 🗌	Yes	
Do you feel any guilt?		No \square	Yes	

^{*}Unauthorized usage prohibited. Contact dr.amresh@gmail.com or charles.nelson@sjhc.london.on.ca for more information.

|--|

Psychological Domain, continued

Have you attempted to kill yourself? If no	, skip to question P	No		Yes	
Did you want to die ¹ ?		No		Yes	
Were you certain that you wanted to die?		No		Yes	
Did you want attention from someone?		No		Yes	
At the time of your attempt, were you depressed	1?	No		Yes	
At the time of your attempt, were you angry wit	h yourself?	No		Yes	
Do you want to attempt again?		No		Yes	
Was the method damaging to your body? (specific	(v)	No		Yes	
Do you regret it?		Yes		No	
Did you speak to someone before making the at	tempt?	Yes		No	
Did you inform anyone afterwards?	•	Yes		No	
Did you leave a suicide note?		No		Yes	
Are you still stressed about it?		No		Yes	
Are you feeling relieved?		Yes		No	
Are you feeling safe in the hospital? (if applicab	ole)	Yes		No	
Do you feel safe in your house?		Yes		No	
Do you feel guilt or shame?		No		Yes	
Was your attempt because of your mental illnes	s?	No		Yes	
Is it because of your social situation or due to ps	sychological distress?	No		Yes	
Who do you hold responsible for the attempt?	Score 1 if client mentio	ns fami	ly; score 1 if	`client	
	says self; score 2 if cli	ent mer	itions both	→	
Do you still have suicidal ideas?		No		Yes	
Do you want to seek help?		Yes		No	
Do you think you can deal with it yourself?		Yes		No	
	Subto	tal for	section 2A:		

Planning for subsequent attemp	t:			(right column =	1)	
P. Do you think you will get suicid		s in the future?		No \square	Yes	
Will you be able to cope with the				Yes	No	Ħ
Do you think you will attempt suicide in the future?				No \square	Yes	H
Do you think you need treatment				Yes \square	No	H
Do you think your illness needs tr				Yes \square	No	H
Do you tillik your tilless needs ti	Cauncin	ıı	Cubtos	tal for section		
			Subibl	ut for section . = right column:	_	
Subto	tal of a	ll Psychologic	al Domain secti	1 0004440000	,	
Subio	iui oj u	ii I sychologic	ai Domain Section	011.5 (21, 21/1, 22	1, 21).	
3. Comorbidities (check all that	t apply	7)				
Alcohol abuse or dependence		History of		Current		
Orug abuse		History of		Current		
Sexual abuse		History of		Current		
Physical abuse	Ħ	History of	Π	Current		
Emotional abuse/exploitation	Ħ	History of	Π	Current		
-	tal for	•	section (count a		s):	

¹ Client should be instructed to answer these questions with reference to the most recent attempt.

	C	asebook#:			
4. Family History (in	cluding siblings, parents, or grandpa	arents)			
Suicide attempt	(family member)	No		Yes	
Death due to suicide	(family member)	No		Yes	
Mental illness	(family member)	No		Yes	
Addictions or alcoholism	(family member)	No		Yes	
Su	btotal for Family History (Score 1 for ea	ich Yes in thi	s sectio	n):	
5. Biological Domain	i e				
Do you currently have ar	ny psychiatric illness? (specify)	No		Yes	
Do you have any chronic		No		Yes	
Do you suffer from frequ	ent mood swings?	No	\Box	Yes	\Box
Do you think you are suf	fering from an 'undiagnosed psychologica	al	_		
disorder' like anxiety, de	pression, psychosis, memory loss, lack of	drive			
	easily stressed? if no, section is finished	No		Yes	
	ng your life in terms of functioning				
and day to day living?	······································	No		Yes	
	for this Biological Domain (Score 1 for e	ach Yes in th	is secti	on):	

6. Protective factors for suicide risk				
Do you benefit from community or outpatient support/counseling?	No		Yes	
Is your family practically supportive of your problems and your recovery?	No		Yes	\Box
Does your faith or spirituality help you in dealing with your problems?	No		Yes	
Do you have children that rely on you, and depend on your well-being?	No		Yes	
Do you live in impoverished conditions?				
(difficulty paying for food and shelter)	Yes		No	
Do you think you are worthy of living?	No		Yes	
Do you have good self-esteem? (believe that you are a worthwhile person)	No		Yes	
Have you succeeded when faced with similar life challenges?	No		Yes	
Is your home environment safe and stable?	No		Yes	
Do you savour life's satisfying moments?	No		Yes	
Do you have additional reasons for not committing suicide? (specify:)	No		Yes	
Subtotal for P	roteci	tive factors:		
		column = 1)	_	

7. Clinical ratings/observations	(right	column = 1)		
Does client lack insight?	No		Yes	
Is there evidence of a personality disorder or issues related to personality?	No		Yes	
Is there presence of psychosis?	No		Yes	
Is there evidence of impulsivity? (i.e. behavioral dyscontrol)	No		Yes	
Would you consider client vulnerable due to any of the following?				
Personal crisis (i.e. extremely adverse situational event)	No		Yes	
A dysfunctional or chaotic home environment	No		Yes	
Recent childbirth or abortion	No		Yes	
Existential issues (i.e. no meaning in life)	No		Yes	

^{*}Unauthorized usage prohibited. Contact dr.amresh@gmail.com or charles.nelson@sjhc.london.on.ca for more information.

	Casebook#:	
For attempters only: Was the method used capable of causing death?	No \square	Yes \square
Was the attempt planned?	No 🗆	Yes
Subtotal for Clinical ratings/observations (Score 1 for	each Yes in this sect	ion):
8. Psychosocial and Environmental Problems ²		
Score 1 for every problem named in this section Check:		
Problems with primary support group (specify):		
Problems related to the social environment (specify):		
Educational problems (specify): Occupational problems (specify):		
Housing problems (specify):		
Economic problems (specify):		· · · · · · · · · · · · · · · · · · ·
Problems with access to health care services (specify):		
Problems related to interaction with the legal system/crime (s	specify):	
Other psychosocial and environmental problems (specify):		
Subtotal for Psychosocial/Environmental (co	ount all check marks,):

SIS-MAP Clinical Profile:

	Demographics:
I-MAP subscales	Psychological Domain:
2I- Ideation:	Comorbidities:
2M- Management	Family History:
2A- Assessment	Biological Domain:
2P- Planning	Clinical ratings/observations:
	Psychosocial/Environmental:
	Total of all above sections:
	Protective Factors: (subtract): -
	SIS-MAP Risk Index:

The mean total scores on the SIS-MAP for individuals who were admitted (M = 23, SD = 9) vs. not admitted (M = 33, SD = 14) and their respective standard deviations were used to establish clinical cut-offs. Thus, it was determined that scores falling between 13 and 23 represent individuals who require outpatient follow-up but do not require admission (individuals who score less than 13 likely require no follow-up). Individuals who score above 33 on the SIS-MAP are at a serious risk of suicide and should be admitted to a psychiatric facility. Scores between 23 and 33 require clinical judgment to determine the level of care required.

Contents & measurements of the new scale



Psychometric Properties

- Inter-rater reliability
- The inter-rater reliability of the scale was assessed by videotaping a case vignette in which a therapist administers the structured interview to a mock client.
- The twenty clinicians rated: included registered nurses, social workers, occupational therapists, and psychometrists.
- SIS-MAP has shown an inter-rater reliability between 0.71 and 0.81 (x=. 76) N=20, p<. 001.
- In the field trial it has demonstrated a specificity of 78.1%, sensitivity of 66.7% and validity of correctly classifying 74%. On comparison with other popular scales SIS-MAP comes out as parallel on all parameters.

 Even with standardized assessment and prediction scales (such as the Hamilton or Beck depression inventories), suicide prediction results in about 30% false positives.¹²

Comparison of SIS-MAP to other suicide risk assessment scales

	SIS-MAP	SPS	SPS-clinical scales	ASIQ	BDI-II
Specificity	78.1%	65.9%	81.3%	71.4%	70.3%
Sensitivity	66.7%	58.3%	63.6%	64.0%	72.0%
Correctly Classified	74.0%	63.1%	74.1%	71.0%	68.7%

Results:

Correlations among Variables and Admission Status

 Whether individuals were admitted or not was correlated with various outcome measures. Analyses demonstrated that admission status was correlated with subtotals in the protective domain (r = -.333, p < .05), suggesting that individuals with higher levels of resilience factors were less likely to be admitted, a key assumption of the SIS-MAP.

Additionally, the individual items of previous suicide attempts and the presence of psychosis were correlated with admission status (r = .368, p < .05, and r = .321, p < .05 respectively).

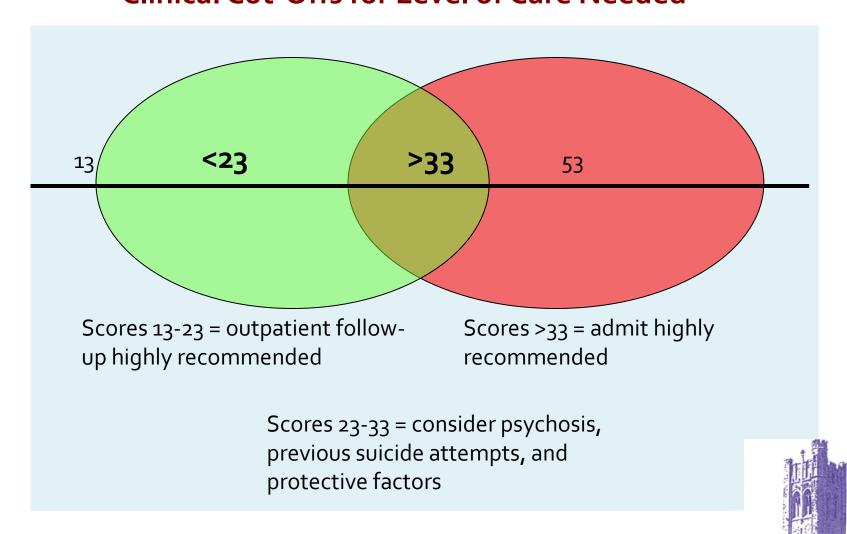
Classifying Individuals Using the SIS-MAP

The specificity of the scale (correctly identifying individuals who did not require admission) was 78.1%

while the sensitivity of the scale (correctly identifying individuals who required admission) was 66.7%.

The false positive rate was 33.3% while 21.9% of cases resulted in a false negative.

SIS-MAP Clinical Cut-Offs for Level of Care Needed



SIS-MAP Subscale Predictions of Outcome

 Three stepwise regressions using scores on subscales to predict outcomes

Outcomes:

- Length of stay (number of inpatient days)
- Readmission within 6 months (yes or no)
- Suicide attempt within 6 months (yes or no)

Outcome: length of stay

• Only significant predictor was clinical subscale $(\beta = 2.62, p = .004)$

Higher clinical ratings predict a longer inpatient stay

Outcome: readmission in 6 months

• Significant predictors were demographic subscale (β = .294, p = .002) and management of ideation subscale (β = .068, p = .028)

 Higher demographic risk and lower ability to manage ideation are associated with greater likelihood of readmission within 6 months

Outcome: suicide attempt within 6 months

• Only significant predictor was total score on psychological domain (β = .034, p = .015)

 Greater ideation, planning, and current suicidality and lower ability to manage these thoughts relate to a greater likelihood of a subsequent suicide attempt within 6 months

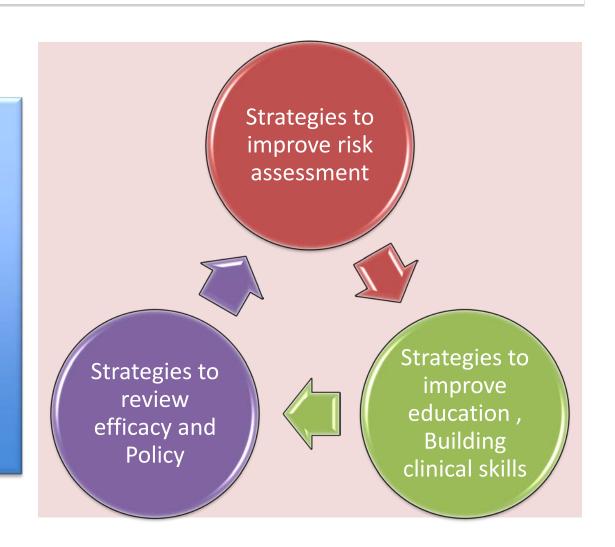
Strategies to improve quality of risk assessment: WHO Recommendations

- 1. Requires a public health approach.
- 2. The burden of suicide is so large that prevention could be considered the responsibility of an entire government, under the leadership of the health ministry.
- Suicide-prevention programmes are needed and should consider specific interventions for different groups at risk
- 4. Health-care professionals, especially in the emergency services, should be trained in the effective identification of suicide risk and proactive collaboration with mental health services.
- 5. Both health professionals and the general public should be educated about suicide as early as possible, with a focus on both risk and protective factors.
- 6. Policy-oriented research on and evaluation of suicide prevention programmes is needed.
- 7. The mass media should be involved in suicide prevention via training, and use of the WHO guidance on media treatment of suicide

Recommendation for clinical governance

Continuing medical education

- Psychiatrists
- Mental health professionals
- Family physicians
- Law enforcement personnel
- Correctional officers



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