Non Suicidal Self Injury in Youth: From Evidence to Practice Child Guidance Clinic Singapore, February 5, 2013

Mary K. Nixon MD FRCPC

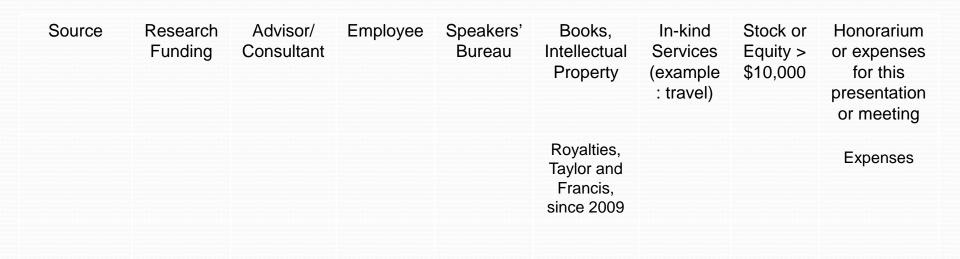
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IHE UNIVERSITY OF BRITISH COLUMBIA

Disclosures of Potential Conflicts





- What we know about NSSI
- Assessment of NSSI
 - Some useful tools
- Intervening and treating NSSI
 - Getting at what's underneath....

Defining Non-Suicidal Self Injury Nixon and Heath, 2009

- Purposefully inflicting injury that results in immediate tissue damage
- Without suicidal intent
- Not socially sanctioned within one's culture
- Nor for display
- Occurs within the broader range of non-suicidal self harm behaviors such as minor overdosing, ingesting non ingestible objects etc.

Types of Self Injury/Age of Onset

- Scratching
- Cutting
- Burning
- Self hitting
 - In community samples, the majority self injure once or twice
 - Those who repeat often have multiple methods
- Arms, hands, wrists, thighs, stomach
- Mean age of onset: 12-15 years

Not just a girl thing

MR. SELF HARM



www.emohowto.com



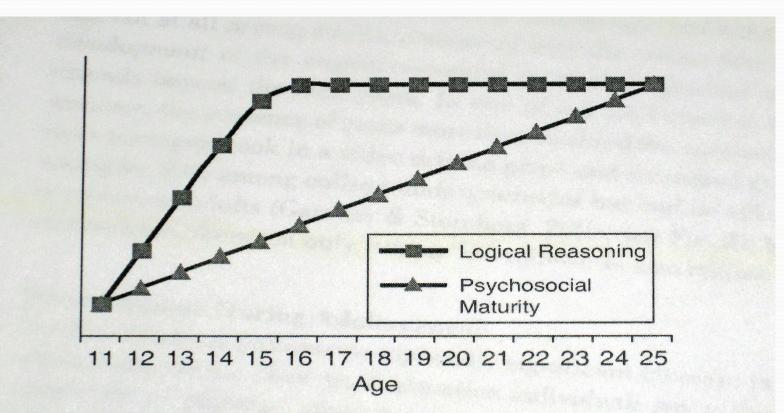


Fig. 1. Hypothetical graph of development of logical reasoning abilities versus psychosocial maturation. Although logical reasoning abilities reach adult levels by age 16, psychosocial capacities, such as impulse control, future orientation, or resistance to peer influence, continue to develop into young adulthood.

Steinberg, L. (2007).

Risk Taking

- Adolescents engage in more risky behaviour than adults
- Logical reasoning capacity is comparable between teens and adults
- But...
- Psychosocial capacities such as impulse control, resistance to peer influences etc lag behind logical reasoning capacity in terms of matching adult levels

Steinberg, L. (2007). Risk Taking in Adolescence: New Perspectives From Brain and Behavioural Science. *Current Direction in Psychological Science* Vol 16, Number 2, p. 55-58.



"Sometimes I even cut myself to see how much it bleeds. It's like adrenaline, the pain is such a sudden rush for me." Eminem

5'0' E104'51'00' 12'00' E038'45'90

Adolescent NSSI and the Internet

- Adolescents group themselves by common interest and behaviour both on and off line
- Whitlock et al, 2006 (*Pediatrics*)
 - 400 self injury message boards, most used by females, 12 to 20 years old
 - Co-morbid issues such as depression, eating disorders and suicide often mentioned on message boards
- Lewis et al, 2011 (*Pediatrics*)
 - 50 character and 50 non-character You Tube sites on NSSI
 - Most highly rated by young females, graphic depictions present esp in non character, some education, none suggest stopping
- Easy access to an abundance of NSSI related content online may ultimately reinforce NSSI as an acceptable/normal behaviour and perpetuate its occurrence in schools and other community settings as a means of group identification

Research

Nonsuicidal self-harm in youth: a population-based survey

CMAJ 2008;178(3):306-12

Mary K. Nixon MD, Paula Cloutier MA, S. Mikael Jansson PhD

Abstract

Background: Nonsuicidal self-harm includes cutting, scratching, burning and minor overdosing. There have been few studies that have examined the rate of self-harm and mental-health correlates among community-based youth. We performed a population-based study to determine the prevalence of nonsuicidal self-harm, its mental-health correlates and help-seeking behaviour.

Methods: We used data from the Victoria Healthy Youth Survey, a population-based longitudinal survey of youth aged 14–21 in Victoria, British Columbia. The survey included questions about the history, method, frequency, age of onset and

N onsuicidal self-harm includes behaviours such as self-cutting, scratching and burning, done without the conscious intent to take one's life. Onset typically occurs between 14 and 24 years of age.^{1,2} The most common reasons for this type of harm are regulation of affect (e.g., to reduce tension or relieve dysphoric feelings), but reasons may also include self-punishment, interpersonal reasons, sensation seeking and anti-dissociation mechanisms.³ Factors associated with nonsuicidal self-harm include being female, awareness of self harm in peers, family members who self harm, drug misuse, depression, anxiety, impulsivity, disruptive disorders and low self-esteem.^{4,5} Suicide ideation and attempts are more likely to be reported among those with repeated nonsuicidal self-harm.⁶



- 664 randomly selected youth,
 - aged 12 to 18, participated in wave 1 in 2003
- 580 participated in a second wave in 2005
 - self-harm questions were asked

<u>Survey</u> <u>Sample</u> N=568		
sex	n	%
Male Female	258 310	45.5% 54.6%



Mean age of onset - 15.3, range 10-20 Mean duration - 1.78 yrs 58% stopped (N=50/93)

Have you ever harmed yourself in a way that was deliberate and not intended as a means to end your life?

N=568

	n	%
Yes	96	16.9%
No	472	83.1%

	er of males and females ave self-harmed		
N=95	N=95		
Sex	n	%	
Male	23	24.3%	
Female	72	75.8%	

Which statements best describe the self harm behaviour? (Yes/No)

N=95		
Туре	n (yes)	% (yes)
Self Injury as cutting, scratching, self- hitting, etc.	79	83.2%
Ingesting a substance in excess of the prescribed or generally recognized therapeutic dose	28	31.5%
Ingesting a recreational or illicit drug or alcohol as a means to harm yourself	15	16.9%
Ingesting a non-ingestible substance or object	0	0%
Other	8	9.4%

Frequency and Origin

• How frequently did (does) this self-harm behaviour occur?

- One occasion only
 - 29%
- One to three times
 - 33%
- More than three times
 - 38%
- Where did you get the idea: n=95
 - It was my own idea: 72%
 - Heard about it from my friends: 17%
 - I saw it in a movie or television: 16%
 - I read about it: 12%
 - From family: less than 5%

Affect Regulation and Addictive Aspects of Repetitive Self-Injury in Hospitalized Adolescents

MARY K. NIXON, M.D., PAULA F. CLOUTIER, M.A., AND SANJAY AGGARWAL, M.D.

ABSTRACT

Objective: The incidence of self-injurious behavior (SIB) in adolescent psychiatric inpatients has been reported to be as high as 61%, yet few data exist on the characteristics and functional role of SIB in this population. Because of the repetitive nature of SIB and its potential to increase in severity, features of SIB and its specific reinforcing effects were examined. **Method:** Participants were 42 self-injuring adolescents admitted to a hospital over a 4 month period. Data sources consisted of self-report questionnaires and medical chart review. **Results:** Mean age was 15.7 ± 1.5 years. Reported urges to self-injure were almost daily in 78.6% of the adolescents (n = 33), with acts occurring more than once a week in 83.3% (n = 35). The two primary reasons endorsed for engaging in self-injury were "to cope with feelings of depression" (83.3%, n = 35) and "to release unbearable tension" (73.8%, n = 31). Of the sample, 97.6% (n = 41) endorsed three or more addictive symptoms. **Conclusions:** SIB in hospitalized adolescents serves primarily to regulate dysphoric affect and displays many addictive features. Those with clinically elevated levels of internalized anger appear at risk for more addictive features of this behavior. *J. Am. Acad. Child Adolesc. Psychiatry*, 2002, 41(11):1333–1341. **Key Words:** self-injury, addiction, affect regulation.

Various terms such as "delicate self-cutting," "self-wounding," "pathological self-mutilation," and "deliberate self-harm" have been used to describe a range of self-injurious behavmonly known as a symptom of borderline personality disorder (BPD) (American Psychiatric Association, 1994). In a recent study, Briere and Gil (1998) reported adult

J. Am Acad Child Adolesc Psychiatry, 41:11, November 2002

Demographics (n=42)

- 42/50 had SI freq of at least 1/month over past 6 months
- age: 15.7 <u>+</u> 1.5
- female 85.7%, male 14.3%
- age of onset
 males
 12.7±3.2
 males
 15.2±1.7
 females
 12.3±3.2
- Inpatients: 27/91 (30%)
- Partial hospitalization pts: 15/39 (39%)

Clinical Characteristics

GAF 49.2 ± 9.6
BDI-II 37.6 ± 10.4

STAXI

 37.6 ± 10.4 (Severe range (≥ 29) 78.6% (33))

(percent in the clinical range)

 state anger
 59.5% (25)

 trait anger
 31.0% (13)

 internalized anger
 52.4% (22)

 externalized anger
 52.4% (22)

 anger control
 16.7% (07)

Self -reported (Self Injury Inventory)

problems with drugs/alcohol 42.9% (18) eating disorders 50.0% (21)

Why do you self-injure? (mean number of reasons 8.2 + 3.8)

•	Cope with depression	83.3% (35)
•	Release unbearable tension	73.8% (31)
•	Cope with nervousness/fear	71.4% (30)
•	Express frustration	71.4% (30)
•	Express anger/revenge	66.7% (28)
•	Feel pain in one area, when the other pain	
	I feel is unbearable	61.9% (26)
•	Distraction from unpleasant memories	59.5% (25)
•	Punish self for being bad / bad thoughts	50.0% (21)
•	Stop suicidal ideation/attempt	47.6% (20)
•	Stop feeling alone/empty	42.9% (18)

endorsed at least one affect regulation reason97.6% (41)endorsed all five affect regulation reasons40.5% (17)

Addictive Features

Feels relief after NSSI (92.9%, n=39)

Since you started to self-injure have you found that:

•NSSI occurs more often and/ or severity

- increased since started ------ 97.6% (41)
- •NSSI continues despite recognizing it as harmful 95.2% (40)
- •Tension recurs without NSSI----- 85.7% (36)
- •Urges are upsetting, but not enough to stop NSSI 81.0% (34)
- •NSSI causes problems socially ----- 73.8% (31)
- •Frequency and/or intensity has increased
 - to achieve the same effect ----- 73.8% (31)
- •Time consuming ----- 64.3% (27)

98% endorsed 3 or more items81% endorsed 5 or more items

Co-Occurrence and NSSI in Youth

- Psychiatric diagnoses
 - Mood disorders eg depression, bipolar disorder
 - Anxiety
 - Eating Disorders
 - ADD/ADHD
 - Substance abuse
 - Borderline Personality Disorder
- Abuse
 - Only a modest association exists between childhood abuse and NSSI (Klonsky et al, 2007)
 - Examined 43 studies and concluded that child sexual abuse could be considered a "proxy risk factor" for NSSI
 - ie child abuse may play a role for some regarding NSSI but there are many who self injure who have not been abused and many who have been abused who do not self injury

Psychological Characteristics and NSSI

(Klonsky and Muehlenkamp, 2007)

- Negative emotionality
 - More frequent and intense negative emotions
- Deficits in emotion skills
 - Difficulties with their experience, awareness and expression of emotions
- Self derogation
 - Self critical, self directed anger

Is self injury contagious?

- Increased rates of self injury have been observed amongst adolescent inpatients and peer groups in schools and community settings
- There is growing concern that NSSI has a contagious effect amongst adolescents
- Scottish study (Young et al, 2006): identification with Goth culture was strongly associated with lifetime presence of self harm (53%) and attempted suicide (47%)

Lofthouse, N and L. Katz (2009). Chapter 13 - Adolescent Nonsuicidal self-injury in an inpatient setting in: Self Injury in Youth (Nixon and Heath)

Lieberman, R. (2004). Understanding and responding to students who self mutilate. Principal Leadership (High School Ed.), 4, 10-13. Young R. Sweeting H. & P. West (2006). Prevalence of deliberate self harm and attempted suicide within contemporary Coth

Young, R, Sweeting, H., & P. West, (2006). Prevalence of deliberate self harm and attempted suicide within contemporary Goth youth subculture: Longitudinal cohort study. *British Medical Journal*, 332, 1058-1061.

How common is self injury?

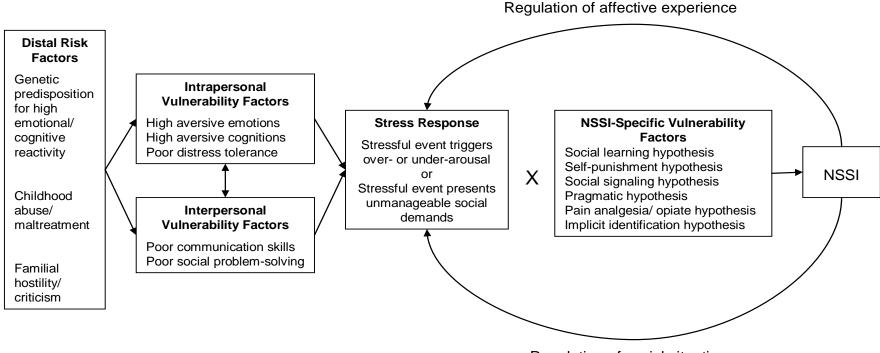
- Lifetime adolescent prevalence rates in the community vary but average ~ 15-20% in developed nations
- Higher rates are found amongst adolescent inpatient settings

Risk Factors for NSSI

- Axis I psychiatric disorders
 - Mood disorders especially depression
 - Anxiety disorders
 - Psychotic disorders
 - Eating Disorders, among others...
- Axis II disorders
 - Particularly Borderline PD
 - Developmental disability
- Adverse childhood experiences
 - Neglect
 - Abuse (physical, emotional, sexual)
 - Attachment problems
 - Poverty
 - Peer victimization
- Self derogatory beliefs
- Emotional dysregulation

Proximal and Distal Risk Factors for NSSI

Nock M (2009)Why do people hurt themselves? New insights into the nature & functions of self-injury.



Regulation of social situation

Suicide Behaviour and NSSI in Youth

- 50% of a community based sample had a hx of a suicide attempt (Muehlenkamp and Gutierrez, 2007)
- 70% of inpatients (Nock et al., 2006)
- 73.8% of inpatients and partial hospitalized patients (Nixon et al., 2002) with repetitive SI, at least one SA in past 6 months
- Self injurers who are more likely to attempt:
 - More repulsed by life
 - Have greater amounts of apathy
 - Are more self critical
 - Fewer connections to family members
 - Less fear re suicide

(Muehlenkamp and Gutierrez, 2004 and 2007)

Correlates and Predictors of Non-suicidal Self Injury in Youth

M.K. Nixon ¹ G. Barnes ¹ P.Cloutier ²

Funding: CIHR

Centre for Youth Society University of Victoria

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University | British Columbia of Victoria | Canada

CHILDREN'S HOSPITAL OF EASTERN ONTARIO

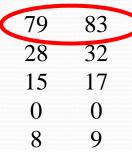
• Health Youth Survey

- Longitudinal Design/Cross sectional data
 - Three waves of data collected in 2003, 2005 & 2007
- 580 adolescents completed the 2005 interviews
 - Interviewer administered and self report sections
- Measures included information on:
 - socioeconomic demographics, neighborhood quality
 - life stress, victimization, peer relationships
 - parental support/quality of relationship
 - mental health (BCFPI), mastery/control, body satisfaction
 - sensation seeking (Zuckerman SS Scale)
 - nonsuicidal self harm (modified CASE definition of DSH)

Lifetime Prevalence of Non Suicidal Self Injury: 13.9%

Have you ever purposely tried to harm yourself without the intent to take your N life? If so, how?

Self injury such as cutting, scratching and self-hitting Ingesting a substance in excess of the generally recognized dosage Ingesting recreational/illicit drug/alcohol as a means to harm yourself Ingesting a non-ingestible substance or object Other



%

Non-Suicidal Self Injury Predictor Model

Demographic & Socio-economic Factors	Social Factors	Individual Factors	Non-Suicidal Self Injury (NSSI)
Predictors Age Gender Money problems Father's education Mother's education	Predictors Psychologically controlling father Psychologically controlling mother Life stress Physical victimization Peer Relational victimization Risky peer affiliations Relationship with peers Protective peer affiliations Mother support Father support Parental supervision	Predictors Depressive symptoms Anxiety Separation Cooperativeness Conduct Attention/Impulse Sensation seeking Sexual orientation Mastery and control Healthy lifestyle Volunteer work School engagement	NSSI •Lifetime prevalence •Frequency

Body satisfaction

Correlations Between Social Factors and Lifetime Prevalence of NSSI

Social Factors	Ever NSSI	Frequency of NSSI
Life stress	.17***	.21
Physical victimization	.10*	.20
Peer relational victimization	.19***	.13
Risky peer associations	.14***	.26***
Relationships with peers	03	20
Protective peer affiliations	01	17
Psychologically controlling father	.10*	.14
Psychologically controlling mother	.17***	.36***
Mother support	16***	30**
Father support	07	05
Neighborhood quality	15***	.01
Parental supervision	14***	19
Parenting style Index	18***	32**

Correlations Between Individual Factors and Lifetime Prevalence of NSSI

Individual Factors	Ever NSSI	Frequency of NSSI
	r	r
Mental Health Symptoms		
Externalizing	.24***	.29*
Internalizing	.26***	.40***
Anxiety	.17***	.23*
Depression	.31***	.42**
Attachment	.15***	.25*
Cooperativeness	.22***	.24*
Conduct	.15***	.12
Attention	.16***	.25*
Sensation seeking	.10*	08
Sexual orientation (Phi)	.23***	.05
Mastery/Control	19***	12
Healthy lifestyle	06	02
Volunteer work	.02	.05
School engagement	08	05
Body satisfaction	25***	36***

Hierarchical Logistic Regression of Predictors of Lifetime Prevalence of NSSI

Step predictors	S	Step 1
	OR	(95% CI)
Demographic/SES		
Age Gender Money problems	1.00 3.72*** 2.26**	(0.99-1.02) (2.04-6.80) (1.30-3.90)
Social		
Parenting style Index Life stress Peer Relational Victimization Risky Peers		
Individual		
Body satisfaction Sensation seeking Depressive symptoms Sexual orientation Externalizing Symptoms		
Model χ^2		33.61
Nagelkerke R ²		0.11

Hierarchical Logistic Regression of Predictors of Lifetime Prevalence of NSSI

Step predictors	Step 1		S	Step 2
	OR	(95% CI)	OR	(95% CI)
Demographic/SES				
Age Gender Money problems	1.00 3.72*** 2.26**	(0.99-1.02) (2.04-6.80) (1.30-3.90)	1.00 4.08*** 1.51	(0.99-1.02) (2.17-7.66) (0.84-2.72)
Social				
Parenting style Index Life stress Peer Relational Victimization Risky Peers			0.62 1.11 2.91* 1.29	(0.36-1.06) (0.82-1.49) (1.09-7.83) (1.00-1.67)
Individual				
Body satisfaction Sensation seeking Depressive symptoms Sexual orientation Externalizing Symptoms				
Model χ^2		33.61		56.75
Nagelkerke R ²		0.11		0.18

Hierarchical Logistic Regression of Predictors of Lifetime Prevalence of NSSI

Step predictors	S	Step 1	S	Step 2	Step 3			
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)		
Demographic/SES								
Age	1.00	(0.99-1.02)	1.00	(0.99-1.02)	1.01	(0.99-1.02)		
Gender	3.72***	(2.04-6.80)	4.08***	(2.17-7.66)	3.72***	(1.89-7.29)		
Money problems	2.26**	(1.30-3.90)	1.51	(0.84-2.72)	1.11	(0.58-2.12)		
Social								
Parenting style Index			0.62	(0.36-1.06)	1.10	(0.58-2.07)		
Life stress			1.11	(0.82-1.49)	1.06	(0.77 - 1.47)		
Peer Relational Victimization			2.91*	(1.09-7.83)	1.56	(0.52 - 4.73)		
Risky Peers			1.29	(1.00-1.67)	1.18	(0.89-1.56)		
Individual								
Body satisfaction					0.64	(0.39-1.05)		
Sensation seeking					1.10	(0.97-1.25)		
Depressive symptoms					3.42**	(1.54-7.59)		
Sexual orientation					2 63**	(1.28-5.42)		
Externalizing Symptoms					2.33	(0.56-9.73)		
Model χ^2		33.61		56.75		94.80		
Nagelkerke R ²		0.11		0.18		0.30		

Hierarchical Linear Regression of Predictors and Frequency of NSSI

	Step 1
	β
Demographic & Socio- economic Predictors	
Age	.19
Gender	.08
Father Education	25*
Social Predictors	
Parenting Style	
Individual Predictors	
Depressive Symptoms	
R ² Change	.09
R ² Total	.09

Hierarchical Linear Regression of Predictors and Frequency of NSSI

	C/ 1	St. 0	
	Step 1	Step 2	
	β	β	
Demographic & Socio-			
economic Predictors			
Age	.19	.20	
Gender	.08	.06	
Father Education	25*	19	
Social Predictors			
Parenting Style		29*	
Individual Predictors			
Depressive Symptoms			
R ² Change	.09	.08	
R ² Total	.09	.17	

Hierarchical Linear Regression of Predictors and Frequency of NSSI

	Step 1	Step 2	Step 3
	β	β	β
Demographic & Socio- economic Predictors			
Age	.19	.20	.19
Gender	.08	.06	.09
Father Education	25*	19	17
Social Predictors			
Parenting Style		29*	14
Individual Predictors			
Depressive Symptoms			.35**
R ² Change	.09	.08	.10
R ² Total	.09	.17	.27

Conclusion

- Engaging in non suicidal self harm is likely determined by a constellation of demographic, social and individual factors
- In this model, lifetime presence and frequency of NSSI was predicted by:
 - Depressive symptoms
- Lifetime presence of NSSI (but not frequency) was also predicted by:
 - female gender
 - questioning or non-heterosexual orientation
- In <u>repetitive NSSI</u> the contribution of negative parenting may be mediated by depressive symptoms and by peer victimization in the presence of lifetime NSSI
- Future Research: longitudinal study re risk and protective factors

Assessing Non Suicidal Self Injury in Youth

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Hidden Hurt

- Many youth do not seek professional help despite severe injuries and consequences of self injury
 - 1/5 reported injuring themselves more severely than expected or that they should have received medical help – yet very few actually sought medical help
- Many physicians are unaware of self injury in their adolescent patients
 Only 3.2% indicated their physician knew
- Overall detection rates are low
 - 36% no one knew about their self injury behaviour

Whitlock, J., Eckenrode, J., & Silverman, D. (2006). Self-injurious behaviors in a college population. *Pediatrics*, *11*7, 1939-1948.

Initial Safety Screening

- Assess for:
 - Suicide risk
 - Suicidal ideation, intent, plan, risk factors, protective factors
 - Distinguish suicide vs NSSI
 - Injury risk
 - Co-occurring psychiatric issues

Suicide vs NSSI

Characteristic	Suicide	NSSI
Demographics	Males> females	Females> males
Intent	To die	To alleviate distress
Lethality	High, needs medical treatment	Low, rarely needs medical treatment
Repetition	Infrequent	High, chronic
Methods	Often one	Multiple
Prevalence	Low	High
Hopelessness	Common	Infrequent
Psych consequences	Exacerbation of psychological pain	Relief of psychological pain

Lofthouse, N., Muehlenkamp, J. and R. Adler. (2009) – Nonsuicidal Self-Injury and Co-occurrence, p. 63 in: *Self Injury iin Youth*.

Assessing Youth with NSSI

- Things to consider:
 - Building therapeutic alliance
 - Non judgmental approach
 - Assessing motivation to change
 - A stepwise approach to assessment
 - Use of self report questionnaires
 - Using your assessment to determine and triage re treatment approach and types of referrals required

Four Key Approaches to Assessment

- 1. Biopsychosocial perspective
- 2. Stepwise approach depending on level of intervention required
- 3. Cumulative assessment
- 4. Reassessment

Biopsychosocial Assessment of NSSI

- Affective
 - Emotions profile or style, experiencing of emotions
- Behavioral
 - Behavior style (e.g., avoids close relationships, non-communicative)
- Biological
 - Neurochemical dysregulation, (e.g., serotonin, dopamine, noradrenaline systems), eg mood disorder, affective instability, anxiety disorder, ?addictive componant
- Cognitive
 - Cognitive style, thoughts, beliefs about self and others, past and future
 - Thoughts prior, during and after NSSI
- Environmental/Social
 - Family issues
 - Abuse/peer victimization
 - social support
 - Peer relationships and influence
- •

Behavioral Assessment and Self Assessment of NSSI

- The Self Assessment Sheet
 - Identifies triggers
 - Identifies cognitions associated with SI act
 - Rates intensity of emotional state using a likeart scale
 - Addresses any attempts to cope differently
 - Provides a self assessment rating scale re coping
 - Asks to youth to identify consequences of their behaviour
 - Can be used as both an assessment tool and a means to monitor any use of different coping skills with treatment over time

Case#2

NAME: _____ DATE:____

S.A.S

(self-assessment sheet)

		TTCID .	- pares	ts pissed me off
If so, Whe	ere were you?	at hon	ne- the	n left to see the
Was there	anyone else ther	re? no		
Describe w	hat happened, br	riefly. <u>Uf</u>	+ home -	pissed off - lut
Q	hime - it	to Uff 8	aid al	id + said metre
W/hat war		What was a	vine through w	win head)?
what were	e you THINKING	(what was go	ng through yo	our nead)?
				T- WANT THE
	FEEUNGS	70 5780		
How UPSE	Twere you? Cir	cle one:		
(1	2	3	4	5
Very upset	Really	Moderately	Mildly	Not at all
			But still ok	
	YOU DO? How did			LOS ON PRUGS
Did you us	e any techniques	or ways to c	ope differentl	y with your distress?
Did you us		friends	- Nope	y with your distress?
	talked b	finds differer	- Nope	not really
How well d	talled b	different andled yourse	- Nape	not really
How well d	talked b	different andled yourse 3	- Nape + If? Circle one 4	not really : 5
How well d	talked b	different andled yourse	- Nape	not really
How well d 1 Poorly	talked b	different andled yourse 3 Okay	- Nope - Nope - H - Mope - H - Mope - H - Mope - Mope	not really : 5 Great
How well d 1 Poorly	talked b to you feel you he Not so well the consequence	andled yourse 3 Okay es? What hap	- Nape + If? Circle one 4 Good pened as a re	rot really : 5 Great sult of how you handled
How well d 1 Poorly What were	talked b to you feel you he Not so well the consequence	andled yourse 3 Okay es? What hap	- Nape + If? Circle one 4 Good pened as a re	rot really : 5 Great sult of how you handled
How well d 1 Poorly What were	talked b to you feel you he Not so well the consequence	andled yourse 3 Okay es? What hap	- Nape + If? Circle one 4 Good pened as a re	not really : 5 Great

Detailed Assessment

- Ottawa Self Injury Inventory-Functions
 - Assesses functions of NSSI only
- Ottawa Self Injury Inventory- Clinical
 - Gives more detailed information eg. regarding frequency, type of NSSI, functions, addictive aspects, motivation to change
- Aids in informing potential role for
 - Psychiatric evaluation
 - Type of intervention best suited for repetitive SI, eg problem solving versus DBT
 - Other interventions eg family therapy

How did/do you injure yourself (without meaning to kill yourself)? <u>Please (V) all that apply</u> and <u>put an (X)</u> beside the most frequent method of self-injury.

14. Why do you think you started and if you continue, why do you still self-injure (without meaning to kill yourself)? Please circle the number that best represents how much your self-injury is due to that reason,

WHY DID YOU START?				IF YOU CONTINUE WHY DO YOU CONTINUE?			
	st a reason	etimes a reason	uoseau e ski		r a reason	times a reason	reason

Gircle "0" if it has never been a reason that you self-injure and "4" if it has always been a reason that you self-injure.

							WHY DO YOU CONTINUE?					
	never a reason		sometimes a reason			aiways a reason		never a reason		sometimes a reason		always a reason
1. to release unbearable tension	0	1	Ó	3	} •	1	1. to release unbearable tension	0	1	z	3	٢
to experience a "high" that feels like a drug high	0	1	2	3	4	1	2. to experience a "high" that feels like a drug high	Ø	1	2	3	4
to stop my parents from being angry with me	0	1	2	3	4	ł	3. to stop my parents from being angry with me	0	1	2	3	4
 to stop feeling alone and empty 	0	1	2	6	4	1	to stop feeling alone and empty	0	1	2	6) 4
to get care or attention from other people	Ø	1	2	3	4	ł	5. to get care or attention from other people	0	1	2	3	4
6. to punish myself	0	1	2	3	¢)	6. to punish myself	0	1	z	3	4
 to provide a sense of excitement that feets exhilarating 	Ø	1	2	3	4		to provide a sense of excitement that feels exhibiting	Ø	1	2	3	4
 to relieve nervousness/fearfulness 	0	1	2	G) 4		8. to rolleve nervousness/fearfulness	0	1	2	3	Ð

	never a reason		sometimes a reason		always a reason		never a reason		sometimes a reason		always a reason
9. to avoid getting into trouble for something I did	0	1	2	3	4	9. to avoid getting into trouble for something I did	0	1	2	3	4
10. to distract me from unpleasant memories	0	1	2	3	4	10. to distract me from unpleasant memories	0	1	2	3	4
 to change my body image and/or appearance 	0	1	2	3	4	11. to change my body image and/or appearance	0	1	ż	3	4
12. to belong to a group	0	1	2	3	4	12. to belong to a group	0	1	2	3	4
13. to release anger	Ô	1	2	3	0	13. to release anger	0	1	2	3	Ø
 to stop my friends/boyfriend/girlfriend from being angry with me 	0	1	2	3	4	 to stop my friends/boyfriend/girlfriend from being angry with me 	٥	1	2		
15. Lo show others how hurt or damaged I am	0	1	2	3	4	15. to show others how hurt or damaged I am	Ø	1	2	3	4
16. to show others how strong or tough I am	0	1	2	3	4	16. to show others how strong or tough 1 am	Õ	1	2	3	4
 to help me escape from uncomfortable feelings or moods 	0	1	2	٩	4	 to help me escape from uncomfortable feelings or moods 	٥	1	2	٢	â
 to satisfy volces inside or outside of me telling me to do it 	0	1	2	3	4	 to satisfy voices inside or outside of me telling me to do it 	Ø	1	2	3	4
 to experience physical pain in one area, when the other pain I feel is unbearable 	0	1	2	3	4	 to experience physical pain in one area, when the other pain I feel is unbearable 	0	1	2	3	4
20. to stop people from expecting so much from me	0	1	2	3	4	20. to stop people from expecting so much from me	Ø	1	2	3	4
 to relieve feelings of sadness or feeling "down" 	0	1	2	Ø	4	21. to relieve feelings of sadness or feeling "down"	0	1	z	3	4
 to have control in a situation where no one can influence me 	0	1	2	3	4	22. to have control in a situation where no one can Influence me	Ø	1	2	3	4
 to stop me from thinking about ideas of killing myself 	0	1	2	0	4	 to stop me from thinking about ideas of killing myself 	0	1	2	0	4
to stop me from acting out ideas of killing myself	0	1	2	3	4	24. to stop me from acting out Ideas of killing myself	0	1	2	õ	4
 to produce a sense of being real when I feel numb and "unreal" 	0	1	2	3	0	25. to produce a sense of being real when I feel numb and "unreal"	0	1	2	3 (1
26. to release frustration	0	1 (3	3	4	26. to release frustration	0	1	Ø	3	4
 to get out of doing something that I don't want to do 	Ø	1	2	3	4	 to get out of doing something that I don't want to do 	Ø	1	2	3	4
 For no reason that I know about - it just happens sometimes 	0	1	2	3	4	28. for no reason that I know about - It just happens sometimes	0	1	2	3	4
29. to prove to myself how much I can take	0	1	2	3	4	29. to prove to myself how much I can take	0 (9	2	3	4
30. for sexual excitement	0	0	2	3	4	30. for sexual excitoment	0	1 (2	3	4
 to diminish feeling of sexual arousal 	Ô	1	2	3	4	31. to diminish feeling of sexual arousal	0	1	2	3	4
2.		*******				32. I am "addicted" to doing it	0 (Ð	2	3	4
3. other (please specify)	0	1	2	3	4	33. other (please specify)	0	1	,	2	4

. . .

NAME: DATE:

S.A.S

(self-assessment sheet)

Was there a	"TRIGGER	" for your	SI? (What	first made you UPSET?)
_ fight	With	Stod	ad	first made you UPSET?)
0	,	000		

If so, Where were you? at home	
Was there anyone else there? <u>purents derunstales</u>	
Describe what happened, briefly.	
He's a bully - wont fish - Dits me down.	

What were you THINKING (What was going through your head)?

hate him - he's an ass

How UPSET	were you?	Circle one:		
1	2	3	4	5
Very upset	Really	Moderately	Mildly	Not at all
	-		But still ok	

What did you DO? How did you handle this situation? Dow. Listy to music - get online it woold for a while - I didn't ent but I did use dope to feel relaxed.

Did you use any techniques or ways to cope differently with your distress?

How well d	o you feel you l	handled yourself?	Circle one:	
1	2	3	4	5
Poorly	Not so well	Okay	Good	Great

What were the consequences? What happened as a result of how you handled this situation? None

WOULD YOU DO ANYTHING DIFFERENTLY? If so, What would you do? Not sive -

NAME:	
DATE:	

S.A.S

(self-assessment sheet)

nere you? one else there happened, bri Was f cac t lu	pone ? Da	rents	t let get to a		
one else there happened, bri Was f	e? <u>pa</u>	0			
happened, bri Was f	efly	0			
capit la	Lagging	again			
CAPELI	al gring	- Werallo			
	and the second	at to	- OUT I ALQUZEG		
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What were you THINKING (What was going through your head)?					
u THINKING	(which was go	ing milough y	voli neduj?		
in not	92000	let us	a bing me down		
	Junix	Je J			
ere you? Circ	le one:				
2	3	4	5		
Really	Moderately	Mildly	Not at all		
·		But still ok			
200- 13	tento M	USI'C	17 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		
			·····		
v techniques	on wowe to co	na different	by with your distance?		
ly rechniques	or ways to co	pe arrieren	ly with your distress?		
NORE	LIM				
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ou feel you ha	ndled yourself	? Circle on	e:		
2	3	4	5		
Not so well	Okay	Good	Great		
	•				
			esult of how you handled		
consequence	s? What happ	ened as a r	esure of now you handled		
			•		
			•		
			•		
			esuit of now you handled ssed because f4 f4		
	ere you? Circ 2 Really DO? How did Arc - (13 y techniques W CEF nu feel you ha 2	ere you? Circle one: 2 Really Moderately DO? How did you handle this 2 y techniques or ways to co WORE HIM pu feel you handled yourself 2 3	ere you? Circle one: 2 Really Moderately Mildly But still ok DO? How did you handle this situation? AC - Listento Music y techniques or ways to cope different WORE HIM ou feel you handled yourself? Circle on 2 3 4 Mildly But still ok Circle on 2 3 4 Circle one: 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1		

INSYNC website

www.insync-group.ca

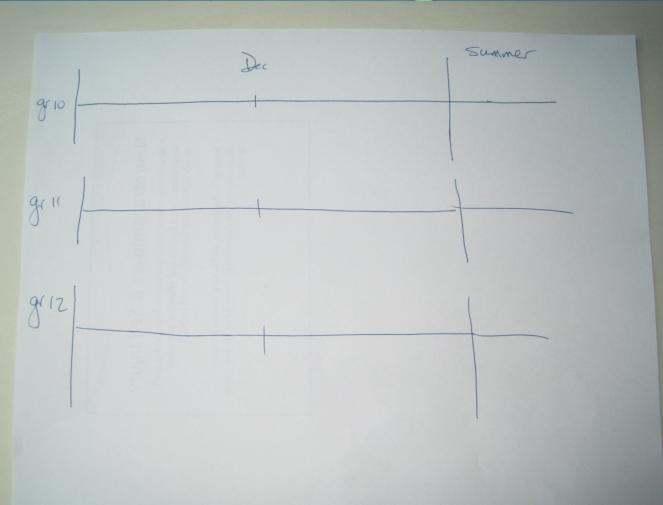


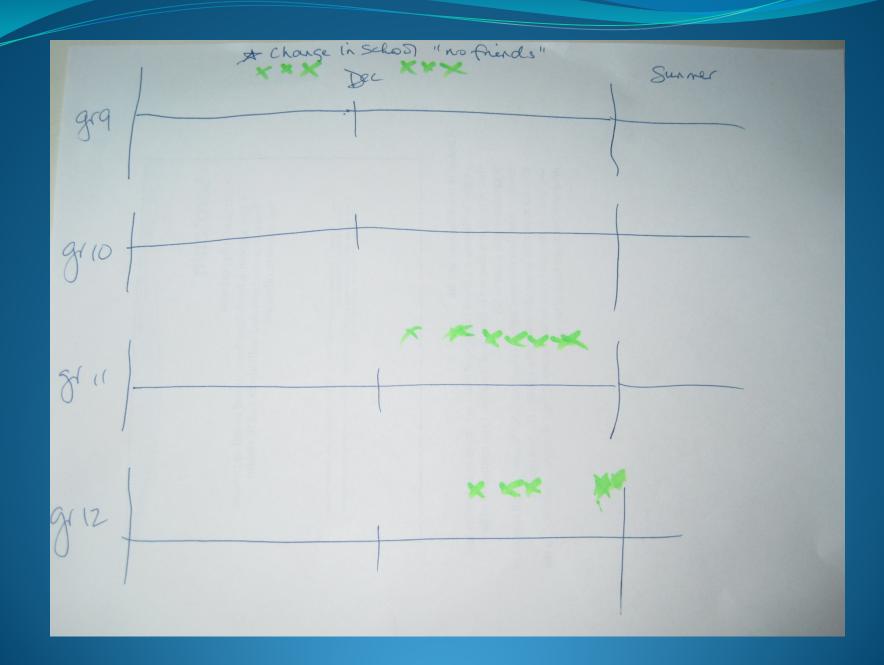
Mental Health Assessment

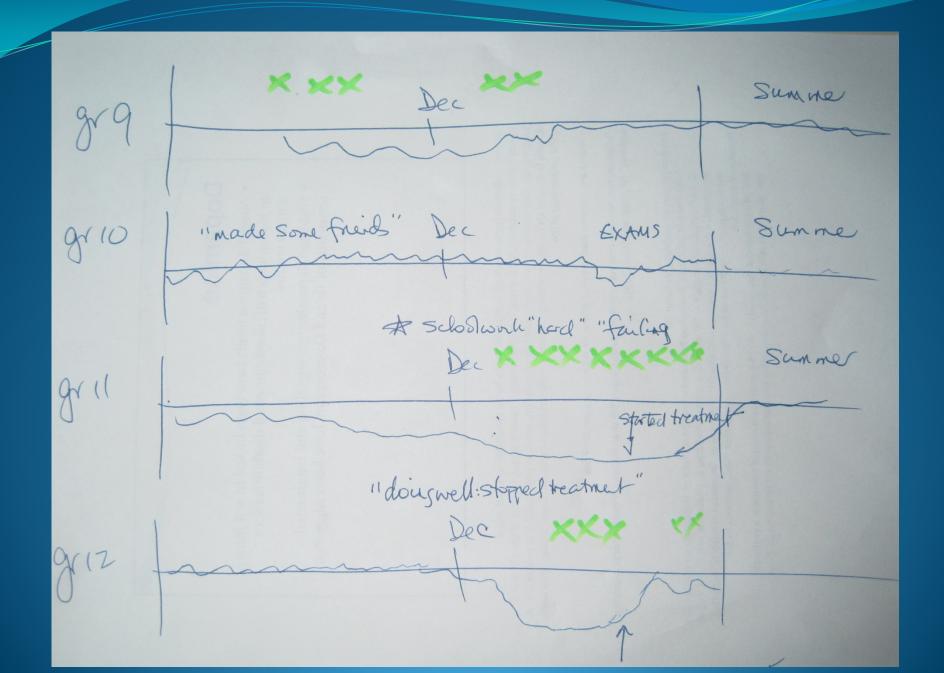
Screen for:

- Mood disorder
- Anxiety disorder
- Impulse control problems
- Conduct disorder problems
- Uncontrolled anger
- Borderline traits
- Substance Abuse
- Eating Disorders

Life Events/Mood Charting







Parental Expressed Emotion and Adolescent NSSI

(Wedig and Nock, 2007)

- High parental EE was associated with
 - Suicidal ideation, suicide plans, suicide attempts and NSSI
 - For NSSI, *parental criticism* was strongly associated with self harm behaviours while emotional over involvement was not
 - The relationship between EE and self harm behaviours was not explained by adolescent mental health problems
- Moderation model was supported
 - the relationship between *parental criticism* and self harm behaviours was especially strong in youth with a *self critical cognitive style*

Assessment of Family Functioning

- presence of factors that may enhance or protect youth in families,
 - e.g., level of warmth, adaptability, cohesion, respect for adolescent developmental processes such as separation and individuation
- assessment of parental skills,
 - e.g., level of reactivity, affective expression, ability to negotiate, listening skills
- presence of parental psychopathology
 - e.g., major depression, substance and alcohol abuse, anxiety, borderline personality disorder, history of abuse, history of self harming behaviors

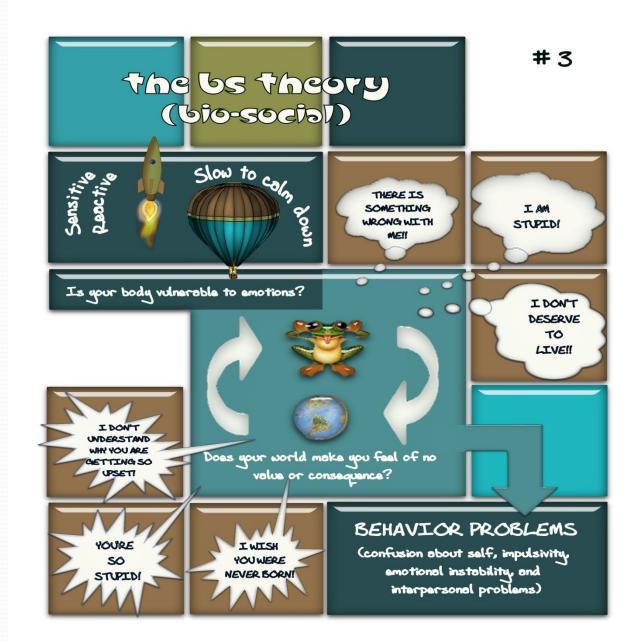
Factors to consider when determining type of treatment for NSSI

- Age, cognitive and developmental stage
- Motivation for change
- Family involvement
- Acute and chronic stressors
- Access to a multi-disciplinary mental health team (i.e. psychologist, psychiatrist,, school counsellor, etc)
- Co-morbid mental health issues.
 - Ex: Axis I: Anxiety, Depression, Bipolar, ADHD, Eating Disorder etc
 - Addictions? Suicidality?
 - Treat these conditions with best practice treatments

Psycho-education

- Forms the foundation of many therapies (CBT, DBT, family therapy, etc)
- Important initial step in treatment
- No evidence based psycho-education programs currently exist for NSSI
 - many develop their own materials and methods to disseminate information
- Use of internet sites such as www.insync-group.ca

Psycho-education in DBT



Cognitive Behavioral Therapy

CBT involves teaching youth how to identify the connection between thoughts, feelings and behaviours.

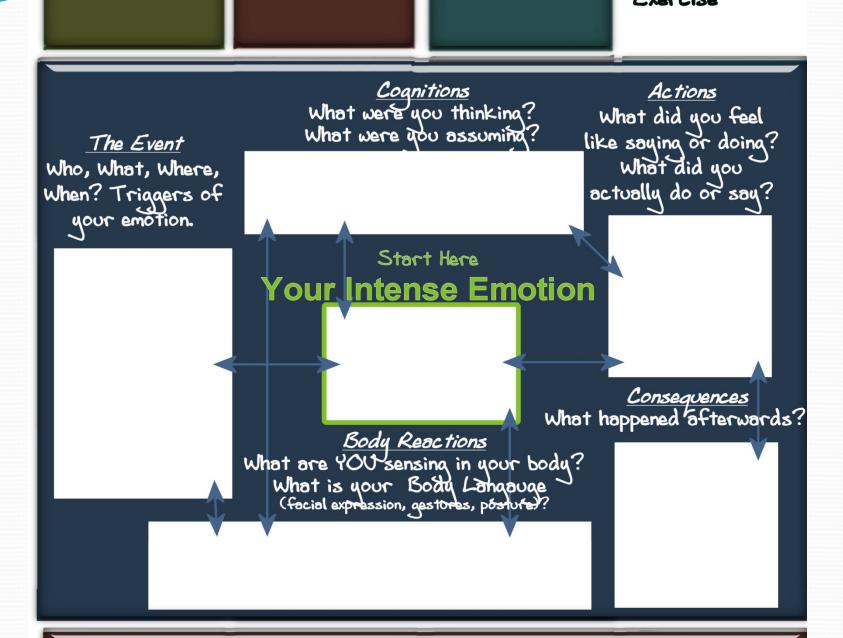
- Helping youth learn skills to identify and challenge irrational beliefs which contribute to maladaptive thinking patterns.
- Using behavioural therapy to change maladaptive behavioural patterns.

Short term treatment (6 sessions) (Tyre et al., 2003)

Combined PST plus CBT and interpersonal therapies to reduce repetitive NSSI via:

- -managing emotions
- -changing negative thinking

Breaking Down Emotion



Motivational Interviewing (Miller and Rollnick, 1991)

- Combines Humanistic Therapy and Cognitive Therapy approaches
- Good efficacy with clients with drug and alcohol issues as well as those in pre-contemplative or contemplative stages of treatment.
- Consider MI for NSSI youth who an addictive component to their behaviour and/or are in the pre-contemplative stage of change.

Motivational Interviewing

- Main principals:
 - Expressing empathy using reflective listening to not only establish rapport, but accept and mirror the client's experiences as a means of increasing their awareness of the need for change.
 - **Developing discrepancy**, focuses on using specific types of questions, along with selective reflections, to focus the client on the discrepancy between their present behavior and broader personal values.
 - The aim is not to point out the positive and negative aspects of the behavior, but more so the discrepancy between what the youth is currently doing and would like to do in order to increase the motivation to change.
 - improving self efficacy
 - Avoiding argumentation
 - Rolling with resistance

Dialectical Behaviour Therapy

- Combines behavioral, PST, dialectical and validation strategies. (Rathus & Miller, 2002).
 - A balance of change based therapy techniques with Eastern philosophies of "acceptance" and "tolerance"
 - Traditional DBT: Individual and family skills training (24 session program conducted in 12 weeks):
- DBT skills training focuses on:
 - Mindfulness
 - Distress tolerance
 - Emotional regulation
 - Interpersonal/communication skills
 - Walking the Middle Path

Contracts, Emergency Card, Promises

- Self-Protection Contingency Management Contract (Walsh, 2006)
 - Get baseline of NSSI behaviour, collaboratively set realistic goals for reduction, teach skills to providing replacement coping strategies and rewards
- Promises
 - made to people they have close relationships with can often be motivating, but difficult to keep and dependent on the nature of the relationship.
- No Harm contracts All or none, cold turkey approach not effective and can worsen condition by making youth hide behaviour from you.

Developmental Group Psychotherapy Wood et al., 2001

Use of positive corrective therapeutic relationships as a means to help youth

- Goals: reduce self harm, reduce depression
- Combines Problem Solving, CBT, and Psychodynamic psychotherapy

Open groups:

- Acute phase: 6 themes including relationships, school problems, personal relationships, family problems, anger management depression and self harm, hopelessness and feeling re the future
- Long term group: emphasis on group process

Group Therapy for DSH: Failure of a Replication of a Randomized Trial (Hazell et al., 2009)

- Primary outcome measure was repetition of self harm at 6 and 12 months
- Experimental group vs routine care, ages 12 to 16
- No significant difference between groups on outcome measure
 - Much of DSH at outcome was self cutting in this study
- Australian study (2009) had more youth at baseline with self cutting and more females while the UK study (2001) had more DSH by self poisoning

Groups for Self Harming Adolescents and their Parents (Nixon et al., 2004)

- *Adolescent,* 12-14 sessions, weekly
 - *DBT portion* (*Miller et al, 2004*):
 - Provides validation, introduction of new coping skills and provides practice to reinforce use of new skills
 - Therapeutic Support for Adolescents, (Fine et al 1991): Process oriented, based on experiential, interpersonal and insight oriented approach.

Creates an environment where adolescents use their peers to facilitate separation from parents supportive environment within which change can be facilitated

- Parent Group, 6-7 sessions, every 2 weeks
 - psychoeducation re NSSI, adolescent development, therapeutic support for parents, parental skill building, mindfulness training

Families

When would you consider family therapy?

- Some evidence of family risk factors for NSSI
 - emotional neglect, physical/sexual abuse,
 - Impaired parent-child communication
 - Family stressors (lowered family cohesion, parental illness or mental health issues, family suicide, family conflict)
- Some evidence of protective family factors:
 - Good parent-child communication
 - Positive emotional involvement of family members
 - Positive time spent together, common interests and activities
 - Collaborative decision-making

DBT Multifamily Skill Development Group (Miller et al, 2002)

- Miller suggested that family members attend group sessions to learn DBT components such as:
 - Mindfulness, affect identification and management, etc.
 - Family members are then encouraged to help the adolescent practice DBT skills within the family context.
 - Middle Path Skills -learning skills such as validation and reinforcement, parents are able to disengage from power struggles which could potentially decrease NSSI

Recurrent Topics with Families

- Promoting a predictable family environment
 - Flexibility balanced with limit setting
 - Consistent, predictable approach to conflict
 - Appropriate expectations
- Improving interaction and communication
- Increasing emotional connectedness
- Enabling adolescent developmental tasks
- Parental Functioning and Parental Factors

Resources for Families



Pharmacological Treatment Principles

- Medications can be utilized as part of a comprehensive treatment approach
- Patients and families should be informed that medications are considered 'off label' & warned of potential side effects
- Remember the principle: "Start low, go slow... and treat as short as possible but as long as necessary."

- Treat any underlying psychiatric disorder if it exists
- Target associated & clustered symptoms (eg. Affective instability, impulsivity) that may be responsive to medication
- Re-evaluate symptoms & diagnosis over time to ensure evolving psychiatric disorders (eg major mood disorder) are not missed

Medication options

• SSRIs

- Target: depressive symptoms, anxiety symptoms
- Need to monitor closely especially in early phases of treatment
- Mood stabilizers
 - Target: severe affective instability seen in certain mood disorders

Atypical Antipsychotics

- Target: Co-occuring NSSI and affective instability, severe irritablity, mixed or severe anxiety and mood states (with severe sleep disturbance and NSSI)
 - Psychiatric evaluation is typically over time and with the youth and often family recording baseline and ongoing symptoms to help in determining outcome of the medication trial

Benzodiazepines

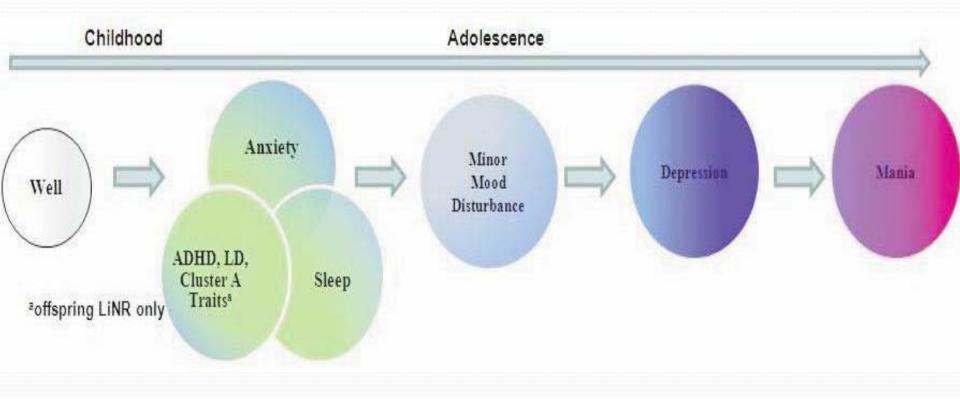
• Rarely recommended but used in certain cases of severe anxiety

Detailed informed consent and proper monitoring is always a part of any medication trial

Omega 3 Fatty Acids

- No clear supporting evidence for use in NSSI
- Some studies have shown benefit in decreasing depressive symptoms and aggression
- Side effect profile is low
- More research is needed

Clinical stages: development of BD in high-risk offspring (Duffy, 2010)



a = Offspring lithium nonresponders only LD = learning disability

Medication options

- SSRIs
 - Target: depressive sx, anxiety sx (flashbacks, compulsions), and bulimic sx
 - Need to monitor closely in early phases of treatment for increased SI
- Mood stabilizers
 - Target: affective instability (with &without psychosocial triggers) and aggression

Atypical Antipsychotics

- Target: Co-occuring NSSI and affective instability, tension, impulsivity, anxiety or depressive states (with sleep disturbance or SI)
- Choose agent with lower metabolic risk, warn pt & monitor for weight gain

Typical Antipsychotics

- Target: Acute & intense urges to self injure & sleep disorder difficulties
- Use only on a prn basis due to side effect profile & use low potency AP

- Opiate antagonist (Naltrexone)
 - Target: Addictive features (eg. Cravings, increased tolerance) of NSSI
 - May be used as monotherapy or in combination with SSRI or SGA
- Alpha-2-adrenergic receptor agonist (Clonidine)
 - Limited evidence so far with no studies in youth.
 - Helpful in reducing urges to self injure, suicidal ideation and inner tension in a pilot study of women with BPD
- Benzodiazepines
 - No clear supporting evidence for use in NSSI
 - Beware of possible paradoxical reaction in youth and addictive potential of BZDs and use in short term only
 - Choose medium-duration half life BZDs –eg. Lorazepam

Plener, P., Libal, G. and M.K. Nixon. (2009). Use of Medication in the Treatment of Nonsuicidal Self-Injury in Youth.

Omega 3 Fatty Acids

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- Some studies have shown benefit in decreasing depressive symptoms and aggression
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Simplifying Your Formulation/

Treatment Plan

Concerns: YOUTH

Thoughts of suicide Sudden depressive states THC

?Causes: MKN

Brain is manifesting more/different mood symptoms

?Solutions: YOUTH & MKN

Fluoxetine THC: ? numb NSSI: ? numbs

Decrease THC Keep busy Call a friend Lamotrigine trial



SELF-INJURY IN YOUTH

The Essential Guide to Assessment and Intervention



Mary K. Nixon - Nancy L. Heath

Routledge Press, Taylor and Francis, NY, 2009

Thank you Discussion/Questions