

Centre for School Mental Health

LITERATURE REVIEW

Nonsuicidal self-injury (NSSI), which refers to the direct and deliberate destruction or alternation of bodily tissue in the absence of lethal intent (e.g., self-cutting, burning, head-banging; DSM-5, American Psychiatric Association, 2013) is a widespread mental health concern. As many as 7-10% of elementary school children and as many as 17% of elementary school students have engaged in NSSI (Hankin & Abela, 2011; Muehlenkamp, Claes, Havertape, & Plener, 2012). Importantly, research has shown that students who engage in NSSI are increased risk for suicidal behavior (see Hamza, Stewart & Willoughby, 2012 for a review).

Despite the widespread prevalence of NSSI among school-aged youth, however, there is a paucity of research on the association between NSSI and academic outcomes among students. To our knowledge, only two studies have been previously conducted with highschool students, and findings on the link between NSSI and academic performance were mixed (Baetens, Claes, Grietens & Onghena, 2011; Taliaferro et al., 2012). To extend these findings, we examined the link between NSSI and school disruption among clinically referred youth in the present study. Importantly, recent research (Stewart, Klassen & Hamza, under review) suggests that school disruption (e.g., negative attitudes toward school), may serve as a precursor to poor academic

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1) The standed are satisfied and the standed at the standed are standed at the standard and the standard and the standard at t higher levels of school disruption than students without a history of NSSI?

2) Is the link between NSSI and school disruption maintained even after taking into account other risk factors for school disruption (e.g., anxiety, hyperactivity/distractability, anhedonia, parenting stress)?

Measures: The interRAI ChYMH includes over 400 items, and builds a comprehensive picture of the child/youth's strengths, needs, functioning and areas of risk to inform care planning for clients with mental health needs. The interRAI ChYMH assessment is based on a semi-structured interview format, and clinicians complete the instrument using all sources of information, including direct contact with the family and their child or youth, as well as other service providers and records (e.g., teachers, clinical charts and observations). The following scales from the ChY-MH were used in the present study:

WesternNonsuicidal self-injury and school disruption: An examination among clinically referred school-aged youth

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ABSTRACT

Nonsuicidal self-injury (NSSI), which refers to the direct and deliberate destruction of bodily tissue without lethal intent (e.g., self-cutting), is a pervasive mental health concern among elementary and secondary school youth. Despite the widespread prevalence of NSSI among school-aged youth, however, there is a paucity of research on the associations among NSSI and academic outcomes among students. To address this gap in the literature, we examined whether students who engaged in NSSI reported higher levels of school disruption than students without a history of NSSI. Moreover, we also examined whether the link between NSSI and school disruption was maintained, after taking into account other risk factors for school disruption (e.g., anxiety, hyperactivity/distractibility, anhedonia, parenting stress). Participants included 791 youth (Mage = 13.04) referred to a mental health agency in Ontario, Canada. Chi-square analyses revealed that students who engaged in NSSI were more likely to experience high levels of school disruption than students who did not engage in NSSI. Moreover, binary logistic regression analyses demonstrated that the link between NSSI and school disruption was maintained, even after taking into account other risk factors for school disruption. Our findings suggest that NSSI may serve as one way to identify youth at risk for early school disruption, which may serve as a precursor to poor longterm academic outcomes, such as poor academic performance or school dropout.

Participants:

METHODS

Participants included 791 youth (Mage = 13.04) who completed the child and youth mental health assessment (ChYMH) as part of normal clinical practice across 10 sites providing mental health services to children and youth within the province of Ontario.

- Severity of Self-Harm Scale (2 items assessing intentional harm without suicidal intent)
- Anxiety Scale (7 items assessing anxious complaints, unrealistic fears, etc.)
- Hyperactivity/Distractability Scale (4 items accessing attention, distraction, etc.)
- Anhedonia Scale (4 items assessing loss of interest in social activities and withdrawal)
- Parenting Stress Scale (6 items assessing communication, limit-setting, etc.)
- Risk of School Disruption (7 items assessing attitudes/behaviors toward school)

Procedure:

Data was collected by trained assessors at time of the child/youth's intake into clinical care at one of the 10 mental health service providers in Ontario, Canada. Each assessor involved in the study has at least two years of clinical experience with children and youth, and also completed a comprehensive training program on the administration of the interRAI ChYMH.

Chi-Share analyses indicated that school-aged youth who engaged in NSSI were significantly more likely to experience high school disruption (i.e., a score of 4 or more) than youth without a history of NSSI, $X^2(1) = 6.269$, p < 0.01. Differences between the two groups on the individual school items are presented in Table 1. A binary logistic model was used to predict school disruption (low/high) from a set of predictors (NSSI, anxiety, hyperactivity/distractability, anhedonia, parenting stress). Table 1 presents the results for the model including the regression coefficients, Wald statistics, odds ratios, and 95% confidence intervals. Table 1.

School Disruption Items Increase in lateness or abser Poor productivity or disruptiv Expresses intent to quit scho Conflict with school staff

Strong, persistent dissatisfac Refuses to attend school Removed due to disruptive b

Table 2. Predictor

NSSI

Anxiety Hyperactivity/Distractability Anhedonia Parenting Stress

IMPLICATIONS & FUTURE DIRECTIONS

In the present study, youth who engaged in NSSI experienced greater school disruption that youth without a history of NSSI, even after taking into account other risk factors for school disruption. It is also noteworthy that differences between the NSSI group and non-NSSI group seemed to stemmed from differences in youth's attitudes toward school (and a refusal to attend school) rather than youth's disruptive behavior in the classroom. Findings suggest that that school mental health practitioners should include an assessment of attitudes toward school and incorporate school-planning strategies into care for youth engaging in NSSI REFERENCES

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FINDINGS

	No NSSI	NSSI
nteeism	21% _a	29% _b
iveness at school	47% _a	50% _a
ool	14% _a	18% _a
	27% _a	31% _a
iction with school	27% _a	37% _b
	11% _a	17% _b
behaviour	15% _a	15% _a

В	Wald	Odds Ratio (ExpB)	95% CI	p Value
.629	5.931	1.875	[1.13-3.11]	.015
.009	5.511	1.009	[1.00-1.01]	.019
.076	7.137	1.079	[1.02-1.14]	.008
.003	0.174	1.003	[1.00-1.02]	.677
.158	8.830	1.172	[1.06-1.30]	.003