

Appearance Related Concerns Among Pediatric Burn Patients

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Introduction

Primary outcome goals for pediatric burn patients include:

- regaining social functioning
- achieving developmental social milestones.

Appearance related concerns may be a barrier to patient achieving these goals an may also be related to increased risk for anxiety and depression. The purpose of this study is to evaluate how appearance-related concerns affect social and academic functioning for children with visible scars.

Methods

A secondary analysis of data collected using Burn Outcomes Questionnaire (BOQ) and the Pediatric Symptom Checklist (PSC) which measures psychosocial wellbeing, was conducted in a pediatric burn center.

- 36 patients aged 11-18 years (mean age 14.58; 51.4 % male; 70% White) between 2000 and 2017, were administered questionnaires
- The relationship between scores for appearance related concerns (BOQ; Figure 1) and social functioning (BOQ), academic functioning (BOQ), externalizing psychiatric symptoms (PSC) and internalizing psychiatric symptoms (PSC) were tested using 1-tailed Pearson's Correlations.

Figure 1: Burn Outcomes Questionnaire Appearance Related Concerns

		Definitely true	Mostly true	Not sure	Mostly false	Definitely false
3	I feel that the burn is unattractive to others.	0	0	0	0	0
4	I think people would not want to touch me.		0	0	0	0
5	I feel unsure of myself among strangers.	0	0	0	0	0
6	Changes in my appearance have interfered with my relationships.		0	0	0	0

Table 1: Example questions from the BOQ and PSC outcomes measures

	Burn Outcomes Questionnaire (BOQ 11-18)	Pediatric Symptom Checklist (PSC)
Subscales		
Academic Functioning	Following your return to school after the burn injury, how would you rate your ability to perform schoolwork?	Less interested in school
Internalizing Symptoms	How well does this statement describe you? I feel depressed and talk about death.	Feels sad, unhappy
Externalizing Symptoms	How well does this statement describe you? I feel angry.	Fights with others
Social Functioning	Can you take part in recreational activities with other kids the same age (for example, dancing, bicycling)?	Seems to be having less fun

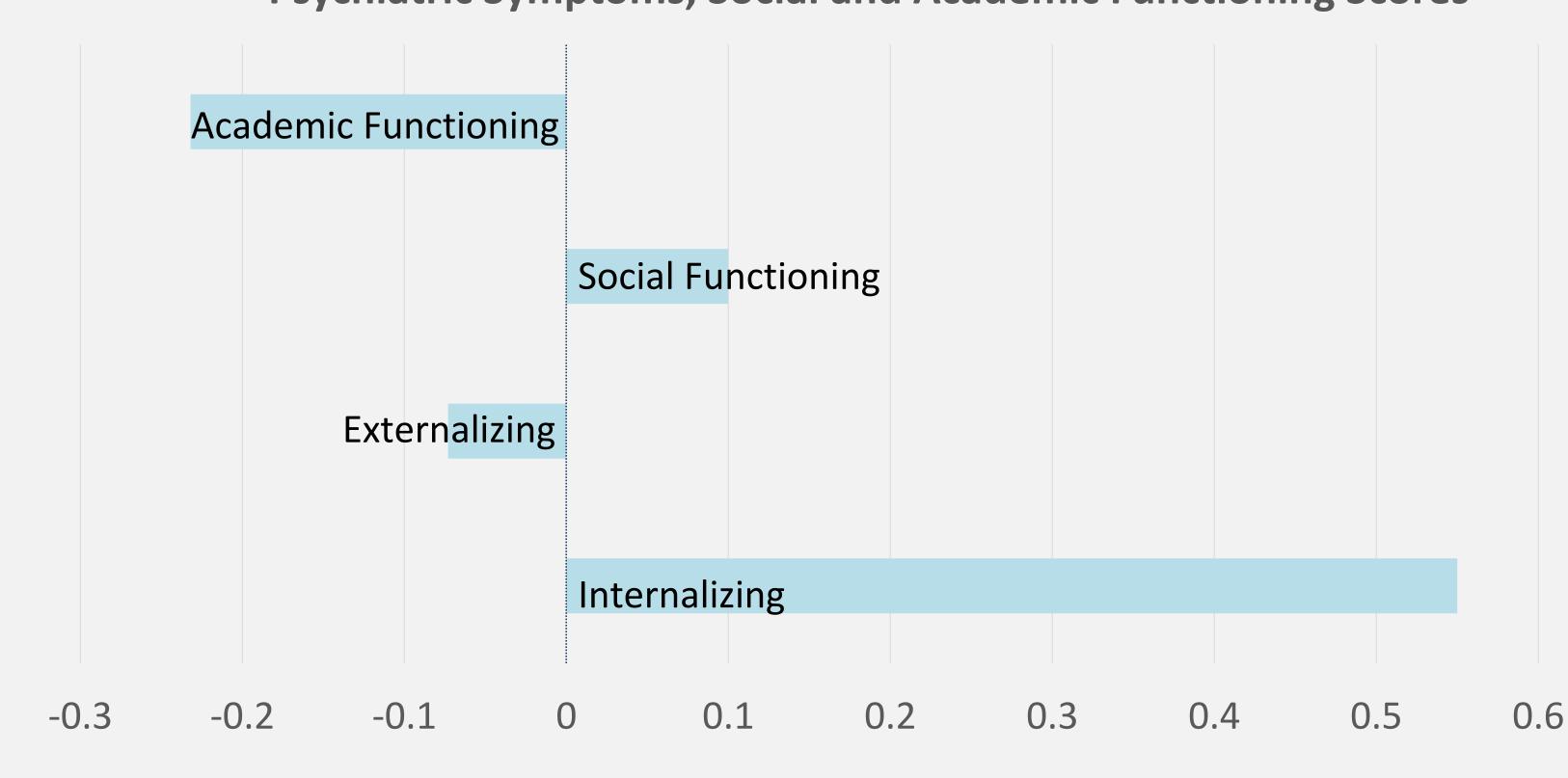
Results

Table 2: Correlations Between BOQ Appearance Score and Psychiatric Symptoms,
Social and Academic Functioning Scores

Variable		Internalizing Subscale	Externalizing Subscale	Social Functioning	Academic Functioning
Appearance Score	Pearson's Correlation Coefficient		-0.073	0.10	232
	Significance*	0.001	0.336	0.286	0.083
	N	36	36	36	36

*Significance determined at p<0.05

Figure 2: Correlations Between BOQ Appearance Score and Psychiatric Symptoms, Social and Academic Functioning Scores



Conclusions

- As expected, appearance related concerns post pediatric burn injury were associated with increased internalizing symptoms (e.g. anxiety and depression).
- Appearance related concerns were not significantly associated with externalizing symptoms or with social functioning.
- The association between appearance related concerns and worse academic functioning was in the expected direction but was not significant.
- A larger sample size would allow for the statistical evaluation of possible mediating and moderating effects
 of the association between appearance related concerns and internalizing symptoms post pediatric burn
 injury. For example:
 - What are the possible moderating effects of gender, race and ethnicity?
 - Are appearance related concerns a possible mediator of internalizing symptoms and social/academic functioning?

Applicability to Practice

Results of this study suggest a need for screening of internalizing psychiatric symptoms among our patient population. Additional screening of appearance related concerns may be helpful in identifying a significant contributing factor to anxiety and depression post pediatric burn injury. Once identified, patients can be offered appropriate interventions.

References

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