Copyright is owned by the Author of the thesis. Permission is given for a copy to be downloaded by an individual for the purpose of research and private study only. The thesis may not be reproduced elsewhere without the permission of the Author.

Posttraumatic Stress and Posttraumatic Growth in New Zealand Surf Lifesavers: An Analysis of Age, Gender, Social Support, & Self-Efficacy

A thesis presented in partial fulfilment of the requirements for the degree of

Master of Arts

In

Psychology

At Massey University
New Zealand

Aimee Rooke 2017

Abstract

Introduction. New Zealand surf lifeguards are exposed to a range of potentially traumatic events including search and rescue, trauma and medical care, and body retrievals. Although extensive training is required and peer support programmes are in place, little is known about the impact this work may have as there is a lack of published literature focusing on surf lifeguards. Method: A cross-sectional online survey was available to all current, paid and volunteer lifeguards, 17 years and older. Information was gathered on personal and surf lifesaving trauma exposure, posttraumatic stress symptoms, posttraumatic growth (PTG), perceived social support and perceived self-efficacy. Statistical analyses were performed to explore hypothesized relationships between these constructs and demographic variables. Results: A total of 181 lifeguards 17 years and older (M = 26.96, SD = 12.45), were included in the final analysis. Males reported significantly higher trauma exposure, yet females presented with higher posttraumatic stress symptoms. 7.8% of adolescents and 1.8% of adults scored above 40 on the PTSD measure suggesting probable PTSD. Adolescent participants reported both higher posttraumatic stress and PTG. Total trauma exposure, including surf lifesaving events, failed to show a significant relationship with trauma outcomes. However, personal traumatic events alone did show a small but significant relationship with both posttraumatic stress and PTG. The expected relationships between social support and self-efficacy with posttraumatic stress were not verified. Social support and self-efficacy did show a small but significant positive relationship with PTG. No moderation effect was found for either social support or self-efficacy. Exploratory analysis did show that age moderated the relationship between trauma exposure and both posttraumatic stress and PTG. Discussion. Results suggest that being younger may facilitate PTG but it may also make some vulnerable to posttraumatic stress symptoms under high trauma conditions. Traumatic events within Surf lifesaving were not related to trauma outcomes suggesting that personal trauma may have a stronger impact than lifeguard related trauma. The lack of evidence supporting the impact of social support and self-efficacy may be due to limitations in the measures used. Results and limitations are discussed with a focus on how this unique population could benefit from future research.

Acknowledgements

First and foremost, I would like to thank my parents. Your unconditional support throughout all my years of study and this year in particular has enabled me to achieve all I have in life, both academic and personally. Mum, for keeping me sane, listening to every idea and tangent. Dad, for all your hard work proofreading and the in depth discussions we would get into. You have a great balance between support and challenge, which has helped grow throughout my study. To my friends and family, for all of your support and encouragement. Your unwavering faith that everything will be fine and I will accomplish what I set out to do has been a great motivation to push through this year. To my partner Shem, thank you for being the great distraction that I needed to switch off from my work and have a good work/life balance.

A special thankyou to my Supervisor Dr. Ian deTerte, I am very grateful for your continued support throughout this year. You have allowed me the space to work through and develop my own ideas and direction, whilst at the same time offering your wisdom and extensive knowledge to support my work. For you timely and extensive feedback, it was very encouraging to know that you were taking such considerate care with this project. I have enjoyed this research far more than I had expected I would, and your support and direction has played a huge part in that.

To Allan Mundy, Paul Carlyon, and Adam Wooler at Surf Lifesaving New Zealand, your expertise and knowledge has been a huge help with this research, it would not have gone ahead without your support. Last but not least, I would like to say a huge thankyou to all the lifeguards who participated in this study. For your time and for sharing your experiences, I hope that this research will be able to offer some insight back to your community and be the start of more research to come. I would also like to thank you all for the hard work you do over the summer keeping our beaches safe.

Table of Contents

Abstract	i
Acknowledgements	ii
Table of Contents	iii
List of Tables	v
1. Introduction	1
2. Relevant Literature	3
Trauma Exposure	3
Posttraumatic Stress Disorder	4
Rescue workers and Posttraumatic Stress Disorder	10
Gender and Posttraumatic Stress Disorder	12
Resilience and Recovery	14
Perceived Social Support and Posttraumatic Stress	15
Perceived Self-Efficacy and Posttraumatic Stress	20
Trauma exposure and Posttraumatic Stress in Adolescence	23
Posttraumatic Growth	27
Gender and Posttraumatic Growth	31
Resilience and Recovery	32
Perceived Social Support and Posttraumatic Growth	33
Perceived Self-Efficacy and Posttraumatic Growth	34
Trauma Exposure and Posttraumatic Growth in Adolescence	35
3. Current Study	38
Surf Lifesaving New Zealand	38
The Current Study	41
Study Hypotheses	42
4. Method	44
Research Design	44
Participants	44
Ethical Considerations	
Procedure	47
Statistical Procedures	48

Psych	ometric Measures50
	Trauma exposure
	Posttraumatic Stress
	Posttraumatic Growth
	Perceived Social Support
	Perceived Self-Efficacy
5. Re	esults 60
Data S	creening and Correction Methods60
Descri	ptive Statistics64
Group	Comparisons 66
Correl	ational Analyses70
Hypot	hesis Testing71
6. Di	scussion 87
Hypot	hesis Analysis
	Hypothesis One: Trauma Exposure and Trauma Outcomes
	Hypothesis Two: Gender Differences
	Hypotheses Three & Five: Age Differences
	Hypotheses One, Four, & Five: Perceived Social Support
	Hypotheses One & Four: Perceived Self-Efficacy
Study	Limitations
Direct	ions for Future Research
Conclu	ısion
Refe	rences
Appe	ndices 119
A.	Survey Facebook Post
B.	Information Sheet and Consent Form
C.	Extended Tables of the Summary of Descriptive Statistics for <i>t</i> -Test
	and F Test Analyses, including Subscales
D.	Extended Correlational Analyses, including Subscales
E.	Online Survey

LIST OF TABLES AND FIGURES

Table 1. Sample Demographics 65
Table 2. Summary of Descriptive Statistics for <i>t</i> -Tests with Effect Sizes 67
Table 3. Summary of Descriptive Statistics for <i>F</i> tests with Effect Sizes
Table 4. Pearson Product Moment Correlations for Primary Measures 71
Table 5. Distribution Transformations
Table 6. Pearson Product Moment Correlations for variables in Hierarchal
Multiple Regression Analysis79
Table 7. Summary of Hierarchal Multiple Regression Analyses with
Posttraumatic Stress as the outcome variable
Table 8. Summary of Hierarchal Multiple Regression Analyses with
Posttraumatic Growth as the outcome variable 81
Table 9. Summary of moderation regression analysis with Posttraumatic
Stress as the outcome variable84
Table 10. Summary of moderation regression analysis with Posttraumatic
Growth as the outcome variable
Figure 1. Moderation of Trauma Exposure and PTSD symptoms by Age 84
Figure 2. Moderation of Trauma Exposure and PTSD symptoms by Age 86