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Predictors of posttraumatic stress disorder among firefighters

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TABLE OF CONTENTS

DECLARATION i

ACKNOWLEDGEMENTS iv

LIST OF TABLES v

LIST OF FIGURES vi

CHAPTER ONE: BACKGROUND TO THE STUDY 1

1.1 Introduction 1
1.2 Rationale for the study 2
1.3 Structure of the Research Report 3

CHAPTER TWO: LITERATURE REVIEW 5

2.1 Introduction 5
2.2 Post-Traumatic Stress Disorder 8
2.3 History of Trauma 13
2.4 Perceived Life Threat 17
2.5 Job-related stress 20
2.6 Perceived Organisational Support 24
2.7 Objectives of the study 28
2.8 Research Hypotheses 29

CHAPTER THREE: RESEARCH METHOD 30

3.1 Chapter Introduction 30
3.2 Research Design 30
3.3 Sample 31
3.4 Instruments 31
3.4.1 Biographical Questionnaire 31
3.4.2 History of trauma scale 32
3.4.3 Life Threat Scale 32
3.4.4 General work stress scale 33
3.4.5 Survey of perceived organisational support 34
3.4.6 Revised Impact of event scale 34
3.5 Procedure 36
3.6 Data Analyses 36
3.7 Ethical Considerations 38

3.8 Chapter Conclusion 39

CHAPTER FOUR: RESULTS 40

4.1 Chapter Introduction 40
4.2 Instruments' Internal Reliability Consistency 40
4.3 Descriptive Statistics 43
4.3.1 Sample Description 44
4.3.2 Means, Standard deviations, correlations, minimum and maximum of variables 45
4.3.3 Correlations 52
4.4 Statistical analysis 52
4.5 Chapter Conclusion 55

CHAPTER FIVE: DISCUSSION 57

5.1 Limitations of the study 62
5.1.1 Cross-sectional study 62
5.1.2 Measuring instruments 63
5.1.3 Sample 64
5.1.4 Quantitative versus qualitative 64
5.2 Implication of the study 65
5.2.1 Theoretical Implications 65
5.2.2 Practical Implications 65
5.3 Recommendations for future research 66

CONCLUSION 66

REFERENCE LIST 68

APPENDICES 75

Appendix A: Permission for Access Letter 75

Appendix B: Participant Information sheet 77

Appendix C: Participant Consent form 79

Appendix D: Biographical Questionnaire 80

Appendix E: History of trauma scale 81

Appendix F: Life threat scale 82

Appendix G: General work stress scale 83

Appendix H: Survey of perceived organisational support 84

Appendix I: Revised Impact of event scale 85

LIST OF TABLES

Table 4.2.1: Internal Consistency for the Revised Impact of Events Scale

Table 4.3.1.1: Gender demographic proportions for firefighters

Table 4.3.1.2: Age demographic proportions for firefighters

Table 4.3.1.3: Organisational Tenure demographic proportions for firefighters

Table 4.3.2: A summary of the basic descriptive statistics for firefighters

Table 4.3.2.1: A summary of the means and standard deviation for Revised Impact of event scale items

Table 4.3.3: A summary of the correlations for history of trauma, perceived life threat, work-related stress, perceived organisational support and posttraumatic stress disorder among firefighter

Table 4.4: Linear regression analysis for prediction of PTSD from history of trauma, perceived life threat, perceived organisational support and work-related stress among firefighters

Table 4.4.5: Summary of Multiple Regression Analyses of variables predicting PTSD among firefighters

LIST OF FIGURES

1. Figure 2.5: Model of job stressors of firefighters

Research Title: Predictors of posttraumatic stress disorder among firefighters in Johannesburg.

ABSTRACT

Emergency first responders such as firefighters are exposed to higher levels of traumatic events through the course of their work. Accordingly, chances of such exposure resulting in negative psychological consequences are elevated. Previous research implicates the experience of trauma incident(s) and other organisational factors, among other factors, as causes of the development of consequences such as posttraumatic stress disorder and the variance thereof. However, research exploring these implications is limited. As a result**,** firefighters in the Emergency Medical Services were surveyed in the attempt to identify experiences of posttraumatic stress symptoms resulting from history of exposure to work-related traumatic events, perceived life threat during those incidents, general work-related stress and their perceived organisational support. The purpose of this study was to explore the predictive relationship PTSD symptoms and four predictors namely; perceived life threat, perceived organisational support, history of trauma and job-related stress, among Johannesburg fire fighters. The sample was drawn from the City of Johannesburg Emergency Medical Services. A sample (N=100) of trauma-exposed firefighters was recruited for the study. Participants were recruited using a non-probability, convenience sampling strategy in which participation in the study was voluntary. The sample was made of 89 male participants and 11 female participants. All variables included in the study were measured using self-report instruments. Participants completed a demographic questionnaire to gather information pertaining to gender, age, organisational tenure and race. The following questionnaires were used to ascertain scores for the predictor variables: Survey of perceived Organisational Support, General Work Stress scale, Life Threat scale and a self-developed history of trauma scale. The Revised Impact of Event scale was used to measure the firefighters' experience of PTSD related symptoms. Participants reported an average score of 29 on the IES-R scale indicating a stress reaction with the possibility of posttraumatic stress disorder. However, using a multiple regression analysis, this present study found that the four predictor variables explored did not have a substantial impact on the development of PTSD among firefighters. Secondary analyses were conducted to explore the individual association

between each independent variable and PTSD. The results are reported. Overall, the results yielded suggest that there are other factors that exert a greater impact on the development of PTSD among firefighters. Future research among firefighters could focus on exploring other risk and protective factors associated with the development of PTSD. Alternatively, if this study is to be replicated, the researcher could employ a longitudinal, qualitative approach to explore the predictive relationship between history of trauma, perceived life threat, perceived organisational support, work-related stress and PTSD related symptoms.

KEYWORDS: Post-traumatic stress disorder, perceived life threat, perceived organisational support, job-related stress, history of trauma

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