

RESEARCHSPACE@AUCKLAND

http://researchspace.auckland.ac.nz

ResearchSpace@Auckland

Copyright Statement

The digital copy of this thesis is protected by the Copyright Act 1994 (New Zealand).

This thesis may be consulted by you, provided you comply with the provisions of the Act and the following conditions of use:

- Any use you make of these documents or images must be for research or private study purposes only, and you may not make them available to any other person.
- Authors control the copyright of their thesis. You will recognise the author's right to be identified as the author of this thesis, and due acknowledgement will be made to the author where appropriate.
- You will obtain the author's permission before publishing any material from their thesis.

To request permissions please use the Feedback form on our webpage. http://researchspace.auckland.ac.nz/feedback

General copyright and disclaimer

In addition to the above conditions, authors give their consent for the digital copy of their work to be used subject to the conditions specified on the Library Thesis Consent Form.

CHESS: CHIEF EXECUTIVE STRESS SURVIVAL

A STUDY OF OCCUPATIONAL STRESS

IN

NEW ZEALAND TOP MANAGEMENT

BY

PAUL F. ROBINSON

A Thesis submitted to the University of Auckland for the Degree of Doctor of Philosophy

DEPARTMENT OF MANAGEMENT STUDIES AND LABOUR RELATIONS FACULTY OF COMMERCE

1991

DECLARATION

The work presented here was entirely completed by the author, no part of it has been submitted in support of an application of another degree or qualification of this or any other university or other institute of learning.

ACKNOWLEDGEMENTS

During the course of the study I have been helped and supported by many people and I would like to particularly thank:

Professors Brian Henshall and Kerr Inkson, my joint supervisors who have been tremendously helpful and supportive during the preparation of this thesis, Jean, my wife and best friend, for putting up with my own stress, and the many managers who participated in this study and who gave their time and energies to the interviews, questionnaires and medical tests.

ABSTRACT

This study develops and uses a CHESS (Chief Executive Stress Survival) model developed from the occupational stress literature to predict variations in the psychological and physical stress experience and health risk of Chief Executives of New Zealand organisations. The model proposes that stress is a sequential process with identifiable phases and variations are mainly due to the frequency of environmental experiences and stressor factors which are both "chronic" and "episodic", "at work" and "outside work". The model also assumes, however, that the impact of the environmental variables and stressor factors are moderated by individual personality differences, coping mechanisms and management practices. The model was tested on a sample of 107 male Chief Executive Officers and General Managers. It was found that the majority of the sample (80%) were relatively stress resistant and healthy. Stepwise multiple regression was used to test the model, and some evidence derived suggests that the frequency of environmental problems does predict various stress symptoms and that environmental stressors ultimately predict health risk profiles. Individual differences are shown as being largely independent variables predicting stress, rather than being moderating variables as suggested by the model. Coping and stress management variables are also shown to play a significant moderating role in the stress - outcome relationship. Some evidence derived suggests that there may be individual manager profiles, provisionally labelled "stress immune" vs "vulnerable" and "ill - health preventers" vs "non-preventers". Due to the depth of the cross-sectional data obtained on this rarely studied management level, comparisons with published information on other researched groups are explored. A number of limitations of the study are noted. The practical implications for this senior management group of the findings of this study are also examined.

CONTENTS

			Page
	Declaration		(i)
	Acknowledgem	ents	(ii)
	Abstract		(iii)
CHAPTER 1	INTRODUCTION		1
	1.1 THE PRO	BLEM OF CEO STRESS	1
	1.2 THE CEO	/ GENERAL MANAGEMENT ROLE	5
	CONCLUSION		12
CHAPTER 2	LITERATURE RI	EVIEW-SOURCES AND OF STRESS	14
	2.1 THE NATU	JRE OF STRESS	14
	2.2 ENVIRONN CEO STR	MENTAL STRESSORS-SOURCES OF	15
		Work Stressors-Chronic	16
		Work Stressors-Episodic	18
		Non-Work Stressors-General	20
		Stressful Life Events	21
		Nork Family Interface	21
		Chronic Non-Work Stressors	22
		Implications for the CHESS Project	23
	2.3 HEALTH F	AND BEHAVIOURAL OUTCOMES OF	24
	2.3(a) H	lealth	24
	2.3(b) E	Sehaviour	25
		implications for the CHESS Project	28

CHAPTER 3		VIDUAL DIFFERENCE, COPING AND STRESS	29
	3.1	INTRODUCTION	29
	3.2	INDIVIDUAL DIFFERENCES	29
		3.2(a) Environmental Stressors-Phase 1	30
		3.2(b) Stress Symptoms-Phase 2	35
		3.2(c) Health and Behavioural Outcomes in Relation to Individual Differences-Phase 3	40
	3.3	COPING AND STRESS MANAGEMENT	43
		UTILISATION	
		3.3(a) Implications	43
		3.3(b) Coping	46
		3.3(c) Stress Management Interventions	47
	CONC	LUSION	48
CHAPTER 4	RESE	ARCH DESIGN AND QUALITATIVE RESULTS	49
	4.1	OVERALL RESEARCH AIMS	49
	4.2	A MODEL FOR CHIEF EXECUTIVE STRESS SURVIVAL - CHESS	49
		4.2(a) Model Overview	50
		4.2(b) Objectives	52
	4.3	RESEARCH METHODS	55
	4.4	STAGE 1: QUALITATIVE DATA COLLECTION - THE INTERVIEWS	55
	De	4.4(a) The Sample	55
		4.4(b) Interview Analysis: Results and Discussion. Stressors at Work - Episodic	57
		4.4(c) Stressors at Work - Chronic	58
		4.4(d) Coping and Stress Management Strategies	60
	.2	4.4(e) Interview Analysis: Conclusions	61
	4.5	STAGE 2: QUANTITATIVE DATA COLLECTION:	62
		THE QUESTIONNAIRE SURVEY	
		4.5(a) Measurement Principles	
		4.5(b) Phase 1 Measures-Perceptions of the Environment	63
		4.5(c) Phase 2 Measures-Variables Measuring Harmful Stress.	73
		4.5(d) Phase 3 Measures	77
		4.5(e) Variables Measuring Individual Differences, Coping and Stress	85
		Management Techniques	
		4.5(f) Ouestionnaire Measure Summary	92

CHAPTER 5	THE	MAIN SAMPLE AND DATA COLLECTION	95
	5.1	INTRODUCTION	95
	5.2	PROCEDURE	95
	5.3	PERSONAL DEMOGRAPHIC DETAILS	99
	5.4	SAMPLE SUMMARY	103
CHAPTER 6	RESU	ULTS : DESCRIPTIVE STATISTICS	104
	6.1	INTRODUCTION	104
	6.2	PHASE 1 - ENVIRONMENTAL INPUTS	105
	0.2	6.2(a) Episodic/Work Related	105
		6.2(b) Chronic Work Related	111
			117
		6.2(c) Episodic Non-Work Related	
		6.2(d) Chronic Non-Work Related	122
	6.3	PHASE 2 - HARMFUL STRESS OUTCOMES	129
	0.5	6.3(a) Stress Patterns A and B	130
		6.3(b) Stress Pattern C	134
		0.3(b) Stress Pattern C	124
	6.4	PHASE 3 - HEALTH AND BEHAVIOURAL OUTCOMES	138
		6.4(a) Overall Physical Health Risk	138
		6.4(b) Overall Mental Health Risk	140
		6.4(c) Self Abuse Behaviours	142
		6.4(d) Job Dissatisfaction	145
	nd na		
	6.5		147
		6.5(a) Box 2 - Individual Differences	
		6.5(b) Box 5 - Coping and Stress	156
		Management Measures	
	6 6	CONCLUSION	162
	0.0		162
		6.6(a) Stress Prone or Unhealthy?	102
CHAPTER 7	RESU	LTS: COMPARATIVE STATISTICS	165
	7.1	INTRODUCTION	165
	7.2	PHASE 1 - ENVIRONMENTAL INPUTS	166
		7.2(a) Frequent and Stressful Work	166
		Events and Conditions	
		7.2(b) Stressful Life Events	171
		7.2(c) Stressful Non-Work Conditions	174
		DUAGE 2 - HADVEUT CERROS	100
	1.3	PHASE 2 - HARMFUL STRESS	176
		7.3(a) Patterns A and B Stress	176
		7.3(b) Pattern C Stress	176

	7.4	PHASE 3 - HEALTH AND BEHAVIOURAL OUTCOMES	177
		7.4(a) Overall Mental Health Risk	177
		7.4(b) Self Abuse Behaviours	183
		7.4(c) Relationship Between Physical and Mental Health Indicators	188
		7.4(d) Job Dissatisfaction	189
	7.5	CHESS SAMPLE MODERATORS	190
		7.5(a) Individual Differences	190
		7.5(b) Coping and Stress Management Practices	202
	7.6	COMPARATIVE SUMMARY	204
		7.6(a) Phase 1 Environment Inputs	204
		7.6(b) Phase 2 Harmful Effects	205
		7.6(c) Phase 3 Health and Behavioural Outcomes	205
		7.6(d) Chess Sample Moderators	206
CHAPTER 8	MODE	L TESTING THROUGH MULTIVARIATE	208
	ANAL	YSIS	
	8.1	INTRODUCTION AND MODEL REVISITED	208
	8.2		211
		8.2(a) Factor Analysis	211
		8.2(b) Multiple Regression Analysis	212
	8.3	ANALYSIS SECTION 1	212
		8.3(a) Independent Variables	213
		8.3(b) Dependent Variables	221
		8.3(c) Regression Analysis	224
	8.4		231
		8.4(a) Independent Variables	232
		8.4(b) Dependent Variables	241
		8.4(c) Regression Analysis	241
	8.5	ANALYSIS SECTION 3	255
		8.5(a) Analysis Section 1 with Individual Differences Added	255
		8.5(b) Analysis Section 1 with both Individual Differences and	263
		Coping and Stress Management Practices Added	
			272
		8.5(c) Analysis Section 2 with Individual Differences Added	273
		8.5(d) Analysis Section 1 with both	277
		Individual Differences and	211
		Coping and Stress Management	
		Practices Added	
	8.6	RESULTS SUMMARY	284

CHAPTER 9	IMPLICATIONS FOR RESEARCH AND CEO PRACTICE		287
	9.1	INTRODUCTION	, 287
	9.2	RESEARCH ISSUES	287
	9.3	RESEARCH AIMS - SEARCH FOR IMMUNITY	288
	9.4	RESEARCH AIMS - SEARCH FOR VULNERABLE-PREVENTION	298
	9.5	OVERALL PRACTICAL IMPLICATIONS	305
	9.6	RESEARCH ISSUE 1 - ARE CEOS STRESS PRONE AND UNHEALTHY?	309
		9.6(a) Specific CHESS Results	309
	9.7	NON-MULTIVARIATE CONTRIBUTIONS TO RESEARCH MADE BY CHESS	311
	9.8	LIMITATIONS OF THIS STUDY	311
	9.9	CONCLUSION	312
APPENDIX 1	"PIL	OT INTERVIEW FORMAT"	314
APPENDIX 2	SURV	EY QUESTIONNAIRE	318
APPENDIX 3	MEAS	UREMENT ISSUES	368
BIBLIOGRAPHY			377