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Ngā mea kōaro o ngā wā tamarikitanga, Te taumahatanga o aua mea Me ētahi mahi whakaora hinegaro mō ngā wāhine Māori

Adverse childhood experiences, HPA axis functioning and culturally enhanced mindfulness therapy among Māori women in Aotearoa New Zealand.

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Ko Tongariro me Tararua ngā pāe maunga,

Ko Taupo-nui-ā-Tia te moana

Ko Manawatū te awa

Ko Te Arawa me Tainui ngā waka

Ko Ngāti Tūwharetoa me Ngāti Raukawa ngā iwi

Ko Ngāti Rongomai, Ngāti Hine, Ngāti Whakatere, me Ngāti Takihiku ngā hapū

Ko Rongomai, Korohe, Whakawehi-Poutu, me Kereru ngā marae

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Ko Miriama Ketu-McKenzie ahau

Tihei Mauri ora

Nā tō rourou, nā taku rourou ka ora ai te iwi With your food basket and with my food basket, the people will thrive

ABSTRACT

Chronic health conditions such as obesity, type II diabetes, cardiovascular disease, depression and anxiety are prevalent among Māori women in New Zealand, as are adverse experiences in childhood and chronic stress. Recent studies have shown a link between adverse childhood experiences (ACEs) and chronic health problems later in life. Many of those studies propose that dysregulation in the stress response system - specifically the hypothalamic-pituitary-adrenal (HPA) axis - mediates that link. Cortisol is the primary corticosteroid released by the HPA axis and is commonly used as a biomarker for assessing HPA axis functioning. Mindfulness-Based Stress Reduction (MBSR) is a therapy that uses a range of breathing techniques, stretches, formal meditations and awareness exercises designed to help regulate the stress response by changing the way the brain manages and relates to stress. Due to its Eastern roots, MBSR therapy assumes an holistic view of health that mirrors some of the key concepts promoted in Te Ao Māori. This research tested the HPA axis functioning of eight adult Māori women who had experienced high ACEs, and explored associations between cortisol dysregulation, visceral obesity (a risk factor for many chronic health conditions) and psychological distress. This research also tested the clinical effectiveness and cultural responsiveness of an MBSR course that had been enhanced to suit a Māori audience. Participants provided pre, mid and post-treatment salivary cortisol samples that measured changes to their acute stress cortisol response, as well as changes to their daily cortisol slope, their cortisol awakening response and their overall cortisol levels. They also provided pre and post-treatment waist circumference measurements. Self-report data assessing depression and anxiety levels, PTSD levels, stress eating habits, perceived stress levels and mindful awareness levels, was collected, as was qualitative data in the form of pre and post-treatment interviews. The results indicated that culturally enhanced MBSR therapy was well received with this sample of Māori women and that the participants reported a wide range of benefits as a result of practicing mindfulness meditation.

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Table of contents

List of Figures	19
Glossary of Māori words	20
Chapter 1 - Pākeha New Zealanders live longer than Māori 1.1 Outline and Aims 1.2 Personal context 1.3 Health and social disparities between Māori and Pākeha New Zealanders 1.4 Factors influencing disparity 1.5 My own positioning 1.6 A word on language 1.7 Thesis structure 1.8 The present study 1.9 Chapter outline	22 22 24 26 27 27 28 29 31
Chapter 2 - Chronic stress contributes to early death 2.1 Outline and Aims 2.2 The stress response system 2.2.1 The short term-stress response 2.2.2 The long term stress response 2.2.3 An introduction to cortisol 2.2.4 Prolonged cortisol exposure 2.2.5 Cortisol awakening response (CAR) 2.2.6 Cortisol daily slope (DS) 2.2.7 Cortisol response to acute stress (AS) 2.3 Stress definitions 2.4 Effects of stress 2.5 The adverse childhood experiences study (ACE) 2.5.1 The extended ACE Pyramid 2.5.2 Personal context 2.6 The allostatic load model 2.6.1 Homeostasis 2.6.2 Allostasis 2.7 Summary	32 32 32 34 35 35 36 37 38 39 40 41 43 45 45 46 47
Chapter 3 - From historical trauma to early death 3.1 Outline and aims 3.2 Tier One: Historical trauma 3.2.1 Historical trauma contributes to adverse social conditions 3.2.2 Personal context: From land loss to poor social conditions	48 48 48 50 51

	3.3 Tier Two: Social conditions	52
	3.3.1 Social conditions contribute to adverse childhood experiences	53
	3.3.2 Personal context: From poor social conditions to high ACEs	54
	3.4 Tier Three: Adverse childhood experiences	54
	3.4.1 Adverse childhood experiences contribute to allostatic load	57
	3.4.2 Personal context: From high ACEs to allostatic load	59
	3.5 Tier Four: Allostatic load	59
	3.5.1 Allostatic load contributes to coping behaviour	63
	3.5.2 Personal context: From allostatic load to coping	65
	3.6 Tier Five: Coping	66
	3.6.1 Coping behaviour contributes to the burden of chronic disease	68
	3.6.2 Personal context: From coping mechanisms to early death	68
	3.7 Tier Six: Burden of chronic disease	69
	3.7.1 Burden of chronic disease contributes to early death	71
	3.7.2 Personal context	71
	3.8 Tier seven: Early death	72
	3.8.1 Personal context	72
	3.9 Summary	73
CI	hapter 4 - Systemic contributors to early death	74
	4.1 Outline and aims	74
	4.2 An overview of inequity	74
	4.3 Barriers at the level of governance	75
	4.4 Barriers in the way health care is structured	77
	4.4.1 Potential solutions	78
	4.5 Barriers due to conflicting views of health	78
	4.5.1 Potential solutions	81
	4.6 Barriers due to the absence of spirituality	82
	4.6.1 Potential solutions	84
	4.7 Barriers due to lack of tikanga Māori	85
	4.7.1 Potential solutions	85
	4.8 Barriers at the level of individual health professionals	86
	4.8.1 Potential solutions	87
	4.9 Summary	88
CI	hapter 5 - Mindfulness therapy for Māori	90
	5.1 Outline and aims	90
	5.2 Meditation and the relaxation response	90
	5.3 Mindfulness meditation	91
	5.3.1 Mindfulness Based Stress Reduction (MBSR)	91
	5.3.2 Benefits of MBSR therapy	92

5.3.3 Mindfulness meditation reduces risk factors for chronic diseas	se 94
5.4 Criticism of mindfulness	95
5.5 MBSR fits well with Māori worldviews	96
5.5.1 MBSR is informed by an holistic view of health	97
5.5.2 MBSR therapy promotes spirituality	97
5.5.3 MBSR is group based therapy	98
5.5.4 MBSR is experiential therapy	99
5.5.5 MBSR concepts overlap with concepts in Te Ao Māori	100
5.5.6 MBSR can be adapted for minority groups	100
5.5.7 MBSR promotes non-judgmental practitioners	101
5.5.8 MBSR bridges between Māori and bio-medical model	102
5.6 Summary	103
Chapter 6 – The present study	105
6.1 Outline and aims	105
6.2 Research question one	105
6.3 Research question two	106
6.4 Research question three	107
6.5 Rationale for selecting Māori women with childhood adversity	108
6.6 Rationale for focus on chronic stress	109
6.7 Rationale for focus on cortisol profiles	110
6.8 Rationale for focus on visceral obesity	112
6.9 Rationale for focus on psychological distress	113
6.10 Rationale for focus on MBSR	114
6.11 Methodology and design	115
6.12 Summary	118
Chapter 7 – Cultural enhancements to MBSR	119
7.1 Outline and aims	119
7.2 Standardised MBSR therapy	119
7.3 Culturally enhancing MBSR therapy – Consultation	119
7.3.1 Integrating tikanga Māori and MBSR therapy	120
7.4 The therapist	121
7.5 Study Settings	122
7.6 Outline of course content and cultural enhancements	122
7.7 Class One	123
7.7.1 Cultural enhancement of Class One: Hau and Mauri	123
7.8 Class Two	125
7.8.1 Cultural enhancement of Class Two: Te taha hinengaro	125
7.9 Class Three	125
7.9.1 Cultural enhancement of Class Three: Te taha tinana	126

	7.10 Class Four	126
	7.10.1 Cultural enhancement of Class Four: Ha, a kui mā, a koro mā	126
	7.11 Class Five	127
	7.11.1 Cultural enhancement of Class Five: Te taha wairua	127
	7.12 Class Six:	128
	7.12.1 Cultural enhancements of Class Six: Te taha whānau	128
	7.13 Full day workshop: Silent retreat	128
	7.14 Class Seven	129
	7.14.1 Cultural enhancements to Class Seven: Atawhai and Aroha	129
	7.15 Class Eight	129
	7.15.1 Cultural enhancements of Class Eight: Te Whare Tapa Whā	130
	7.16 Summary	130
С	hapter 8 – Method	131
	8.1 Outline and aims	131
	8.2 Participant characteristics	132
	8.3 Ethical considerations	133
	8.4 Outcome Measures	135
	8.5 Measuring mindful awareness	137
	8.5.1 Mindful Attention and Awareness Scale (MAAS)	137
	8.6 Measuring chronic stress	138
	8.6.1 Social Readjustment Rating Scale (SRRS)	138
	8.6.2 Perceived Stress Scale (PSS)	139
	8.7 Measuring cortisol dysregulation	140
	8.7.1 Cortisol awakening response (CAR)	140
	8.7.2 Cortisol daily slope (DS)	141
	8.7.3 Cortisol response to acute stress (AS)	141
	8.8 Measuring visceral obesity	143
	8.8.1 Waist circumference (WC)	143
	8.8.2 Dutch Eating Behaviour Questionnaire (DEBQ)	144
	8.9 Measuring psychological distress	145
	8.9.1 Depression, Anxiety and Stress Scale (DASS)	145
	8.9.2 PTSD Checklist – Civilian Version (PCL-C)	146
	8.10 Measuring how culturally enhanced MBSR was received	147
	8.10.1 Semi-structured interviews	147
	8.11 Study procedure	149
	8.11.1 Baseline assessment phase	149
	8.11.2 Treatment phase	150
	8.11.3 Post-treatment assessment phase	150
	8.12 Summary	150

Chapter 9 - Results: Individual case studies	152
9.1 Outline and aims	152
9.2 Case Study One: Ripeka	152
9.2.1 Findings from research question one: Baseline results	153
9.2.1.1 Mindful awareness	153
9.2.1.2 Chronic stress	154
9.2.1.3 Cortisol dysregulation	154
9.2.1.4 Visceral obesity	154
9.2.1.5 Psychological distress	155
9.2.2 Findings from research question two: Response to the course	155
9.2.3 Findings from research question three: Clinical change	159
9.2.3.1 Mindful Awareness	159
9.2.3.2 Chronic stress	159
9.2.3.3 Cortisol dysregulation:	160
Cortisol awakening response (CAR)	160
Cortisol daily slope (DS)	160
Acute stress response (AS)	161
9.2.3.4 Visceral obesity	162
9.2.3.5 Psychological distress	162
9.2.4 Summary	163
9.3 Case Study Two: Ani	164
9.3.1 Findings from research question one: Baseline results	165
9.3.1.1 Mindful awareness	165
9.3.1.2 Chronic stress	165
9.3.1.3 Cortisol dysregulation	166
9.3.1.4 Visceral obesity	166
9.3.1.5 Psychological distress	166
9.3.2 Findings from research question two: Response to the course	166
9.3.3 Findings from research question three: Clinical change	170
9.3.3.1 Mindful Awareness	170
9.3.3.2 Chronic stress	170
9.3.3.3 Cortisol dysregulation:	171
Cortisol awakening response (CAR)	171
Cortisol daily slope (DS)	172
Acute stress response (AS)	172
9.3.3.4 Visceral obesity	173
9.3.3.5 Psychological distress	173
9.3.4 Summary	174
9.4 Case Study Three: Hararutu	176
9.4.1 Findings from research question one: Baseline results	177

9.4.1.1 Mindful awareness	177
9.4.1.2 Chronic stress	177
9.4.1.3 Cortisol dysregulation	178
9.4.1.4 Visceral obesity	178
9.4.1.5 Psychological distress	178
9.4.2 Findings from research question two: Response to the course	178
9.4.3 Findings from research question three: Clinical change	181
9.4.3.1 Mindful Awareness	181
9.4.3.2 Chronic stress	181
9.4.3.3 Cortisol dysregulation:	182
Cortisol awakening response (CAR)	182
Cortisol daily slope (DS)	182
Acute stress response (AS)	183
9.4.3.4 Visceral obesity	183
9.4.3.5 Psychological distress	184
9.4.4 Summary	185
9.5 Case Study Four: Kiri	186
9.5.1 Findings from research question one: Baseline results	187
9.5.1.1 Mindful awareness	187
9.5.1.2 Chronic stress	187
9.5.1.3 Cortisol dysregulation	187
9.5.1.4 Visceral obesity	188
9.5.1.5 Psychological distress	188
9.5.2 Findings from research question two: Response to the course	188
9.5.3 Findings from research question three: Clinical change	190
9.5.3.1 Mindful Awareness	190
9.5.3.2 Chronic stress	190
9.5.3.3 Cortisol dysregulation:	191
Cortisol awakening response (CAR)	191
Cortisol daily slope (DS)	192
Acute stress response (AS)	192
9.5.3.4 Visceral obesity	193
9.5.3.5 Psychological distress	193
9.5.4 Summary	194
9.6 Case Study Five: Arohia	195
9.6.1 Findings from research question one: Baseline results	196
9.6.1.1 Mindful awareness	197
9.6.1.2 Chronic stress	197
9.6.1.3 Cortisol dysregulation	197
9.6.1.4 Visceral obesity	197

9.6.1.5 Psychological distress	197
9.6.2 Findings from research question two: Response to the course	198
9.6.3 Findings from research question three: Clinical change	202
9.6.3.1 Mindful Awareness	202
9.6.3.2 Chronic stress	202
9.6.3.3 Cortisol dysregulation:	203
Cortisol awakening response (CAR)	203
Cortisol daily slope (DS)	204
Acute stress response (AS)	204
9.6.3.4 Visceral obesity	205
9.6.3.5 Psychological distress	205
9.6.4 Summary	206
9.7 Case Study Six: Wairata	208
9.7.1 Findings from research question one: Baseline results	209
9.7.1.1 Mindful awareness	209
9.7.1.2 Chronic stress	210
9.7.1.3 Cortisol dysregulation	210
9.7.1.4 Visceral obesity	210
9.7.1.5 Psychological distress	210
9.7.2 Findings from research question two: Response to the course	210
9.7.3 Findings from research question three: Clinical change	211
9.7.3.1 Mindful Awareness	211
9.7.3.2 Chronic stress	211
9.7.3.3 Cortisol dysregulation:	212
Cortisol awakening response (CAR)	212
Cortisol daily slope (DS)	212
Acute stress response (AS)	213
9.7.3.4 Visceral obesity	213
9.7.3.5 Psychological distress	214
9.7.4 Summary	215
9.8 Case Study Seven: Marama	216
9.8.1 Findings from research question one: Baseline results	217
9.8.1.1 Mindful awareness	217
9.8.1.2 Chronic stress	217
9.8.1.3 Cortisol dysregulation	217
9.8.1.4 Visceral obesity	218
9.8.1.5 Psychological distress	218
9.8.2 Findings from research question two: Response to the course	218
9.8.3 Findings from research question three: Clinical change	220
9 8 3 1 Mindful Awareness	220

9.8.3.2 Chronic stress	220
9.8.3.3 Cortisol dysregulation:	221
Cortisol awakening response (CAR)	221
Cortisol daily slope (DS)	222
Acute stress response (AS)	222
9.8.3.4 Visceral obesity	223
9.8.3.5 Psychological distress	223
9.8.4 Summary	224
9.9 Case Study Eight: Ngāpaki	225
9.9.1 Findings from research question one: Baseline results	226
9.9.1.1 Mindful awareness	226
9.9.1.2 Chronic stress	226
9.9.1.3 Cortisol dysregulation	226
9.9.1.4 Visceral obesity	227
9.9.1.5 Psychological distress	227
9.9.2 Findings from research question two: Response to the course	227
9.9.3 Findings from research question three: Clinical change	230
9.9.3.1 Mindful Awareness	230
9.9.3.2 Chronic stress	230
9.9.3.3 Cortisol dysregulation	231
Cortisol awakening response (CAR)	231
Cortisol daily slope (DS)	231
Acute stress response (AS)	232
9.2.3.4 Visceral obesity	233
9.2.3.5 Psychological distress	233
9.9.4 Summary	234
Chapter 10 – Discussion	235
10.1 Outline and aims	235
10.2 Research questions one	235
10.2.1 Summary	237
10.3 Research question two	238
10.3.1 Perceived benefits	238
10.3.2 Qualities of the teacher	239
10.3.3 Group based therapy	240
10.3.4 Mindfulness as a spiritual practice	240
10.3.5 An holistic approach	241
10.3.6 Congruence with Māori concepts	241
10.3.7 Summary	242
10.4 Research question three	242
10.4.1 Summary	244

10.5 Strengths and limitations of the study	245
10.5.1 Design limitations	245
10.5.2 Design strengths	247
10.5.3 Cortisol measurement limitations	248
10.5.4 Cortisol measurement strengths	248
10.5.5 Construct validity limitations	249
10.5.6 Construct validity strengths	250
10.5.7 Cultural limitations	250
10.5.8 Cultural strengths	251
10.6 Implications and future research	252
10.7 Conclusion	253
10.8 Personal reflection	255
Appendix A - AUCg cortisol awakening response	286
Appendix B - AUCg cortisol daily slope	287
Appendix C - AUCg acute stress test	288
Appendix D - Letter of ethical approval	289
Appendix E - Saliva sampling instructions	290
Appendix F - Information Sheet	291
Appendix G - Consent form	295
Appendix H - ACE Questionnaire	296

List of Figures

1.1 Life expectancy rates for Māori and non-Māori New Zealanders	25
2.1 The hypothalamus-pituitary-adrenal axis	33
2.2 Daily cortisol slope	38
2.3 Adverse childhood experiences (ACE) pyramid	
2.4 Extended ACE Pyramid	
3.1 Three common hypo-cortisolemic curves	
3.2 Diurnal salivary cortisol concentrations in chronic fatigue syndrome	
3.3 Types of allostatic load	
List of Tables	
Table 1: Participant demographics	
Individual Case Studies	
Table 1: Baseline results	
Figure 1: Mindful awareness scores	
Figure 2: Perceived stress scores	
Figure 3: Baseline CAR	
Figure 4: Mid-treatment CAR	
Figure 5: Post-treatment CAR	
Figure 6: Baseline DS	
Figure 7: Mid-treatment DS	
Figure 8: Post-treatment DS	
Figure 9: Stress perceptions during baseline TSST	
Figure 10: Cortisol response to baseline TSST	
Figure 11: Stress perceptions during post-treatment TSST	
Figure 12: Cortisol response to post-treatment TSST	
Figure 13: Eating behaviour scores	
Figure 14: Depression, anxiety and stress scores	
Figure 15: Post-traumatic stress scores	

Glossary of Māori words

Māori Indigenous New Zealander

Pākeha New Zealander of European descent Aotearoa The Māori name for New Zealand

Te Reo Māori The Māori language

Whānau Family, extended family, kin networks
Tangi Traditional Māori funeral that lasts 3-days

Whanaungatanga Togetherness, relationship
Tangata whaiora Mental health consumer

Te tiriti o waitangi Māori version of the Treaty of Waitangi

Reo me ona tikanga Māori language and traditions

Te kohanga reo Māori language immersion early childhood care The waitangi tribunal Entity charged with addressing Treaty breaches

Tāne Men, man, male Marae Māori meeting ground

Karanga Ceremonial call performed by women

la He, she, him, her, it

Tipuna Ancestor(s)

Koro Grandfather, old man

Kaupapa maori Māori approach, Māori agenda

Te rau puawai Mentorship programme for Māori studying health

He korowai oranga The Māori health strategy
Te whare tapa wha Model of Māori health

Whare House

Te taha tinanaThe physical side of beingTe taha wairuaThe spiritual side of beingTe taha hinengaroThe mental side of beingTe taha whanauThe social side of being

Io Supreme beingMauri Life principle, energy

ĀtuaGods, deitiesPapatuanukuEarth motherRanginuiSky father

Whakapapa Ancestry, lineage, genealogy, history

HuiMeeting, gatheringKaumatuaElder, wise person

Tikanga Māori traditions, protocols, practices, rituals Pōwhiri Traditional Māori welcome onto a marae

Karakia Prayer, incantation

Mihimihi Formal way of greeting another

Kai Food, eating

Manaakitanga Sharing, kindness, hospitality, collaboration

Awhi Support, help

Whakamā Shame, embarrassment Tangata whenua People of the land (Māori)

Tohunga Expert, healer

Kura kaupapa Māori immersion special character school

Waiata Song, singing Awhinatanga Ongoing support

Pepeha Way of introducing yourself in Māori Karakia kai Blessing the food before eating it

Koha Gift Kaitiaki Guardian

Wharenui Māori meeting house

Hau Breath of spirit

Hongi Ritual involving pressing noses together

Te ao māori The Māori world

Tinana Body

Ha a kui ma a koro ma

Breath of our ancestors living on through us
Ha taonga tuku iho

Breath handed down across generations

Utu Reciprocity

Aroha Love

Hariru Greeting one another with hongi or handshake

TapuSacredWhakamāShame