Contents

Lis	List of Figures page			
Pre	eface		xv	
I	Inti	roductory Chapter: Dyslexia in Adult Students	I	
	1.1	Introduction	Ι	
	1.2	Not Useful Definitions of Dyslexia	3	
	1.3	Useful Definitions of Dyslexia	6	
	1.4	,	7	
	1.5	An Evaluation and Critique of the Main Causal Theories		
		of Dyslexia	8	
		1.5.1 The Phonological Theory	9	
		1.5.2 The Short-Term/Working Memory Theory	I 2	
		1.5.3 Theories of Cerebellar Deficits	15	
		1.5.4 The Temporal Processing Theory	16	
		1.5.5 The Visual/Magnocellular Theory	17	
	1.6	Studies Exploring Various Causal Theories	18	
		1.6.1 The Multiple Deficit Model of Dyslexia	20	
		1.6.2 Frith	22	
	1.7	The Nature of Dyslexia in Students in Higher Education	23	
	1.8	Summary	24	
		References	25	
2	Dvs	slexia, Anxiety and Social/Emotional Barriers in		
		ther Education	29	
	2.1	Introduction	29	
	2.1	Key Developments and Legislation on Dyslexia in	29	
	2.2	Higher Education	31	
		2.2.1 The Disability Discrimination Act (DDA) 1995, Replaced by the	1	
		Equality Act 2010	32	
		2.2.2 The Dearing Report 1997	34	
		2.2.3 The Disabled Student Allowance (DSA) 1993	35	
		2.2.4 The Quality Assurance Agency for Higher Education	,,	
		(QAA) 1997	36	

CAMBRIDGE

vi			Contents	
		,	ning Quality Assessment and the Research	
		Assessmen		37
			nal Working Party on Dyslexia in Higher Education	
	2.3	(NWPDH Dyslexia and Hig		38
	2.3	, 0	of Support and Provision	40 42
	2.4		otional Difficulties	49
	2.5	Dyslexia and Anx		52
	2.6	Dyslexia and Cop		56
	2.7	Summary		59
		References		60
3	The	ories of Anxiety	v and Coping	67
	3.1	Introduction		67
	3.2	Theories of Anxie		68
			oanalytic Approach	69
			ing/Behavioural Approach ological Approach	69
			omenological/Existential Approach	70 70
		3.2.5 The Cogn	6 11	70
		3.2.6 The Unce		73
	3.3	Academic Anxiety	, II	75
		3.3.1 Academic	Anxiety: What It Is	75
		3.3.2 Academic	Anxiety: What Effects It Has	75
			Anxiety: Possible Causes	77
	3.4	Test Anxiety		79
			ety: What It Is	80
			ety: What Effects It Has	80
	2.5	3.4.3 Test Anxie Social Anxiety	ety: Possible Causes	82 86
	3.5	•	tiety: What It Is	86
			ciety: What Effects It Has	86
		• ,	tiety: Possible Causes	87
	3.6	Performance Anxi		91
		3.6.1 Performan	ce Anxiety: What It Is	92
		3.6.2 Performan	ce Anxiety: What Effects It Has	92
		3.6.3 Performan	ce Anxiety: Possible Causes	93
	3.7	Coping		95
		3.7.1 Coping: W		95
		3.7.2 Theories of	1 0	97
			and Lazarus's Transactional Model of Stress	
		and Copir	al. (2003): Searching for the Structure of Coping	97 100
			f Categorisation: Problem-Focused versus	100
		Emotion-I	e	101

			Contents	vii
		3.7.6 3.7.7		102
			of Coping	103
	3.8	-	ng Techniques as Multidimensional	104
	3.9	~	ities in Coping	107
	3.10		mary	108
		Kefer	rences	108
4	Idei	ntificat	tion of the Prevalence of Anxiety	118
	4.I	Introd	luction	118
	4.2		pproach	121
	4.3	Justifi	cation for Confirmatory Replication of a Previous Survey	122
	4.4	Desig		124
	4.5	Measu		125
	4.6	Partici	1	126
	4.7	Result		128
		4 . 7.1	Results by Gender	132
	0	4.7.2	Results by Graduate Status	135
	4.8	-	retation of Statistically Significant Items from the Survey	137
		4.8.1	I Feel My Literature Skills May Let Me Down in Exams	139
		4.8.2	I Spend Longer on My Work than Most People When About to Enter an Exam, I Feel Ill/Shaky	139
		4.8.3	I Feel Anxious When Reading Aloud in Front of My Class	140 140
		4.8.4 4.8.5	I Feel A Failure Academically in Comparison to My Peers	140
		4.8.6	I Feel Overly Anxious When I Have Exams	141 141
		4.8.7	I Get Angry with Myself for Taking So Long over One Piece of Work	
		4.8.8	I Get Frustrated When Faced with a Lot of Reading	142
		4.8.9 4.8.9	I Am Often Brought to Tears When I Think about My	143
		4.8.10		143
		0	Better If I Have Plenty of Time	144
		4.8.11	117 7	145
	4.9	Summ Refere		145
		Kerere	nces	146
5	Effe	ects of	Dyslexia and Emotional Responses	
	to A	Acaden	nic Tasks	152
	5.1	Introd	uction	152
	5.2	Social	Effects of Dyslexia	154
		5.2.1	Fear of Reading Aloud Due to Being Judged	155
		5.2.2	Fear of Any Types of Evaluative Situations Where Words	
			and Language Are Involved	156
		5.2.3	Devising Techniques to Avoid Being Singled Out as	
			Not Understanding	157

CAMBRIDGE

viii	Contents	
	5.2.4 Fear of Looking Stupid in Front of Others	157
	5.2.5 Comparison with Peers and Feeling Inferior	158
	5.2.6 Imposter Syndrome	159
	5.2.7 Feeling Different and Misunderstood by Family	159
	5.2.8 Word Finding Difficulties and Delayed Thinking on	
	Feet Affecting Social Abilities	160
5.3	Emotional Effects	160
	5.3.1 Anxiety Blocking Cognitive Function	161
	5.3.2 Anxiety Affecting Confidence and Causing Self-Doubt	162
	5.3.3 Anxiety Leading to Social Withdrawal	162
	5.3.4 Anxiety Due to Lack of Structure/Routine	163
	5.3.5 Dealing with Anxiety	163
	5.3.6 Anxiety as a Driver	163
	5.3.7 Anger at Self Due to Cognitive Weaknesses	164
	5.3.8 Anger Targeted at Dyslexia	164
	5.3.9 Dealing with Anger	165
5.4	Cognitive Effects	165
	5.4.1 Reading Difficulties	166
	5.4.2 Writing Difficulties	167
	5.4.3 Spelling Difficulties	169
	5.4.4 Information Processing Difficulties	169
	5.4.5 Taking Longer to Do Work	169
	5.4.6 Problems with Maths and Numbers	170
	5.4.7 Identification of Emotional Difficulties before Recognition of	
	Cognitive Difficulties	170
5.5		171
	5.5.1 Creativity	173
	5.5.2 Holistic and Big-Picture Thinkers	173
	5.5.3 Harder Working: More Driven, Persevering and Resilient	174
	5.5.4 Good Communication Skills	175
,	5.5.5 Deeper Empathy	176
5.6		0
	Academic Tasks	178
5.7		0
	Responses	178
- 0	5.7.1 Exams, Meeting Deadlines and Note Taking in Lectures	178
5.8	Types of Academic Tasks That Generate a Mixture of Negative,	181
	Indifferent and Positive Emotional Responses	181
	5.8.1 Reading, Remembering Information and Spelling Tasks	181
	5.8.2 Presentations and Seminar Discussions Types of Academic Tasks That Cenerate Positive Emotional	182
5.9	Types of Academic Tasks That Generate Positive Emotional	T Q 4
	Responses 5.9.1 Producing Written Work	184 184
	5.9.2 Using Organisational Skills	185
	J.7.2 Using Organisational Okins	10)

			Contents	ix
	5.10	Explanat	tions for Negative Emotional Responses to Academic Tasks	186
).10	5.10.1	Retention and Retrieval Difficulties	187
		5.10.2	Time Issues	187
		/	Processing Difficulties	188
			Not Understanding What Is Required or Not Having Strate	egies
		<i>,</i> ,	to Cope	188
	5.11	Summar	•	191
		Referenc	Jes	192
6	Cog	nitive Te	echniques to Overcome Barriers to Learning	195
	6.1	Introduc		195
	6.2	Reading	Tasks	197
		6.2.1	Cognitive Learning Strategies	197
		6.2.2	The PASS Reading Strategy	197
		6.2.3	Skimming and Scanning	198
		6.2.4	Selectivity Reading	199
		6.2.5	Colour-Coded Highlighting	199
		6.2.6	Notes/Summaries	199
		6.2.7	Metacognition	200
		6.2.8	Multisensory Methods	200
		6.2.9	Use of Technology	201
		6.2.10	Practical and Favourite Things	201
		6.2.11	Alleviating Scotopic Sensitivity	203
	6.3		bering Reading	203
		6.3.1	Cognitive Learning Strategies	203
		6.3.2	Highlighting: Keyword/Image Association	204
		6.3.3	Selectivity/Extracting Information and Q Notes	205
		6.3.4	Multisensory Methods	205
		6.3.5	Use of Technology	206
	6.4	Spelling		206
		6.4.1	Cognitive Learning Strategies	206
		6.4.2	Mnemonics	206
		6.4.3	Sounding It Out	207
		6.4.4	Repetition	207
		6.4.5	Copying Words	207
		6.4.6	Designate to a Colleague or Friend	208
		6.4.7	Avoidance	208
		6.4.8	Use of Technology	209
	6.5	Exams		209
	6.6	Revision		209
		6.6.1	Cognitive Learning Strategies	209
		6.6.2	Using To-Do Lists and Setting a Purpose	210
		6.6.3	Creating Questions	210
		6.6.4	Multisensory Methods	211

х

		Contents	
6.7	Taking	Exams	211
0.7	6.7.1	Cognitive Learning Strategies	211
	6.7.2	Timetabling Exams	212
	6.7.3	Breaking Down Questions	212
	6.7.4	Selecting Questions	213
	6.7.5	Verbalising Exam Questions	213
	6.7.6	Practical and Favourite Things	214
6.8	'	ing Written Work and Writing Essays	214
6.9		lanning	214
	6.9.1	Cognitive Learning Strategies	214
	6.9.2	Utilising University Resources	215
	6.9.3	Making Plans and Writing Guides	215
	6.9.4	Using a Dyslexia Tutor/Disability Adviser during Support Sessions	216
6.10	Writing		216
	6.10.1	Cognitive Learning Strategies	216
	6.10.2	Setting Small Goals	216
	6.10.3	The PEC Method	217
	6.10.4	Use of Technology	218
6.11	Present		218
	6.11.1	Cognitive Learning Strategies	218
	6.11.2	Selecting an Enjoyable Topic	218
	6.11.3	Using Visual Images	218
	6.11.4	Preparation through Rehearsal and Timing	218
	6.11.5	Using Activities	219
	6.11.6	Use of Technology	219
6.12	Organia	sation Techniques	220
	6.12.1	Cognitive Learning Strategies	220
	6.12.2	Systems	221
	6.12.3	Visual Posters	221
	6.12.4	Use of Technology	222
	6.12.5	Practical and Favourite Things	222
6.13	Meetin	g Deadlines	222
	6.13.1	Cognitive Learning Strategies	222
	6.13.2	Starting Early	223
	6.13.3	Use of Technology	223
6.14	Taking	Notes in Lectures	224
	6.14.1	Cognitive Learning Strategies	224
	6.14.2	Active Learning	224
	6.14.3	Using Shorthand and Symbols	225
	6.14.4	Drawing and Using Coloured Pens and Coloured Paper	225
	6.14.5	Multisensory Methods	226
	6.14.6	Use of Technology	226
6.15	Semina	r Discussions	227
	6.15.1	Cognitive Learning Strategies	227
	6.15.2	Preparation	227

CAMBRIDGE

		Contents	xi
		6.15.3 Asking Questions	228
		6.15.4 Being the First to Speak	229
		6.15.5 Multisensory Methods	229
		6.15.6 Use of Technology	230
	6.16	Summary	230
		References	231
7		tional Techniques to Overcome Barriers to Learning	232
	7 . I	Introduction	232
	7.2	Avoidance	233
	7.3	Getting Stressed, Worrying and Crying	235
	7.4	Panicking With Jamine George Social Internetion	236
	7.5 7.6	Withdrawing from Social Interaction Talking to Someone	237
	7.0 7.7	Planning and Using Strategies	238 240
	7.8	Implementing Breaks	240
	7.9	Participating in Exercise	240
	7.10	Seeking Comfort	243
	7.11	Mental Resilience	244
	, 7.12	Summary	245
		References	245
8	Theo	pretical Insights into Dyslexic Anxiety	
		Coping Responses	247
	8.1	Introduction	247
	8.2	How Previous Research on Anxiety and Dyslexia in Higher	
		Education Relates to Experiences of Anxiety Provided by Articulations	
		of Dyslexic Learners	247
	8.3	How the State-Trait Model of Anxiety Relates to Experiences	
		of Anxiety Provided by Dyslexic Learners	249
	8.4	Revisiting Theoretical Approaches to Anxiety and How These Relate	
		to Anxiety Experienced by Students with Dyslexia	249
		8.4.1 Ohman's Information-Processing Model of Anxiety	250
	0	8.4.2 Hadwin et al.'s Processing Efficiency Theory	252
	8.5	Revisiting Skinner et al.'s Coping Framework and How This	
		Explains Coping Responses Used by Students with Dyslexia	256
		8.5.1 Problem-Solving	257
		8.5.2 Seeking Support	260 261
		8.5.3 Cognitive Restructuring8.5.4 Emotion Regulation	261
		8.5.4 Emotion Regulation 8.5.5 Negotiation	262
	8.6	Critique of Skinner et al.'s Coping Framework in Relation	203
	0.0	to Understanding Coping Responses Used by Students with Dyslexia	264
	8.7	Summary	264
	/	References	267
			,

xii	Contents	
9 (Concluding Thoughts and Moving Forwards	269
-	9.1 Introduction	269
	9.2 Summary of Findings and Main Points of Each Chapter	269
	9.3 Contribution the Book Makes to an Understanding of Anxiety	
	for the University Student with Dyslexia	272
	9.4 Contribution the Book Makes to Identification of Ways	
	of Coping That Students with Dyslexia Employ	274
	9.5 Implications for Dyslexia Practitioners	275
	9.6 Implications for Universities	276
	9.7 Implications for Academics and Teaching Staff	277
	9.8 Further Research Work Moving Forwards	278
	References	279
Арра	endix A: The Survey	282
Appe	endix B: Cognitive Coping Strategies Used for Each Study Task	287
Appe	endix C: Study Skills Checklist	300
Inde	x	302