# Educating student nurses about chronic pain

Susan M. Shaw

**Doctor of Education** 

2007

**Certificate of Authorship/Originality** 

I certify that the work in this thesis has not previously been

submitted for a degree nor has it been submitted as part of

requirements for a degree except as fully acknowledged within the

text.

I also certify that the thesis has been written by me. Any help that I

have received in my research work and the preparation of the thesis

itself has been acknowledged. In addition, I certify that all

information sources and literature used are indicated in the thesis.

Production Note: Signature removed prior to publication.

Susan M. Shaw

#### **Acknowledgments**

Many people including family, friends, colleagues and supervisors were involved in supporting me during this journey. The research began as a component of a doctoral programme at the University of Auckland. However, the research and dissertation was completed as part of the Doctorate of Education at University of Technology, Sydney (UTS).

Alison Lee at UTS provided wise and thoughtful supervision for this work as it crossed disciplines and boundaries. Her appreciation of scholarship, quality education and links between knowledge and practice, have been invaluable.

Colleagues at Auckland University of Technology provided ongoing support. Lorraine Parker, Jim Lester, Alison Kirkness and Pam Wyse provided enormous amounts of encouragement. Carol Wright and Grace Wong acted as proof readers, Drew South and Donna Jarvis provided referencing expertise and Eunice Beveridge was a thorough and thoughtful editor.

My family provided unfailing support and understanding. They simply trust that I will achieve what I set out to do. I have been privileged enough to have the resources to embark on this journey and I am aware that given the opportunity others, such as my Nana, Mary Payne, may have embarked on a similar one.

A number of people who have supported and believed in me in the past have contributed to my ability to achieve this goal. This group includes Moira Geerkens, Barbara Smith, Colleen Clifford and Philip Wrightson.

A small group of people have provided very specific support. The completion of this work is a testament to their help and encouragement. Special thanks are due to Rain Lamdin for her intelligent conversation and insight, Greg Wade for his friendship and superb skill and to Susan Sherrard who understood it all so incredibly well and was always there.

### CONTENTS

### Page No

Abstract		10
Chapter one – Introduction		11
Health care provision	on and practice	11
	es	
The education and	practice of nurses	12
This study		14
The structure of this	s thesis	16
Summary		17
Chapter two - Literature rev	iew	18
Introduction		18
Pain		19
Types of pa	in	19
Chronic pai	n	20
Chronic pai	n syndrome	21
Manageme	nt of pain	21
Patients' ex	periences of pain	22
Contextual issues a	nd pain management	23
Neoliberalis	sm	23
Chr	onicity in the context of neoliberalism	23
Health care	provision in a neoliberal environment	24
The New Ze	ealand social and political environment	25
Soc	siopolitical context and chronic pain	26
The New Ze	ealand health environment	27
Nursing pra	ctice in the New Zealand Health environment	28
Views of ch	ronicity and disability	29
Assessmen	t, treatment and evaluation of chronic pain	30
Health professionals	s and pain management	32
The impact	of knowledge on practice	32
Personal ar	nd professional culture	34
Interactions	with patients with chronic pain	35
Beliefs, valu	ues, attitudes and stereotypes	36
Misconcepti	ions about chronic non-malignant pain	38
The respons	se of health professionals to people with chronic pain	41

The nature of nursing	practice	41
Knowledge ar	nd attitudes of nurses	42
Health professional ed	ducation	44
Socialisation		44
Socialisation	and society	45
Socialisation	during the process of health professional education	46
Socialisation :	following graduation	47
Curriculum		47
Curriculum co	ontent	48
Curriculum pr	ocesses	49
Curriculum, c	hronicity and chronic pain	51
The influence	of health professional education	52
Gaps between theory	and practice	52
Nursing education in	New Zealand and chronicity	53
The discourse	e of bioscience	54
The discourse	e of expertise	55
The discourse	e of treating chronicity	55
Discourses in	n curriculum	56
Summary		57
Chapter three – Method		59
Introduction		
	questions	
The design		
The sample		
·	naire sample	63
•	sample – students	
The interview	sample – educators	64
The instruments		64
The question	naire	64
The vignettes	·	65
The adjective	item	67
The misconce	eption items	68
Other items		71
The process of	of developing the questionnaire	71
The interview	'S	73

	Validity and reliability			73
	Proce	dure		74
		Ethical conside	rations	74
		Administration (	of the questionnaire	75
		The interviews		76
		Analysis		76
	Sumn	nary		78
Chap	ter four -	- Results		80
	Introd	uction		80
	Respo	onse rate		80
		Questionnaire		80
		Interviews		81
	The re	esearch questions	S	82
	1)	Do student nurs	ses hold generally positive or negative views of people with	
		chronic pain?		82
	2)	To what extent	do student nurses hold the misconceptions about people with	
		chronic pain ide	entified by McCaffery and Pasero (1999)?	83
		Misconceptions	s relating to the causes of chronic pain	85
		Psycho	ological impairment	85
		Stress		85
		Depres	sion	86
		Misconceptions	s relating to the treatment of chronic pain	86
		Tolerar	nce to pain	86
		Addiction	on to opioids	86
		Misconceptions	s relating to the behaviour of patients with chronic pain	86
		Compe	ensation and exaggeration	86
		Manipu	ılative behaviour	86
		Compli	ance and dependence	87
	3)	Does the prese	ence of pathology impact on student nurses' conceptions of	
		patients with ch	nronic pain?	89
	4)	Do student nurs	ses' personal experiences of chronic pain impact on the	
		conceptions the	ey hold of patients with chronic pain?	90
	5)	Does the educa	ational setting impact on the conceptions held by student nurses	
		towards people	e with chronic pain?	91
	6)	Is there a differ	ence between the conceptions that student nurses and nursing	
		educators have	e of people experiencing chronic pain?	91
	7)	Does social inte	eraction influence student nurses' learning about chronic pain?	92
	8)	Do student nurs	ses' general views of people with chronic pain change during the	
		course of unde	rgraduate education?	94

	9) Does a course component designed to introduce students to chronic illness					
		impact on the conceptions that they have of people with chronic pain?			95	
	10)	Do stud	Oo student nurses develop misconceptions about people with chronic pain			
		during t	he cour	se of their undergraduate education?	96	
	Qualita	ative data			96	
	Summ	ary			102	
Chapte	er five –	Discussio	on		103	
	Introdu	ıction			103	
	Knowle	edge abo	ut chro	nic pain	103	
		Knowle	dge abo	out causes and treatment of chronic pain	104	
		Knowle	dge abo	out pathology	105	
		Knowle	dge abo	out chronic pain in nursing practice	105	
		Educati	onal str	ategies: knowledge about chronic pain	108	
	Nurses	s interacti	ng with	patients	109	
		Attitude	s		109	
		Persona	al exper	ience of chronic pain	110	
		The role	es of nu	rses working with people experiencing chronic pain	111	
		Nurses	interact	ing with patients experiencing chronic pain	111	
		Educati	onal str	ategies: interactive skills	115	
	The ed	ducationa	l proces	ss	117	
		Socialis	ation		117	
		Curricul	lum		118	
		The infl	uence d	of the educational process	120	
		Socialis	ing influ	uences	120	
		Curricul	um influ	uences	121	
		· Educati	onal str	ategies: the educational process	122	
	Social	and politi	ical con	text	124	
		Causes	of pain		124	
		Respon	sibilitie	s of patients	125	
		Trustwo	rthines	s of patients	126	
		Educati	onal str	ategies: social and political context	129	
	The ex	pertise of	f the pa	tient	130	
Patients and professionals as experts				130		
Educational strategies: expertise			133			
	Miscor	nceptions			133	
		Addition	nal misc	onceptions	134	
		1)	Health	professionals have more expertise than patients about chronic		
			pain		134	

	2)	The primary role of nurses in working with people experiencing chror	nic
		pain is to administer medication or provide some other intervention.	135
	3)	Patients are responsible for their condition	135
	4)	Chronic pain represents personal weakness	136
	5)	Patients with chronic pain are a burden on society	136
	Educational stra	tegies: misconceptions about chronic pain	136
	What does all th	is mean for nursing education and practice?	137
	Evaluati	ng curriculum and pedagogy	138
	Linking	heory and practice	139
	Underst	anding the social and political context	141
	Conside	ring the concept of advanced nursing practice	142
	Defining	and valuing the notion of engagement – 'being with' patients	143
	Education	onal strategies: Impacting on practice	143
	Summary		145
Chante	r six – Conclusio	ns	147
Onapic	Introduction		
	Strengths of the		
	Limitations		
	Further research		
		ng the practice of nurses	
		g the experience of patients	
	•	ing and evaluating educational strategies	
	Summary		
Referer	•		
Append			
		nnaires	
	·	redules	
	3 - Questionnair		
		onses to misconception items on Likert scale	

## Page No

Table 1	Number of students enrolled in undergraduate nursing courses in 2002	63
Table 2	Misconception items	68
Table 3	Sample of students completing questionnaires according to institution,	
	semester and vignette	81
Table 4	Sample of educators completing questionnaires according to institution and semester	81
Table 5	Number of students interviewed	82
Table 6	Number of educators interviewed	82
Table 7	Summary of student responses to adjectives n=421	82
Table 8	Summary of student responses to positive and negative adjectives	82
Table 9	Summary of student responses to specific misconception items	87
Table 10	Correlation between specific misconception scores and vignettes	88
Table 11	Correlation between adjectives and vignettes	89
Table 12	Comparison of range and mean of total misconception scores between students	
	and educators	91
Table 13	Summary of educator's responses to positive and negative adjectives	91
Table 14	Ranges of total misconception scores in relation to semester and the identified social	
	component of learning about chronic pain	92
Table 15	Summary of % of students in each semester responding to each adjective	93
Table 16	Mean total misconception scores as a function of semester	94
Table 17	Analysis of Variance (ANOVA) of Total misconception scores versus semester	95
Table 18	Summary of themes in interview data	97
Table 19	Summary of comments written on questionnaire – student sample	99
Figure 1	Range of total misconception scores	84
Figure 2	Total misconception scores – educators	90
Figure 3	Mean misconception scores as a function of semester	96

#### **ABSTRACT**

This thesis explores the issue of educating student nurses about chronic pain. Chronic illness is a substantial health and disability issue across the globe. Chronic pain is a particularly prevalent chronic health experience, with estimates that between a quarter and a half of the world's population, experience some degree of chronic pain. A good deal of knowledge about the causes and treatment of various types of pain have developed in recent years. However, patients believe that their pain is not adequately treated by health professionals. The prevalence of chronic pain, concerns about the inadequate management of it, and the leading role that nurses play in assessing patients and providing treatment, make it timely to explore chronic pain in relation to nursing education.

This study focussed on exploring how student nurses think about and may respond to patients experiencing chronic pain. A number of misconceptions had previously been identified as being held by health professionals, and having the potential to detrimentally impact on their response to patients (McCaffery & Pasero, 1999). This research was designed to explore the extent to which those misconceptions about patients with chronic pain were held by student nurses during their pre-registration education. This phenomenon had not previously been researched.

The findings of the study suggest that attitudes and knowledge of student nurses about patients with chronic pain are inadequate. Further exploration of the findings suggests that the views held by student nurses are not positively addressed to any significant extent during the course of their undergraduate education. It is argued that ensuring appropriate knowledge is taught to students and linked to practice may play a substantial role in improving the practise of nurses and the experience of patients with chronic illness.