

Noble-Jones, Rhian Wyn (2016) Modelling the development of an online learning resource by health care professionals. PhD thesis

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Modelling the development of an Online Learning Resource by Health Care Professionals.

(Vol. 2 of 2)

Rhian Wyn Noble-Jones, PGC, PGD.

Thesis submitted in fulfilment of the requirements for Degree of Doctor of Philosophy in Health Science

School of Medicine
College of Medical, Veterinary and Life Sciences

University of Glasgow

March 2016

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Appendix 1: Job titles and roles.

Table A-0-1 Job titles and description proposed 2007

Title	Skills for Health Career Framework (CF) level	Examples of key components	Educational level
Lymphoedema Practitioner	5	Plans care for those with uncomplicated or stable lymphoedema. Acts as resource for colleagues.	State registered practitioner. Degree level education and clinical training in assessment and management of uncomplicated lymphoedema
Lymphoedema Specialist Practitioner	6	Manages all types of lymphoedema with a degree of autonomy. Supports and guides practitioners at CF level 4 and 5	State registered practitioner. Degree level education and clinical training as above plus certificate in complex management including Manual Lymphatic Drainage and multilayer bandaging.
Lymphoedema Advanced Practitioner	7	Experienced clinical professional empowered to make high level clinical decisions, high level of skills and theoretical knowledge. Manages and leads service developments and retains educational role. Supports practitioners at levels 5 and 6.	As above plus holds or working towards masters degree.
Lymphoedema Consultant	8	High level strategic role, clinical expert, education and teaching role.	As above plus master's degree, possibly working towards doctorate.

Adapted from: Sneddon, M. C. (2007) Roles in lymphoedema. In Template for

Management: developing a lymphoedema service, MEP Ltd, London.

Appendix 2: Ethical approval Phase 1

Ms Rhian Davies Nursing and Health Care School University of Glasgow 57-61 Oakfield Ave Glasgow G12 8LL

17th January 2011

Dear Ms Davies

Medical Faculty Ethics Committee

Project Title: Health Professionals' Education Needs Scotland: Lymphoedema

Project No.: FM02710

The Faculty Ethics Committee has reviewed your application and has agreed that there is no objection on ethical grounds to the proposed study now that the requested revisions have been incorporated. They are happy therefore to approve the project, subject to the following conditions:

- The research should be carried out only on the sites, and/or with the groups defined in the application.
- Any proposed changes in the protocol should be submitted for reassessment, except when it is necessary to change the protocol to eliminate hazard to the subjects or where the change involves only the administrative aspects of the project. The Ethics Committee should be informed of any such changes.
- If the study does not start within three years of the date of this letter, the project should be resubmitted.
- You should submit a short end of study report to the Ethics Committee within 3 months of completion.

Yours sincerely

Dr David Shaw Faculty Ethics Officer

Dr D Shaw

Lecturer in Ethics and Ethics Officer

School of Medicine, University of Glasgow, 378 Sauchiehall Street, Glasgow, G2 3JZ

Tel: 0141 211 9755

E-mail: david.shaw@glasgow.ac.uk

Other (please specify)

★ 2. At what banding are you employed in your main role?

Appendix 3: Questionnaire to Generalist HCP

Education Needs Scotland: Chronic Oedema/Lymphoedema What is this? This survey is part of a University of Glasgow project supported by NHS Education Scotland (NES) and Macmillan Cancer Support. Many health care professionals come across patients with swollen limbs, face or genitalia swelling or weeping legs in the course of their work. This survey aims to explore what education and training health care professionals in Scotland need regarding the recognition, prevention and management of lymphoedema or chronic oedema. The knowledge gained from this project will allow organisations to provide relevant education for health care professionals. It is recognised that as patients' expectations of you as health care professionals increase and funding decreases it is ever more important that you have the information you need, when you need it and in the format you prefer. Completion of the questionnaire is taken as consent for the researchers to use the data in this study. The questionnaire will take less than 10 minutes to complete. Questions marked with an asterix* are particularly important to the study so require an answer. All answers are anonymous; no e-mail or IP address are stored or harvested by the host. You have the option of voluntarily supplying your e-mail address at the end of the survey if you wish to take part in a one-off follow up focus group. Thank you for helping us. Rhian Davies University of Glasgow You can move back and forth between the pages by clicking on the "next" and "previous" buttons. Use the scroll bar at the side to scroll down to the buttons. On the last page click "done" to submit your answers; if you leave the survey before doing this your responses will not be saved/sent. Your role * 1. What is your job title/role? (If you have more than one job please indicate your main one) Breast Care Nurse Occupational Therapist Community/District Nurse Physiotherapist General Practitioner Podiatrist Health Care Assistant/Technician Practice Nurse Hospital based doctor Radiographer Hospital based nurse

N/A or GP scales

Εd	ucation Needs Scotland	d: Chronic C	Dedema/Lyn	nphoedema	177
	3. Is your work based in:				
	(please indicate all that appl	y)			
	General Practice		Out-patient unit	(s)	
	Hospice		Patients homes		
	In-patient unit(s)		Residential/Car	e homes	
	Other (please specify)				
*	4. In which area do you wor	(?			
	(If more than one please ind	cate main one)		
	Ayrshire & Arran	Grampian		Orkney	
	Borders	Greater Glasgo	v & Clyde	Shetland	
	Dumfries & Galloway	Highland		Tayside	
	Fife	Lanarkshire		Western Isles	
	Forth Valley	Lothian		<u> </u>	
			EDS III MANABI	n Stanovana – W S	
	5. What do you feel is your r	ole regarding I	ymphoedema?	,	
	(Please indicate all that appl				
	Prevention advice to those at risk of ly	nphoedema			
	Identification of possible lymphoedem	1			
	Diagnosing lymphoedema			15	
	Provision of lymphoedema manageme	nt advice			
	Pharmaceutical management				
	Prescription of compression garments				
	Application of bandages or other forms	of compression			
	Referral to other service/professional				
	Not my role				
	other (please specify)				
	Carlot (product special)				
		Separation of the separation o		**************************************	
Gu	irrent knowledge				

	Agree	Disagree	Education/information would help	Not my role			
I am confident in distinguishing lymphoedema from other	П		wood nelp				
causes of swelling I am aware of diagnostic tests that might be requested to confirm a diagnosis of							
lymphoedema If a lymphoedema patient presented with infection (cellulitis) I know where to find the latest consensus guidelines on							
management know which type of emollient would be prescribed to prevent skin problems typical of tymphoedema							
know how to refer a patient to the nearest specialist lymphoedema							
know how to access SIGN guidelines for liposuction for lymphoedema							
am aware that there is a difference between compression garments for ymphoedema and support hosiery for yascular problems							
am aware of the clinical reasons for prescribing class 2 or 3 compression parments rather than class							
Any comments on the above?		- P. C. (1970)					
ping up to date a	bout lymph	oedema					
7. Have you had any education/training on lymphoedema diagnosis and management in the last 5 years?							

Ed	lucation Needs S	cotland: Ch	ronic Oedema	/Lymphoede	ma
	8. Who provided this	s education/tra	ining?		
	(You can indicate m	ore than one if	applicable)		
	A local lymphoedema ser	rvice			
	A national/regional confe	rence			
	A manufacturer/supplier				
	Self-study with journals/lit	terature			
	Self-study with on-line ma	aterial			
	A Higher Education Institu	ution			
	Other (please specify)				
Te	ell us your needs, i	if any			
	9. To what extent do	you perceive	your education ne	eds regarding	ymphoedema are
	already met:	Not at all	Partially	Mostly	Completely
	Degree to which these needs are met:	0	0	0	0
	Any comments:				
*	10. Do you feel you		rom access to fur	ther education	on lymphoedema
*	10. Do you feel you vecognition and/or n		rom access to fur	ther education	on lymphoedema
*		nanagement?	rom access to fur	ther education	on lymphoedema
*	recognition and/or n	nanagement?	rom access to fur	ther education	on lymphoedema
*	recognition and/or n	nanagement?	rom access to fur	ther education	on lymphoedema
*	recognition and/or n	nanagement?	rom access to fur	ther education	on lymphoedema
*	recognition and/or n	nanagement?	rom access to fur	ther education	on lymphoedema
*	recognition and/or n	nanagement?	rom access to fur	ther education	on lymphoedema
*	recognition and/or n	nanagement?	rom access to fur	ther education	on lymphoedema
*	recognition and/or n	nanagement?			on lymphoedema
*	recognition and/or n	nanagement?		ther education	on lymphoedema
*	recognition and/or n	nanagement?			on lymphoedema
*	recognition and/or n	nanagement?			on lymphoedema
*	recognition and/or n Yes it would be of benefit No. It would be of no benefit	nanagement?			on lymphoedema
*	recognition and/or n	nanagement?			on lymphoedema
*	recognition and/or n Yes it would be of benefit No. It would be of no benefit	nanagement?			on lymphoedema

ication Ne	eds Scotland	l: Chronic (Oedema/Ly	ymphoede	ema	
11. In which	of the following	would educa	tion enhance	your role? (Indicate th	e 3
most import	ant)					
Advising on s	kin care to reduce risk of	cellulitis in mild/mode	erate lymphoedema			
Applying mu	ti-layer bandaging for lym	phoedema				
Assessment	of patients with chronic oe	dema/lymphoedema				
Awareness o	current lymphoedema ma	anagement technique	s			
Differential d	agnosis of lymphoedema					
Exercise pres	cription for lymphoedema	patients				
Head & neck	oedema – supporting self	management				
Identification	of patients at risk of lympi	hoedema				
Lymphoeden	a management in acute o	oncology				
Management	of oedema in advanced d	lisease				
Measuring &	itting compression garmer	nts				
Prescribing a	nd advising on intermitten	t pneumatic compres	sion pumps for lymph	oedema		
Applying sup	ortive bandaging for lymp	ohoedema in advance	ed disease			
Teaching self	massage - Simple Lymph	atic Drainage				
Wound care/l	eg ulcer care with lympho	edema patients				
Other (please speci	(y)					
ivery meth	od of informa	tion and ed	ucation			YEN
10.14/1-4	Address the state of the	4 - 4 -		- 2		
	uld be the best v se that you feel			5?		
_	ded by the local lymphoe		or accial,			
	ded by universities or colle	·				
	ded by universities or cone					
	provided by industry					
On line training						
Other (please	apecify)					
			I so a supersultant			-2110
oct finial	d	ATT TO A STATE OF				SU ST
ost finishe						
	comments?					

Education Needs Scotland: Chronic Oedema/Lymphoedema

A final request..

In order to expand on the knowledge gained from this survey we intend arranging a focus group of representatives of each participating profession. This will be held at the University of Glasgow on Thursday 12th or 19th May at 2pm until 3pm. If you are willing to give an hour of your time to attend this focus group you can enter your e-mail address below or to seperate your responses from your e-mail address please contact with your preferred date or that you could attend either date Emma.Fisher@glasgow.ac.uk Reasonable travel expenses will be paid.

14. I am willing to be contacted about attending a focus group my e mail address and preferred date is:

Thank you for participating in this project. We would like to reassure you once again that unless you have given your e mail address above, which will be used for the purposes of the focus group only, all answers are completely anonymous and no e mails or IP addresses have been given to the survey host or any other persons. If you would like further information about the project you can e mail the project lead Rhian Davies at Rhian.Davies@glasgow.ac.uk or call 0141 330 2972.

Appendix 4: Questionnaire for Specialists

Education Needs Scotland: Lymphoe	dema					
What is this?						
This survey is part of a University of Glasgow project support.	rted by NHS Education(NES) and Macmillan Cancer					
The aim of the survey is to establish the education needs of lymphoedema patients and their preferred learning method.	health care professionals in Scotland working with					
Why now? With increasing fiscal constraints and high patient expectations it is ever more important that you have the education you need, when you need it and in the format you prefer. As someone who has undertaken specific training in lymphoedema you also need the generalist health care professionals around you to have the knowledge and information they need to support you in that role.						
The questionnaire firstly asks you about your own continuing perception of the education needs of generalist health care being issued to GPs, District Nurses and Allied Health Profe	professionals. A separate questionnaire is concurrently					
In order to give you opportunity to fully express your views of minutes but we would welcome as much information as pos next 10 days. All answers are anonymous; no e-mail or IP a persons. The researchers will only have your e-mail if, at the contacted to be part of a one-off follow up focus group.	sible. You can complete the survey any time over the addresses will be passed on the survey host or any other					
The knowledge gained from this project will inform the devel anticipated that it will improve the care and support of patier taken as consent for researchers to use the data.						
Thank you for participating, Rhian Davies University of Glasgow						
You can move back & forth between pages by clicking on the side to scroll down to the buttons. On the last page click "do saved or submitted until you have done this.	•					
Your role						
* 1. Which of these best describes your job t	title/role?					
Lymphoedema Key-worker	Oncology/Palllative Care Nurse					
Lymphoedema Practitioner	Oncology/Palliative Care Occupational Therapist					
Uymphoedema Specialist	Oncology/Palliative Care Physiotherapist					
Lymphoedema Advanced Practitioner	Radiographer					
Breast Care Nurse	Octor/Surgeon					
Community/District Nurse						
Other (please specify)						

Education	on Needs Scotlan	d: Lymphoe	dema	
				mphoedema patients
beyo	nd the role expected o	f a generalist?		
CLE	ess than 1 year		4-9 years	
O 1	- 3 years		Over 10 years	
	w much of your work t ge month:	ime is taken up	with your lymphoe	edema role over an
O 80	- 100%	40 - 59%	0	less than 20%
O 60) – 79%	20 - 39%		
4. Is t	his protected time for	lymphoedema?		
○ Ye	26			
○ Pa	artially protected			
○ No				
	_	_	_	_
_	our work based in:			
(indic	ate all that apply)			
OI	ut-patient unit(s)		Patients homes	
In-	-patient unit(s)		Residential Care	
Ho	pepice		General Practice	
Ot	ther (please specify)			
6. Are	you part of a team?			
○ No	o, sole practitioner/lone working			
○ Ye	es, part of a team but I'm the only p	erson with lymphoedema	remit	
○ Ye	es, part of a team, some/all of whon	n have a lymphoedema r	emit	
Other (p	olease specify)			
		_		

Education Needs 9	Scotland: Lymphoedema	
* 7. How would you o	lescribe your geographical area (of work?
Large urban city/town of	>125,000 people	
Urban town of 10,000 -1	25,000	
Small town of 3,000 -9,9	999	
Rural settlements < 3,00	00 but within 30 mins of a town of >10,000	
Remote rural (over 30 m	ins drive to a town of over 10,000)	
	. ,	
Your education in L	ymphoedema Management	
* 8. Please select the	best description of your lympho	edema training/education
	source for each level of training)	out in a mingroud out on
(mandato tiro mani s	Initial training/management of uncomplicated	Advanced training/managment of complex
	lymphoedema	lymphoedema
Accredited course through a higher education institution (HEI)		
Accredited course through	П	П
another establishment Unaccredited CPD courses		
at an HEI	Ш	Ш
Unaccredited CPD course through another		
establishment Experiential learning in		
your Job	Ш	Ш
Other (please specify)		
	iin teaching method used (indicat	e the closest description for
each level):		
	Initial training/management of uncomplicated lymphoedema	Advanced training/management of complex lymphoedema
Entirely face to face classroom/workshop	утриссена	lymphoedema
teaching Mixture of face to face		
classroom/workshop and some distance learning		
Entirely distance learning	П	
Workplace learning with	H	H
an expert/mentor Workplace learning self-		
directed		
Not applicable		
Other (please specify)		
Identifying your cor	ntinuing education needs	

	Scotland:	Lymphoede	ema		
* 10. How do you i	dentify your ly	/mphoedema	education nee	ds?	
(indicate all that a					
Professional Develo	pment meeting with m	anager			
Critical Incident/ diffi	cult case review				
Personal reflection					
Personal Interest/cur	iosity				
Peer pressure					
Service benchmarkin	ng				
Other (please specify	n				
* 11. To what exter	nt do you perd	eive your edu	cational needs	s are met:	
	Completely	Mostly		artially	Not at all
My education needs are met:	0	0		0	0
Accessing Contin	ual Professi	onal Educati	ion (CPD)		
* 12. Have you par			ducation withi	in the last 2	years for your
own professiona	l developmen	t?			
Yes					
○ No					
13. What factors		est significant	in enabling/mo	otivating you	ır recent
13. What factors lymphoedema ed	lucation?			otivating you	ır recent
		ost significant A moderate enabler/motivator	in enabling/mo Not an enabler/motivator	otivating you	JF recent Not applicable
	ducation? A significant	A moderate	Not an		
Adequate study leave	ducation? A significant	A moderate	Not an		
lymphoedema ed	ducation? A significant	A moderate	Not an		
Adequate study leave Funding for course fees Funding of travel	ducation? A significant	A moderate	Not an		
Adequate study leave Funding for course fees Funding of travel expenses	ducation? A significant	A moderate	Not an		
Adequate study leave Funding for course fees Funding of travel expenses Support of manager Need of qualifications for	ducation? A significant	A moderate	Not an		
Adequate study leave Funding for course fees Funding of travel expenses Support of manager Need of qualifications for role	ducation? A significant	A moderate	Not an		
Adequate study leave Funding for course fees Funding of travel expenses Support of manager Need of qualifications for role Other personal reasons	ducation? A significant	A moderate	Not an		
Adequate study leave Funding for course fees Funding of travel expenses Support of manager Need of qualifications for role Other personal reasons	ducation? A significant	A moderate	Not an		
Adequate study leave Funding for course fees Funding of travel expenses Support of manager Need of qualifications for role Other personal reasons	ducation? A significant	A moderate	Not an		

ucation Need	s Scotland	: Lympho	edema			
14. What was th				ohoedema o	ourse you	attended?
	Employer	Grant/Scholarship	External	Self-funded	Other	Not applicable
Course Fee			source/charity			
Travel		Ħ	H	H		H
15. What percen	tage(%) of th	e course tim	e was give	n as study	leave? (en	ter a
number betwee				,	•	
nat are your cu	irrent lymp	hoedema e	ducation	needs?		
16. Choosing Ol	NI V IIP TO 3	euhiacte wh	nich do vou	ı fool will be	a priority	need for
updating/further		-	_			need for
_	siotaping for lympho	•		,		
Application of Man	ual Lymphatic Drain	age techniques				
	rential diagnosis of o		anostic tools in iv	vmphoedema		
Exercise prescription	_		,			
	in lymphoedema ma	nanement				
	nagement in acute o					
	vice management &					
	_		Advanced Chin	120)		
	nphoedema related d	-	Advanced Skill (alej		
	dema in advanced d					
	for alternative forms	•				
	of made to measure		nts			
	ymphoedema studie	i				
Supporting self-ma	_					
Supporting patients	s undergoing liposuo	tion for lymphoeden	na			
	ymphatic Drainage n	-				
Teaching skills & m	ethods of supporting	other health care pr	rofessionals			
The safe use of La	ser with lymphoedem	a patients				
The management	of genital oedema					
The management of	of Head & neck oede	ma				
Use of Intermittent	pneumatic compress	ion pumps for lymp	hoedema manag	ement		
Wound and ulcer c	are in lymphoedema	patients				
Other (please specify)						

chnology in lymphoedema education 417. Do you think that greater use of technology would enhance lymphoedema							
education?							
○ Yes							
Unsure							
18. Please state wh	ether the f	ollowing techno	logy would	encourage or di	scourage		
you from taking a ly	ymphoede	ma related cours	se?				
Self-assessment tests on	Encourage	Mildly encourage	No effect	Mildly discourage	Discourage		
line with suggested reading		0		0			
Web-based guided reading with submitted work to accrediting	0	0	0	0	0		
organisation Case scenarios and	0	0	0	0	0		
problem solving on line Live on-line support from	0	Õ	0	Õ	Õ		
tutor at set times On-line discussion groups	Ô	0	0	0	0		
with other course students Downloadable Podcasts of	0	0	0	0	0		
lectures/expert talks DVD film sequences of	0	0	0	0	0		
expert master- classes/techniques	0	0	0	0	0		
CD/DVD of modular learning with self assessment	0	0	0	0	0		
CD/DVD of modular learning with submission of work to accrediting organisation	0	0	0	0	0		
Telehealth master-dasses	\circ	0	0	0	0		
Any other technology we should consider? (please specify)							
eeting your future needs							
19. How do you perceive your lymphoedema educational needs should be met in the longer term? (Please write in the box below).							
	^						

The education needs of generalist health care professionals

In the following questions we ask your opinion of the educational needs of the generalist health care professionals (HCPs); professionals who only occasionally come in to contact with lymphoedema patients or patients at risk of

Education Needs Scotland: Lymphoedema
lymphoedema.
Due to the rapid and sometimes significant changes that have happened in health care in recent years we ask you base your replies on the last 12 months only. It may be useful to reflect on any delays in referral to your service, the type of information you receive with referrals, the queries or problems of HCPs on transfer of patient care from your service and your teaching and support experiences.
☀ 20. In your opinion do generalist Health Care Professionals have an unmet education
need regarding lymphoedema, based on your experiences over the last 12 months?
Yes
○ No
Unsure
What how has done advertise do other health save professionals would
What lymphoedema education do other health care professionals need?
Only a few more questions to go

Education Nee	ducation Needs Scotland: Lymphoedema											
_	21. Indicating up to a maximum of 3 subjects per professional, in your opinion what are the PRIORITIES in lymphoedema education for other health care professionals, if											
any.				aoma oaao				ui oui o	, pro-		iaio,	
Leave the colu		lank if	you	feel that pro	fessi	on ha	s no sig	nifican	t lym	phoed	lema	
education nee												
Similarly leave				nk if you fe		•						
	Breast Care	ommunity	GPs	Health Care	Hospita	Hospital	Occupationa	Physio-	Podlatrist	Practice	Radio-	Other
Address on the constitution	Nurses	Nurses	As	sistants/Technician	s Nurses	Doctors	Therapists	tnerapists		Nuises	grapher	· —
Advising on skin care to reduce risk of cellulitis in mild/moderate	, Ш	Ш	Ш		Ш	Ш	Ш	Ш	Ш	Ш	Ш	Ш
lymphoedema Applying multi-layer bandaging for												
lymphoedema Assessment of patients with chronic												
oedema/lymphoedema Awareness of current lymphoedema management												
techniques												
Differential diagnosis of lymphoedema												
Exercise prescription for lymphoedema												
patients Head & neck oedema - supporting self												
management Identification of patients at risk of												
lymphoedema Lymphoedema management in acute												
oncology Management of oedema in advanced												
disease Measuring & fitting for												
compression garments	Ш	Ш	Ш		Ш	Ш	Ш	Ш	Ш	Ш	Ш	Ш
Prescribing and advising on intermittent pneumatic compression pumps for												
lymphoedema Applying supportive bandaging for lymphoedema in												
advanced disease Teaching self massage - Simple Lymphatic												
Drainage Wound care/leg ulcer care with lymphoedema patients												

Education Needs Scotland: Lymphoedema							
Other (please specify or explain further if necessary)							
Delivering education to other health care professionals							
* 22. What would be an appropriate means of delivering education to other health care professionals? (indicate all that apply)							
Training provided by the local lymphoedema practitioner							
Courses provided by universities or colleges							
Courses provided in health care setting							
Group training provided by industry							
On line training packages							
Other (please specify)							
<u>▼</u>							
23. If you provide education to other health care professionals what additional education resources would help you? (Please answer in the box below, it will grow as you write).							
(Freder district in the Box Bolon, it will grow do you write).							
~							
Anything else you would like to say?							
24. Any other comments? (Please write in the box below)							
~							
A final request							
In order to expand on the knowledge gained from this survey we intend arranging a one-off focus group of representatives from each participating profession. This will be held at the University of Glasgow on Thursday 12th or 19th May at 2pm until 3pm. If you are willing to attend this focus group you can supply your e-mail below and preferred date or to ensure your responses are completely seperate from your e-mail address you can contact us directly at Emma.Fisher@glasgow.ac.uk Reasonable travel expenses will be paid.							
25. If you are willing to be contacted to attend a one-off focus group please supply your e mail address here with preferred date or e mail us directly as above:							

Education Needs Scotland: Lymphoedema

Thank you for participating in this project. If you would like further information about the project you can e-mail the project lead Rhian Davies at Rhian.Davies@glasgow.ac.uk or call 0141 330 2972. Press the "done" button to submit your answers, thank you.

Appendix 5: Template for Focus Group interviews

In the second se							
Opener	Welcome, ensure forms signed, explanation of process including recording of session and continued anonymity of transcription. Expense forms. Confirm finish time.						
	Definition for the purposes of today: "Lymphoedema will include non- specific <u>chronic oedema</u> that has been present for more than 3 months".						
	As introductions can you tell us your First name (or other if distinctive), Profession and briefly the type of lymphoedema/chronic oedema patient you might see in your role?						
	Are they cancer and non-cancer-related?						
Introductory	On the whole how are patients with lymphoedema identified in your work?						
Transition	What leads you to conclude they have lymphoedema?						
Patient care theme	What do you find most rewarding about dealing with lymphoedema patients?						
	What kinds of things frustrate or make dealing with lymphoedema patients difficult?						
	 Mobility/place of care issues 						
	Lack of services						
	 Role for technology, suggestion of type 						
	What support systems exist to help you care for your patient?						
	To what extent does this meet your needs? How could it be better?						
	Is there a role for teleconferencing (telehealth) in supporting your role with this group of patients? What would this add to care? Are you currently using it?						
	How prepared do you feel to care for lymphoedema patients?						
	 To deal with sustained/long term care 						
	 Expectation of being able to make a difference 						
	 Patient expectations of outcome realistic 						
Education theme	Thinking about your background to caring for Lymphoedema patients. Was lymphoedema included in your pre-registration training?						
	Is there a right time to introduce it?						
	Have you had any specific training in lymphoedema?						
	If industry what type? Valuable? Sufficient?						

undergraduate/post graduate -

How might you best be further supported in learning?

For your profession/location where does lymphoedema information need to be for access 'as and when' needed?

- In existing systems
- Leaflets, posters, booklets
- On-line, intranet, other national websites which ones? (E.g. GP intranet portal, Macmillan Learnzone, BLS, LNS)

What do you see as the role of Universities/colleges?

A high percentage of respondents wanted education provided by the local lymphoedema practitioner but they are limited in number. What would your suggestions be to make this feasible for your profession?

- Content priorities
- Practical/theory balance what would make you feel competent at assessment and diagnosis or practical skills
- Location free up time to attend or L practitioner to attend
- Supporting learning with technology what's practical/works

Many respondents wanted greater awareness of latest management techniques in lymphoedema....meaning what?

- what goes on in a specialist clinic (to support patient)
- the latest thing that can be implemented in your workplace
- the latest research and technology (interest)

Early identification of patients with lymphoedema tends to lead to better outcomes in preventing symptoms and long term effects. How would you suggest that recognition of those 'at risk' of lymphoedema heightened?

- Location specific issues?
- Pathways/protocols
- Conflict of opinion in areas where risk is played down

Ending question

The aim of the study is investigation of the education needs of health care professionals in Scotland regarding lymphoedema and how these might best be met. Have we left anything out?

What have been the key messages from this meeting would you say?

APPENDIX 6: Example post-focus group debriefing and initial analysis

Note-takers' immediate impression - summary of education needs:

The main thing that came across strongly that there was a feeling of inequality/disparity of access to services for patients and that this in turn affected the learning needs of the health care professional.

There was a need for education but due to generalists only seeing a few/occasionally they get de-skilled even if given the opportunity to learn.

Resources for services, education & research is a major issue and that inappropriate care (hospitalisation) was wasting resources.

A suggestion that it was the budget holders that needed the education!

A need for greater communication and networking to use the specialist knowledge that does exist.

Recognition of the need, by having SIGN guidelines is important which would require more resources for research.

That the solution to the need is multimodal involving specialist clinics, Universities, generalists, industry & greater use of technology.

Moderator and note takers' debriefing. (taken from Krueger 1997 book 6)

What were the most important themes or ideas discussed?
How did these differ from what was expected?
Were there any unexpected or unanticipated findings?
What points need to be included in the report?
What quotes should be remembered and possibly included in the report?
Should we do anything different in the next focus group?

Group was strong on need for research and need for SIGN guidelines to maximise impact on patient care and QOL and highlight lymphoedema in its own right.

Clear differences of available services for cancer & non-cancer related lymphoedema.

Exposure of generalists to lymphoedema is occasional – not frequent enough to be upskilled/maintain skills.

Need more than just access to knowledge, need practical skills and access to mentors.

Comfortable sourcing information from internet.

Need to educate others than registered HCPs too, like carers and HCSW.

There is a hierarchy of knowledge/skills required depending on role and access to specialist support.

Frustrations at patients not taking responsibility e.g. morbidly obese, returning mobility and leaky legs.

Need risk assessment and prevention message to patients and carers.

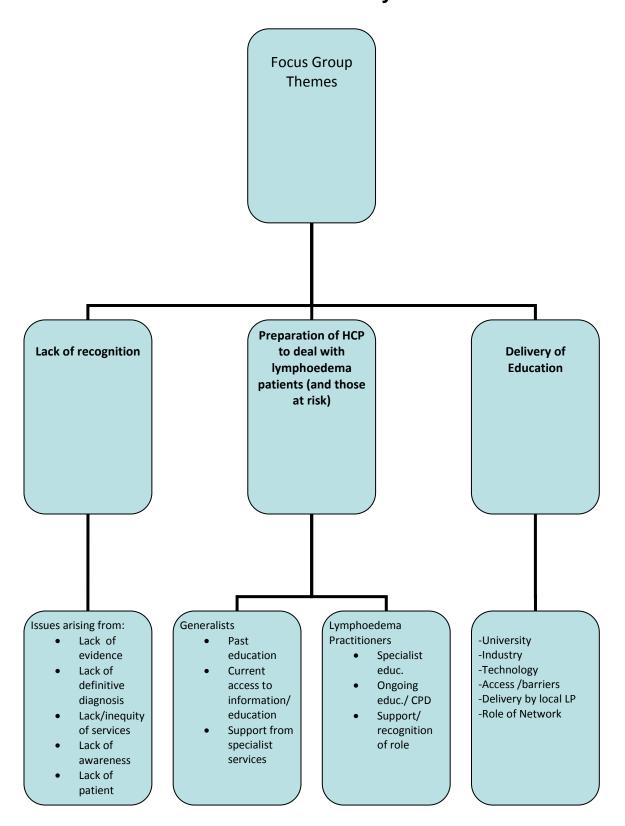
Need a systematic assessment tool for generalists to identify it or those at risk.

Research into cost of stay in hospital for lymphoedema undertreatment/mismanagement.

Policy makers need to understand implications of disparity in services.

Facilitator AON and researcher RD 19.5.11: 15.30hrs

APPENDIX 7: Initial framework analysis themes Phase 1



Appendix 8: Recommendations from Phase 1

As reported in Davies (2012)

- A. Lymphoedema specialists should continue to be supported by their managers in maintaining their specialist skills and knowledge by attending relevant HEI and CPD courses.
- B. Succession planning should be incorporated into job plans to ensure continuity of service.
- C. An expert group should be reconvened to produce a robust evidence-based clinical guideline for the care and management of patients with lymphoedema aiming for acceptance as a SIGN guideline
- D. Recognition of lymphoedema and its contemporary management should be included in all pre-registration/undergraduate HCP education
- E. Continuing education for all generalist HCPs should include the topics of current management in lymphoedema, skin care to prevent cellulitis, identifying those at risk and information on accessing specialist services.
- F. Further research is recommended to identify educational needs in relation to lymphoedema of practice nurses, social care providers and unpaid carers.
- G. Specialist Lymphoedema Education and CPD should continue to be available through HEI and accessible to qualified health care professionals working with this patient group.
- H. A national network of lymphoedema specialists should be created based around a core website for communication and sharing of resources.
- The specialists' role in supporting, acting as resource and educating at a local level should be explicit in job descriptions and job plans allowing time to implement structured training plans.

- J. HCPs should have dedicated time to attend in-service training provided by local lymphoedema practitioners based on local need.
- K. Generalist HCPs should have access to information on current best practice of lymphoedema through NHS and GP intranet systems including a link to national cellulitis guidelines, information about the referral criteria of specialist services and patient sources of support and information.
- L. Awareness should be raised of the online resource on Chronic Oedema/Lymphoedema (differential diagnosis and current management) through BMJ learning http://learning.bmj.com/learning/moduleintro/lymphoedema-.html?moduleId=10029385.
- M. Consideration should be given to the creating systems for local generalist HCP to have virtual consultations with a lymphoedema specialist,
- N. Scottish Health Boards should use the opportunity to work with the Macmillan Lymphoedema Project Manager to review the current model of service provision with a view to providing access to high quality care to patients regardless of underlying cause.
- O. Community Health Care Partnerships should consider providing access to a lymphoedema specialist as a source of advice for all community-based generalist HCPs.

Appendix 9: Ethical approval and Clinical Governance Phase 2

27th February 2013

Rhian Davies Nursing and Health Care University of Glasgow 59/406 Oakfield Ave Glasgow G12 8LL

Dear Rhian Davies

MVLS College Ethics Committee

Project Title: Developing a model for producing an educational resource for health care professionals: an exploration of the processes involved.

Project No: 200120009

The College Ethics Committee has reviewed your application and has agreed that there is no objection on ethical grounds to the proposed study. It is happy therefore to approve the project, subject to the following conditions:

- The research should be carried out only on the sites, and/or with the groups defined in the application.
- Any proposed changes in the protocol should be submitted for reassessment, except when it is necessary to change the protocol to eliminate hazard to the subjects or where the change involves only the administrative aspects of the project. The Ethics Committee should be informed of any such changes.
- If the study does not start within three years of the date of this letter, the project should be resubmitted.
- You should submit a short end of study report to the Ethics Committee within 3 months of completion.

Yours sincerely

Professor William Martin College Ethics Officer

well Must

Appendix 9 (continued) R&D opinion (by e-mails)

From: Dr Erica Packard, [mail to:] Academic Research Co-ordinator, NHS Greater Glasgow and Clyde, Research and Development Central Office, The Tennent Institute, 1st Floor, Western Infirmary General, 38 Church Street, Glasgow, G11 6NT. Tel: 0141 232 9448

Sent: 07 March 2013 09:13

Dear Rhian,

best wishes

Based on review of the GU ethics form provided this study appears to be service development rather than research. You do not require R&D review/approval.

Erica

From: Dr Judith Godden [mailto:] Manager/Scientific Officer, West of Scotland Research Ethics Service, Tennent Institute, Western Infirmary, Glasgow G11 6NT. Tel: 0141 211 2126

Sent: 07 March 2013 11:48

To: Rhian Davies

Subject: RE: advice re ethics level required

Dear Rhian

Thank you for sending me your study for comment. The study does not require to be reviewed by an NHS research ethics committee as it does not fall under our remit as described in GAfREC 2011. You should check independently with the R&D Department for one of the Health Boards to see if they require a level of management approval. If R&D approval is required then they will help you with a central approval through NRS.

Kind regards

Judith

Appendix 9(continued) Clinical Governance Registration

Health Board	Clinical Governance Registration Contact	Reg form requested	Reg form or e-mail back from them	Reg form completed (where supplied) and requested supporting docs sent	Date confirmation rec'd that project registered
Glasgow	contact details removed	J	J	J	16.04.13
Forth Valley	contact details removed	J	ſ	ſ	24.04.13
Ayrshire	contact details removed	J	J	J	26.04.13
Borders	contact details removed	J	J	J	24.04.13
Dumfries	contact details removed	J	J	J	15.04.13
Fife	contact details removed	J	J	J	16.04.13
Grampian	contact details removed	ſ	J	J	24.05.13
Highland	contact details removed Repreduce 06.0			nt 18.06.15 for copy of ginal registration.	Registration re- confirmed 22.06.15
Lothian	contact details removed	J	J	J	15.04.13
Lanarkshire	contact details removed	J	J	J	06.05.13
Orkney	contact details removed	J	J	J	15.04.13
Shetland	contact details removed	J		(no participants)	-
Tayside	contact details removed	J		J	19.04.13
Western Isles	contact details removed	I		ſ	15.04.13

Appendix 10: Table of Phase 2 outset literature

Reference	Aim	Method	Funding	Outcome	Relevance
Street et al 2007	Improve existing web- based information resource in palliative care (in Australia) for health professionals and carers	Action-research inspired study. Survey of needs (n=166). Content developed by working parties of academic and research nursing, clinical and management staff. Cycles of feedback from end-users and experts. Resource actually built by external IT experts.	Government funded (Victoria, Australia). Overall cost of the project in 2007 declared A\$ 184,872	New website produced. Study compared results of pre- to post-development online evaluation - evaluated well for content 82% c.f. 65%; but process time consuming and costly. It needed extra funding to ensure	Study provides useful insight into a) some of the difficulties of iterative study designs in terms of knowing what data are going to be of significance later in the study; b) the costs in terms of volunteer time and administrative time due to the vast amount of data produced; c) that web-design issues that can remain even with the combination of expert IT

Reference	Aim	Method	Funding	Outcome	Relevance
				sustainability.	and user input.
Gresty et al	To explore	Action research. Survey	Teaching Fellowship	Early stage	The iterative cycles of
2007	the	of need (demand) for	Funding, amount not	evaluation stage	work expected in action
	development	resource to nurses and	declared.	of an online	research appear to be
	of an online	mid-wives (n=93).		learning resource	predominantly in relation
	resource to	Website content		only reported.	to evaluation against
	support	developed by research		However high	literature and initial
	genetics	team (unclear but seem		usage recorded	survey. The participative
	health	to be academics rather		electronically in	input of practicing
	education.	than clinicians) but		2006.	clinicians to the website
		clinicians encouraged to			content is unclear. This
		be contribute. Evaluated			study links website design
		in practice by student			to pedagogic theory for e-
		nurses and open access			learning often missing in
		with electronic feedback.			learning website design
					literature.
Archambault	Scoping	Protocol for scoping	a Canadian Institutes	Findings	Awareness of this large

Reference	Aim	Method	Funding	Outcome	Relevance
et al 2012	review of the	review. Map literature,	for Health Research	published Oct	review at the start of
(N.B. the	evidence of	compare features,	Knowledge Synthesis	2013 (7 months	Phase 2 confirmed the
final report	the impact of	describe evidence of	Grant (FRN 116632); a	after the start of	lack of collated evidence
was taken	collaborative	effect, inventory the	Fonds de recherche du	Phase 2 of this	around collaborative
into account	writing	facilitators and barriers	Québec—Santé career	study).	online resource
mid-study	applications	to use, produce action	scientist award	http://www.ncbi	development in health
when	as Knowledge	plan and research	(24856); a Fonds de	.nlm.nih.gov/pmc	care and, when the final
published in	Translation	agenda.	Recherche du	/articles/PMC392	report was published (at
2013)	(KT) tools in		Québec-Santé,	9050/?report=pri	the end of our 2 nd cycle)
	the health		Establishment of young	ntable	it informed our ongoing
	care sector		researchers—Juniors 1		work from SLPN3.
	and factors		Grant (24856); and a		
	that affect		research grant from		
	their use.		the Centre de santé et		
			services sociaux		
			Alphonse-Desjardins		
			(CHAU de Lévis).		
Byington	To describe	This is not a research	No funding.	Recommends	The particular format of

Reference	Aim	Method	Funding	Outcome	Relevance
2011	the set up of	study but a practical		blogs to increase	the OLR was to be
	an online CoP	guide based on a review		collaboration to	discussed at the start of
	using blogs.	of the literature		support and	Phase 2 (e.g. standard
		pertaining to the use of		increase teacher	website, blog, wiki) so
		blogs for support and		learning. A hybrid	this paper informed that
		learning within CoP.		CoP (virtual and	discussion. In addition, it
				face-to-face)	gave an indication of
				requiring core	some of the elements
				elements of	which may emerge as
				leadership, topic	components of the model
				relevance and	of the process of OLR
				supportive	development.
				organizational	
				environments.	
Welsh and	To develop	Team included nurses,	Claim no specific	43% response rate	Despite the involvement
Houston 2010	and evaluate	clinical and technical	direct (additional)	(n=496), mean	of nurses in the
	a nursing	staff (IT dept.). 4 stages:	costs as team members	score for	development team this
	portal in one	design and layout,	participated within	usefulness and	paper was an example of

Reference	Aim	Method	Funding	Outcome	Relevance
	USA medical	content development,	existing working hours.	ease of use were	a top down, single
	centre.	technical development,	In addition, staff	both 4.65 on a	organisation approach.
		staff education. Purpose	required training to	scale of 1 - 7	Portal not exclusively a
		of portal - general	use the portal.	where 7 =	learning resource, but a
		communication, clinical		strongly agree.	communication tool.
		resource information,		Number of hits	Costs claimed to be nil
		patient information.		and number of	yet there were multiple
		Actual technical built		different users	examples of additional
		done by IT technologists,		were also	work e.g. the informatics
		no mention of		counted. Mainly	nurses providing
		development cycles,		used to access	additional training,
		waterfall approach. Build		patient	therefore opportunity
		period 2004-2006.		information.	costs are implied. Helped
		Technology Acceptance			distinguish different
		Model used to evaluate			purpose.
		usefulness of portal			
		through 2007 with online			
		survey. Essentially a			

Reference	Aim	Method	Funding	Outcome	Relevance
		product evaluation.			
Ruiz et al 2007	To develop an e-learning package to enhance geriatric education (USA)	An evaluation framework was described as being in development on the basis of a lack of evidence for one particular evaluation method. Peer review, expert opinion and evaluation theory being the basis.	Voluntary consortium with many voluntary meetings and collaborations but financial disclosure record the support of Stein Gerontological Institute and the State of Florida Agency for Health Care Administration (Florida's Teaching Nursing Home Program).	Website and digital repositories created to support geriatricians teaching other HCP and for HCP to access directly due to lack of specialist geriatricians.	This consortium project was in response to an increasing demand for education on geriatrics as a specialist subject of concern to generalist HCP. A lack of suitably experienced/qualified specialists making the provision of e-learning a useful alternative to previous education delivery. As such this represented a (largely) voluntary collaborative development of OLR but effectiveness had yet to
					chectiveness had yet to

Reference	Aim	Method	Funding	Outcome	Relevance
					be evaluated.
Behl et al	Evaluation of	1 year evaluation.	Unclear. Launched by	A free online	Learning communities are
2012	the creation	Qualitative and	The National Center	Practical Guide	an alternative to CoPs or
	of a Learning	quantitative data through	for Hearing Assessment	with multiple	networks, but products
	Community	2 surveys of participants	and Management at	tools. Learning	such as resources are not
	to develop a	(administrators and	Utah State University.	reported as	always produced as in this
	resource on	clinicians n=19).	Each (6) participating	regarding state	Behl et al study. Points to
	Telehealth in		areas committed to	policies,	take are the significant
	Hard of		financial resources to	evaluation	time and effort for busy
	Hearing		sustain/expand	methods and	clinicians, the issues
	services		program for 1 year, a	tele-practice.	around sustainability, the
	(USA)		practitioner and a	Evaluation of	financial investment and
			technical support	Learning	technical support and the
			person)	Community as	crucial role of the
				process.	facilitator and sharing
					responsibility for
					leadership and feedback
					to the larger group.

Reference	Aim	Method	Funding	Outcome	Relevance
					Quasi-experimental design with qualitative data considered appropriate.
Seddon and Postlethwait e 2007	Creation of a model of reflection for collaborative construction of knowledge	Participatory action research. In steps, group agreement of research question, create prototype model from literature review, feedback on trials of prototype, review on an intermediate tool, and review of final version. Data drawn from observation of online	Unclear. Authors' organisations UK National College for School Leadership (NCSL) and University of Exeter.	A model of reflection and facilitation of reflection to create knowledge within an online community is developed and tested. The model was developed with heads of schools	The process of constructing a model from a theoretical basis and refining it through cyclical online review was informative, as was the means of gaining data in this environment. The model itself is of the cognitive process of knowledge construction rather than the overall
		dialogues focused online discussion and face-to-		and as such the users would be	process of OLR construction. It could be

Reference	Aim	Method	Funding	Outcome	Relevance
		face interviews.		expected to have	used within our process as
				a high level of	a tool for critical
				understanding	reflection on content but
				and ability in	as an additional learning
				making explicit	requirement. Reflective
				some of the	logs more familiar to our
				answers required	participants may be
				in the model.	useful however.
Jakubik M	Create a	Action research,	Unclear, but study	KM could learn	Consideration of how
2008	model of	participative inquiry.	held with 2 large	from looking at	knowledge is considered
	knowledge	Value mapping	business organisations.	the human	in KM (e.g. Nonaka)
	creation in a			interaction side	rather than traditional
	СоР			of knowledge	learning theories and the
				creation rather	concept of knowledge as
				than being	commodity/asset in
				dominated by	relation to contemporary
				non-human	asset based management
				process focus of	in health care.

Reference	Aim	Method	Funding	Outcome	Relevance
				IS literature	
Younger 2010	Collate evidence of the online information seeking behaviours of doctors and nurses.	Review of evidence 1995-2009 in PubMed, CINAHL, Embase (Ovid), LISA, LISTA. Search terms given and findings charted.	Not specified.	Doctors and nurses preferred to ask colleagues first. Their searching behaviours are not significantly different but idealised academic model of searching less likely in community and geographically remote settings.	The preference for easy access, quick information from colleagues or public search engines reflective of discussion in Phase 1 focus group. The preference of asking a colleague may be historic or reflect lack of ease of access to the internet. Different terms used for information seeking useful.
Perzeski 2012	Information	Survey of alumni of Ohio	None reported.	Responses n=143	Quick search engine

Reference	Aim	Method	Funding	Outcome	Relevance
	seeking	College of Podiatric		Sample size not	search may have replaced
	behaviour of	Medicine		achieved.	asking a colleague in real
	Podiatric				world clinical settings.
	Physicians				
	(USA)				
Harland and	To discover	Online survey through	Not declared.	93% (n=774)	Notwithstanding
Drew 2013	UK	recognised channels for		completion rate.	reservation about some of
	Physiotherapi	registered		Distribution	the assumptions made in
	sts use online	physiotherapists in UK		broadly	the conclusion of this
	resources for	conducted using		representative.	study there are some
	CPD	SurveyMonkey in 2011.		Most commonly	useful inferences that can
				used source was	be made. Despite the
				Google (567/774,	availability of focussed
				73%). Most	medial search data bases,
				commonly	physiotherapists are
				searching for	predominantly accessing
				evidence based	more public sources such
				guidelines.	as through Google. OLR

Reference	Aim	Method	Funding	Outcome	Relevance
				(685/774, 89%).	which can raise
				Being unsure of	awareness of the
				robustness	relevancy of their skills
				significantly	and increase their
				frustrating	knowledge therefore
				(298/744, 39%).	needs to be easily found
				Less that half had	through Google and sillier
				heard of	tools.
				NHSEvidence	
				(47%) and fewer	
				still had used it	
				(35%).	
Farrimond et	Development	Developed in academic	Curriculum Innovation	A CAL package	The process of learning
al 2006	and	context (medical school	Fund, University of	was developed	resource development
	evaluation of	in Manchester, UK).	Manchester.	which was	using clinical-educators
	a computer	Action research by 5		positively	and students through the
	assisted	teachers (clinical		evaluated for	iterative method of
	learning CAL	educators) and 13		usability but non-	action research produced

Reference	Aim	Method	Funding	Outcome	Relevance
	package for	students. Cycles included		stakeholder	a resource with good
	medical	defining requirements		experts remained	fidelity to the
	students for	from literature and		sceptical as to	requirements identified.
	dermatology	student survey, creation		the learning of	The lack of engagement
		of prototype by		practical skill	of non-stakeholders in the
		storyboarding then		achieved through	finished product could
		electronic draft, sent out		this medium.	threaten the
		for expert review, then		Further	sustainability or increased
		further development and		evaluation was	use in practice, however
		evaluation for usability,		ongoing and	further positive
		likability and perceived		further research	evaluation may address
		value as an instructional		into the learning	this. The use of talk out
		tool. Think aloud		achieved was	loud for OLR evaluation is
		techniques and timed		recommended.	worthy of consideration.
		cases used as well as end			
		of task questionnaire and			
		researcher observer			
		questioning.			

Reference	Aim	Method	Funding	Outcome	Relevance
Carroll et al 2009	To add to CPD evidence regarding online learning of HCP	A systematic review of qualitative data from studies reporting health professionals' experience of e-learning in HEA-based stand-alone CPD	Commissioned by the UK Higher Education Academy (HEA).	Concludes a number of recommendations for on-line courses to include	The tutor:student interaction not relevant, assessment may be in later phases but use of film/media to increase interest and applicability
		courses. Ranging from 1992. Process and criteria for inclusion and exclusion clear. 19 papers finally included.		assessment, discussion forums and interactive content.	to users' work important. Experience is better if social. Forum for peer discussion (not so much for doctors) and allowing for 'lurking' (passive learning). Search-ability important (search box).

Appendix 11: Example OLR analytics

Figure A11-0-1 Example of analytics of OLR

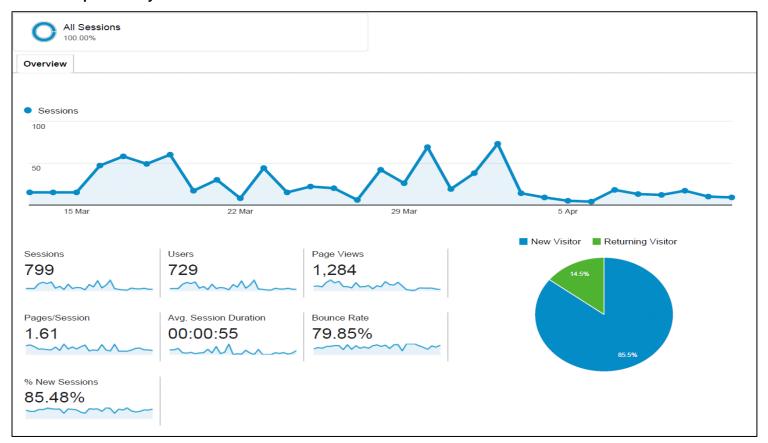
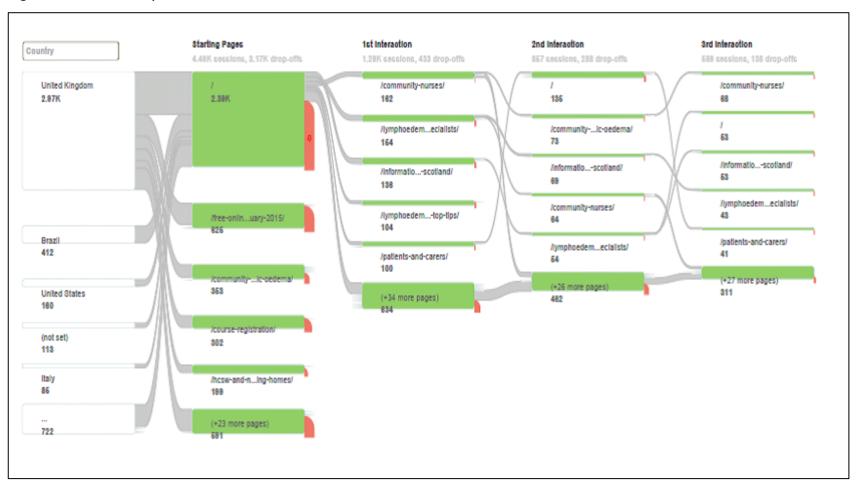


Figure A11-0-2 Example of visitor flow to OLR



Appendix 12: Subgroup Participant Information

Study: Developing a model for producing an educational resource for health care professionals: an exploration of the processes involved.

Researcher: Rhian Davies tel: XXXXX e-mail: XXXXXXXXXXXXXXX

You are being invited to take part in the above research study. Before you decide, it is important for you to understand why the research is being done and what it will involve. Please take the time to read the following information carefully and discuss it with others if you wish. Please ask if there is anything that is not clear or if you would like more information. Take time to decide whether or not you wish to take part. Thank you for reading this.

What is the purpose of the research?

The aim of this phase of the study is to explore whether existing expertise and infrastructures can be utilised to develop a model for producing an education resource to meet the identified education need. The researcher seeks to work in partnership with SLPN to evaluate the feasibility of developing and implementing an on-line resource designed to meet identified education needs of both generalist health care professionals and lymphoedema specialist practitioners.

Why have I been chosen?

Members of the SLPN are invited to work with the researcher in subgroups to develop a section of a resource to meet the identified education needs.

Do I have to take part?

It is up to you to decide whether to take part. If you do decide to take part, you are still free to withdraw at any time without giving a reason and without consequence.

What will happen to me if I take part?

You will form part of a small subgroup of 2-4 members depending upon area of interest. Each subgroup will be given a summary of the self-identified and specialist identified education needs of one group of health care professionals e.g. community nurses or GPs. Facilitated by the researcher the subgroup will then negotiate its intended way of working, e.g. planned on-line working, sharing of documents, teleconferences and/or number of meetings and goals with timelines. You are asked to document/log the decisions of the subgroup about how you intend to work as a subgroup and later log any changes to the plan and any decisions made in developing the resource. You will be asked to consent to the researcher using these notes/logs for analysis of the processes involved in developing the resource. This work will continue from March 2013 to September 2014 with the researcher facilitating each subgroup as required and providing technical

support. The time commitment is expected to be the equivalent of 1 hour per month over a maximum of 18 months. You will also be invited towards the end of this period to be interviewed regarding your experience of participating in the subgroup, which would be expected to up to 30 minutes. The interview would be arranged by mutual convenience, face-to-face or by telephone.

When a section of resource is ready for pilot testing you will be asked, as part of the subgroup, to identify 2 or 3 HCP and a lymphoedema specialist (who hasn't been involved in developing that section) who may be willing to test the section and give feedback through a brief interview with the researcher. As a subgroup member you will ask these 'end-users' if their details can be passed on to the researcher, who will then contact the potential end user to give them the End-user Participant Information Sheet to consider for a minimum of 48 hours before re-contacted them to see if they are willing to participate.

If there is disagreement between end-users commenting on a particular section of the resource and/or between those involved in developing the resource, the researcher will feedback summaries of the feedback which will be depersonalised by coding and their initial analysis to all relevant participants with an invitation to verify content and further comment. In the event of continued discordance on any aspect of the resource, the results will be feedback to the SLPN group for resolution.

All data will be depersonalised by coding before sharing and all original transcripts/recordings will be held securely as per University of Glasgow data security policy.

What are the possible benefits of taking part?

In addition to the benefits identified in the SLPN Participant Information Leaflet of promoting the work of the SLPN and your education role as a lymphoedema specialist it is anticipated that subgroup participants will gain knowledge and skills from the process of design and development of on-line education resources which would be transferable to other aspects work. Ultimately the development of a resource to meet the identified education need is hoped to improve the patient experience of healthcare in relation to their lymphoedema.

Disadvantages of taking part in this study

The anticipated disadvantage is the time required, however this could to be considered part of the lymphoedema specialists' educational role and will be annexed to regular SLPN meetings as much as possible to minimise disruption. It is acknowledged that the

process will likely have its frustrations but with good communication processes and the facilitation of the researcher this should be minimised.

Will my taking part in this study be kept confidential?

All data will be depersonalised beyond the research team by coding of data and your information will be treated with the strictest of confidence at all times. Your responses will be numbered for identification, e.g. subject 4. All information will be stored securely at the University. On completion of the research it is anticipated that the findings will be published but individuals will not be identified within the publication.

What will happen to the results of the research study?

The study will be used in fulfilment of a PhD in Health Care at the University of Glasgow. The study findings will be shared with the SLPN and may inform the development of education resources for health care professionals in other specialities. It is hoped that the study would also be published in scientific journals and presented at scientific meetings. Individuals will not be identified in any report or publication.

Who is organising and funding the research?

The research is being organised by post-graduate PhD student - Rhian Davies who is supervised by XXXXXXXX and XXXXXXXX of XXXXXXXXX . The previous phase of this research was funded as part of a larger project by NHS Education for Scotland and Macmillan Cancer Support and supported by the Nursing and Health Care School, University of Glasgow. An executive summary is available on the NES website (http://tinyurl.com/NESLymphoedemaReport). This second phase is currently not externally funded.

Who has reviewed the study?

This study has been reviewed and approved by the College of Medicine, Veterinary and Life Sciences Research Ethics Committee.

Contact for further information

Rhian Davies e-mail XXXXXXXXXXXXX

or phone XXXXXXXXX.

or by post: XXXXXXXXXX

XXXXXXXXX (supervisor) e-mail XXXXXXXXXXXXXXXXXXX

XXXXXXXXX (supervisor) e-mail XXXXXXXXXXXXXXX

Thank you for taking the time to read this information and for considering this request for help with the study

Appendix 13: Non-subgroup Participant Information

Study: Developing a model for producing an educational resource for health care

professionals: an exploration of the processes involved

You are being invited to take part in the above research study. Before you decide, it is important for you to understand why the research is being done and what it will involve. Please take the time to read the following information carefully and discuss it with others if you wish. Please ask if there is anything that is not clear or if you would like more information. Take time to decide whether or not you wish to take part. Thank you for reading this.

What is the purpose of the study?

The aim of the second Phase of the current research programme is to investigate whether existing expertise and infrastructures could be utilised to develop a model for producing an education resource to meet identified HCP education need and whether, by using feasibility and process evaluation research tools, the factors that facilitate or hinder development of such a model might be identified, therein creating new knowledge to further inform research theory. The researcher seeks to work in partnership with SLPN to evaluate the feasibility of developing and implementing an on-line resource designed to meet identified education needs of both generalist health care professionals (HCP) and lymphoedema specialist practitioners.

During 2011 members of SLPN participated in a survey and follow up focus groups investigating the education needs of HCP regarding lymphoedema. The results have been previously presented to the SLPN group but some salient points are highlighted below. An executive summary is available on the NES website (http://tinyurl.com/NESLymphoedemaReport).

Lymphoedema Specialists identified education needs which were about supporting continued professional development after attendance at formal specialist courses and in maintaining peer support through national networking. These were of particular concern given current austerity measures on study leave and travel to meetings. In addition, specialists identified a need for a repository of teaching resources. Regarding the needs of generalist HCP, the specialists identified education needs which the generalists did not self-identify; specialists expressed frustration regarding access to generalists for education and also that arranged education events were often poorly attended. Generalist HCP self-identified education needs which were profession and context specific. They also expressed frustration at limitations to access to lymphoedema specialists in many areas. The first preference of generalists on how their education

needs should be met was for teaching from the local lymphoedema specialist but the scarcity of specialists was acknowledged; as was the higher priority of target driven health care. However 44% identified on-line learning as a means of meeting their education need.

Why have I been chosen?

You have been chosen for this study because you are a member of SLPN.

Do I have to take part?

It is up to you to decide whether to take part. If you do decide to take part, you are still free to withdraw at any time without giving a reason.

What will happen to me if I take part?

There are various levels of involvement possible:

- i) Consent is sought for any comments and suggestions you make when the education resource is discussed as part of SLPN business, either during meetings or in subsequent email communications, to be documented. The information will only be used after you have been given the opportunity to comment on the veracity (truthfulness) of the content and any preliminary analysis. All such data will be depersonalised to those beyond the researcher by coding the data.
- ii) Consent is also sought from you to participate in an interview with the researcher during the development period, about your views on the process of development and planning the implementation of the on-line resource. This could be a face-to-face or telephone interview and would be expected to last no longer than 30 minutes. This would be arranged by mutual convenience. You will have opportunity to comment on the veracity of the interview notes and any preliminary analysis. Only the researcher and supervisors will have access to the interview transcripts/recordings.
- iii) You can also take part in a working subgroup to develop a particular part of the resource; further details are included in the <u>Subgroup Participant Information leaflet</u> and requires an additional Subgroup participant consent form.

What are the possible benefits of taking part?

Participation in this study has the potential to raise the profile of SLPN as an expert group in Scotland and wider health care environment and meet the needs identified by lymphoedema specialists/practitioners in the earlier phase of this study regarding their own education needs and those of generalist HCP. Involvement could facilitate your specialist role as educator and allow your views and experience to be considered in the creation of this resource. It is anticipated that most participants will also gain some knowledge and experience from the process of design and development of on-line education resources which would be transferable to other aspects work.

Ultimately the development of a resource to meet the identified education need is hoped to improve the patient experience of healthcare in relation to their lymphoedema.

Disadvantages of taking part in this study

The anticipated disadvantage is the time required, however this could to be considered part of the lymphoedema specialists' educational role and will be annexed to regular SLPN meetings as much as possible to minimise disruption. It is acknowledged that the process will likely have its frustrations but with good communication processes and the facilitation of the researcher this should be minimised.

Will my taking part in this study be kept confidential?

Data will be depersonalised by coding of the data and your information will be treated with the strictest of confidence at all times. Your responses will be numbered for identification, e.g. subject 4. All information will be stored securely at the University. On completion of the research members of SLPN will be given a report of the study and it is anticipated that the findings will be published however individuals will not be identified within the publication.

What will happen to the results of the research study?

The study will be used in fulfilment of a PhD (Nursing and Health Care) at the University of Glasgow. The study findings will be shared with the SLPN and may inform the development of education resources for health care professionals in other specialities. It is hoped that the study would also be published in scientific journals and presented at scientific meetings. Individuals will not be identified in any report or publication.

Who is organising and funding the research?

The research is being organised by post-graduate PhD student Rhian Davies, who is supervised by xxxxxxxxxx and xxxxxxxxxx of xxxxxxxxxx. The previous phase of this research was funded as part of a larger project by NHS Education for Scotland and Macmillan Cancer Support and supported by the Nursing and Health Care School, University of Glasgow. This second phase is currently not externally funded.

Who has reviewed the study?

This study has been reviewed and approved by the College of Medicine, Veterinary and Life Sciences Research Ethics Committee.

Contact for further information

Thank you for taking the time to read this information and for considering this request for help with the study

Appendix 14: End-user Participant Information

Study: Developing a model for producing an educational resource for health care

professionals: an exploration of the processes involved

Researcher: Rhian Davies tel: XXXXXXXXX e-mail: XXXXXXXXXXX

You are being invited to take part in the above research study. Before you decide, it is important for you to understand why the research is being done and what it will involve. Please take the time to read the following information carefully and discuss it with others if you wish. Please ask if there is anything that is not clear or if you would like more information. Take time to decide whether or not you wish to take part. Thank you for reading this.

What is the purpose of the study?

The aim of this phase of the study is to explore whether existing expertise and infrastructures can be utilised to develop a model for producing an education resource to meet identified education need in health care professionals regarding lymphoedema. The researcher is working in partnership with the Scottish Lymphoedema Practitioners Network (SLPN) to evaluate the feasibility of developing and implementing an on-line resource designed to meet the needs identified by generalist health care professionals (HCP) and lymphoedema specialist practitioners regarding lymphoedema in a previous phase of this study. The first part of this study found that preferences for meeting the need included on-line resources. An executive summary is available on the NES website (http://tinyurl.com/NESLymphoedemaReport).

Why have I been chosen?

For each round of testing we are aiming to recruit 2 - 3 people from each of the following professions: General Practitioners (GPs), Physiotherapists, Community/District Nurses and Podiatrists and a lymphoedema specialist. The subgroup developing one of the sections of this resource has identified that you may be interested in participating.

Do I have to take part?

It is up to you to decide whether to take part. You will be contacted by the researcher, Rhian Davies, over 48 hours after receiving this information to establish your willingness to participate. If you do decide to take part, you are still free to withdraw at any time without giving a reason and without consequence.

What will happen to me if I take part?

Firstly you will be asked to sign a letter of consent to participate. You will then be asked to review a section of information/education resource on a website and provide feedback. You will be given a link to a section of website developed for your particular profession to access within an agreed time frame. While thinking of a patient presenting to you with probable or confirmed lymphoedema you are asked to navigate the resource and consider its appropriateness, usefulness and ease of use. Different people will explore more or less of the given website pages and links but the process is not expected to take more than 20 minutes in total. The researcher will have agreed a time and date for the feedback interview which can be face-to-face or by telephone and is expected to take 15-30 minutes to discuss the appropriateness, usefulness and ease of use of the resource and any suggestions you may have for facilitating its use by other health care professionals. You will also be asked if you would like to participate in future cycles of testing but you would be under no obligation to do so. All interview data will be depersonalised by coding of the data and held securely by the research team.

What are the possible benefits of taking part?

Participants may benefit from the opportunity to take part in this pilot test by developing a greater understanding of lymphoedema and to some extent the development of on-line resources. However the ultimate beneficiaries of the study should be the patients suffering from lymphoedema as the health care professionals helping them to manage their condition will have greater access to the information and education identified as needs in the previous phase of the study.

Disadvantages of taking part in this study

We ask you to freely volunteer your time as we are not able to pay participants, however we anticipate that this will be offset by the learning you may gain regarding lymphoedema and this development process.

Will my taking part in this study be kept confidential?

Data will depersonalised by coding of the data and your information will be treated with the strictest of confidence at all times. Your responses will be numbered for identification, e.g. subject 4. All information will be stored securely at the University. On completion of the research it is anticipated that the findings will be published but individuals will not be identified within the publication.

What will happen to the results of the research study?

The study will be used in fulfilment of a PhD (Nursing and Health Care) at the University of Glasgow. The study findings will be shared with the SLPN and may inform the development of education resources for health care professionals in other specialities. It is hoped that the study would also be published in scientific journals and presented at scientific meetings. Individuals will not be identified in any report or publication.

Who is organising and funding the research?

The research is being organised by post-graduate PhD student - Rhian Davies who is supervised by XXXXXXXXX and XXXXXXXXX of XXXXXXXXXX. The previous phase of this research was funded as part of a larger project by NHS Education for Scotland and Macmillan Cancer Support and supported by the Nursing and Health Care School, University of Glasgow. This second phase is currently not externally funded.

Who has reviewed the study?

This study has been reviewed and approved by the College of Medicine, Veterinary and Life Sciences Research Ethics Committee.

Contact for further information

Thank you for taking the time to read this information and for considering this request for help with the study.

Appendix 15: Subgroup feedback to SLPN

Date:	5 th March 2014		
Subgroup:	Lymphoedema Specialist pages		

What the plans for the last quarter had been:

This would be a summary of your initial meeting log e.g. how many actual/virtual meetings were planned, how was communication planned, what actions were decided upon, any roles people took or tasks assigned, whether specific dates for completion had been set or SMART goals?

Communication by group e-mail between 4 members

Specialist website has now been established within the Knowledge Network

3 members now have editing rights

2 members completed over the phone training on how to edit website

Arranged a date to meet up and start to construct website

What was actually done (progress and changes to plan):

3 members met up to start constructing the website

Discussed how website should operate

Developed 5 main categories

Up loaded useful resources

If there were changes to the plans - why, what drove those changes?

Not really a change, but since the ethos of this project is development of the website by the users, it was decided to focus more on other practitioners sending in particles, ideas, PPPs, case studies,, etc rather than the 4 group members finding and uploading them all

What are the plans for the next quarter?

To continue developing the website
Obtain feedback from website users via the SLPN
Adapt as required
Encourage users to send in resources

Issues for discussion with rest of SLPN group	Decisions taken after discussion with SLPN
	Need to discuss how and who we are allowing
	access too
Thoughts on website	Investigate if there is anyway a short
Clarity of headings	"application" form can be forwarded to
Ease of use	someone requesting access
Thoughts on idea of discussion forums	

Please continue overleaf/next page if you need to.

Please bring with you to the SLPN meeting and send an electronic copy to Rhian, thank you.

Appendix 16: Subgroup interview templates

Semi-structured interview template for subgroup member v1.0

First cycle of interviews (under 30 minutes, to be recorded and transcribed).

	Field notes	coding
Introduction and reminder of purpose, confidentiality, right to withdraw, member checking process.		
Overall impression of the current process		
e.g. what is your sense of what's going on?		
Engagement/involvement		
What influenced your decision to be involved in a subgroup/that subgroup?		
What keeps you motivated to keep going?		
Quality and quantity of communication		
Usefulness /Relevance/value of the project? To who mostly?		
In what way?		
Usefulness to you? Of resource, of having been involved?		
Do you think SLPN will gain from having been involved in this?		
Time		
Any concerns about it?		
These can be content, workload, sustainability, barriers to success, quality anything		
Roles and how they developed		
Researcher role		
Suggestions for improvement to process		
Anything else to add		
Thanks and what happens next		

Semi-structured interview template for subgroup member. v2.0

Second cycle of interviews (under 30 minutes, to be recorded and transcribed).

	Field notes	coding
Introduction and reminder of purpose, confidentiality, right to withdraw, member checking process.		5555
Impression of the current process of website(s) development?		
How do you feel it's worked?		
What are the key factors that hinder?		
Key facilitators?		
Suggestions for improvement to process		
Time would you normally have time for teaching/education? How does the time spent on this compare?		
Open question relevant to this person?		
Tell me a bit about your experience of being in a subgroup to develop this OLR (Enjoyed/hard/frustrated?)		
Engagement/involvement		
What influenced your decision to be involved in a subgroup/that particular subgroup?		
What keeps you going on it?		
Do you feel you are learning during the process?		
What sort of things?		
Do you think others are learning? Like?		
Is working together on this changing the way the group functions in any way?		
How do you think of the SLPN, as a network of professionals or as a community of practice or something else?		
Would you say you feel a sense of belonging?		
What do you want/need out of the SLPN?		
Can the OLR support that in any way?		
Anything else to add		
Thanks and what happens next		

Appendix 17: Non-subgroup interview templates

Semi-structured interview template for SLPN member non-subgroup members, v1.0

First cycle of interviews (under 30 minutes, to be recorded and transcribed).

	Field notes	coding
Introduction and reminder of purpose, confidentiality, right to withdraw, member checking process.		
Overall impression of the current process, awareness.		
e.g. what is your sense of what's going on? What do you make of it?		
Relevance/value of the project?		
Appropriate use of time for those in subgroups?		
And using a part of the SLPN meeting?		
Usefulness to you?		
Will you use it? In what way? Which part of it?		
(repository, discussion forum)		
Do you think SLPN will gain from having been involved in this?		
Engagement/involvement		
e.g. did you choose to be involved in the larger outer group rather than the working subgroups or did that happen by default because of timing/attendance at meetings etc?		
can you remember the reason for your choice? Would you want to be involved in a subgroup working on web-pages in future?		
Any concerns about it?		
These can be content, workload, sustainability, barriers to success, quality anything		
Quality and quantity of communication		
Researcher role impression of		
Suggestions for improvement to process		
Anything else to add		
Thanks and what happens next		

${\bf Semi-structured\ interview\ template\ for\ SLPN\ member\ non-subgroup\ members.}$

v2.0

Second cycle of interviews (under 30 minutes, to be recorded and transcribed).

	Field notes	coding
Introduction and reminder of purpose, confidentiality, right to withdraw, member checking process.		
Overall impression of the current process, awareness.		
e.g. what is your sense of what's going on? What do you make of it?		
Relevance/value		
of the project?		
Appropriate use of time for those in sub-groups?		
And using a part of the SLPN meeting?		
Usefulness to you?		
Will you use it? In what way? Which part of it? (repository, discussion forum)		
Do you think SLPN will gain from having been involved in this?		
Any concerns about it?		
These can be content, workload, sustainability, barriers to success, quality anything		
Quality and quantity of communication		
Researcher role impression of?		
Suggestions for improvement to process		
Engagement/involvement		
e.g. did you choose to be involved in the larger outer group rather than the working sub-groups or did that happen by default because of timing/attendance at meetings etc?		
can you remember the reason for your choice? Would you want to be involved in a subgroup working on web-pages in future?		
Anything else to add		
Thanks and what happens next		

Appendix 18: End-user interview template

Semi-structured interview template for End-user.

First cycle 15-30 mins, telephone or face-to-face, notes taken during interview.

Date: Participant:

	Field note	coding
Introduction reminder of purpose, confidentiality, right to withdraw, right to comment on interview notes.		
First impression any problems with access etc. Ease of use/layout/navigation Suggestions on navigation/layout		
Content appropriateness, usefulness Suggestions on content		
Other comments/suggestions		
Would you be happy to be involved in giving feedback in future cycles?		

Appendix 19: Programme Manual

	Function criteria (to include planning, conducting, reporting and evaluating)	Data from	Significant influencing factors	Variances to plan	Alternative method (added to end of list in left column for cyclic process)
1	Decisions about the overall purpose (definition), look and functionality of the website to be made by whole SLPN group	Meeting minutes, subgroup logs, interviews.			Input here "No change from plan" or "Stop see new process e.g. number 15)
2	Each subgroup of 2-3 SLPN members will have an initial training session with the researcher on web-page planning and building				
3	Individual pages will be planned and created by subgroups of 2-3 SLPN members				
4	Individual pages will be developed collaboratively by subgroups members using face-to-face or virtual meetings				
5	Subgroups will have the support of the researcher to provide or source technical help (fortnightly?)				

	Function criteria (to include planning, conducting, reporting and evaluating)	Data from	Significant influencing factors	Variances to plan	Alternative method (added to end of list in left column for cyclic process)
6	Subgroups will have the support of the researcher to provide learning theory support (monthly?)				
7	Subgroup members will keep a log of their activity on website development to include time and nature of activity, problems encountered and how solved				
8	Subgroups will provide a report on progress to the larger SLPN group at each quarterly meeting				
9	Whole SLPN group will provide support and dispute resolution for subgroups on web-page development				
10	Subgroups will identify appropriate end-users to test (evaluate) the developed web page				

	Function criteria (to include planning, conducting, reporting and evaluating)	Data from	Significant influencing factors	Variances to plan	Alternative method (added to end of list in left column for cyclic process)
11	Researcher will provide a summary of enduser evaluation to the subgroup for each iteration				
12	Disputes/disagreements on web-page content/function within the subgroup or from end-users are resolved by further opportunity to comment by subgroup and end-users OR are taken forward to larger SLPN group for resolution				
13	Subgroup will use end-user evaluation to further develop the web page(cycle of iterations)				
14	A number of iterations will be followed for each web page				

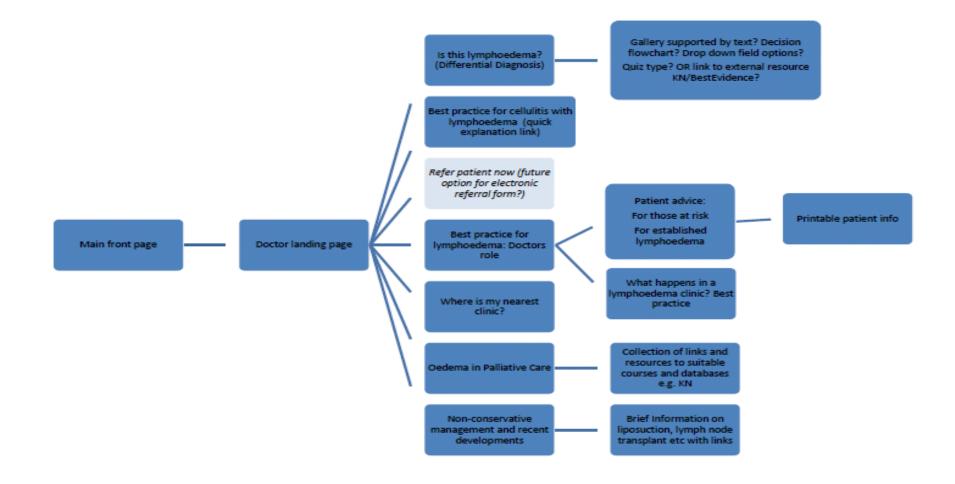
Appendix 20: Extract of display of data relating to one theme Phase 2

Display v1.0 of data from SLPN3 (transcript of meeting 5th November 2013)

RR=role of researcher, MO=motivating factors, TM= Time factors, SG = small group working factors, SK= skills & knowledge.

Coding	Description / Memo	SLPN3/ first line/speaker	Quote	other codes
RR	Facilitating but also controlling	6/P7	People who are in the subgroups do you want me to just to quickly show where the website is at a whole or do you want to show your things as you talk about them	Roles coded under Process in the other.
RR	Researcher role – keeping to process	14/P7	do you want to carry on saying anything else that's on your [subgroup feedback] sheet?	Process
RR	Summarising/Clarifying point - facilitating	71/P7	So you're still seeing it as a place that is a repository for teachers in a way, for all your teaching things yes? And then as a 'this is our safe space as specialists to share our concerns or practice or whatever'. Is that the two main ways you're still thinking of it as?	
RR	Facilitating contribution from other in the room	93/P7	so has anyone got any ideas you know on how we can get the rest of SLP engaged in saying what they want on there?	Barriers
RR	Educator; advisor?	127/P7	but if we create something that's genuinely new and its our creation there is something called a Creative Commons license that you can do that doesn't cost anything but is like a copyright except that you can say how people can use it	

Appendix 21: Site Map example



Website subgroup feedback to SLPN

Appendix 22: Completed subgroup feedback

_	•	
Date:	5 th January 2014	
Subgroup:	Specialist subgroup	

What the plans for the last quarter had been:

This would be a summary of your initial meeting log e.g. how many actual/virtual meetings were planned, how was communication planned, what actions were decided upon, any roles people took or tasks assigned, whether specific dates for completion had been set or SMART goals?

Communication by group e-mail between 4 members

Specialist website has now been established within the Knowledge Network 3 members now have editing rights

2 members completed over the phone training on how to edit website Arranged a date to meet up and start to construct website

What was actually done (progress and changes to plan):

3 members met up to start constructing the website

Discussed how website should operate

Developed 5 main categories

Up loaded useful resources

If there were changes to the plans - why, what drove those changes?

Not really a change, but since the ethos of this project is development of the website by the users, it was decided to focus more on other practitioners sending in particles, ideas, PPPs, case studies,, etc rather than the 4 group members finding and uploading them all

What are the plans for the next quarter?

To continue developing the website

Obtain feedback from website users via the SLPN

Adapt as required

Encourage users to send in resources

Issues for discussion with rest of SLPN group	Decisions taken after discussion with SLPN
Thoughts on website	Suggestions taken back to subgroup.
Clarity of headings	Encourage all SLPN members to
Ease of use	contribute through circulation of minutes.
Thoughts on idea of discussion forums	

Please continue overleaf/next page if you need to.

Please bring with you to the SLPN meeting and send an electronic copy to Rhian, thank you.

Appendix 23: End-user feedback

First cycle 15-30 mins, telephone or face-to-face, notes taken during interview.

Date: 19.02.2014

Participant: P21

		coding
Introduction reminder of purpose, confidentiality, right to withdraw, right to comment on interview notes.	Accepted	
First impression any problems with access etc. Ease of use/layout/navigation Suggestions on navigation/layout	Easy to navigate and straight forward. The links are good for more information if you want it. More visual information would be good, photos for people who can't work the film e.g. toe bandaging, different types of oedema, cellulitis. Film works, that would be really helpful and reassuring for a nurse in someone's house who needs a reminder of how to do it.	
Content appropriateness, usefulness Suggestions on content	The pages I'd be most interested in have not been completed yet. So far though content does seem appropriate for the different levels of experience on this in the community. The referral pathway was useful to know when to refer, but the names at the bottom need updating or making generic. Lymphorrhoea pathway useful too even if only rarely used.	
Other comments/suggestions Would you be happy to be involved in giving	Make sure it's really accessible out there, maybe speak to Prof Nurse Adviser xxxxxxxxx about how that could be linked to her work or her equivalents elsewhere? The DNs in xxxxx are all going to get hand held Microsoft tablets soon so make sure its all compatible with that. Yes	
feedback in future cycles?		

Appendix 24: Kotter's 8 steps in this study

Steps	Actions	Audience	Desired effect(s)
Establish a sense of urgency	Point out relevance of OLR at SLPN meetings and other appropriate meetings	SLPN members, Macmillan Lymphoedema Scotland Project Steering Group, SMASAC, potential funders.	SLPN to minute group decision to action development of OLR External organisations and groups to include/ acknowledge the OLR as part of wider plans and not produce their own.
Creating a guiding coalition	 Informal discussions and e-mails as well as more formal discussions with key influencers within SLPN Seek formal and informal sources of IT support e.g. Knowledge Network, University sources, within SLPN, colleagues/friends. Use academic supervisors as guides for process of action research and unpinning academic theory of on-line learning and librarians as experts in information seeking theories. 	Key influencers of SLPN. IT experts/experienced contacts. Librarian and academic supervisors.	To have a core group of champions to help drive through the development To have identified various sources of training and support for the researcher and thereby indirectly the group
Developing a change vision	 Facilitate but give time for SLPN to develop a vision of how they might use technology to address their needs Facilitate refinement into characteristics of a vision (Kotter) 	SLPN members	That SLPN will have developed ideas from the researcher into a vision of their own about the finished product (OLR)

Communicate the change vision	 Use opportunities with SLPN meetings and others (e.g. with Macmillan) to communicate vision Use e mails and meeting minutes to communicate vision with SLPN members not present. 	SLPN members, Macmillan Lymphoedema Scotland Project Steering Group, SMASAC, potential funders	That all groups currently driving service changes in lymphoedema in Scotland understand the vision and incorporate it in their plans.
Empowering broad based action	 Give opportunity for all to be involved in different ways Provide adequate training and support Cover several different professional areas/context of work to make it relevant 	SLPN members, sample of end-users	That all members of SLPN feel involved as much as they want to be in the process. That participating end-users feel their input is valued That the OLR addresses the need identified in more that one profession and context
Generate quick wins	 Identify subject/target end user group (profession) and SLPN members who are most likely to produce a successful start to their subgroup OLR pages Identify and remove as many barriers as possible especially in the early days Ensure adequate training and sources of support for researcher to cascade knowledge and skills through group. 	One or two subgroups and target end-users. Researcher and informal technical support.	At least one-group develops a clear vision of what they need to do, how and quickly create a prototype resource page from one of the identified professions. That all those involved can see a prototype section of the OLR and how it might work

Consolidating gains and producing more change (keeping going)	 Ensure reporting process is in place within group and external to the group, to provide regular positive feedback and quick address of problems/barriers/ challenges Ensure system has clear route of feedback from end-users both during the first development stages and in the longer term from the website Explore potential development awards or similar recognition that might reward the group for their efforts Include group in publication plans/conferences 	SLPN members, their employers and managers, potential awarding bodies. Wider academic and professional bodies.	SLPN group is engaged and enthusiastic about the OLR That end-users use the OLR and communicate some feedback about its relevance and usefulness even beyond this project. Recognition of the action research work from an external body to continue to inspire the group.
Anchoring the new approach (incorporating into the routine and structure	 A routine of checking content and web-links longer term is established as part of the group process. OLR content and further development has a regular place on the agenda of SLPN quarterly meetings. 	SLPN members.	Continued development, evaluation and keeping the OLR contemporary is established as an ongoing continuous role of the SLPN group, possible with recognised partners.
	 Seek acknowledgement of this task as part of the educational element of their specialist role 	Employers/managers.	That employers/managers recognise the development and upkeep of OLR as part of the specialist role.