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London School of Hygiene & Tropical Medicine

Department of Public Health and Policy

MSc Public Health (Health Promotion)

Project Type: Policy review

Project Title:

To evaluate the role of Occupational Therapists in health promotion with

particular reference to patients who have experienced strokes.

'Without a clear focus on health promotion and disease prevention, we risk spending more and more of our increasingly scarce resources on care with

less and less return' 1

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EXECUTIVE SUMMARY

Stroke is the third biggest cause of death in the UK and the largest single cause of severe disability. Each year more than 110,000 people in England experience their first stroke, costing the NHS £2.8 billion.

Recent government legislation has focused on improving the health and well-being of the nation with emphasis on modifying behaviour associated with increased risk of morbidity and mortality, in particular with coronary heart disease (CHD) and cardiovascular disease (CVD). Occupational therapy plays a key role in CHD, CVD and post-stroke rehabilitation and its holistic approach shares many similarities with health promotion. However there are no U.K. national guidelines on the role of occupational therapy in health promotion and many barriers exist for both patient and therapist. If health promotion is considered post-stroke, it is rarely approached in a systematic, co-ordinated and multi-disciplinary manner thereby limiting its potential benefits.

This study aims to evaluate the role of occupational therapists in promoting the health and well-being of older persons who have experienced a stroke, in the London Borough of Tower Hamlets. Key informants' views were sought through the local Primary Care Trust, including opportunities, barriers and effectiveness of health promotion post-stroke.

The results indicate that all respondents thought health promotion is worthy of incorporation into existing interventions such as therapy sessions and patient information groups. However the need for further training in the theory and practise of health promotion was identified as a key requirement. Literature on this topic is scarce but supported health promotion for secondary prevention of CVD, including stroke.

Recommendations for specialist stroke services, with particular relevance to Tower Hamlets, focus on embedding the philosophy of health promotion into the rehabilitation setting; maximising opportunities for education with patients and their families; methods of delivery and precise targeting of the message; multi-sectoral partnership and community involvement within the wider socioeconomic context.

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LIST OF ABBREVIATIONS

AHP Allied Health Professional

ASU Acute Stoke Unit

CHD Coronary heart disease

CVD Cardiovascular disease

DN District nurse

DOH Department of Health

HRQOL Health related quality of life

HT Hypertension

LBTH London Borough of Tower Hamlets

LSHTM London School of Hygiene & Tropical Medicine

MDT Multidisciplinary team

NSF National Service Framework

OT Occupational Therapist

PCT Primary Care Trust

PT Physiotherapist

QOL Quality of life

RCT Randomised controlled trial

RCP Royal College of Physicians

SAPS Single assessment process

SES Socio-economic status

SW Social worker

THPCT Tower Hamlets Primary Care Trust

CHAPTER 1: INTRODUCTION

1.1 Background

Stroke is the third most common cause of death in the UK and the largest single cause of adult disability². It has significant socio-economic consequences and has been highlighted by the Government as an area of major public health importance^{4,3}.

Every year approximately 110,000 people in the UK have their first stroke and another 30,000 have a second or subsequent one, 88% of all patients over 65 years of age⁵. 16% of all women, and 8% of men are likely to die of a stroke^{2,6-8}. A further 30-40,000 experience a transient ischaemic attack (TIA), with the risk of a completed stroke as high as 20% within the first month⁷.

All general hospitals that care for stroke patients were required to introduce specialist stroke care services by 2004, based on evidence that they improved patient outcomes regardless of age, sex or stroke severity⁹⁻¹⁰. However there remains considerable geographic variation in the availability of specialist units¹¹.

1.2 Opportunities

a) The policy background

There is a plethora of government papers related to coronary heart disease (CHD) and cardiovascular disease (CVD), including stroke, as well as long-term conditions, older persons, the role of allied health professionals in health promotion, and preventative care and well-being. One of the earliest was *Our Healthier Nation*¹² and more recent policies include *Choosing Health*⁴, the *NSF for Older People* ⁹ and the Green paper *Independence, Well-being and Choice*¹³, that outlined the Government's agenda for promoting health, independence and well-being, with particular reference to older people. This was confirmed in *Our Health, Our Care, Our Say* ¹⁴ that aims to give people greater control and shift to a stronger emphasis on prevention and health promotion.

Choosing Health ⁴ in particular sets out how people can change their lifestyles to improve their health and recommends:

- supporting informed choice for health
- personalising support to individuals to make healthy choices
- working in partnership with many organisations

These themes are reinforced in *Our Health, Our Care, Our Say* ¹⁴ with clear standards of delivery outlined in *Essence of Care: Benchmarks for Promoting Health* ¹⁵ and *Standards for Better Health* ¹⁶.

b) The local situation

The London Borough of Tower Hamlets (LBTH) is one of the most deprived boroughs in London with high levels of poverty and ill health and the worst housing overcrowding in England and Wales. Other aspects include low educational achievement, high unemployment, a relatively unskilled workforce, low income levels, and large numbers of households with lone parents or pensioners living alone ¹⁷⁻¹⁸. A strong association between lower socio-economic status (SES) and increased mortality and morbidity is well established ^{17,19-20} and is reflected in the Borough's standard mortality rates, 49% worse than average ^{17-18,21}, and average life expectancies at birth of 72.5 years for men and 78.8 for women, 3.2 years and 1.7 years, respectively, lower than for England as a whole ²². Deprivation is also associated with inequalities in health care including access, utilization and quality of care ²³.

While SES is important it does not fully explain the higher risks of CVD in the Bengali population ²⁴. Out of a total Borough population of 220,500, there are 15,000 people recorded as having high blood pressure and 8-9000 suffer from diabetes, twice the national rates ¹⁸. There is a high rate of strokes, especially within ethnic minority groups that make up 57% of the population, 33% of whom are from Bangladesh. Mortality from stroke in under-65s, taken as the average for 1997-99, was 19.6/100,000 compared to the national average of 10.0 ¹⁷.

c) Local policy

A recent reflection of government policy is the 10 year plan *Improving Health and Well-being in Tower Hamlets*¹⁸ that outlines an ambitious strategy grouped under five aims:

- 1. reducing inequalities in health and well-being
- 2. improving the experience of service users
- 3. developing integrated and more localised services
- 4. promoting independence, choice and control by service users
- 5. investing resources effectively.

The first aim includes reducing the gap in life expectancy between LBTH and England & Wales overall as well as reducing deaths from heart disease, strokes and related conditions by at least 40% in people under 75 by 2010 and by 50% in 2016¹⁸ (p35). To achieve these targets a multi-sectoral approach to tackling the social determinants of ill health is advocated alongside a strong focus on empowering people to choose healthy lifestyles, a reflection of *Choosing Health*⁴. Services must address lifestyle factors and minority groups must have equitable access to older people's services.

The fourth aim relates to improving quality of life (QOL) for people with long-term conditions and their carers and reflects ideas from the *NSF for Older People* ⁹ (Standard 5 & 8) and *NSF for Long-Term Conditions* ²⁵. It also builds on a Tower Hamlets discussion document that extols the importance of 'empowering local

people to take more control of their health and well-being'²² (p5). That QOL is related to health, and thus comes under the umbrella of health promotion, is discussed later.

Tower Hamlets Health Improvement & Modernisation Programme ²⁶, 2003/6, laid the groundwork for the above document and highlighted the need to develop fully integrated stroke services.

Alongside this individual focus the above policies proposed that multi-sectoral initiatives should be aimed at tackling social determinants such as poverty and sub-standard housing.

d) Stroke Unit, Mile End Hospital, Tower Hamlets

The Stroke Unit at Mile End Hospital was set up to provide specialist stroke rehabilitation for this vulnerable population, in line with the *NSF for Older People*⁹. Stroke patients are transferred from the acute wards at the Royal London Hospital for rehabilitation and on discharge receive community follow up.

1.3 Interventions

A number of lifestyle interventions are associated with reduced risk of first stroke ^{2,4,6,8,27-28}, in addition to medical management of hypertension and other conditions ²⁹⁻³². The Royal College of Physicians (RCP) evidence-based guidelines (2004) included five key lifestyle factors that should be addressed in

combination with medical management for patients who have already had a stroke ⁷ (p.41):

- 1. stopping smoking
- 2. regular exercise
- 3. diet and achieving a satisfactory weight
- 4. reducing salt intake
- 5. avoiding excess alcohol

a) The role of occupational therapy

The defining feature of occupational therapy for stroke patients is its holistic approach encapsulating all areas of life (self care, productivity and leisure) within a socio-environmental context. Purposeful activities are used to achieve functional goals that have been set with the patient and are targeted towards meaningful end points such as return to work ³³.

Traditionally, allied health professionals (AHPs), including OTs, have not focused on health promotion because of their concentration on clinical care and 'alleviating the effects of illness or disability'³ (p12). However AHPs are well placed to broaden their role because of 'their particular skills, knowledge and personal contact with patients that place them in a very strong position to drive health promotion initiatives'³ (p12). In addition many AHPs have a strong allegiance to working as part of a team and across professional boundaries³.

A basic tenet of occupational therapy is the 'close association between what people do and their health', thus there is ample justification for therapists to 'aim practise towards positive health and well-being' (p87). Occupational therapists are ideally placed to promote health and well-being through meaningful occupation and the restoration of valued roles ^{3,34-36}.

That health promotion is an important role for AHPs is endorsed by the Government ^{4,37-38}, but to date there are no U.K. national guidelines on the role of occupational therapy in health promotion. Recent stroke guidelines³⁹ (standard 7) refer to assessing lifestyle factors and providing advice on smoking, exercise, diet/weight, salt intake, and alcohol but many practising OTs have received little, if any, training in this area ⁴⁰⁻⁴¹.

b) Politics, philosophy and practice

'There is little doubt that health promotion is a political activity'³ (p3) with significant ethical dilemmas and potential ambiguities in practise. The traditional focus on the individual does not challenge social determinants of ill health. However Scriven argues that the profession has a wider responsibility to promote health 'that involves a commitment to advocate and mediate for the provision of occupationally just policies'³ (p96), drawing from the three broad strategies for health promotion outlined in the Ottawa Charter ⁴².

The Canadian Association of Occupational Therapists also resonates with the Ottawa Charter, stating that health promotion is more than disease prevention and therapists have a duty to promote healthy lifestyles across all sectors, in partnership with stakeholders ^{1,43-45}. Similarly the American Association of Occupational Therapists affirms the profession's participation in health promotion⁴⁶.

It is beyond the remit of this study to discuss such dilemmas, but that a broad definition encompassing any activity designed to promote health, well-being or quality or life, or to prevent further illness or disability, will be used ⁴².

c) Barriers

Health promotion is seldom approached in a systematic, co-ordinated or multidisciplinary manner with stroke patients⁴⁷. Opportunities exist that may reduce the risk of further illness or disability and improve quality of life for both patient and carer, despite many barriers such as time, cost, resources, staff training and a dearth of specific studies ³.

CHAPTER 2: AIMS & OBJECTIVES

2.1 Research question

Recent government legislation has focused on improving the health and wellbeing of the nation. Occupational therapy plays a key role in secondary level care and its holistic approach shares many similarities with health promotion.

2.2 Aim

This study aims to evaluate the role of OTs in promoting the health and wellbeing of older persons who have experienced a stroke, in the LBTH.

2.3 Objectives

- a) Outline the philosophy of occupational therapy, its role in the treatment of stroke and its concordance with health promotion.
- b) Identify key demographic features of the LBTH and describe the policies and care pathway in operation for patients who have had a stroke.
- c) Identify a range of effective health promotion interventions for stroke patients and the contribution OTs can make.
- d) determine the extent to which health promotion interventions are provided in a local PCT, identifying opportunities, barriers and effectiveness.
- e) Produce recommendations concerning health promotion post-stroke. These
 will primarily be for the local Trust but may also be extended to professional
 bodies.

CHAPTER 3: METHODOLOGY

3.1 Literature review

A comprehensive literature review prepared the framework for the interviews and provided background information on Government and local legislation pertinent to promoting health post-stroke. It involved searching the following databases: PubMed; CINHAL; Web of Knowledge; EMBASE; Cochrane; CAB Direct; IBSS; EPPI-Centre and PsychInfo.

In addition websites were searched for policy documents and relevant un/published material (appendix A), including: Barts and the Royal London PCT; the College of Occupational Therapists in the UK, New Zealand, Australia, America and Canada; Department of Health; East London and City Health Authority; the King's Fund; National Research Register; NHS Health Scotland; NICE; PEDro; Stroke Association; Tower Hamlets PCT; and the World Health Organisation.

The search was initially confined to literature on occupational therapy, health promotion and stroke and was then widened to include allied health professionals and health promotion with older persons, long-term disabilities or CHD. Studies were limited to those written in English over the last 15 years. In addition, relevant articles cited in the literature were followed up. The main focus was on

systematic reviews, meta-analysis and randomised controlled trials, but all study types were included.

Search terms were as follows:

Primary keywords: cerebrovascular disorders, cerebrovascular accident, health promotion, health behaviour, lifestyle, occupational ther*, secondary prevention.

Secondary keywords: exercise, physical fitness, health education, patient education, risk factors, relaxation techniques, quality of life, nutrition, prevention and control,

Additional resources included The British Library, The College of Occupational Therapists and the LSHTM database for books regarding health promotion, occupational therapy and secondary prevention.

3.2 Interviews

Semi-structured interviews with key informants were used to gain insights from selected representatives of stakeholder groups and to benefit from their expertise as clinicians. The interviews complemented findings from the literature, in particular on the role of occupational therapy in promoting health post-stroke. An interview framework identified during the literature search was used which delineated areas of interest but also allowed flexibility (appendix B).

Respondents were selected through purposive sampling, to represent the key professions involved in stroke care. They were contacted by letter (appendix C), followed up by telephone or email. The interviews were conducted over two weeks in July, on hospital premises, tape-recorded and later transcribed. Content analysis involved: reading through the data repeatedly; vertical analysis of the main features of each case; horizontal (thematic) analysis to identify, code and organise recurrent themes into categories; reviewing and refining the categories⁴⁸.

3.3 Ethical issues

Ethical approval was given by LSHTM Ethics Committee, East London and City COREC and Tower Hamlets R&D Centre (appendix I-K).

Interview request letters were accompanied by information sheets (appendix D, E) that advised them on ethical issues such as the right to withdraw at any stage. On the day of interview a consent form was read and signed (appendix F). All respondents agreed to being quoted in the report.

3.4 Analytical framework

To examine current practise and policy on secondary prevention of stroke it was essential to identify a framework around which to structure the investigation, and the following guidelines were used:

- a) The RCP National Clinical Guidelines for Stroke 7.
- b) East London summary guidelines: stroke and transient ischaemic episodes ⁴⁹ based on previous RCP guidelines ⁶.
- c) RCP and Occupational Therapy audit package for stroke ³⁹.

Interviewees were asked what policies or guidelines they were aware of and how they interpreted them to assist the researcher understand the link between policy and practise as well as potential barriers to implementation.

CHAPTER 4: EVIDENCE FOR HEALTH PROMOTION POST-STROKE

4.1 The literature

Most of the literature was on medical management. No systematic reviews or meta-analyses on health promotion post-stroke were found but there was substantial literature on related aspects which is summarised below. CHD is included because many of the interventions that reduce its incidence and severity also apply to stroke and their underlying pathology is essentially the same ⁵⁰⁻⁵².

Table 1: Summary of literature review findings

	Subject	Number of studies	Comments
i.	Health promotion post-stroke (lifestyle interventions)	8	2 RCTs
ii.	Health promotion & primary prevention of stroke	5	1 RCT . Plus literature from Stroke Association & WHO.
iii.	Health promotion post CHD/CVD (secondary prevention)	3	2 systematic reviews; 1 RCT.
iv.	Health promotion & primary prevention of CHD	3	2 systematic reviews; 1 RCT.
V.	Health promotion with older persons	8	2 RCTs.
vi.	Occupational therapy & health promotion	7	Including 1 MSc.
vii.	Opportunities & barriers for health promotion	5	2 articles specific to OT.

i. Health promotion post-stroke

Table 2 summarises the studies on secondary prevention post-stroke, including the setting (hospital, home, community), intervention type, staff involved, population group and evidence of effectiveness. Interventions included exercise/physical activity; life skills education (alcohol, smoking, diet, coping strategies, communication); and information/support.

Table 2: Studies of secondary prevention of lifestyle factors post-stroke

Study &	Population &	Study design &	Intervention type,	Results	Conclusion
date	setting	staff/researcher	purpose & outcome		
		background.	measure		
Bluvol ⁷⁴ ,	Stroke patients	Cross-sectional	Stroke information:	Moderate positive	Important to focus on
2004	with moderate-	n=40	To examine the relationship	relationships were found	family strengths &
	severe functional		between hope, health work	between hope & health	caregiver burden. Illness
	impairments &	Nursing	and quality of life in families	work, & hope/ QOL for	related socio-economic
	their spouse/		of stroke survivors. Health	patients & spouses; family	factors are important
	main carer, at		work was defined as 'an	health work was positively	contributors to QOL.
	home; Ontario,		active process through	associated with QOL of	
	Canada.		which families learn ways of	stroke survivors but not	
			coping and developing that	their spouses.	
			are conducive to healthy		
			living over time' (p322).		
Greenlund	20 States in the	Cross-sectional	Diet & exercise:	2.4% (1228 people)	No association between
et al ⁷⁵ . 2002.	USA that partook	n= 51193	To examine the prevalence	reported a history of stroke.	diet & HRQOL.
	in a behavioural		of persons with stroke who	Of these: a) 61% said that	Recommends provider
	risk factor survey,	Physicians	received physician advice	they had received dietary	advise for 2 nd prevention
	1999; home		for, and engaged in, dietary	advise and 85.4% reported	post-stroke.
	setting.		change and exercise, and	adjusting their diet	
			whether this was	(controls: 56%).	
			associated with differences	b) 64% reported being	
			in health related (HRQOL).	advised to exercise more,	
				and 76.5% said they had	

			Outcome measure: HRQOL	(controls: 38.5%). Those	
			measured by questionnaire	who exercised reported	
			of overall health status in	fewer days of poor health	
			the preceding 30 days	(p<0.005), fewer limited	
			(non-standardised);	activity days (p<0.01) and	
			compiled an index of	more healthy days (p<0.05)	
			healthy days.		
Guilmette et	Elderly inpatients	Commentary	Smoking:	One person should be	Health promotion should
al. ⁷⁸ , 2001	who smoked prior		How to assist patients to	responsible for delivering	be addressed in the
	to admission on a	MDT: rehab staff	stop smoking through a	the programme to the	rehab setting, which
	rehab ward; USA.		smoking cessation	patient, supported by the	provides a 'teachable
			programme; relapse	team. Intervention should	moment' (p561). Smoking
			prevention.	include 1:1 advise &	cessation programmes
				support, pharmacotherapy	can be implemented with
				& written materials.	little cost in most rehab
					units.
Rimmer et	Mainly African-	Pre-test/post-test	Exercise, nutrition &	Treatment group made	A short-term health
al. ⁷² , 2000	American, low	lag control group	health behaviour:	significant gains over	promotion intervention
	income, stroke	n=35 (26 female,	Examined the effects of a	controls in the following	was effective in improving
	survivors living at	9 male)	12 week (x3/week) health	areas: reduced weight	several physiological &
	home in Chicago,		promotion intervention.	(p<0.01) and cholesterol	psychological health
	USA. Age 30-70;	MDT: dietician,		(p<0.05);	outcomes.
	>6 months post-	psychologist,	Outcome measure:	improved cardiovascular	
	stroke & able to	social worker,	Biomedical fitness,	fitness;	

	walk >50ft	therapist.	nutritional, and	increased strength;	
	with/without an		psychosocial measures	increased life satisfaction	
	aid.			and ability to manage self-	
				care needs; decreased	
				social isolation.	
Redfern et	South London	Prospective	Smoking, alcohol &	At baseline 32.2% smoked,	High risk groups should
al. ⁷⁶ , 2000	Stroke Register:	cohort	obesity:	13.2% drank more than the	continue to be targeted to
	first-in-a-lifetime	n=1139	To estimate risk factor	weekly allowance, 56.3%	prevent stroke
	strokes, at home;		prevalence & lifestyle	were obese.	reoccurrence. Most
	1995-1998	Medical	changes post stroke.	At 3 months: 717 of 1139	behavioural change
				were included for analysis.	occurs in the first 3
			Outcome measure:	22.2% smoked & 4.9%	months. Relationship
			changes in smoking,	drank too much. At 1 year	between socio-
			alcohol consumption &	the figures were little	demographic
			weight 3 months & 1 year	different & 36.1% were still	characteristics & lifestyle
			post-stroke.	obese.	change remain unclear.
Boysen &	Stroke patients at	Review	Smoking, exercise,	Stroke recurrence higher	'Lack of proof should not
Truelsen ⁷⁷ ,	risk of secondary		alcohol & cholesterol:	among patients with prior	lead to a reluctant
2000.	event, at home or	Medical	The lack of data on	heavy drinking; equivocal	attitude' to encouraging
	in hospital.		secondary stroke	reports re smoking,	patients and their families
	(Denmark).		prevention, in particular	cholesterol levels & lipid	to 'live a more healthy life'
			lifestyle factors (smoking,	lowering; support for	(p70).
			physical activity & alcohol	reducing cholesterol with	

			consumption).	statins in patients with prior	
				acute myocardial infarcton;	
				people with HT, diabetes,	
				carotid stenosis (>70%) &	
				atrial fibrillation are at	
				higher risk of 2 nd stroke.	
Rodgers et	Stroke patients	RCT	Stroke education:	Patients and carers	SEP improved patient
al. ⁷³ , 1999	admitted to North	n= 240 (patients)	To determine the	randomised to SEP scored	and carer knowledge
	Tyneside	+ 176 (carers)	effectiveness of a	higher on the stroke	about stroke & patient
	hospital, & their		multidisciplinary stroke	knowledge scale (patients,	satisfaction with some
	carers. 01/01/97-	MDT/community:	education programme	p=0.02; carers, p=0.01).	components of stroke
	01/12/98.	Nurse, PT, OT,	(SEP) for patients and their	Patients in SEP were more	services, but no
		SLT, SW, DN,	carers versus standard	satisfied with the stroke	association was found
		psychologist,	care. 1st session in	information they received	with perceived health
		stroke club,	hospital, a further 6	(p=0.004). No differences in	status.
		carers	sessions, 1/week, post-	emotional or functional	
		associations.	discharge.	outcomes between groups.	
			Outcome measure: patient		
			and carer perceived health		
			status (SP-36) at 6 months		
			post-stroke. Plus stroke		
			knowledge scale		
			(unspecified); Hospital		

			anxiety & depression scale		
			(HAD).		
Duncan et	Minimally-	Randomized	Exercise:	Improvements in Fugl-	Demonstrated that an
al. ⁷⁹ , 1998	moderately	controlled pilot	1) to develop a home-	Meyer upper & lower	RCT of a post-stroke
	impaired stroke	study.	based exercise programme,	extremity scores; minimal	exercise programme is
	patients who had	n=20	8 weeks supervised, 4	improvements in Berg	feasible; measures of
	completed		weeks independent; 2) to	balance & MOS-36	neurological impairment
	inpatient rehab &	Physical	evaluate the ability to	compared to controls. No	& lower function showed
	were 30-60 days	therapists	recruit & retain stroke	significant differences in	most benefit; effects on
	post-stroke, at		patients; 3) to assess the	Lawton Scale of IADL,	upper extremity dexterity
	home; recruited		effects of the interventions	Barthel or Jebsen test of	& functional health status
	from Kansas City		used.	hand function.	were equivocal.
	Stroke Study,				
	USA.		Outcome measures: Fugl-		
			Meyer motor assessment,		
			Barthel, Lawton Scale of		
			Instrumental ADL, MOS-36,		
			functional assessments of		
			balance & gait (Berg		
			balance scale, 10m walk,		
			6m walk, Jebsen test of		
			hand function).		

ii. Health promotion and primary prevention of stroke

Evidence from RCTs has shown that effective management of hypertension reduces the risk of cardiovascular morbidity and mortality ⁵³. Health promotion interventions can have beneficial effects when targeted at people with hypertension and other high risk groups, although they result in only small changes in risk factors and mortality in the general population ⁵⁴. Both WHO²⁸ and the Stroke Association² advocate primary prevention measures such as exercise and smoking cessation.

iii. Health promotion post CHD/CVD (secondary prevention)

Ebrahim's & Davey Smith's systematic review assessed the effectiveness of multiple risk factor intervention in reducing total mortality, and mortality from CHD, and supported secondary intervention on the grounds that people at highest risk were more likely to benefit and are motivated to change⁵⁴. The *NSF* for CHD ⁵⁰ also recommends lifestyle interventions at a secondary level.

A follow up of high cardiovascular risk patients who partook in an RCT of health promotion concluded that benefits were still evident, although smaller, at 5 years⁵⁵. Ebrahim and Davey Smith's response was to comment:

'in people at relatively low risk of cardiovascular disease....studies have failed to provide any convincing evidence of a reduction in morbidity or mortality from individual or family advise on health behaviour modification. Consequently, retartgeting currently fruitless health promotion activity at secondary prevention should offer much better value for money' ⁵⁶ (p185).

iv. Primary prevention of stroke and coronary heart disease

As already discussed, the control of hypertension and other conditions is well established for the medical management of cardiovascular disease and can be cost-effective ⁵⁷.

Rigorous studies of lifestyle interventions were scarce. One systematic review concluded that reduction or modification of dietary fat intake reduced cardiovascular mortality by 9% (odds ratio 0.91; confidence interval 0.77-1.07) and cardiovascular events by 16% (0.84; 0.72-1.99) ⁵⁸. Encouragingly, trials with at least two years' follow up provided stronger evidence of protection from cardiovascular events (0.76; 0.65-0.90) ⁵⁸.

v. Health promotion with older persons: forming healthy habits

The fundamental importance of providing good-quality information was stressed in several articles ⁵⁹⁻⁶⁰ in addition to tailoring advise to cultural and educational needs ⁶⁰. One qualitative study of 40 stroke patients highlighted the importance of quality interaction between patient and professional: 'being respected and valued contributed to a favourable outcome' ⁶¹ (p20).

Studies of exercise programmes were difficult to compare due to different programme structures, duration, and outcome measures. One RCT that

considered frequency of exercise found that after ten weeks those who participated in twice weekly exercise demonstrated improvement in health related QOL whereas the once/week group did not ⁶².

More comprehensive programmes combined exercise with advice on healthy living. Participants in a wellness programme for older persons, run by occupational therapists x1/week over 6 months, demonstrated scores on the SF-36 that were significantly higher in vitality, social functioning and mental health ⁶³.

A similar RCT, also therapist led, consisted of weekly sessions concerning health related behaviours. Patients were assessed at the end of the 9-month treatment phase, and then 6 months later. Of the 285 people who completed both assessments (79%) the authors concluded that approximately 90% of the gains observed at 9 months were still evident at follow up ⁶⁴.

vi. Occupational therapy and health promotion

Occupational therapists used a wide range of innovative methods to promote health. Physical activities included yoga, tai chi, dance, exercise and aerobics. Life skills covered diet, stress management, meditation, transport, smoking cessation, voluntary work and socialisation ⁶³⁻⁶⁸.

However there were wide disparities in estimates of the proportion of therapists who view health promotion as part of their role and actively incorporate it into

practise. Of those who do, the vast majority intervene at a secondary or tertiary level focusing on individual behaviour ^{40,66,69}. Although therapists recognised the need for health promotion training ⁴⁰⁻⁴¹ they do not always recognise the need for a strong theoretical grounding⁷⁰⁻⁷¹.

In addition, ongoing debate surrounded the potential for OTs to enable, mediate and advocate for change at a primary level (population based upstream approach), versus secondary/tertiary intervention. The latter has been interpreted as supporting the medical model in its downstream, reductionist, approach which fails to adequately address the wider socio-economic determinants of health 3,35-36,46

Two studies specifically refer to OTs as part of a team led programme ⁷²⁻⁷³. The key points of these, and other relevant studies, were as follows:

- a) The studies supported an association between lifestyle factors and improved QOL ⁷³⁻⁷⁴. It is important to at least provide advise on diet, exercise, smoking and alcohol ^{73,75-78}. There was insufficient evidence to support an association with morbidity or mortality.
- b) Whether advice leads to behavioural change depends on factors such as mode of delivery and duration ^{75-76,79}. It is important not to assume that giving people advise necessarily translates into behavioural change or functional gains ⁷².
- c) The rehabilitation setting presents an ideal opportunity for addressing

- lifestyle factors with patients and their families ⁷⁸ and this can be continued in community settings post-discharge ^{73,79}.
- d) Patients can be motivated to engage in home-based exercise programmes although therapists may need to adapt the programme to the environment ⁷⁹. Frequency and duration appear to be key factors ⁶² and Greenlund et al. point out that the Stroke Council of the American Heart Association recommends 30-60 minutes of moderate exercise at least 3-4 times/week ⁷⁵. Further evidence in favour of frequent exercise is Redfern's observation that nearly one-fifth of patients who were not obese at the time of stroke were obese 1 year later ⁷⁶.

Most of those patients who made lifestyle changes did so within the first 3 months⁷⁶ supporting Guilmette's idea of a teachable moment⁷⁸. Older patients were no less likely to make behavioural changes than younger persons ⁷⁶. Duncan advocates for the inclusion of individuals with mild stroke because they may have subtle impairments, be physically de-conditioned, and have a high prevalence of cardiovascular risk factors that are 'potentially modifiable' with exercise ⁷⁹ (p2055). In addition stroke patients are at risk of other cardiovascular diseases and many of the risk factors for stroke are 'well established' for other types of cardiovascular diseases ⁷⁷ (p70).

Only one study reported high attendance rates (93%) and all participants completed the programme ⁷³. The authors attributed this to having addressed

potential barriers in advance, supportive staff and participants forming their own social networks.

Finally, but perhaps most important, is the association between maintaining hope, an increased ability to cope and improved QOL for both patient and families. To achieve this a consistent team approach is crucial ⁷⁴.

vii. Opportunities and barriers

The literature considered this either from the perspective of professionals, or from that of patients. Two studies considered the experiences of Canadian women with disabilities and divided their perceived barriers into internal and external, or structural, factors. Hall et al's study (2003) examined the barriers to healthy eating and identified fatigue, finances and motivation as the most common ones⁸⁰.

Odette took a broader approach looking at wellness barriers, using focus groups⁸¹. Similarly to Hall, barriers were categorised into individual factors (energy, fatigue, physical limitations, time) and external factors (lack of money, physical environment, social policies).

With regards to professionals, Scriven & Atwal discuss the potential for occupational therapists to adopt an upstream primary preventative role with the general population, but acknowledge this as rather idealistic because therapists

are under pressure of time and have 'urgent and more traditional professional roles to perform' ⁸² (p427).

Three studies identified corresponding barriers for therapists: insufficient resources (time, funding, staff levels); managers'/doctors' lack of awareness or support; inadequate knowledge; and difficulty justifying time spent 'just talking' to patients ^{41,66,83}.

A key structural barrier was the absence of a coherent strategy for promoting health compounded by lack of follow-up post-discharge ^{47,70}. The 'greatest benefit would be a seamless approach to health promotion, with hospitals and primary care working in partnership' ⁴⁷ (p93).

4.2 Methodological limitations of the studies

Limitations were that:

- a) Other factors may have confounded the apparent association between lifestyle behaviours and outcome. For example socio-economic context was only addressed by one study ⁷³.
- b) Studies used different and non-comparable measures of healthrelated QOL, well-being and functional status which were not stroke specific and in some cases non-standardised.
- c) Results based on what people reported they did, rather than what they actually did ⁷⁵ may be inaccurate and skewed by recall bias. In addition

- acquisition of knowledge, as measured by questionnaire⁷², does not necessarily equate with behavioural change.
- d) Studies failed to outline criteria for mild, moderate or severe impairment, or to assess the impact of co-morbidities. Conclusions for one stroke category may not be applicable to all.
- e) External validity may have been compromised by the use, or exclusion, of specific sub-groups⁷³. For example community studies excluded people in residential care who often suffer poorer health.
- f) Some studies had a small sample size $^{73-74,79}$ with high drop outrates 72 , and minimal long-term follow up 73,79 .
- g) Programme durations may have been too short and frequency of sessions inadequate. For example a 12-week exercise programme once/week ⁷³ is unlikely to make significant gains given the slow nature of recovery post-stroke.
- h) Questionable statistics, for example the use of multiple t-tests 73-76,79.

CHAPTER 5: INTERVIEW RESULTS

Nine interviews were conducted, from eleven requests. Respondents had worked in the stroke service for up to 10 years and were all senior 1 clinicians or above, including clinical specialists and managers. Professions included OT (4), physiotherapy (PT), speech and language therapy (SLT), dietetics, nursing and medicine. Some respondents worked across sites while others were based in one unit. Interviews lasted from 35-60 minutes. Respondent numbers are shown in brackets.

5.1 The stroke care pathway

Stroke patients are admitted to the Acute Stroke Unit (ASU) at the Royal London Hospital. The multi-disciplinary team (MDT) reviews the diagnosis, initiates early medical treatment, identifies and manages complications, and guides early rehabilitation. Patients either go straight home with or without supported discharge schemes, or are transferred to the Stroke Unit at MEH.

The 20-bedded Stroke Unit opened in 2001 to cater for stroke patients over 65 years, and now has a few beds allocated to younger people. At the time of interviewing there was an equal male: female ratio; patients spoke Punjabi (1), Malay (1), Vietnamese (1) and English (17), more usually there are at least 3-5 Bengali speakers. Length of stay varies from a few weeks to several months; most patients are discharged with community follow-up; some are transferred to

residential/nursing homes. They can also be referred from the ASU or the Stroke Unit to the Community Stroke Team (CST) for home-based rehabilitation for up to 12 weeks.

All respondents stated that the service was based on RCP Stroke Guidelines⁷ although seven stated that they were not documented: 'there's no official policy or care pathway documented within the stroke services that I'm aware of' (6). Each profession has its own guidelines which fit with the overall RCP policy. The OT department uses the College of OT/RCP guidelines⁹⁵ and is developing a care pathway across the OT stroke service.

5.2 What did respondents think about health promotion post-stroke?

Eight respondents expressed the conviction that all patients ought to receive information and education on lifestyle factors and that such information could improve their QOL. This was regarded as still relevant to those being discharged to nursing or residential care: 'it doesn't matter where you go, you still need to maintain QOL' (6).

One respondent (3) stated that there is insufficient evidence, in respect to hard outcomes such as reduced mortality, to justify providing psycho-social interventions at a secondary level. However benefits in terms of QOL and patient satisfaction were acknowledged, as well as it being 'politically important because

politicians like it'. Lifestyle intervention could be justified if integrated into existing structures.

The same respondent stated that 'in economically deprived populations with very little control over their own lives the strategy of giving people advice, counselling and choice, the sort of middle class approach, is going to be ineffective and will simply make politicians feel good but won't make any difference.' From a public health point of view the respondent thought it more important to target and treat hypertension in high-risk groups through primary care, combined with simple central government initiatives like reducing salt in processed food.

The other respondents expressed a 'common sense' approach⁸⁴ that if lifestyle measures are effective in primary care they must also be relevant to patients post-stroke. Health promotion appeared integral to improved QOL and the link was regarded as obvious: 'If you're not well you can't do the things you were doing therefore you have reduced QOL' (6). This implied that lifestyle advice directly impacts on QOL through increasing functional abilities and 'everyone should be promoting health and focussing on [the patient] going back to a life that they can enjoy' (8).

The terms QOL, health and well-being were used interchangeably and the dividing line between health promotion and rehabilitation appeared unclear. Health promotion 'is something everyone should be doing anyway...it's quality of

care and evidence based from what all the policies are saying, trying to prevent, being proactive rather than reactive and 'it's just taking that a step further forward and being more knowledgeable about it ourselves' (6).

Two respondents were clear that prevention should be considered 'right from the acute stage' (1) as behaviours 'take time to change' (8) and are 'all part of and included in the stroke pathway' (1). Although 'it needs to be in everyone's mind, the lifestyle people have come from' it may not be appropriate to discuss with the patient 'until they've started to understand what's happened to them...and that it's not just going to go back to normal' (8).

All were agreed that family involvement was essential for reasons such as 'bringing the wrong foods into hospital, not encouraging them once they're home to do things' and learning that their relative is 'not just a disabled person, they're still a person who needs to be involved in life' (8)

Two respondents (8,9) noted that since the Stroke Unit has started to accept younger patients it is increasingly important to address lifestyle issues, and that the CST is well placed to reinforce such advice once patients return home.

5.3 Interventions

a) What health promotion interventions did respondents routinely carry out?

Replies varied from: 'very little, if at all', other than providing information on community resources (2); using the smoking cessation clinic (3); and providing 'one-off' verbal advice about 'smoking, healthy eating, exercise and healthy use of alcohol' (3). The common theme was that health promotion was 'generally probably covered but not specifically addressed' (6) through trying to incorporate lifestyle advise into daily rehabilitation sessions such as cooking, communication groups and improving mobility.

b) Who provides information, how and when?

All staff considered a multi-disciplinary approach, with 'a role for each member of the team' (4), essential to deliver a 'consistent and appropriate message' (8). However all but one respondent said this was not happening: 'it's all quite ad hoc' (3).

The Stroke Unit runs a patient information group over seven weeks, but respondents were divided over whether this was really rehabilitation rather than health promotion. Sessions covered information about stroke, rehabilitation, swallowing and communication difficulties, emotional and psychological issues, and preparation for discharge. Other methods of delivery included leaflets;

referral to the dietician 'usually a couple of days before discharge which is usually too late and not the right time'; verbal advise; and informally included in treatment. Six respondents thought sessions specifically on health promotion would be beneficial. One respondent noted that people learn in different ways so different methods should be used (9). The need 'to keep repeating information' (1) was noted by three respondents.

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Three respondents acknowledged that one-off information, verbal or written, is unlikely to be effective, whereas two were more optimistic: 'it might be okay for some people' (2) depending on insight and motivation (2,5). When pressed for different methods of delivery seven respondents suggested practical opportunities such as cooking sessions.

When asked about tailoring information to different people's needs the Bengali health advocate was cited as invaluable for interpreting in therapy sessions, and the information group for which aphasia friendly material had been developed (1,4). A bilingual leaflet 'The Bengali way of healthy eating', was used by one respondent (4). Five respondents mentioned the need to address the requirements of its younger stroke patients.

Eight respondents said they were not aware of documentation of lifestyle advise in the integrated clinical notes. If such advice was routinely documented it could be audited through the Sentinel Audit or OT specific audit. Three respondents suggested a questionnaire would be beneficial to ascertain patient's views, one suggested focus groups and a fifth suggested objective measures such as weight and cholesterol levels.

b) What lifestyle activities did respondents identify?

The following suggestions were made of activities respondents would like to carry out, or thought could be beneficial:

Table 3: Lifestyle activities identified by respondents

Activity	Number of respondents
Smoking cessation	9
Exercise programmes or classes in the community	6
Healthy eating, cooking skills, understanding food labels, special diets (eg. diabetic)	5
Access to community facilities	5
Falls prevention	4
Sensible use of alcohol	3
Stress management/relaxation	2
Advocate for basic environmental changes	2

5.4 Opportunities and ideas for health promotion

All respondents thought there were opportunities for promoting health with which all staff could be involved. Several respondents said that additional training could

be added into the existing internal training programme. Six respondents thought at least one session should be dedicated to health promotion and eight were keen for health promotion to play a larger role.

a) In the Stroke Unit

Seven respondents thought the patient education group was an ideal forum for lifestyle advise on nutrition, weight management, exercise, smoking cessation, alcohol management, stress/relaxation, falls prevention and community access. Secondly, family meetings were cited by three respondents as an appropriate way of targeting the family as 'you've got the whole team agreeing' and 'then everyone's heard it all at the same time' (8). However one respondent thought there were too many other issues to address (5).

Thirdly, all respondents thought it realistic and cost-effective to incorporate healthy living skills into existing therapy sessions. Suggestions included:

- dietary advice, cooking skills, understanding food labels and 'supermarket safaris' to incorporate falls prevention (2,4,5,6,8,9).
- home exercise programmes and initiating exercise groups or individual sessions with local gyms (2,7,8).
- Stress management and relaxation (2).

Finally, six respondents suggested co-ordinated use of written material on discharge, as an adjunct to other methods, and tailored to specific needs.

b) Post-discharge

At present patients receive a medical appointment 6 weeks post-discharge. Six respondents would like to review patients at the same time and include lifestyle issues. They would also like to develop a clinic where patients can be recalled at 6 and 12 months post-discharge. Initially this would 'give us information.... are people fulfilling their best capacity at home and if not what can we do?' (7). Patients who had a mild stroke/TIA were included.

Suggestions also included linking up with community groups, for example running education sessions or exercise classes at the Mosque, Women's Centre and day centres (2,8). Two respondents thought lifestyle advice would be taken more seriously if endorsed by community leaders. Also suggested was a group run in Silheti or Bengali, a young person's group, and employing someone to organise, co-ordinate and raise funds (9). Another innovative suggestion was to link with local school health promotion activities (3).

Housing problems were recognised but seen as a Housing/Social Services issue. Three respondents thought it realistic to advocate for individual clients to 'have their lift fixed' (2) or to install lifts so that clients are not housebound (2,6,8).

5.5 Barriers to health promotion

a) Patient characteristics

All respondents highlighted physical, cognitive and communication difficulties post-stroke compounded by pre-existing co-morbidities; in addition 'a lot of advise is inappropriate or hard to follow' post-stroke (3). Three respondents commented how difficult it is for patients to change long established patterns of behaviour in the relatively short period of intervention, made more difficult by reduced insight, denial, motivation and not being ready for change.

All but one respondent commented on cultural differences, that 'the Bengali view of health is sick people are cared for' and it is 'difficult to challenge' the passive role many elders adopt (7). In addition health promotion may be low priority 'when for some people the focus isn't on getting better but on 'can I keep my position as head of the family?" (2). In addition limited availability of interpreters was a barrier for community staff.

b) Staff culture and priorities

Seven respondents, referring to the Stroke Unit, expressed concerns regarding ward staff's commitment to, and understanding of, rehabilitation and health promotion. Comments included:

'I don't see that there's even the concept of preventative care and health promotion' (2)

'As a team we don't think long term about that person's lifespan and the quality of that life' (8)

'I think it just tends to pop into their head once in a while' (5)

'the basics are not dealt with, here it's just survival never mind quality of life' (8)

Those who tried to incorporate aspects of lifestyle advise into their daily sessions felt hindered by lack of time, lack of team support or consistent approach, pressure for early discharge and late referral.

c) Systemic barriers

Four respondents expressed dissatisfaction with hospital food: it was 'unappetising' (5); 'unbalanced... I've never seen anyone having fruit salad' (4); and contradicted the healthy eating message staff were trying to impart. 'If food is revolting relatives will bring in food and the easiest stuff is a chocolate bar' (8).

Eight respondents commented that rehabilitation achievements were seldom maintained once patients were transferred to residential or nursing homes, thus lifestyle goals stood 'even smaller chance of success' (7).

Two respondents commented on the lack of interplay between stroke and primary care services while seven respondents commented on lack of follow up post-discharge: 'when people go home we don't really know what happens to

them...there's no real data on QOL or dependency levels.... we need to find that out because then we could tailor education' to individual needs (2).

d) Wider barriers

All respondents referred to multiple environmental barriers that are particularly difficult for older people such as negotiating wheelchairs outside and obtaining disabled parking badges. Seven respondents stated that sub-standard and over-crowded housing, especially affecting Bengali families, significantly impaired the ability to maximise rehabilitation gains on discharge, with negative consequences for QOL. Two respondents commented that gyms and health centres have not adapted their facilities for people with disabilities.

Two respondents highlighted that the perceived threat of crime/racism deterred community access: 'there are Bengali people on predominantly white estates who feel threatened and stay indoors... and vica versa' (3).

5.6 Implementing national policies at a local level

Policies regarded as relevant included *NSF for Older Persons*⁹, NICE guidelines on nutrition and various Essence of Care benchmarks. Three respondents thought government policies too generic to be relevant.

One respondent commented 'every single one out at the minute has something related to more proactive than reactive intervention and getting in early' (6). The

Government cannot ascribe to every situation so policies 'give you general vision and then you need to work out how to implement that into your service' (6). Another respondent commented that the Tower Hamlets health and well-being strategy¹⁸ 'could be twisted to mean whatever you want it to mean' and that gave leeway to argue for funds for specific projects (7).

Suggestions for local policy changes included funding for a TIA clinic, coordinated primary prevention by GPs, a proper neurovascular service, improved community facilities, tackling environmental barriers and changing the emphasis of services from an illness model to a preventative focus.

Finally one respondent thought the Tower Hamlets 10 year plan was an excellent opportunity to lobby for policies that force health centres and gyms to cater for people with disabilities as currently places 'just assume it's the able bodied that are going to use their resources' (7).

6.1 Key findings

a) Interventions and the contribution of OTs

A range of health promotion interventions were identified by respondents for promoting health post-stroke and are endorsed by the literature. They can be categorised as follows:

- 1. Exercise/physical activities.
- 2. Life skills education including dietary advise, weight management, smoking cessation, alcohol control, stress management/relaxation, sleep hygiene, communication skills and falls prevention.
- Information about stroke, rehabilitation, access to community facilities, transport, carer support and stroke groups.

Although respondents considered that health promotion was often overridden by other priorities this did not undermine their conviction that interventions are worthwhile. The Stroke Unit and CST provide some information and life skills education. The ASU does not appear to address health promotion because patients are either too acute or go home rapidly. The particular contribution of occupational therapy appears to be its holistic approach that views health promoting activities within the context of daily life, family, home environment and

to a certain extent the wider socio-economic context. However OTs did not claim they had a monopoly on health promotion.

It is unclear from the literature which ingredients of a health promotion programme result in which specific health gains. It could be beneficial to validate each component, for example what type of exercise results in improved endurance? But the essence of health promotion is its holistic approach, and taking one factor out of context could be inappropriate and ignore interactions between them. It has been argued that secondary prevention aimed at modifying behaviour post-stroke is ineffectual and therefore low priority. However lack of evidence does not equate with evidence that such efforts are misguided ⁷⁷. The literature clearly supports primary prevention including lifestyle modification for CHD ⁸⁵⁻⁸⁶, CVD ^{50,54-55,57-58,87-88}, healthy older persons ^{4,14,64,89} and for secondary prevention for CHD ^{50,85-86,88}. Moreover various policies recommend lifestyle modifications post stroke ^{4,7,39,49}.

Rather than excluding people on the grounds of insufficient evidence, an ethically dubious position, secondary prevention should be viewed as an intensification of primary prevention. Until it has been properly implemented it cannot be evaluated nor discounted. As one respondent commented: 'if it makes a difference post cardiac event why not post-stroke?' (7). Even the respondent who stated that lifestyle intervention had minimal impact on mortality and morbidity identified benefits in terms of staff morale, patient satisfaction and QOL:

'What we want to achieve is better QOL ...but you can also achieve it by improving community access and by looking at other interventions in the broader sense of health promotion, like falls prevention as well as advising people about their diet' (3).

b) Opportunities

The literature supports strategies to target high risk individuals, in particular identifying and treating those with hypertension^{7,50,53,88} combined with population based measures ^{56,87}. One respondent was primarily in favour of population measures (3) while others also supported lifestyle interventions in secondary care: 'most people won't try to change until they've had a scare' (9).

As already mentioned, one respondent stated that in an economically deprived borough such as Tower Hamlets, where people have 'little control over their own lives' targeting individual behaviour 'won't make any difference....is labour intensive and not cost effective' (3). However all other respondents expressed the view that 'it's relevant to everyone, it should just be what we do, part of our day-to-day interventions... we can't solve everything' (6) and suggested a range of strategies to incorporate healthy living skills into rehabilitation, with family support and inclusion. As it is in the first 3 months post-stroke that people appear most motivated to make changes this window of opportunity should not be overlooked ⁷⁶.

Evidence of effectiveness for psycho-social models of behavioural change is inconsistent ⁹⁰. Probably the more basic models, such as the health belief model,

theory of planned behaviour or transtheoretical model are too simplistic to address the complex needs of this client group. However social cognitive theory acknowledges environmental influences on health behaviour, in particular social norms ⁹⁰. Interestingly three respondents, in relation to diet, stated that including the family helped develop new patterns of behaviour.

For success in a hospital setting the philosophy of promoting health and well-being needs to be embedded into the structure and policies of the organisation. Staff must be committed to the approach and able to deliver it competently ⁹¹. In the context of stroke services, the philosophy needs to be integrated into rehabilitation, and delivered in a consistent manner, across sites, from admission to post-discharge follow-up. Crucial to success is using a combination of strategies, tailored to individual need, and orientated towards what the patient should do, not just know ^{14,96}.

Vital for sustainability is 'a more proactive and systematic approach' ⁴⁹ (p4) to enhance the patient's social support network ⁹⁶ and co-ordinate efforts with primary care services, community groups, the voluntary sector, and even local businesses ^{4,15-16,18}, for example one respondent planned to approach local gyms (7).

c) Empowerment, choice and personalisation

There is a clear link between client-centred practice and health promotion as 'the concepts of partnership, communication, choice and power' are fundamental to both³ (p107). Government guidelines reflect this with recent emphasis on client-centred care ¹⁵, and increasing choice and personalisation of services so that people are empowered to make healthy choices ^{4,13-14}; but the term suffers from over-use and 'translating the rhetoric into action' can be problematic ⁹¹ (p39). Scriven makes the point that not only does the hospital system disempower its patients but that therapists also have limited autonomy³.

In addition an internal locus of control and belief in one's self-efficacy are regarded as important predictors to adapting new behaviours ^{90-91,93}: If people have 'a sense of ownership, there's a lot they can do' (5). This highlights the importance of giving patients information to help them regain some semblance of control, as this appears linked with better overall outcomes ⁶¹ and is policy supported ⁸⁹. Interestingly respondents made few references to depression or mood disturbances, which are common post-stroke and would impact negatively on motivation ¹⁰. This may be a reflection of the rarity of clinical psychology for stroke patients both locally and nationally¹¹. The importance of emotional well-being and social isolation for elderly and vulnerable groups has been acknowledged as an important and overlooked issue ¹⁴ and is certainly applicable to patients post-stroke.

Berg goes as far as to define health promotion in terms of 'being enabled through being the person I am, through information and knowledge and through hope and motivation' ⁹² (p25), which clearly links education with locus of control and motivation, essential ingredients for behavioural change.

Four respondents made references to advocating for patient rights. Also common was the view that 'we're not actually telling them what to do, it's negotiating, giving them advise and they can pick and choose' (5) and that information is 'relevant to everyone' so it is important to target the whole family (5).

e) Barriers

It may not be that secondary intervention per se is ineffectual but that its method of delivery, content and duration need attention. In addition individual patient barriers to change such as motivation, understanding, culture and readiness to change affect uptake. Four respondents expressed a similar view that:

'You've got to encourage people to do as much as they can... there may have to be a balance between what's vital and what's desirable, but you have to encourage people to do the vital bit' (7).

Similarly respondents identified professional barriers to health promotion, as already discussed, including attitude and understanding, time, staffing and resources, confirmed by the literature^{3,82}.

The Sentinel Audit ⁹⁴ (2002), government policy ¹⁵ and respondents all highlighted the need for staff education:

'I've got a fair idea of how to promote good health but it would be nice to have some more training, make sure that we're all giving the same information and what we're saying is correct' (4)

A clear barrier to working in partnership, explicitly stated by seven respondents, appeared to be the ward culture as already discussed. Indeed the Sentinel Audit commented on the need for an interdisciplinary care pathway and that 'nurses should be an integral part of the rehabilitation team'⁹⁴ (p8), implying an existing lack of cohesion. Thus to create a health promoting environment ¹⁵ was seen as desirable but almost unobtainable:

'I think health promotion is very important but from where I'm standing someone being able to get to the toilet ... is where my attention is at the moment, so at the moment the basics are not dealt with, here it's just survival never mind QOL' (8).

6.2 Strengths and weaknesses of this study

Obviously limited conclusions can be drawn from the opinions of just nine respondents, as expressed at one point in time. Additionally the process of analysis is vulnerable to researcher bias and/or misinterpretation. The lack of rigorous research, in particular systematic reviews and RCTs, means that causality can not be established between lifestyle interventions and health gains.

In addition health questionnaires 'are bound to make value-laden assumptions about the nature of well-being' ⁸⁴ (p144) which would reduce reliability. But a number of the points gain cogence from their origin in a front line service in a particularly challenging district and are supported by official policies.

6.3 Implications for policy and further research

Most obvious is the need to establish why certain ethnic minority groups experience an increased incidence of stroke, and the relationship to SES. With regards to interventions, more research needs to be conducted on what ingredients constitute a successful programme and how they interact; what health gains can be expected and how long-term they are. For patients post-stroke there are major problems with community access that impinge on, for example, the ability to exercise, which need addressing at a policy level. Insufficient attention has been paid to training staff on the philosophy and practicalities of health promotion, thus interventions may appear ineffectual due to poorly thought out content and delivery. Obtaining the views of patients and carers should be a priority, whatever the difficulties.

CHAPTER 7: CONCLUSION & RECOMMENDATIONS

The majority of people who experience stroke are over-65, often with comorbidities including cardiac disease. There is evidence that health promotion is effective with older persons, and post-cardiac event, and it is supported by generic national and local guidelines ^{4,18,25}. National, local and occupational therapy guidelines ^{7,39,49} recommend lifestyle interventions in combination with medical management post-stroke.

The resource implications and opportunity cost of incorporating health promotion into existing rehabilitation and staff training are small whereas the benefits may be considerable in terms of QOL and healthcare savings. Occupational therapists are particularly well placed to facilitate lifestyle changes through rehabilitation due to their focus on occupation, a holistic approach and many values shared with those of health promotion.

The potential impact on quality of life for both patients and their families/carers justifies incorporating lifestyle education into the ethos and organisation of specialist stroke units. However, successful implementation of a settings based approach requires a co-ordinated and committed team approach that facilitates patients, and their families, to make informed choices.

The following recommendations for THPCT are considered relevant to all stroke services:

7.1 Staff training and a culture of promoting health and well-being

All disciplines across the Stroke Service require a basic understanding of the philosophy, theory and implementation of health promotion in order to develop a culture where promoting health is foremost and behaviour changes are sustained over time. Training can be incorporated into existing in-service programmes.

7.2 Assessment of lifestyle factors

It is important to assess modifiable risk factors early in treatment as it takes time to develop new behaviours. Where the Single Assessment Process (SAPS) is used, the questions on 'disease prevention' and 'personal care and well-being' need reformulating to optimise relevance.

7.3 Maximising opportunities

Education and advice needs to be continually reinforced with patients and their families. Opportunities include:

• Family or discharge meetings where the whole MDT are present.

- Expanding patient and family education sessions to include advise on topics such as exercise; smoking cessation; sensible drinking; nutrition, diet and weight management; falls prevention; and community access.
- Therapists' reviews of patients post-discharge could be combined with standard medical review 6 weeks post-discharge. In addition a therapy led out-patient clinic should be developed to review their needs at 6 and 12 months post-discharge. Patients who were discharged with minimal therapy input after a mild stroke or TIA also need follow up as subtle deficits may have been be overlooked.

7.4 Multi-medium delivery incorporated into rehabilitation

Information and advice must be delivered in different ways to suit different learning styles and ensure that patients and their families can apply the advise to their daily life. Methods include written information, verbal information, videos, and participatory sessions delivered in a 1:1 or group setting.

7.5 Precise targeting of the message

Information must be tailored to the individual and their family, addressing the reality of their social environment and other competing priorities/demands. Advice has to be realistic, practical and tailored to cultural and language requirements and communication/cognitive difficulties.

7.6 Consistent service wide written information

Written information is a useful adjunct to other methods if delivery is co-ordinated and the content discussed with patients and their family. The Service needs to assess what leaflets are already circulating, their appropriateness, and whether they need to include other languages, large print, aphasia friendly, or age appropriate varieties.

7.7 Monitoring effectiveness

When, how and by whom lifestyle advice is given needs to be documented in patient notes for the purpose of auditing. A variety of methods can be used to elicit the views of patients and families.

7.8 Community access, partnership and participation

- The Service should develop formal links with community organisations to increase awareness and understanding of stroke, encourage inclusion of disabled persons, and promote primary prevention.
- Health professionals, especially OTs, have a duty to advocate for basic rights, such as repairing or installing lifts so that patients are not housebound for prolonged periods of time.
- Services need to develop partnerships with local leisure facilities, health centres or gyms to increase access and opportunities for people with disabilities.

7.9 The wider context

Other recommendations that clearly came out of the interviews but are beyond the remit of this report relate to the need for:

- A co-ordinated GP led strategy for primary prevention of stroke, initially through targeting high-risk groups and ensuring that blood pressure is monitored and controlled.
- A proper neurovascular service so patients can be medically assessed and investigated within seven days, as nationally recommended ^{7,11}.
- Funding for research to investigate why the risk of stroke is much higher in the Bengali population in the UK.

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APPENDICES

- A. List of websites
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- J. Ethics approval, COREC
- K. Ethics approval, THPCT

Appendix A: List of websites

Organisation	Website
Barts and the London PCT	www.bartsandthelondon.nhs.uk
Association of Occupational Therapists	
in:	
America	www.aota.org
Australia	www.ausot.com.au
Canada	www.caot.ca
New Zealand	www.nzaot.com
UK	www.cot.org.uk
Department of Health	www.doh.gov.uk
East London and City Health Authority	www.nelondon.nhs.uk
(ELCHA)	
EPPI-Centre	www.eppi.ioe.ac.uk
The King's Fund	www.kingsfund.org.uk
National Research Register	www.nrr.nhs.uk
NHS Health Scotland	www.hebs.com
National Institute of Clinical Evidence	www.nice.org.uk
Centre for Evidence-Based	www.pedro.fhs.usyd.edu.au
Physiotherapy (PEDro)	
Stroke Association	www.strokeassociation.org.uk
Tower Hamlets PCT	www.thpct.nhs.uk
World Health Organisation	www.who.int

Appendix B: Interview schedule

London School of Hygiene & Tropical Medicine Department of Public Health and Policy Keppel Street, London WC1E 7HT

Tel:

e-mail: @lshtm.ac.uk



INTERVIEW GUIDE

Study title:

To consider opportunities and barriers to the involvement of Occupational Therapists in promoting health and well-being in patients who have had a stroke.

1. Introduction (3 mins)

Explain about confidentiality and study objectives

Aim

This study aims to evaluate the role of occupational therapists in promoting health and well-being with older persons who have experienced a stroke in a local London Borough.

Objectives:

- 1. Outline the philosophy of occupational therapy, its role in the treatment of stroke and its cogence with health promotion.
- 2. Identify key demographic features of the London Borough of Tower Hamlets and describe policies and the care pathway for patients who have had a stroke.
- 3. Review evidence on the effectiveness of health promotion with stroke patients and in particular the contribution of occupational therapists.
- 4. Gather key informant views from the local Primary Care Trust (PCT) regarding health promotion post-stroke including: opportunities, barriers and evidence of effectiveness.
- 5. Produce recommendations concerning health promotion post stroke. These will primarily be for the local Trust but may also be extended to professional bodies.

2. Warm up & background (3 mins)

Before we start please tell me briefly about the characteristics of the unit you work in and your role within the service.

Prompt:

- What are your main roles within the team?
- What size is your caseload, how often do you see patients, length of stay and follow up
- Patient demographics: age, gender, ethnicity, SES, employment status.

3. Could you describe the care pathway for stroke patients (5 mins)

Generic care pathway for all professions?

What's profession-specific?

Are you aware of any policy statement around HP by your professional body?

Do you have any client groups that have special care needs? (ethnic minorities)

4. Are there any activities that you, [your staff*] routinely carry out with patients and/or their families that you think constitutes health promotion rather than rehabilitation? (8 mins)

*For non-clinicians

Prompt:

- Exercise/physical activities
- Dietary advise/nutrition
- Weight management
- Smoking cessation
- Alcohol management
- Stress management/relaxation
- Sleep hygiene
- Medical management (Doctor only)

For any named activity, ask:

- Who provides this information, and why? Is the message consistent/co-ordinated?
- How is such advice delivered? And when?
- To whom: patient and/or family?
- How is advice/intervention tailored to the specific needs of client groups named above?
- How do you monitor effectiveness?
- How do you prioritise time given to health promotion against other needs?

5. (IF no activities provided ask), Do you think there is a need for HP with this client group? (8 mins)

How do you think patients could benefit?

Approximately what percentage of patients and/or their family do you think would benefit?

For the patients you think it's relevant to:

- Who do think would be best placed to provide this information, and why?
- What information/activities would you include in HP?
- How would such advice be delivered? And when?
- To whom: patient and/or family?
- How would the advice/intervention be tailored to the specific needs of any client group?

6a. What opportunities are there for promoting health within the various client groups? (10 mins)

Prompt:

As for question 4. Focus on OT's potential

What about people in who don't return to their own homes?

6b. What are the barriers to health promotion within the various client groups? (10 mins)

Prompt

As for question 4. Focus on OT's potential.

What HP activities would you like to do that you are presently unable to carry out? Why not? Culture, language, resources/time, knowledge etc Patients who don't return home.

7. (If there is time) How have you tried to implement the more recent government policies such as the NSF for Older People/LT conditions and Choosing Health? (5-10 mins)

Prompt:

Have you received any additional resources/money to implement these guidelines?

What is your interpretation of government policy in relation to:

- the specific needs of this client group? (ethnic mix, low SES).
- increasing informed choice & independence
- training needs for staff
- 30mins/day exercise target
- 5 A DAY
- weight management
- smoking cessation/ chewing beetle nut

Are there any Health Trainers, Sports and Exercise specialists, community matrons in TH?

What concerns do you have about equity/equality of access or use of services

8. (If there is time) Are there any policy changes that you would like to see implemented at a local level, and how? (5-10 mins).

Prompt:

Develop from answers to 6a, 6b & 7.

Thank and close

Appendix C: interview request letter

London School of Hygiene & Tropical Medicine Department of Public Health and Policy Keppel Street, London WC1E 7HT

Tel

e-mail: @lshtm.ac.uk



Date:	
Address:	
Dear,	

Re: interview request for research on health promotion with patients who have experienced a stroke.

I am undertaking research on the role of occupational therapists, within the inter-disciplinary team, in promoting health and well-being in patients who have had a stroke. I would like to arrange an interview with you in order to obtain a practical and up-to-date perspective on this topic. The interview will be semi-structured and last approximately 30 minutes. I have enclosed an information sheet that gives further details of the study. Questions will focus on:

- Your experience of, and views about, promoting health with patients who have had a stroke.
- What opportunities are there for promoting health with this client group?
- What are the barriers to promoting health?
- What policies are you aware of that support health promotion with this, or similar, client groups?
- · What policy recommendations would you suggest?

If you are able to take part please could you suggest a time that suits you, week commencing 10th or 17th July, if possible.

Yours sincerely,

Appendix D: Information sheet, part 1

London School of Hygiene & Tropical Medicine

Department of Public Health and Policy

Keppel Street, London WC1E 7HT

Tel e-mail:



PARTICIPANT INFORMATION SHEET: PART 1

Study title:

To consider opportunities and barriers to the involvement of Occupational Therapists in promoting health and wellbeing in patients who have had a stroke.

Invitation paragraph:

You are being invited to take part in a 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 time to read the following information carefully. Talk to others about the study if you wish.

- Part 1 tells you the purpose of the study and what will happen to you if you take part.
- Part 2 gives you more detailed information about the conduct of the study.

Ask the principal researcher, Vanessa Abrahamson, if anything is unclear or you would like further information. Please take time to decide whether or not you wish to take part.

Purpose of the study:

Stroke is the third biggest cause of death in the UK and the largest single cause of severe disability (Department of Health, 2006). Occupational Therapists play a vital role in post-stroke rehabilitation however to date there are no national guidelines on health promotion with this client group. This study plans to evaluate the role, and effectiveness, of occupational therapy in health promotion with patients who have experienced a stroke. Although the focus is primarily on occupational therapists the study aims to consider their role within the wider context of the inter-disciplinary team.

This is a student research project and results will be written up as part of an MSc Public Health dissertation.

Why have I been chosen:

The individual experience of practitioners will add understanding and depth to the subject area and the key concepts that emerge can be compared and contrasted to the literature. This will help develop recommendations on the role of occupational therapy, within the inter-disciplinary team, in health promotion for stroke patients.

Do I have to take part?

No. Participation is entirely voluntary and you have the right to withdraw, without reason, at any stage. If you agree to participate you will be asked to read and sign a consent form before the interview begins. You will be given a copy of this, and the information sheet, to keep.

What happens to me if I take part?

As part of this investigation a semi-structured interview, lasting approximately 30 minutes, will be carried out by the principal researcher, Vanessa Abrahamson. To help accurately represent your views, it would be helpful to record the interview, but only with your consent.

What are the possible disadvantages of taking part?

The interview will take place during work time.

Investigator's name and contact details:

[details removed]
MSc Public Health Student
London School of Hygiene & Tropical Medicine
Keppel Street, London WC1E 7HT

Department of Health (2006) www.doh.doh.gov.uk [Accessed 17 Feb 2006]

If the information in Part 1 has interested you and you are considering participation, please continue to read the additional information in Part 2 before making any decision.

Appendix E: Information sheet, part 2

London School of Hygiene & Tropical Medicine

Department of Public Health and Policy

Keppel Street, London WC1E 7HT

Tel e-mail:



PARTICIPANT INFORMATION SHEET: PART 2

What will happen if I don't want to carry on with the study?

If you decide to withdraw at any point during the study, all information obtained during the interview will be destroyed.

What if there is a problem?

If you have any concern about any aspect of the study you should speak to the principal researcher, Vanessa Abrahamson, who will do her best to answer your questions and alleviate concerns. If you remain unhappy and wish to complain formally you can do so through the NHS Complaints Procedure.

How will confidentiality be maintained:

This process is completely voluntary and your written consent will be obtained prior to taking part. Interview data will be recorded using a dictaphone and will be coded by number, not your name. It will be transcribed and analysed by the principal researcher, Vanessa Abrahamson. Once transcription is complete the tapes will be destroyed. The computer is password protected and any printed material will be stored in a locked draw accessible only to the researcher.

Information from interviews will not be attributed to a named professional: a generic term will be used rather than, for example, 'occupational therapist'. Each respondent will be given the option of not being quoted and material will be disposed of when all the work has been completed.

Who has reviewed this study?

This study has been approved by the Ethics Committee of The London School of Hygiene & Tropical Medicine and Tower Hamlets Primary Care Trust Ethics Committee.

Thank you very much for considering to participate in this study and taking the time to read the information sheets.

Appendix F: Consent form

London School of Hygiene & Tropical Medicine

Department of Public Health and Policy Keppel Street, London WC1E 7HT



CONSENT FORM

STUDY TITLE:

To consider opportunities and barriers to the involvement of Occupational Therapists in promoting health and wellbeing in patients who have had a stroke.

RESEARCHER'S NAME:

Vanessa Abrahamson

TO BE READ BY THE PARTICIPANT:

2. I understand that my participation is voluntary and that I may withdraw at any time, without giving a reason. 3. I have the right to refuse to answer any questions. 4. I agree to take part in this study. To be signed by participant, researcher and witness: Name: Signed: Date: Name: Signed: Date:		1.	I confirm that I have read and understand the information s 1.0) for the above study. I have had the opportunity to consinformation, ask questions, and have had these answered	sider the
4. I agree to take part in this study. To be signed by participant, researcher and witness: Name:		2.	• • • • • • • • • • • • • • • • • • • •	ay withdraw
To be signed by participant, researcher and witness: Name:		3.	I have the right to refuse to answer any questions.	
Name: Date: Signed: Date: Name: Date: Name: Date:		4.	I agree to take part in this study.	
Signed: Date: Name: Date: Signed: Date: Name: Date:				
Name:				
Signed: Date:	Sig	nec		Date:
Name:	Na	me:		
	Sig	nec	:	Date:
Signed: Date:	Na	me:		
	Sig	nec	:	Date:

Appendix G: Protocol

LONDON SCHOOL OF HYGIENE & TROPICAL MEDICINE

Department of Public Health and Policy

MSc Project Protocol 2005-2006: 1st draft

CANDIDATE NAME:

MSc PUBLIC HEALTH (HEALTH PROMOTION)

PROJECT TYPE: Health policy report

TITLE OF PROJECT:

To evaluate the role, and effectiveness, of Occupational Therapy in health promotion as part of rehabilitation with patients who have experienced a stroke.

BACKGROUND:

Occupational Therapy (OT) and Health Promotion

To date there are no U.K. national guidelines on the role of occupational therapy (OT) in health promotion. But 'without a clear focus on health promotion and disease prevention, we risk spending more and more of our increasingly scarce resources on care with less and less

return' (Canadian Association of Occupational Therapists, 2001, p1).

Occupational therapy traditionally focuses on the individual and does not challenge underlying causes of ill health. Spalding (1996) asserts that therapists do contribute to health promotion, albeit at an individual level. To encompass a broader definition would need a significant paradigm shift and major changes to training and practise (Scriven & Atwal, 2004). Scriven argues that the profession does have a responsibility to promote health and 'that involves a commitment to advocate and mediate for the provision of occupationally just

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policies' (2005, p96).

Cerebrovascular accidents (CVAs)/ Strokes

Stroke is the third biggest cause of death in the UK and the largest single cause of severe disability. Each year more than 110,000 people in England experience a CVA costing the NHS £2.8 billion (Department of Health, 2006). Occupational Therapists play a vital role in post-stroke rehabilitation.

London Borough of Tower Hamlets

The Borough has a high rate of strokes, especially within ethnic minority groups which make up 57% of the population, 33% of whom are from Bangladesh. The population is dense with high levels of poverty, poor housing and ill health (Learning and Skills Council, 2004).

Stroke Unit, Mile End Hospital, Tower Hamlets

The Stroke Unit was set up to provide specialist stroke rehabilitation to the local population. This was in line with the National Service Framework (NSF) for Older People which advised that all those who have a stroke should be cared for in a specialist unit, based on evidence of their effectiveness compared to non-specialist wards (Department of Health, 2001). Patients are transferred from the acute ward at the Royal London Hospital for rehabilitation and on discharge receive limited follow up from a community team.

Health Promotion after a stroke

Health promotion, if considered, is not approached in a systematic, co-ordinated or multidisciplinary manner. Opportunities exist for health promotion that may reduce the risk of further illness or disability. However there are many barriers for both patients and therapists (Scriven, 2005).

AIMS:

To examine the role of occupational therapy in promoting health and well being in patients who have experienced a stroke in a local London Borough

OBJECTIVES:

- 1. Briefly outline the incidence of strokes in the UK and the cost to the individual, their family and society.
- 2. Outline the philosophy of occupational therapy, its role in the treatment of stroke and its cogence with health promotion.
- 3. Identify key demographic features of the London Borough of Tower Hamlets and describe policies and care pathway for residents requiring treatment for stroke.
- 4. Collect and review literature on effectiveness of health promotion for stroke patients and in particular the contribution of OTs.
- 5. Gather key informant views from the local Primary Care Trust (PCT) regarding health promotion post-stroke including: opportunities, barriers and evidence of effectiveness.
- 6. Produce recommendations concerning health promotion post stroke. These will primarily be for the local Trust but may also be extended to professional bodies.

METHODOLOGY:

Literature review

The following sources will be searched for relevant articles to review:

- Databases: CINHAL, PubMed/Medline, Web of Knowledge, Cochrane.
- Search terms: CVA; stroke; occupational therapy/therapist; health promotion; well being; stroke prevention; allied health professionals; rehabilitation.

To find pertinent non-journal articles the following will be searched:

 Websites: Dept of Health; College of Occupational Therapists in UK, NZ, Australia and Canada; Tower Hamlets Primary Care Trust (THPCT); World Health Organisation; Health Development Agency; Stroke Association.

Inclusion criteria:

<u>Target population</u>: people who had a stroke and received rehabilitation. If insufficient material the remit will be widened to neurological conditions with long term disability. Rehabilitation facilities treating people post-stroke, preferably with direct reference to health promotion or well-being.

Types of study: primary focus will be on intervention studies with evidence that health

promotion is part of the rehabilitation process.

<u>Outcome measures</u>: review improved functional status; improved well-being; modified lifestyles; or behavioural changes that decrease the risk of further strokes.

Exclusion criteria

The review will be limited to English language documents. The review will primarily focus on randomised-control trials (RCT) but will be expanded to include observational studies if few RCTs are found.

Interviews

While the study will focus on OTs, they cannot be considered in isolation as health promotion must be part of an interdisciplinary process to have a lasting effect. The views of the consultant will also be sought as they play an important role in shaping the team's ethos. If ethical approval is granted, semi-structured interviews with key informants from the local Borough (purposive sampling), potentially:

- Occupational Therapist
- Consultant or GP
- Physiotherapist/ Dietician

Interviews would be tape recorded, transcribed and analysed with systematic coding.

ETHICAL CONSIDERATIONS:

- 1. Approval required from LSHTM ethical committee.
- 2. Approval required from local PCT ethical committee once draft protocol returned by LHSTM. See feasibility issues below.

FEASIBILITY ISSUES:

1. Mile End Hospital's ethics committee may not grant ethical approval at all, or within the time frame of the project. It will then be restricted to policy review without interviews.

Insufficient literature specific to health promotion, stroke rehabilitation and occupational therapy/allied health professionals. Remit will be widened to include health promotion carried out with people who have any long term disability.

REFERENCES:

Canadian Association of Occupational Therapists (2001) *Health Promotion and Disease Prevention: a foundation for the Canadian health system.* www.caot.ca [accessed Jan 10, 2006].

Department of Health (2006) www.doh.doh.gov.uk [Accessed 17 Feb 2006]

Department of Health (2001) *National Service Framework for Older People*. <u>www.doh.gov.uk</u> [Accessed Jan 10, 2006]

Learning and Skills Council (2004) *Tower Hamlets Borough Profile*. <u>www.</u> lsc.gov.uk/londoneast/partners/borough profiles.htmLBTHinfo.

Scriven, A. (2005) Health promotion practise: the contribution of nurses and allied health professionals. Basingstoke: Palgrave Macmillan.

Scriven, A. & Atwal, A. (2004) Occupational Therapists as primary health promoters: opportunities and barriers. *British Journal of Occupational Therapy* 67(10)424-429.

Spalding, N. (1996) Health Promotion and the role of occupational therapy. *British Journal of Therapy and Rehabilitation*, 3(3)143-147.

APPENDIX H: Risk assessment form

TAUGHT COURSE STUDENT PROJECT RISK ASSESSMENT FORM

- 1. This summary and assessment must address all planned aspects of the student project.
- 2. The student, in conjunction with the project supervisor, must complete both pages of the assessment.
- 3. Projects involving biological, chemical and radiological hazards must be referred to the Departmental Safety Supervisor.
- 4. Itineraries and contact details for projects involving work overseas must be lodged with the Teaching Office before the work starts.
- 5. This summary must be completed and all signatures obtained before work is started.
- 6. A copy of the completed form must be held by the Course Organiser, and retained for two years.

Full Name of Student	
Course	Public Health (Health Promotion)
Project Supervisor	
Project Title	To consider opportunities and barriers to the involvement of Occupational Therapists
	in promoting health and wellbeing in patients who have had a stroke.
Summary of project aims	To identify the role of occupational therapy in promoting health and well-being in people who have experienced a stroke. It will focus on a stroke unit in a local Borough but results should be relevant to the role of occupational therapy in health promotion, post-stroke. The objectives are to:
	 Briefly outline the incidence of strokes in the UK and the cost to the individual, their family and society.
	Outline the philosophy of occupational therapy, its role in the treatment of stroke and its cogence with health promotion.
	 Identify key demographic features of the London Borough of Tower Hamlets and describe policies and care pathway for residents requiring treatment for stroke.
	 Collect and review literature on effectiveness of health promotion for stroke patients and in particular the contribution of OTs.
	 Gather key informant views from professionals within the local Primary Care Trust (PCT) regarding health promotion post-stroke including: opportunities, barriers and evidence of effectiveness.
	 Produce recommendations concerning health promotion post stroke. These will primarily be for the local Trust but may also be extended to professional bodies.
Where will the project be carried out?	LSHTM, associated libraries and Mile End Hospital, Bancroft Road, Tower Hamlets, London.
Will the project involve work overseas? If yes, where?	No
Will the project involve significant work away from LSHTM sites? If yes, where?	No
Does the project involve work with pathogenic organisms / human blood / radiochemicals?	No
	If the Project involves work overseas:
Will the project be based in an established field station / research institute? If yes, where?	

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Is ethical approval required for the project? If yes, has it been granted?		
What supervision arrangements are proposed while away from LSHTM?		
Give the contact details for the off-site		
supervisor where applicable Will the project involve lone / isolated		
work? If yes, state how you can contacted while working.		
Has appropriate travel insurance been arranged?		
	nificant work within the U.K., away from the LSHTM sites in L	ondon:
Will the project be based in an established college / hospital etc? If yes, where?	Mile End Hospital, London Borough of Tower Hamlets	
Is ethical approval required for the project? If yes, has it been granted?	Ethical approval is required and will be applied for in due course)
Will the project involve home / personal visits?	No	
Will the project involve lone / isolated work?	No	
What supervision / contact arrangements are proposed while away from LSHTM?	Contact with supervisor, David Cromwell, as necessary	
	hogenic Organisms, Human Blood or Radiochemicals: (form Departmental Safety Supervisor *)	to be signed by
Organism/s to be used	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
Potential Routes of Infection		
Radiochemical/s to be used		
Laboratories where work with pathogens / radioisotopes will be carried out		
Disinfectants/Disposal		
Health Surveillance required		
	Additional Information:	
Are there any special needs, disability- related issues or other concerns that may need to be taken into account?	No	
Do these need to be considered in planning arrangements?	No	
Do these need to considered in relation to the location of the project?	No	
Do they impact on supervision arrangements?	No	
Do arrangements for access to specialist	No	
medical treatment need to be considered?		
Student Signature		Date
	I agree to comply with the relevant safety requirements	
Supervisor Signature		Date
	I agree that is a reasonable summary of the project	
M.Sc. Course Organiser Signature	1 agree that is a reasonable sammary of the project	Date

	agree that this project may proceed	
(-) - 1	agree that this project may proceed	Date

The table below must be completed for all potentially hazardous activities likely to be carried out during the project, especially those identified above.

Please refer to the Guidance Notes and School safety documentation for further information.

Project Title	To consider opportunities and barriers to the wellbeing in patients who have had a stroke.	involvement of Occupational Therapists in promoting health and
Procedure		Precautions
No potentially identified.	hazardous activities have been	

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Appendix I: LSHTM ethical approval

thics application form : MSc re	search project (MSC1)
	ed gniog et rodeng tuby il – ha a climedy collegeed us enclose else
For use of Research Ethics Cor	mmittee
No. 05/187 Date R	ec'd 7/4/06
Approved by SEL	
Date 10.4.06	. (Return to Phoebe Roome)
Name:	Email:
Vanessa Abrahamson	Vanessa.Abrahamson@lshtm.ac.uk
Course: Public Health (Health Promotion)	Supervisor: David Cromwell
	to the involvement of Occupational Therapi patients who have had a cerebrovascu
in promoting health and wellbeing in accident. The application must be approved by the Ethics Committee.	y your supervisor before it is submitted
in promoting health and wellbeing in accident. The application must be approved by	y your supervisor before it is submitted
in promoting health and wellbeing in accident. The application must be approved by the Ethics Committee.	y your supervisor before it is submitted
in promoting health and wellbeing in accident. The application must be approved by the Ethics Committee.	y your supervisor before it is submitted
in promoting health and wellbeing in accident. The application must be approved by the Ethics Committee. Signature of Supervisor	y your supervisor before it is submitted cedure document and guidance not othicsstuds.html before completing this
in promoting health and wellbeing in accident. The application must be approved by the Ethics Committee. Signature of Supervisor	y your supervisor before it is submitted cedure document and guidance not othicsstuds.html before completing this essing your application.

1.	Give an outline of the proposed project. Sufficient detail must be given to allow the Committee to make an informed decision without reference to other documents.
(Expand box to answer)	The project aims to investigate the role of occupational therapy in promoting health and well being in patients who have experienced a stroke. It will focus on a stroke unit in a local Borough but results should be relevant to the role of occupational therapy in health promotion, post-stroke. The objectives are to: 1. Briefly outline the incidence of strokes in the UK and the cost to the
	individual, their family and society.
	2. Outline the philosophy of occupational therapy, its role in the treatment of stroke and its cogence with health promotion.
	 Identify key demographic features of the London Borough of Tower Hamlets and describe policies and care pathway for residents requiring treatment for stroke.
	4. Collect and review literature on effectiveness of health promotion for stroke patients and in particular the contribution of OTs.
	5. Gather key informant views from professionals within the local Primary Care Trust (PCT) regarding health promotion post-stroke including: opportunities, barriers and evidence of effectiveness.
	 Produce recommendations concerning health promotion post stroke. These will primarily be for the local Trust but may also be extended to professional bodies.
2.	Is project a randomised trial?
	NO
3.	Will any biological samples be collected and if so specify which
	NO
4.	Specify the number (with scientific justification for sample size), age, gender, source and method of recruiting subjects for the study.
	Interviews with up to 8 key informants, sourced from a London Borough PCT (purposive sampling). The focus will be on occupational therapists but the views of other health professionals who are part of the inter-disciplinary team and potentially involved in health promotion will also be sought.

5.	State the likely duration of the project, and where it will be undertaken.
	Mid-June to mid-August 2006, at LSHTM.
6.	State the potential hazards, and their likelihood, that research subjects may be exposed to (these may include physical, biological and/or psychological hazards). What precautions are being taken to control and modify these hazards?
	Not applicable
7.	State the procedures which may cause discomfort or distress to participants and how these will be managed.
	Not applicable
8.	Specify how confidentiality will be maintained. When small numbers are involved, indicate how possible identification of individuals will be avoided.
	 Information from interviews will not be attributed to a named professional: a generic term will be used rather than, for example, 'occupational therapist' or 'physiotherapist'. Each respondent will be given the option of not being quoted. Taped interviews will be disposed of when all the work has been completed.
9.	State the manner in which consent will be obtained and supply copies of the information sheet and consent form. Written consent is normally required. Where not possible, explain why and confirm that a record of those giving verbal consent will be kept. Where appropriate, please state if and how the information and consent form will be translated into local language(s). See Guidance notes at http://intra.lshtm.ac.uk/reference/ethicsstuds.html
	Written consent will be obtained, in the presence of a witness and in accordance with LSHTM guidelines.
10.	Local Ethical Approval. Give details of local approval to be obtained (prior to the commencement of fieldwork).
	Obtain consent from the local Primary Care Trust.

APPENDIX J: Ethics approval, COREC

East London & The City HA Local Research Ethics Committee 1

North East London Strategic Health Authority
3rd Floor
Aneurin Bevan House
81 Commercial Road
London

Telephone: 020 7655 6612 Facsimile: 020 7655 6655

16 June 2006

Miss Vanessa Abrahamson Full time student London School of Hygiene & Tropical Medicine Keppel Street London WC1E 7HT

Dear Miss Abrahamson

Full title of study:

To evaluate the role, and effectiveness, of Occupational

Therapy in health promotion with patients who have

experienced a stroke. 06/Q0603/71

REC reference number:

Further to my recent telephone conversation dated 1st June 2006. These documents have been considered by the Chair, who has advised that the project is not one that is required to be ethically reviewed under the terms of the Governance Arrangements for Research Ethics

Committees in the UK.

You provided the following documents for consideration:

Document	Version	Date
Application	1	10 May 2006
Investigator CV	1	10 May 2006
Protocol	1	10 May 2006
Covering Letter	1	10 May 2006
Letter from Sponsor	1	02 May 2006
Peer Review	1	23 March 2006
Compensation Arrangements	1	02 May 2006
Participant Information Sheet: Participant Information	1	02 May 2006
Sheet 2		
Participant Information Sheet: Participant Information	1	02 May 2006
Sheet 1		
Participant Consent Form: Consent Form	1	05 May 2006
Interview request letter	1	05 May 2006
Checklist	1	10 May 2006
Peer Review	1	28 March 2006
CV Dr David Cromwell	1	01 December 2005

Although review by a Research Ethics Committee is not required, you should check with the R&D Department for Tower Hamlets PCT whether management approval is required before the project starts.

001000000					Pag
06/Q06 03/7	<u> </u>	Please quote	e this number o	n all correspondence	
Yours sincer	ely				
5 }	rate				
Sandra Gro					
Administrat	or				
Email: sandr	a.grote@nelo	ndon nho uk			
Linaii. Sanui	a.grote@nelo	ndon.mis.uk			
Copy to:					
[Optional: R	&D Departmer	nt for NHS care o	rganisation(s)]		
P. 444					

APPENDIX K: Ethics approval, THPCT

Tower Hamlets **NIS**

Primary Care Trust

Research and Development Office 2nd Floor, Burdett House Mile End Hospital Bancroft Road London E1 4DG Tel: 0208 223 8085

28.06.06

Fax: 0208 223 8084

Miss Vanessa Abrahamson London School of Hygiene & Tropical Medicine Keppel Street London WC1E 7HT

Dear Miss Abrahamson,

Full Trust Approval: To Evaluate the Role and Effectiveness of Occupational Therapy in health promotion, as Part of Rehabilitation with Patients Who Have Experienced a Stroke.

Thank you for forwarding full details of the above study. As Tower Hamlets PCT Lead for R&D I am writing to confirm full approval this research. I note that the East London & The City Local Research Ethics Committee has advised that the project(06/Q0603/71) is not one that is required to be ethically reviewed under the terms of the Governance Arrangements for Research Ethics Committees in the UK. Please note that any amendments to the protocol and/or informed consent procedures will require further approval from this Trust.

I note that London School of Hygiene & Tropical Medicine have confirmed that they will be taking on the role of Sponsor for this study, and have ensured that the appropriate indemnity or suitable financial arrangements are in place for compensation in the event of harm to research participants.

Approval is provided on the basis that you agreed to adhere to the Trust's requirements for Research Governance including:

- As Chief Investigator and/or Principal Investigator for this study you have familiarized yourself with, and accept the responsibilities commensurate with this position, as outlined in the Research Governance Framework (http://www.dh.gov.uk/PolicyAndGuidance/ResearchAndDevelopment/fs/en).
- Compliance with all policies and procedures of the Trust which relate to research, and with all relevant requirements of the Research Governance Framework.

- Co-operating with the Trust R&D Office's regular monitoring and auditing of all approved research projects, including complying with requests for written progress reports.
- Informing the Trust R&D Office immediately of any adverse events or complaints, from participants recruited from within this Trust, which occur in relation to this study.
- Co-operating with the Sponsor organisation in managing, monitoring and reporting of the research study.
- Sending a copy of any reports or publications which result from this study to the Trust R&D Office.

Failure to abide by the above requirements may result in the withdrawal of the Trust's approval for this research.

Please note that all researchers who will be interacting with patients or accessing identifiable patient information/data are required to hold an honorary contract with the Trust or the relevant Practice before they start work on this study. Details of the application process for Honorary Contracts with the Trust are available from Karen Jones (0208 223 8085 or Karen Jones@thpct.nhs.uk).

If you wish to discuss any aspect of this research with our R&D department, please contact Karen Jones in the first instance.

I wish you every success with this study.

Yours sincerely,

Dr. Keith MeadowsAssociate Director of R&D