London Stroke Nurse Competency Workbook



The London Stroke Nurse Competency Workbook has brought together the shared expertise and experience of stroke nurses from across the capital to produce a best practice reference document. The workbook provides hospitals with an effective tool for training nurses to a highly consistent and competent level.

Creating committed and competent stroke nurses across London



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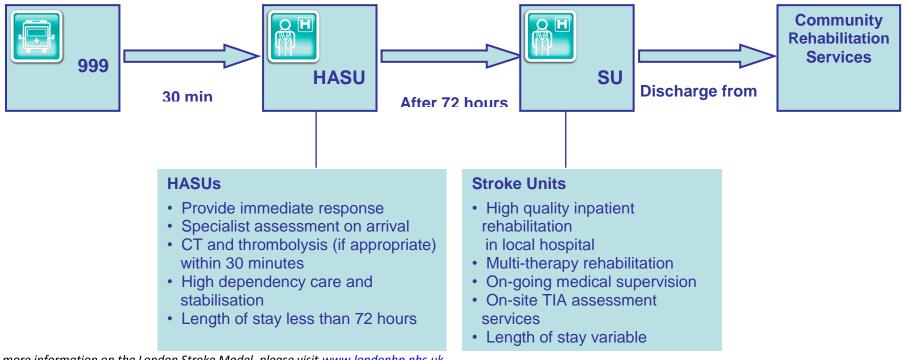
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An introduction to the London Stroke Model

It is important to understand the stroke pathway that operates in London as patients can be admitted to both a Hyper Acute Stroke Unit (HASU) and as Stroke Unit (SU) whilst in the acute phase of care. The London Stroke Model became fully operational in July 2010 and has since transformed the way stroke care is delivered in the capital. The London Stroke Strategy ensures all suspected stroke patients in Greater London are admitted to a HASU in the capital where they receive 24/7 access to specialised stroke staff, availability of immediate CT scanning and emergency treatment. Once established at the HASU (up to 72 hours) patients are transferred to one of the 24 SUs where they receive longer term care and rehabilitation.



For more information on the London Stroke Model, please visit www.londonhp.nhs.uk



Introduction to the Workbook

The 'London Stroke Nurse Competency Workbook' was developed as a result of the 'London Hyper Acute Stroke Unit (HASU)Workbook' which was created in 2011 by HASU nursing leads from across the capital. After realising the success of the HASU workbook, Stroke Unit (SU) nursing leads were inspired to compile competencies relevant to nurses working on their own units.

A development group was created in late 2011 to produce the acute rehabilitation competencies that are included within this workbook. The group reviewed each section individually, sourcing competencies from original documentation and creating new competencies in areas that had not been covered (all material take from existing stroke literature has be referenced within this workbook). The competencies received input from highly qualified and experiences nurse specialists as well as consultation from physiotherapists, speech and language therapists, occupational therapists, dieticians and psychologists from a variety of hospitals and inpatient settings.

During the development phase, it was felt necessary to amalgamate the HASU and SU competencies into on single workbook so that it can be used to training nurses to a highly consistent level, ensuring patients would experience quality care in whatever acute London setting they are admitted. It is at the discretion of the assessor and trust to identify which competencies they feel would be beneficial and appropriate for their nurses to be trained in. the work book can also be used to train and assess nurses who rotate between SUs and HASUs and give a comprehensive list of the skill set they require.

The competencies were updated in 2016 with input from nursing staff across London from both HASUs and SUs to incorporate changes in practice.



Assessment process

Nurses will be supported by an assessor (typically a Band 6 nurse) to work through the competency document and achieve a minimum standard of 'Competent' for each section (as per Benner Assessment Criteria listed on the next page). Assessors may wish to encourage individuals to achieve 'Proficient' or 'Expert' level in certain competencies where appropriate. It is recommended that nurses complete the competencies within a 12 month time frame however it is recognised that some individuals may take longer to complete them. Appropriate training according to local policy should be completed prior to staff using medical devices.

The assessment process provides the opportunity for the 2 'Formative Assessments' before a final 'Summative Assessment' is signed off. Summative doesn't require 2 formative assessments i.e. candidates must do at least one formative assessment but two if needed. 'PR' is an abbreviation of personal rating (i.e. the individual taking the competencies) and AR= assessors rating.

Name	Stroke Unit	Start Date
Assessor's name and designation	Notes	Signature and date



Benner Assessment Criteria

Standard	Criteria
Expert (E)	Experts are able to focus on a relevant part of a situation without conscious consideration. They will use their intuition based on vast experience to follow a course of action which they 'know' is appropriate. An expert practitioner develops a feel for situations and vision of possibilities. Not all members of the multiprofessional teams are capable of reaching this level- it could be assisted by techniques such as critical incident analysis.
Proficient (P)	Proficient practitioners use their expertise to critically analyze and evaluate situations as a whole. They are able to identify the more important elements of a situation and make decisions based on a broad perspective.
Competenct (C)	Competent practitioners are consciously aware of long-term effect of their actions. They are able to plan the most satisfactory outcome of a situation and take the appropriate action to achieve the planned aims. This requires conscious, abstract, analytical contemplation of the situation.
Advanced Beginner (AB)	Advanced beginners demonstrate a degree of flexibility in their performance and interpret the rules to meet the needs of the situation, maintaining throughout the safety of the patient, colleagues, others and self. They are able to relate to the current situation, based on prior learning.
Novice (N)	Novices have no experience of the situation they find themselves in and they operate by closely following rules laid down by others. They perform a series of tasks without understanding, or referring to, the context within which they are operating.

Benner P (1984) "From Novice to Expert" Menlo-Park: Addison Wesley Publishing Company



Competency 1: Acute neurological care

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		PR	AR	Sign	PR	AR	Sign	PR	AR	Sign	
				&			&			&	
Competency	KSF			date			date			date	
1.1 Stroke Knowledge											
1.1.1 Describe the gross anatomy of the brain	C2, C5, HWB4										
1.1.2 Describe the blood supply of the brain	C2, C5, HWB4										
1.1.3 Describe the vascular territories and symptoms that may occur if blood supply is altered	C2, C5, HWB4										
1.1.4 Can differentiate the different types of stroke, the pathophysiology of these and the relevant risk factors	C2, C5, HWB4										
1.2 Neurological care											
1.2.1 Demonstrates a full set of neurological observations appropriate to stroke patients	HWB6										
1.2.2 Demonstrates knowledge and understanding of correct limb power grading e.g. MRC grading according, to local policy	HWB6										
1.2.3 Can list signs, symptoms and physiological changes of neurological deterioration and increase frequency of neurological observations accordingly	HWB6										
1.2.4 Can describe causes of neurological deterioration	HWB6										
1.2.5 Can list and describe common stroke mimics	HWB2										
1.2.6 Demonstrates knowledge of ABCDE systemic assessment of the acutely ill patient	C3, HWB2										





Competency 1: Acute neurological care

FORMATIVE ASSESSMENTS SUMMATIVE ASSESSMENT PR AR Sign PR AR Sign PR AR Sign & & & Competency KSF date date date HWB6, HWB7 1.2.7 Can describe the association between stroke and venous thromboembolism and can demonstrate knowledge of prevention and management of thrombo-embolic events according to local policy **1.2.8** Demonstrates knowledge and use of the local early warning score C3, HWB6 system and can describe escalation of patient deterioration according to local policy 1.2.9 Can explain all stroke impairments including hemisensory loss and HWB2 neglect and manage appropriately 1.2.10 Can identify confused patients and initial management according to HWB2 local policy 1.2.11 Can explain treatment and management of both haemorrhagic and HWB7 ischaemic strokes 1.2.12 Can correctly prepare a patient for neurosurgery as per local policy HWB5 1.2.13 Can list common post-stroke investigations and describe their HWB8 indications 1.2.14 Is able to devise appropriate nursing care and management of a HWB2 patient with a hemicraniectomy according to local policy



Competency 2: Thrombolysis and thrombectomy care

			FORM	1ATIVE A	ASSESSN	∕IENTS			MMATI SESSME	
		PR	AR	Sign &	PR	AR	Sign &	PR	AR	Sign &
Competency	KSF			date			date			date
2.1 Thrombolysis										
2.1.1 Can list stroke thrombolysis inclusion and exclusion criteria	C2									
2.1.2 Can describe stroke assessment tools such as NIHSS and undertake training according to local policy	HWB2, C2									
2.1.3 Can describe the action of thrombolysis and the policies and protocols for its safe administration	HWB6, HWB7									
2.1.4 Can describe current thrombolysis research and ongoing trials	HWB1									
2.1.5 Can show that they know who to inform about a thrombolysis call and be able to liaise with all appropriate staff, e.g. radiographer, A&E and ward regarding bed availability	C1, C3									
2.1.6 Can describe patient consent and the Mental Capacity Act	C1, HWB3									
2.1.7 Can show good communication skills with knowledge and understanding of how to communicate with an aphasic patient	HWB1									
2.1.8 Can describe thrombolysis related complications and the emergency management of these	HWB1, HWB7									
2.1.9 Can state local and national guidelines for the monitoring of thrombolysed patients	HWB1, HWB2									
2.1.10 Can describe the importance of administering thrombolysis as quickly as possible following the onset of stroke symptoms	HWB7									
2.1.11 Can calculate the thrombolysis dosage and how to administer the bolus and infusion	HWB7									
2.1.12 Can demonstrate the preparation of a patient for thrombolysis e.g. appropriate IV access	HWB7									
2.1.13 Can show evidence of attendance of immediate life support training	HWB7									



Competency 2: Thrombolysis and thrombectomy care

			FORM		SUMMATIVE ASSESSMENT					
		PR	AR	Sign &	PR	AR	Sign &	PR	AR	Sign &
Competency	KSF			date			date			date
2.1.14 Can state and initiate appropriate anti-hypertensive agents post-thrombolysis, as per local policy	HWB7									
2.1.15 Can show how to evaluate the effectiveness of thrombolysis therapy	HWB7									
2.1.16 Can show rationale for avoidance of invasive procedures 24 hours following thrombolysis	HWB7									
2.1.17 Can state when to commence anti-platelet therapy	HWB7									
2.2 Thrombectomy	<u>. "</u>					•				
2.2.1 Describe the evidence for thrombectomy in stroke including the importance of rapid treatment	C2									
2.2.2 List inclusion and exclusion criteria for thrombectomy procedures	C2									
2.2.3 Describe and manage post-thrombectomy complications	HWB7									
2.2.4 Devise appropriate nursing care of a patient following a thrombectomy	HWB7									
2.2.5 Discuss when anti-platelet therapy should commence after thrombectomy	HWB7									





Competency 3: Respiratory care

		_	FORM		SUMMATIVE ASSESSMENT					
		PR	AR	Sign	PR	AR	Sign	PR	AR	Sign
	KSF			&			&			&
Competency				date			date			date
3.1 Describe the anatomy and physiology of the respiratory systems including airway patency, ventilation and gas exchange	HWB6F, HWB7F									
3.2 Demonstrate the ability to assess airway patency and is able to identify and manage partial and complete airway obstruction	C2, HWB6F, HWB6, HWB7									
3.3 Demonstrates knowledge of the local/Trust policy regarding the administration of oxygen	HWB6F									
3.4 Can list the signs and symptoms of hypoxia and respiratory distress and understand the difference between type 1 and type 2 respiratory failure and their management	HWB6F, HWB7, HWB6									
3.5 Can describe common causes of respiratory deterioration in acute stroke	HWB7F									
3.6 Can describe the indications for using nebuliser therapy; discussing whether nebulisers are given with oxygen, air or both	HWB6, HWB7F									



Competency 4: Cardiovascular care

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	KSF			&			&			&
Competency				date			date			date
4.1 Explain the anatomy and physiology of the heart including the	HWB2									
electrical activity and the circulatory pathways within and from the heart										
4.2 Explain the signs and symptoms of cardiovascular impairments e.g.	HWB2									
palpitations, peripheral oedema, tachycardia, shortness of breath, chest										
pain										
4.3 Provide the rational for continuous cardiac monitoring and correctly	HWB6									
set up bedside monitoring including alarm settings and target ranges										
4.4 Demonstrate the ability to distinguish normal from abnormal ECG	HWB6									
trace and respond appropriately, particularly to atrial flutter or fibrillation										
4.5 Discuss life threatening cardiac arrhythmias (asystole, ventricular	HWB6									
tachycardia, ventricular fibrillation, pulseless electrical activity)										
4.6 Describe atrial fibrillation and the relationship to stroke	HWB1									
4.7 Explain the nursing management of a patient with atrial fibrillation	HWB6									
4.8 Discuss the normal pulse range and rhythms	HWB1									
4.9 Identify the normal blood pressure range for adults and in acute stroke	HWB2									
patients based on available clinical guidelines										
4.10 Explain the rationale for frequent blood pressure recordings in acute	HWB2									
stroke										
4.11 Describe cerebral perfusion in acute stroke	HWB1									





Competency 4: Cardiovascular care

			FORM		SUMMATIVE ASSESSMENT					
		PR	AR	Sign	PR	AR	Sign	PR	AR	Sign
	KSF			&			&			&
Competency				date			date			date
4.12 Discuss the indications and contraindications of the following cardiac	HWB1									
drugs:										
- Glyceryl Trinitrate - Warfarin and new oral										
- Labetalol anticoagulants										
- Low molecular weight heparin - Digoxin										
4.13 Can list and explain the symptoms of the following cardiac related	HWB2									
conditions and be able to take emergency action when these conditions										
arise:										
- Reduce cardiac output - postural hypotension										
- hypotension - syncopal event										
4.14 Demonstrates knowledge of the immediate actions which should be	HWB6, HWB7									
taken in cardiovascular deterioration and explain the nurses' management										
role										
4.15 Can discuss and demonstrate appropriate actions during cardiac	HWB6									
arrest										
4.16 Can explain the rationale for active blood pressure lowering in	HWB2				_					
haemorrhagic stroke										



Competency 5: Management of sepsis and infection control

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	KSF			&			&			&
Competency	NO.			date			date			date
5.1 Describe the management of pyrexia according to local policy for stroke patients	C2, C3, C5, HWB4, HWB5									
5.2 Explain why pyrexia is detrimental in acute stroke	C2									
5.3 Explain the signs of sepsis according to local policy	C1, C2, C5, HWB5, HWB6									
5.4 Explain the signs of systemic inflammatory response syndrome and its importance in relation to sepsis	C2, HWB6									
5.5 Describe the common causes of sepsis in acute stroke patients	C2, C3, C5, HWB6									
5.6 Describe the initial management of sepsis	C2, C5, HWB6, HWB7									
5.7 Explain repatriation protocols with regards to infection control	C2, C3, C5, HWB6									
5.8 Explain local policy/protocols regarding infection control	C2, C3, C5, HWB6									





Competency 6: Diabetes care

		FORMATIVE ASSESSMENTS SUMM/ ASSESSI								
		PR	AR	Sign	PR	AR	Sign	PR	AR	Sign
	KSF			&			&			&
Competency				date			date			date
6.1 Describe how the body utilises glucose	C2, HWB6									
6.2 Describe the difference between Type 1 and Type 2 diabetes	C2, C5, HWB2									
6.3 Explain the normal range of blood glucose	C2, C5, HWB2, HWB7									
6.4 Describe the effects of hyperglycaemia on the acute stroke patient	C2, C5, HWB2, HWB6									
6.5 Describe how to manage hyperglycaemia or hypoglycaemia according to local protocol	C2, C3, C5, HWB2, HWB5, HWB7									
6.6 Provide diabetes medication including insulin at prescribed times (ensure that this is appropriate to the start & finish times of enteral nutrition)										
6.7 Describe the stress response in relation to glucose levels	C2, C5, HWB6, HWB7									



Competency 7: Nutrition and hydration

			FORM	1ATIVE A		SUMMATIVE ASSESSMENT				
		PR	AR	Sign &	PR	AR	Sign &	PR	AR	Sign &
Competency	KSF			date			date			date
7.1 Swallowing			l				I.		l	
7.1.1 Describe the normal swallow including oral, pharyngeal and oesophageal stages	C2, HWB4									
7.1.2 Demonstrate knowledge of the underlying conditions which may results in abnormal swallowing	C2, C3, HWB2									
7.1.3 Describe signs of abnormal swallowing	C2, C3, HWB2									
7.1.4 Demonstrates ability to follow and complete the local swallow screen effectively and accurately document the outcome and action plan	C2, C3, C5, HWB5, HWB6, HWB7									
7.1.5 Demonstrates knowledge of when to terminate a swallow screen	HWB3, HWB6, HWB7									
7.1.6 Demonstrates when swallow rescreen may be indicated	C3, HWB2, HWB5									
7.1.7 Can describe risks associated with swallowing difficulties	C3, HWB2, HWB3									
7.1.8 demonstrate awareness of alternative routes and methods of administering medicines	C4, HWB2, HWB5									
7.1.9 Demonstrate the ability to use facilitative techniques to optimise patient's independence	HWB5, HWB7, C5, C1									
7.1.10 Briefly explain the psychological, social and emotional impact of swallowing problems	C1, C6, HWB2, HWB6									
7.1.11 Describe the importance of providing ongoing education to the person and family regarding swallowing and nutrition needs and interventions	C4, C5, HWB1, HWB4, HWB6									



Competency 7: Nutrition and hydration

			FORM	1ATIVE A	ASSESSN			SUMMATIVE ASSESSMENT		
Competency	KSF	PR	AR	Sign & date	PR	AR	Sign & date	PR	AR	Sign & date
7.2 Feeding and nutrition										
7.2.1 Demonstrates ability to prepare food and liquids to all stages of thickening or modified consistencies according to SLT advice	C1, C3, HWB2, HWB4, HWB7									
7.2.2 Demonstrates ability to monitor a patients' nutritional intake, perform a nutritional risk assessment and initiate appropriate action	C3, HWB6									
7.2.3 Explain the nutritional needs of the stroke patient and understands why these may be affected following a stroke	C2, C5, HWB2, HWB4, HWB6									
7.2.4 Demonstrate effective oral assessment and oral care and describe planning oral care	C2, C5, HWB1, HWB5									
7.2.5 Demonstrate an understanding of the ethical considerations of nutrition and hydration	C1, C2, C3, C5, HWB6									
7.2.6 Can list feeding aids and adaptations	C5, HWB6									
7.3 Naso-gastric (NG) tube insertion and nutrition										
7.3.1 Demonstrates an awareness of the implications of refeeding syndrome	C2, C3, C5, HWB4, HWB5, HWB7									
7.3.2 Demonstrates the ability to insert a NG tube, confirm placement and troubleshoot problems according to local guidelines	C2, C3, C5, HWB5, HWB6									
7.3.3 Explain the local policy with regards to positioning, management and long term & short term care of NG tube/PEG/RIG	C2, C3, C5, HWB5, HWB7									
7.3.4 Explain the legal and ethical issues with regards to NG feeding including nasal bridles and use of hand restraints	C2, C3, C5, HWB5, HWB6,									
7.3.5 Explain legal and ethical issues regarding long term tube feeding for patients and their families	C1, C3, C5, HWB5, HWB6,									





Competency 7: Nutrition and hydration

			FORM	1ATIVE A	ASSESSI	MENTS			MMAT SESSME	
		PR	AR	Sign	PR	AR	Sign	PR	AR	Sign
	KSF			&			&			&
Competency				date			date			date
7.4 Hydration and fluid balance										
7.4.1 Demonstrate an ability to assess patients' hydration status	C2, C5, HWB6									
7.4.2 Demonstrate how to complete a fluid balance chart accurately	C2, C5, HWB6									
7.4.3 Demonstrate strategies which ensures patients' optimal fluid intake	C2, C5, HWB6									
7.4.4 Describe the different intravenous fluids that are used	C2, C5, HWB6									
7.4.5 Describe the risk of glucose hydration to patients who have had a stroke	C2, C5, HWB6									
7.4.6 Describe the acceptable hourly urine output for an individual	C2, C5, HWB6									
7.4.7 Describe the physiological risks associated with low urine output	C2, C5, HWB6									
7.4.8 Describe the signs of dehydration	C2, C5, HWB6									
7.4.9 Describe the signs and symptoms of fluid overload	C2, C5, HWB6									



Competency 8: Bladder and bowel continence

	_		FORM	1ATIVE A	ASSESSN	MENTS			MMAT SESSME	
Competency	KSF	PR	AR	Sign & date	PR	AR	Sign & date	PR	AR	Sign & date
8.1 Continence			l						l	
8.1.1 Describe the basic anatomy and physiology of the elimination systems	C2, C5, HWB6									
8.1.2 Explain how stroke can affect continence	C2									
8.1.3 Describe other factors that may contribute to difficulties with continence	C2									
8.1.4 Explain the importance of maintaining privacy and dignity in relation to continence	C2, C5, C6									
8.1.5 Can demonstrate a knowledge of medications that might improve management of bladder and bowel function	C2, C5, HWB5, HWB6, HWB7									
8.1.6 Explain the effect of incontinence on moving and handling, pressure care, positioning, skin integrity and ADL	C2, HWB5									
8.1.7 Explain the cultural, psychological, social and emotional impact of incontinence	C2, C6, HWB6									
8.1.8 Describe the reasons that referrals would be made to other services and the referral process	C2, C6, CHW4, HWB5									
8.2 Bowel management										
8.2.1 Describe and demonstrate bowel assessment	C2, C5, HWB6									
8.2.2 Describe and demonstrate the use of the Bristol Stool Chart and per Trust policies	C2, C5, HWB6									
8.2.3 Demonstrates the ability to implement a care plan based on finding from assessment to prevent constipation and promote faecal continence in collaboration with the MDT	C2, HWB2, HWB5, HWB6, HWB7									
8.2.4 Can describe the use of laxatives in bowel management	C2, C5, HWB5,									





Competency: Bladder and bowel continence

			FORM	IATIVE A		SUMMATIVE ASSESSMENT				
		PR	AR	Sign	PR	AR	Sign	PR	AR	Sign
	KSF			&			&			&
Competency				date			date			date
8.3 Bladder management										
8.3.1 Describe the different types of urinary incontinence/ urinary retention and appropriate treatments for each type	C2, C6, HWB7									
8.3.2 Can identify products and devices in the management of urinary incontinence	C2, HWB7									
8.3.3 Demonstrates how to carry out a bladder assessment identifying impairments and disabilities	C2, C5, HWB6									
8.3.4 Demonstrates the ability to write/implement a care/treatment plan based on findings from assessment to manage and promote urinary continence	C2, HWB2, HWB5, HWB6, HWB7									
8.3.5 Demonstrate the ability to perform bladder scan and document and interpret the results accurately	C2, C5, HWB6									
8.2.6 Demonstrate catheter insertion using aseptic technique and complete documentation as per local protocol	C2, C5, HWB6, HWB7									
8.2.7 Demonstrate catheter care as per RCN guidance (2012) and local Trust policy	C2, C5, HWB5, HWB6									
8.2.8 describe the signs and symptoms of urinary tract infection	C2, C5, HWB6									
8.2.9 Can explain to patients how and why their stroke has affected their continence so that they can make an informed choice regarding treatment and management	C2, C6, HWB1, HWB4									



Competency 9: Rehabilitation after stroke

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	KSF			&			&			&
Competency				date			date			date
9.1 Describe and implement the local rehabilitation care pathway	C4, C5									
9.2 Explain the roles of the members of the MDT	C1, C5									
9.3 Is able to describe and discuss the pathway options available to the person and carer so they are able to make informed decisions about their rehabilitation journey	C1M HWB2									
9.4 Demonstrate understanding of the contribution of the nurse in formal goal setting within the MDT	HWB2, HWB7									
9.5 Demonstrate the understanding of keyworking and how to act in the role when necessary	C1, C3, C5									
9.6 Demonstrate the ability to enable patients to identify their own goals and to negotiate, the SMART steps that will enable their achievement	C1, HWB4									
9.7 Discuss how to enable the person to evaluate their goals and recognise small improvements and progress	C1, HWB4									
9.8 To explain the factors that can limit engagement and participation in rehabilitation	HWB2, C3									
9.19 Explain the principles of risk assessment in rehabilitation and implement local policies where required	HWB2, C1, C1, C6									
9.10 Provide evidence need, seek advice and refer individuals for further specialist assessment	C1, HWB2									
9.11 Explain how to incorporate rehabilitation goals into daily activities to help promote recovery and independence	C2									





Competency 10: Fatigue after stroke

			FORM	IATIVE A	ASSESSI	MENTS			IMMAT SESSME	
Competency	KSF	PR	AR	Sign & date	PR	AR	Sign & date	PR	AR	Sign & date
10.1 Explain fatigue after stroke and its impact and prevalence	C2, HWB2									
10.2 Describe the physiological and psychological changes that are associated with fatigue after stroke	C2									
10.3 Demonstrate knowledge of the management of fatigue	C2, HWB5									
10.4 Discuss the relationship between fatigue and depression	C2, HWB1									
10.5 Discuss the impact of fatigue on quality of life and work	C2, C6									
10.6 Demonstrate understanding of the patient, family and carers' perspective of fatigue after stroke	C2, C6, HWB4									
10.7 Signpost patients and carers to resources on post-stroke fatigue	HWB4									



Competency 11: Positioning and pressure care

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		PR	AR	Sign &	PR	AR	Sign &	PR	AR	Sign &
Competency	KSF			date			date			date
11.1 Positioning				aate			aute			date
11.1.1 Demonstrates knowledge and skills of the use of aids and equipment relevant to positioning, moving and handling	C3									
11.1.2 Demonstrates ability to assess and re-assess, plan, document and evaluate the positioning, moving and handling of stroke patients	HWB5									
11.1.3 Can demonstrate the ability to position patients in bed or sitting in chair and describe how this might affect the patient	HWB6, C3, C5									
11.1.4 Demonstrates the ability to communicate with members of the MDT about positioning, moving and handling	C1, C3, HWB1									
11.1.5 Can explain the implication of immobility and the importance of maintaining mobility to the patient and their relatives	C1, HWB4									
11.1.6 Can incorporate therapy recommendations into ADL's	C1, HWB1, HWB4									
11.1.7 Can recognise and explain causes of spasticity in stroke	C2									
11.1.8 Can describe the causes of shoulder pain in stroke patients	C2									
11.1.9 Can demonstrate the ability to plan care to prevent and manage shoulder pain	HWB2, HWB4									
11.1.10 Can demonstrate the ability to correctly apply a hand and foot splint	HWB7									
11.1.11 Can describe the importance of good hand hygiene in stroke	HWB3									
11.1.12 Can identify the reasons and the referral process to chiropody/podiatry service	C2									





Competency 11: Positioning and pressure care

Competency 110 1 obtaining and pressure car			FORM	1ATIVE A	ASSESSN	MENTS			MMATI SESSME	
		PR	AR	Sign	PR	AR	Sign	PR	AR	Sign
Competency	KSF			& date			& date			& date
11.2 Pressure area care				date			aatc			date
11.2.1 Able to carry out continuous risk assessment (e.g. Waterlow) and describe the factors that contribute to pressure ulcers and preventative measures	C2, C5, HWB6									
11.2.2 Describe the grading, stages of healing and treatment of pressure ulcers including accurate documentation and referral to tissue viability team as appropriate	C2, C5, HWB6, HWB5, HWB7									



Competency 12: Pain control

			FORM	1ATIVE A	ASSESSN	∕IENTS			MMATI SESSME	
		PR	AR	Sign	PR	AR	Sign	PR	AR	Sign
	KSF			&			&			&
Competency				date			date			date
12.1 Can describe pathophysiology of pain in relation to stroke	HWB6									
12.2 Can demonstrate the ability to perform and document accurate pain assessment using validated pain assessment scales according to local policy	HWB6, HWB5									
12.3 Can explain pharmacological and non-pharmacological interventions for managing pain and monitoring their effectiveness	HWB1									
12.4 Can explain adverse effects of unrelieved pain	HWB5									
12.5 Can discuss the impact of factors such as physical, psychological, social and cultural belief on the individuals experience of pain	HWB1, HW6									
12.6 Demonstrates the ability to education the patient and family/carer on management strategies	C1									
12.7 Demonstrates an understanding of how/when to refer the patient for additional support	C1, G1									
12.8 Can identify post-stroke neuropathic pain and spasticity and treatment options available	HW6, HWB1									





Competency 13: Vision and perception

			FORM	IATIVE A	ASSESSN	MENTS			MMATI SESSME	
Commenters	KSF	PR	AR	Sign &	PR	AR	Sign &	PR	AR	Sign &
Competency	Ti .			date			date			date
13.1 Describe the basic anatomy of the visual system and the way in which visual information is processed	C1, C2, C5									
13.2 List the ways in which a stroke may affect an individual's vision and understand the impact these may have on their function	HWB5, HWB7									
13.3 Demonstrate an understanding of the differences between visual inattention and hemianopia	C1, C5									
13.4 Describe common strategies used with each type of visual impairment and demonstrate their use in clinical practice	C1, HWB4, HWB5, HWB7									
13.5 Describe what is meant by the term perception and provide examples of how a patient with perceptual impairments might present	C1, HWB4, HWB5, HWB7									



Competency 14: Communication

FORMATIVE ASSESSMENTS

SUMMATIVE ASSESSMENT

								AS:	SESSME	:NT
	KSF	PR	AR	Sign &	PR	AR	Sign &	PR	AR	Sign &
Competency				date			date			date
14.1 Can label the anatomy of the mouth and describe the role of the larynx, pharynx and vocal cords in speech	C2									
14.2 Can explain where the speech centres are located in the brain, their functions and impact of stroke on these areas	2									
14.3 Describe the following speech and language terms: - Receptive aphasia - Dysarthria - Expressive aphasia - dyspraxia	2, 5									
14.4 Is able to take a history and assess premorbid communication	1, HWB2, C6									
14.5 List the resources that can be used to support someone with communication difficulties	C1, HWB2									
14.6 Identify barriers to communication in communicating with people with aphasia	C1									
14.7 Demonstrate awareness of own communication style and attitudes towards stroke related communication disability	C1, C6									
14.8 Describe common cognitive deficits and discuss the impact on the level of communication achievable	C2, C5									
14.9 Explain the strategies that can be used to support someone with limited comprehension/understanding	C1, HWB2, HWB4									
14.10 List and provide information in suitable format for patients and their carers	C1, C3, C6									
14.11 Can discuss ethical issues involved in consent including the Mental Capacity Act and Deprivation of Liberty Safeguards	C1									
14.12 Discuss the role of the voluntary sector in helping people with aphasia and demonstrate evidence of patient referral to this service	HWB1									



Competency 15: Psychological care

			FORM	1ATIVE A	ASSESSN	∕IENTS		SU	MMATI	IVE
		_						AS:	SESSME	NT
		PR	AR	Sign	PR	AR	Sign	PR	AR	Sign
	KSF			&			&			&
Competency	KSI			date			date			date
15.1 Mood management										
15.1.1 Describe the psychological and emotional problems that can follow	C2, HWB1									
a stroke										
15.1.2 Demonstrate knowledge and understanding of the emotional	C2, HWB1									
impact of the stroke on the patient, family, friends and carers										
15.1.3 Demonstrate knowledge and understanding of tools used to screen	C2, C5, HWB2,									
for mood problems n stroke patients	HWB6									
15.1.4 Describe the pathway for psychological interventions after stroke	C1, HWB2, HWB4									
15.1.5 Demonstrate knowledge and give examples of psychological and	C1, HWB7									
pharmacological interventions for stroke patients mood										
15.1.6 Describe local pathways and identify the triggers for referral to	C1, HWB2,									
clinical psychology/psychiatric liaison for further support or intervention	HWB4									
15.2 Managing cognitive difficulties										
15.2.1 Demonstrate the ability to recognise signs and symptoms of cognitive problems after stroke	C1, C2, HWB2									
15.2.2 Demonstrate knowledge and understanding of the use of cognitive	C1, C2, HWB6									
screening tools										
15.2.3 Describe common compensatory strategies to help patients and	C1, C2, HWB4									
families to cope and manage cognitive problems after stroke										
15.2.4 Show an understanding of the effects of cognitive impairment and	C2, HWB3									
mood on capacity and the ability to make decisions										





Competency 15: Psychological care

			FORM	IATIVE A	ASSESSN	∕IENTS		SU	MMAT	IVE
								AS:	SESSME	NT
		PR	AR	Sign	PR	AR	Sign	PR	AR	Sign
	KSF			&			&			&
Competency	KSI			date			date			date
15.3 Behaviour management										
15.3.1 Demonstrate knowledge and understanding of the causes of challenging and altered behaviour	C1, C2, HWB1									
15.3.2 State the effects that changes in behaviour following stroke may have on people involved with the individual	C1, C2, C5, HWB1									
15.3.3 Demonstrate knowledge and understanding of how you would implement strategies to support the individual, their family and carers and all involved those with the person	C1, C2, HWB5									





Competency 16: Sex after stroke

		FORMATIVE ASSESSMENTS							SUMMATIVE ASSESSMENT		
Competency	KSF	PR	AR	Sign & date	PR	AR	Sign & date	PR	AR	Sign & date	
16.1 Able to describe how one's own attitude towards sex may impact the discussion	C1, C6										
16.2 Describe how stroke can effect libido and sexual activity	C2, C6										
16.3 Can list medications and disease processes which could affect libido and sexual activity	C2, C6										
16.4 Describe how stroke can cause inappropriate sexual behaviour and appropriate management strategies utilised by the MDT	C2, C6, HWB2										
16.5 Discuss the role and availability of support networks for patients and their partners	HWB4, C6										
16.6 Can locate and utilise local and national information and resources available related to sex after stroke	HWB2										



Competency 17: Self administration of medicine

		FORMATIVE ASSESSMENTS							SUMMATIVE ASSESSMENT		
		PR	AR	Sign	PR	AR	Sign	PR	AR	Sign	
	KSF			&			&			&	
Competency	KSI			date			date			date	
17.1 Demonstrate knowledge and understanding of local guidelines for self administration of medicine	C3										
17.2 Demonstrates the knowledge and understanding of prescribed medicines in use and be able to identify side effects and evidence of overdoes	C3, HWB1										
17.3 Demonstrates the knowledge, understanding and observing of the patient's attitudes and behaviour that may result in non-concordance with a prescribed medication regime	C1, HWB1										
17.4 Demonstrates skills of being able to discuss and negotiate with the patient, aiming for continued partnership in the programme	C1, HWB1										
17.5 Demonstrates accurate record keeping of all aspects of self administration	C3										
17.6 Demonstrates an understanding of the implications and actions required when errors in administration have occurred	C3										
17.7 Demonstrate knowledge of equipment that are available to facilitate self administration of medicine e.g. easy open bottles, dossett boxes	C3, HWB2										



Competency 18: Transfer of care

transfer of care

FORMATIVE ASSESSMENTS SUMMATIVE ASSESSMENT PR AR Sign PR AR Sign PR AR Sign & & & KSF Competency date date date **18.1** Demonstrate knowledge of the different stroke pathways and HWB4, HWB3 describe transfer of care **18.2** Describe the importance of patients and carers involvement in HWB4 transfer of care from the earliest opportunity **18.3** Demonstrate the ability to advocate for the patient and/or their carer HWB2. C1 ensuring that the discharge destination is appropriate to the patient's needs **18.4** Demonstrates an understanding of the types of information that need HWB6, C1 to be shared with others (patients, relatives, health and social care professionals, voluntary agencies) as patient's progress through the care pathway **18.5** Demonstrate and understand the importance of early assessment and HWB6, C1 the ability to make referrals to appropriate care agencies for transfer of care **18.6** Demonstrate knowledge of the different MDT members and their role HWB6, C1 in transfer of care **18.7** Demonstrate the types of information to be included in transfer HWB6 letters and verbal handovers **18.9** Can proved information accurately to patients and relatives regarding HWB6 their medication, aids and equipment on transfer of care **18.10** Demonstrate the ability to co-ordinate transfer of care in HWB6, C3 collaboration with the MDT and external agencies **18.11** Demonstrate knowledge of the local/national protocols relating to HWB6, HWB1,

HWB2, C1, C6



Competency 19: Long term care

FORMATIVE ASSESSMENTS

SUMMATIVE ASSESSMENT

		-						A5.	SE22IVIE	.IV I
	KSF	PR	AR	Sign &	PR	AR	Sign &	PR	AR	Sign &
Competency	KSI			date			date			date
19.1 Can list the modifiable and non-modifiable risk factors of stroke/TIA	HWB1									
19.2 Demonstrate how to take a nursing history during assessment	HWB1									
19.3 Describe and demonstrate the use of health promotion and behaviour change principles	HWB1									
19.4 Describe secondary prevention methods e.g. medication management and lifestyle changes which may reduce the risk of further strokes/TIA)	HWB1, HWB2, C2, HWB7									
19.5 Locate and utilise relevant information leaflets/resources and demonstrate an awareness of a need to give relevant information at an appropriate time in an appropriate format	HWB1									
19.6 Promote patient ownership of their health and self care and support them to take appropriate action (see DH self care guidelines)	HWB1									
19.7 Describe medical and surgical interventions which may reduce the risks of further stroke (e.g carotid endarterectomy)	C2, HWB7									
19.8 Describe the role of available voluntary organisations	C1, C6									
19.9 Discuss the laws regarding driving restrictions after stroke	HWB1									
19.10 Demonstrate knowledge of local support groups available to patients and how they might be helpful for a stroke survivor and their families	C1, C4, C6									
19.11 Discuss the long term impact a stroke may have on a patient and their families	HWB1, HWB2									
19.12 Describe the role and referral process for an independent advocate	C1, HWB1									
19.13 Discuss the importance of long term MDT follow up and support for stroke patients	C4, C5,HWB4									



Competency 20: End of life care

			FORMATIVE ASSESSMENTS						SUMMATIVE ASSESSMENT			
		PR	AR	Sign	PR	AR	Sign	PR	AR	Sign		
	KSF			&			&			&		
Competency				date			date			date		
20.1 Demonstrate an ability to devise, implement and evaluate a plan for	HWB7, HWB5											
improved end-of-life care in collaboration with the MDT												
20.2 Uses appropriate documentation to assess and treat symptoms (e.g.	HWB7, HWB5											
pain, dyspnoea, constipation, anxiety, fatigue, nausea/vomiting and												
altered cognition) experienced by patients at the end of life												
20.3 Demonstrates the ability to support the patient and family with grief	HWB7											
loss, and bereavement at the end of life whilst accessing appropriate												
resources e.g. palliative care team												
20.4 Assess, monitor and manage patients physical, psychological, social	HWB7, HWB5											
and spiritual needs to improve quality at the end of life in conjunction with												
the MDT												
20.5 Discuss legal and ethical principles in the analysis of complex issues in	HWB7, HWB5											
end-of-life care e.g. feeding, recognising the influence of personal values,												
professional codes, and patient preferences/views and wishes												
20.6 Recognise and reflect on one's own attitudes, feelings, values and	HWB7, HWB5											
expectations about death and the individual, cultural and spiritual diversity												
existing in these beliefs and customs												
20.7 Demonstrates the understanding of the decisions to withhold or	HWB7, HWB5											
withdraw treatment in collaboration with the MDT, the patient and their												
family												



Glossary

Α

Agnosia

The inability to recognise an object by touch alone with both hands

Agraphia

Difficulty writing or drawing

Alexia

Difficulty reading

Aneurysm

A balloon-like bulge in the wall of an artery which may burst and cause a haemorrhage (bleeding)

Angiography

An x-ray or ultrasound examination of the arteries

Angioma

An abnormal collection of blood vessels that can be a cause of a haemorrhage in the brain

Angioplasty

A technique whereby the doctor inserts a catheter into the narrowed portion of the artery and stretches the artery by inflating a little balloon on the end of the catheter

Anticoagulant

A drug that is used to 'thin' the blood and thus reduce the risk of clots forming within circulation. The most commonly used is warfarin; another is heparin

Anticonvulsants

Drugs given to prevent seizures

Antihypertensives

Blood pressure lowering (usually referring to medicines)

Antiplatelet therapy

Drugs used to stop the platelets in the blood sticking to one another and forming clots. Clopidogrel and aspirin are the most widely used. Others include diprydamole)

Aphasia

Inability to use language, It can either be a problem understanding language (receptive) or speaking it (expressive). People are often affected by both types

Apraxia

The inability to do complex tasks when requested and there is no paralysis of the muscles



Arrhythmia

Abnormal heart beat rhythm

Ataxia

Loss of the control of muscle function, leading to a staggering walk and difficulty performing delicate tasks with the hands

Atheroma

The fatty deposits that build up inside an artery and eventually leave to is becoming blocked

Atherosclerosis

Hardening of the arteries due to a build up of cholesterol and other fatty material in the walls of the arteries

Atrial fibrillation

Heart condition in which the upper left side of the heart beats out of rhythm with the other three chambers. It increases the risk of a blood clot forming inside the heart, which can break off, travel to the brain and cause a TIA or stroke

В

Barthel index

One of the most widely used measures of activities of daily living

Brainstem

The part of the brain linking the two halves of the brain to the spinal cord. It contains some vital nerve cells to do with breathing, the heart, the eyes and many other important functions

Bruit

The noise that can be heard when listening over a narrowed artery

C

Cardio-embolic stroke

Stroke due to a clot that formed in the heart and travelled to the brain

Carotid artery

There are two carotid arteries on each side of the neck which carry blood from the heart to the head, notably the face and front of the brain. Disease of a carotid artery is a common cause of stroke

Carotid endarterectomy

The operation that is performed to clear the inside of the carotid artery of atheroma

Cerebellum

The part of the brain that controls fine (delicate) movement



Cerebrum

The largest parts of the brain, made up of the left and right hemispheres (sides)

Computed Tomography (CT) scan

The x-ray technique most commonly used to examin the brain

Contractures

Where a joint becomes fixed in one position by muscles that have become stiff from not being moved

CVA (Cerebro-Vascular Accident)

The term that is widely used but is not a good one: many strokes do not affect the cerebrum and none of them is an accident. Stroke is a better term

D

Dysarthria

Speech disorder in which the pronunciation is unclear although the meaning of what is said is normal

Dysgraphia

Difficulty in writing

Dyslexia

Difficulty reading

Dysphagia

Difficulty swallowing

Dysphonia

Difficulty in voice production, either speaking loud (or soft) enough, due to a disorder within the muscles in the throat, mouth or tongue

Dyspraxia

Difficulty dong complex tasks

Ε

Echocardiogram

An ultrasound examination of the heart

Electrocardiogram (ECG)

The test that records the electrical activity of the heart

Embolism

When a piece of solid material, usually a blood clot, travels to elsewhere in the body and blocks an artery, causing damage to the organ/s involved

Endarterectomy

Surgical options to remove obstructions (usually fatty tissue or blood clot) from inside an artery

F

Field of vision

The area that you can see without moving your eyes (or your head)



G

Gait

The characteristics of walking

Goal setting

The process whereby the professionals and the patient decide on the main objectives for rehabilitation

Н

Haematoma

A blood clot that has formed outside a blood vessel (artery or vein)

Haemorrhage

The escape of blood from a ruptured blood vessel, externally or internally

Haemorrhagic infarct

An aread of dead brain that has had bleeding in it

Hemianopia

Loss of one-half of the normal visual field

Hemicraniectomy

The procedure in which a certain part of all of the brain is removed as a preliminary step before the brain is operated upon

Hemiparesis

Weakness of one-half of the body

Hemiplegia

Complete paralysis of half of the body

Heparin

An anticoagulant given to prevent blood clots from forming

Hemisensory

The loss of sensation on one side of the body

Hydrocephalus

Raise pressure within the skull due to an abnormal build-up of the fluid that surrunds the brain. It can occur after a brain haemorrhage

Hypercholesterolaemia

A high level of cholesterol in the blood

Hyperglycaemia

Condition relating to an abnormally high content of glucose in the blood

Hyperlipidaemia

A high level of fats in the blood

Hypertension

Abnormally high blood pressure

Hypoglycaemia

Condition relating to an abnormally low content of glucose in the blood

Hypoxia

Inadequate oxygen in the body tissues



ı

Impairment

Loss of function (e.g. weakness, loss of sensation, loss of speech)

Incontinence

Loss of control of passing urine or faeces

Infarction

An area of cell death (e.g. part of the brain) as a results of being deprived of its blood supply

Intracerebral haemorrhage

A haemorrhage inside the brain

Ischaemia

Cells that have an inadequate blood supply (see also transient ischaemic attack)

L

Lacunar infarct

A small stroke less than one centimetre in diameter

Lumbar puncture

A procedure whereby some of the spinal fluid is removed by the insertion of a needle into the spine

М

Magnetic resonance angiography (MRA)

Using a large powerful magnet, rather than x-rays to create pictures of the blood vessels (arteries and veins)

Magnetic resonance imaging (MRI)

A type of scan that, instead of x-rays, uses a large, powerful magnet to create an image (picture) of part of the body

Middle cerebral artery

The artery that most frequently becomes blocked, to cause a stroke

Ν

New Oral AntiCoagulants (NOACs)
An anticoagulant given to prevent blood clots from forming

Neglect

Ignoring or not being aware of being touched on one side, of not seeing things to one side. An extreme example is not even being aware that your arm or leg belongs to you

Nystagmus

Involuntary jerking of the eyes. It occurs in disorders of the part of the brain responsible for eye movements



0

Oedema

Swelling due to excessive accumulation of fluid in the body tissues

Ρ

Patent foramen ovale

A hole in the heart that allows blood clots to get from the veins into the arteries

Perception

Awareness and understanding of one's environment (e.g. awareness of touch, sights, sounds

Percutaneous endoscopic gastrostomy (PEG)

Insertion of a tube through the wall of the abdomen into the stomach for the purposes of feeding. It is done with a gastroscope, which is a fibre-optoc instrument used to examine the inside of the stomach

Platelets

Small blood cells that stick together to form a clot

Positron emission tomography (PET)

A new scanning technique that uses radioactive isotopes to show how well cells are functioning

R

Radiologically inserted gastrostomy (RIG)

Insertion of a tube through the all of the abdomen into the stomach using x-ray guidance for the purposes of feeding

Risk factors

The possible underlying causes (for stroke) such as smoking, high blood pressure, ethnic group, family history of stroke

S

Sepsis

Bacterial infection to the body tissues of the blood

Spasticity

The stiffness that develops in the muscles after a stroke or other type of damage to the brain or spinal cord

Stenosis

A narrowing

Subarachnoid haemorrhage

Bleeding between the brain and one of the covering membranes, often due to a leaking aneurysm



Т

Thalamus (thalamic)

A part of the brain where the nerves carrying information about sensation from the body join with other nerves

Thrombolysis

The use of drugs to break up a blood clot

Thrombosis

The formation of a blood clot

Tissue plasminogen activator (TPa)

The drug most commonly used for thrombolysis

Transient Ischaemic attack (TIA)

A stroke-like event that fully recovers within 24 hours of the start of symptoms

٧

Ventrocular Septal Defect (VSD)

A hole in the muscle wall that separates the two chambers (ventricles) of the heart

Vertebral arteries

The two arteries that travel up the back of the neck to the brain which, with the two carotid arteries, supply all the blood to the brain

W

Warfarin

The most frequently used oral anticoagulant (for thinning the blood and preventing clots forming inside the circulation)





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Guidance Documents

Department of Health National Stroke Strategy (December 2007) – www.dh.gov.uk
Department of hearlth, Stroke-Specific Education Framework (April 2009) – www.dh.gov.uk
NHS Improvement, Psychological care after stroke: improving stroke services for people with cognitive and mood disorders (2011)www.improvement.nhs.uk

NICE, Acutely III Patients in Hospital, Recognition of and Response to Acute Illness in Adults in Hospital (2007) - www.nice.org.uk
NICE Clinical Guidelines for Stroke (July 2008) - www.nice.org.uk
Royal College of Physicians National Clinical Guidelines for Stroke (July 2012) - www.rcn.org.uk

Online resources

Connect- the communication disability network — www.ukconnect.org
Different Stroke — www.differentstrokes.co.uk
London Health Programmes- www.londonhp.nhs.uk
London Stroke Directory — www.strokedirectory.org.uk
Speakability — www.speakability.org.uk
STARS Stroke Training and Awareness Resources — www.strokecompetencies.org
The Stroke Association — www.stroke.org.uk
Survive Sepsis — www.survivesepsis.org
World Health Organisation — www.who.int





Recommended Reading

Aphasia in acute stroke and relation to outcome

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Clinical Neuroanatomy and Neuroscience

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The Clinical Practice of Neurological and Neurosurgical Nursing

Hickey, J (2009), 6th edition. Philadelphia, J.B Lippincott

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Jean-Dominique Bauby (2008). Harper-Perennial, London

End of life issues in acute stroke care: a qualitatiove study of the experiences and preferences of patients and families

Shiela Payne, Amanda Jones, Christopher Burton, Julia Addington-Hall Palliat Med vol. 24 no. 2 pp. 146-153 March 2010

Exploring the brain

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Fatigue after Stroke: The Patient's Perspective

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Functional outcome in post stroke patients with or without fatigue

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Brain, Editorial. 2001, 124:2-4

Nervous System: Crash Course

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Neurological Examination Made Easy

Fuller, G (1999), 2nd edition. London: Churchill Livingstone

Neurology and Neurosurgery Illustrated

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