

## Interests Register

**Stroke guideline committee**

**Publication Date: 01/05/2018**

Name	Role with NICE	Type of interest	Description of interest	Relevant dates			Comments
				Interest arose	Interest declared	Interest ceased	
Jason Kendall	Chair	Direct Non-financial	<p>Publications / presentations / other activity of relevance:</p> <ol style="list-style-type: none"> <li>1. Thrombolysis for acute ischaemic stroke - a new challenge for emergency medicine (J Kendall. Emerg Med J 2008;25:471-75)</li> <li>2. Reducing delay to stroke thrombolysis – lessons learned from the Stroke 90 Project (Kendall J, Dutta D, Brown E. Emerg Med J 2015;32:100-104)</li> <li>3. Evaluation of a Telephone Advice System for Remote Intravenous Thrombolysis in Ischemic Stroke. Results from a UK National Health Service Regional Network (Dipankar Dutta, Jason Kendall, Clare Holmes et al. Stroke 2015;46:867-869)</li> <li>4. Basilar Artery Occlusion and Strokes with Improving Symptoms - Royal College of Emergency Medicine National Scientific Conference, Exeter, September 2014.</li> <li>5. Stroke thrombectomy: Royal College of Emergency Medicine National Scientific Conference, Bournemouth, September 2016. (overview of the method)</li> </ol>	<ol style="list-style-type: none"> <li>1. 2008</li> <li>2. 2015</li> <li>3. 2015</li> <li>4. 2014</li> <li>5. 2016</li> </ol>	On application		Declare and participate. None of these papers or presentations relate to the specific questions in the update to this guideline
		Direct Non-financial	I am a member of the Task Force of the Association of Anaesthetists of Great Britain and Ireland (representing the Royal College of Emergency Medicine) developing Guidance for the "Transfer of brain injured patients", which includes brain "injury" from both trauma and stroke.		On application		Declare and participate
		Direct Non-financial	I was a member of the Trial Steering Committee for the TIER trial which is a proposed cluster randomised trial evaluating the feasibility of paramedic referring patients directly to TIA clinics rather than transporting them to the ED (i.e. potential to change process of care). I withdrew from this in order to take up the guideline Chair role.		18/12/2017	18/12/2017	Declare and participate

Elizabeth Warburton	Clinical Lead	Direct Financial	Pfizer Pharmaceuticals Grant awarded via the NHS Academic Health Services Network (AHSN) grant for innovation in stroke preventions with Atrial Fibrillation £250,000 awarded December 2016	December 2016	18/12/2017	December 2017	Declare and participate. Not specific to matters under discussion.
		Direct Non-financial	<p>Various publications on the use of perfusion imaging (CT Perfusion, PET imaging and MR imaging) in small cohort of patients</p> <ol style="list-style-type: none"> <li>1. Collateral response modulates the time penumbra relationship in proximal arterial occlusions Agarwal S, Bivard A, Warburton EA, Parsons MW, Levi CR Neurology 2018 in press with editorial podcast</li> <li>2. Time to Computerized Tomography Scan, Age, and Mortality in Acute Stroke. Myint PK, Kidd AC, Kwok CS, Musgrave SD, Redmayne O, Metcalf AK, Ngeh J, Nicolson A, Owusu-Agyei P, Shekhar R, Walsh K, Day DJ, Warburton EA, Bachmann MO, Potter JF; Anglia Stroke Clinical Network Evaluation Study (ASCNES) Group. J Stroke Cerebrovasc Dis. 2016 Dec;25(12):3005-3012. doi: 10.1016/j.jstrokecerebrovasdis.2016.08.020. Epub 2016 Sep 8. PMID:27618197</li> <li>3. From Time is brain to Physiology is brain: a case for reflection in acute stroke treatment decisions. Agarwal S, Warburton EA, Baron JC. Brain. 2015 Jul;138(Pt 7):1768-70. doi: 10.1093/brain/awv120. PMID: 26106094</li> <li>4. Is CT-Based Perfusion and Collateral Imaging Sensitive to Time Since Stroke Onset? Agarwal S, Matys T, Marrapu ST, Scoffings DJ, Mitchell J, Jones PS, Baron JC, Warburton EA. Front Neurol. 2015 Apr 9;6:70. doi: 10.3389/fneur.2015.00070. eCollection 2015. PMID: 25914673</li> <li>5. Biased visualization of hypoperfused tissue by computed tomography due to short imaging duration: improved classification by image down-sampling and vascular models. Mikkelsen IK, Jones</li> </ol>	<p>1.</p> <p>2. 2016</p> <p>3.2015</p> <p>4.2015</p> <p>5. 2015</p> <p>6.2014</p> <p>7. 2013</p> <p>8.2011</p> <p>9. 2011</p> <p>10. 2011</p> <p>11. 2011</p> <p>12. 2008</p> <p>13.2006</p>	18/12/2017	December 2017	<p>Papers not specific to matters under discussion: Declare and participate.</p> <p>PI in trials: Relevant trials have completed: Declare and participate</p>

			<p>PS, Ribe LR, Alawneh J, Puig J, Bekke SL, Tietze A, Gillard JH, Warburton EA, Pedraza S, Baron JC, Østergaard L, Mouridsen K.</p> <p>Eur Radiol. 2015 Jul;25(7):2080-8. doi: 10.1007/s00330-015-3602-x. Epub 2015 Apr 17. PMID: 25894005</p>	14.2006		
				15.2006		
				16.2008		
			<p>6. Diffusion and perfusion correlates of the 18F-MISO PET lesion in acute stroke: pilot study.</p> <p>Alawneh JA, Moustafa RR, Marrapu ST, Jensen-Kondering U, Morris RS, Jones PS, Aigbirhio FI, Fryer TD, Carpenter TA, Warburton EA, Baron JC.</p> <p>Eur J Nucl Med Mol Imaging. 2014 Apr;41(4):736-44. doi: 10.1007/s00259-013-2581-x. Epub 2013 Oct 15. PMID:24126468</p>	17.2005		
				18.2004		
				19.2017		
				20.		
			<p>7. Interaction of age with the ischaemic penumbra, leptomeningeal collateral circulation and haemodynamic variables in acute stroke: a pilot study.</p> <p>Agarwal S, Scoffings DJ, Jones PS, Marrapu ST, Barry PJ, O'Brien EW, Baron JC, Warburton EA.</p> <p>J Neurol Neurosurg Psychiatry. 2013 Mar;84(3):271-6. doi: 10.1136/jnnp-2012-303258. Epub 2012 Nov 24. PMID:23178505</p>	21.		
				22.		
				23.		
				24.		
				25.		
			<p>8. Does perfusion computed tomography facilitate clinical decision making for thrombolysis in unselected acute patients with suspected ischaemic stroke?</p> <p>Agarwal S, Jones PS, Alawneh JA, Antoun NM, Barry PJ, Carrera E, Cotter PE, O'Brien EW, Salih I, Scoffings DJ, Baron JC, Warburton EA.</p> <p>Cerebrovasc Dis. 2011;32(3):227-33. doi: 10.1159/000329310. Epub 2011 Aug 23. PMID:21860235</p>	26.		
				27.		
			<p>9. Infarction of 'non-core-non-penumbra' tissue after stroke: multivariate modelling of clinical impact.</p>			

			<p>Alawneh JA, Jones PS, Mikkelsen IK, Cho TH, Siemonsen S, Mouridsen K, Ribe L, Morris RS, Hjort N, Antoun N, Gillard JH, Fiehler J, Nighoghossian N, Warburton EA, Ostergaard L, Baron JC.</p> <p>Brain. 2011 Jun;134(Pt 6):1765-76. doi: 10.1093/brain/awr100. PMID:21616971</p> <p>10. Predicting infarction within the diffusion-weighted imaging lesion: does the mean transit time have added value? Carrera E, Jones PS, Alawneh JA, Klærke Mikkelsen I, Cho TH, Siemonsen S, Guadagno JV, Mouridsen K, Ribe L, Hjort N, Fryer TD, Carpenter TA, Aigbirhio FI, Fiehler J, Nighoghossian N, Warburton EA, Ostergaard L, Baron JC.</p> <p>Stroke. 2011 Jun;42(6):1602-7. doi: 10.1161/STROKEAHA.110.606970. Epub 2011 Apr 21. PMID:21512183</p> <p>11. The vascular mean transit time: a surrogate for the penumbra flow threshold?</p> <p>Carrera E, Jones PS, Iglesias S, Guadagno JV, Warburton EA, Fryer TD, Aigbirhio FI, Baron JC.</p> <p>J Cereb Blood Flow Metab. 2011 Apr;31(4):1027-35. doi: 10.1038/jcbfm.2010.197. Epub 2010 Nov 3. PMID:21045862</p> <p>12. How reliable is perfusion MR in acute stroke? Validation and determination of the penumbra threshold against quantitative PET.</p> <p>Takasawa M, Jones PS, Guadagno JV, Christensen S, Fryer TD, Harding S, Gillard JH, Williams GB, Aigbirhio FI, Warburton EA, Østergaard L, Baron JC.</p> <p>Stroke. 2008 Mar;39(3):870-7. doi: 10.1161/STROKEAHA.107.500090. Epub 2008 Feb 7. Erratum in: Stroke.2008 Aug;39(8): e141. PMID:18258831</p>				
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			<p>13. How affected is oxygen metabolism in DWI lesions?: A combined acute stroke PET-MR study.</p> <p>Guadagno JV, Warburton EA, Jones PS, Day DJ, Aigbirhio FI, Fryer TD, Harding S, Price CJ, Green HA, Barret O, Gillard JH, Baron JC.</p> <p>Neurology. 2006 Sep 12;67(5):824-9. Erratum in: Neurology. 2007 Apr 17;68(16):1327. PMID:16966545</p>			
			<p>14. Local relationships between restricted water diffusion and oxygen consumption in the ischemic human brain.</p> <p>Guadagno JV, Jones PS, Fryer TD, Barret O, Aigbirhio FI, Carpenter TA, Price CJ, Gillard JH, Warburton EA, Baron JC.</p> <p>Stroke. 2006 Jul;37(7):1741-8. Epub 2006 Jun 8. Erratum in: Stroke. 2007 Apr;38(4):1424. PMID:16763173</p>			
			<p>15. Perfusion CT helps decision making for thrombolysis when there is no clear time of onset.</p> <p>Hellier KD, Hampton JL, Guadagno JV, Higgins NP, Antoun NM, Day DJ, Gillard JH, Warburton EA, Baron JC.</p> <p>J Neurol Neurosurg Psychiatry. 2006 Mar;77(3):417-9.</p>			
			<p>16. Collateral damage in acute stroke treatment: a new role for an old concept? Warburton L. J Neurol Neurosurg Psychiatry. 2008 Jun;79(6):615-6. doi: 10.1136/jnnp.2007.140525. PMID:18487551 Oct;16(4):293-301. Review. PMID:17032377</p>			
			<p>17. The diffusion-weighted lesion in acute stroke: heterogeneous patterns of flow/metabolism uncoupling as assessed by quantitative positron emission tomography.</p> <p>Guadagno JV, Warburton EA, Jones PS, Fryer TD, Day DJ, Gillard JH, Carpenter TA, Aigbirhio FI, Price CJ, Baron JC.</p> <p>Cerebrovasc Dis. 2005;19(4):239-46. Epub 2005 Feb 22. PMID:15741718</p>			

			<p>18. Does the acute diffusion-weighted imaging lesion represent penumbra as well as core? A combined quantitative PET/MRI voxel-based study.</p> <p>Guadagno JV, Warburton EA, Aigbirhio FI, Smielewski P, Fryer TD, Harding S, Price CJ, Gillard JH, Carpenter TA, Baron JC.</p> <p>J Cereb Blood Flow Metab. 2004 Nov;24(11):1249-54.PMID:15545920</p> <p>Hemicraniectomy</p> <p>19. A Retrospective Cohort Study to Assess Patient and Physician Reported Outcome Measures After Decompressive Hemicraniectomy for Malignant Middle Cerebral Artery Stroke.</p> <p>Budhdeo S, Koliass AG, Clark DJ, Chari A, Hutchinson PJ, Warburton EA.</p> <p>Cureus. 2017 May 10;9(5):e1237. doi: 10.7759/cureus.1237.PMID:28620567</p> <p>Local PI on various RCT's ;</p> <p>Ongoing Tenecteplase (thrombolysis) trials:</p> <p>20. ATTEST – Trial Steering group committee and local PI. Have stepped down from both roles for committee</p> <p>21. TASTE and TWIST trials – stepped down from local PI role.</p> <p>UK Thrombectomy trial</p> <p>22. STABILISE – local PI (trial now finished and published)</p> <p>23. CHARM (cerebral oedema) - stepped down as local PI</p> <p>Head positioning after stroke trial</p> <p>24. HEADPOST – local PI (trial now finished and published)</p> <p>Blood pressure after stroke trials</p> <p>25. INTERACT – Local PI (trial finished and published)</p>				
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			26. ENCHANTED - local PI (no longer recruiting)				
Sreeman Andole	Stroke Physician	Direct Non-financial	<ol style="list-style-type: none"> <li>1. Trial (ENCHANTED) – 2012-2014 CLOSED</li> <li>2. Platelet-Oriented Inhibition in New TIA and minor ischaemic stroke (POINT) No patient recruited – 2010 CLOSED</li> <li>3. Pragmatic Ischaemic Stroke Thombectomy Evaluation (PISTE) No patient recruited – CLOSED 2014 TRIAL ABANDONED</li> <li>4. Future delivery of Thrombectomy Services in England: A Delphi Study – 2015 OBSERVATIONAL CLOSED</li> <li>5. International Stroke trial (IST-3) A large RCT of thrombolysis with intravenous recombinant tissue plasminogen activator (rt-PA) for acute ischaemic stroke within 6 hours – CLOSED 2013</li> <li>6. REstart or STop Antithrombotics Randomised Trial (RESTART) – Ongoing 2016</li> <li>7. KCH-STR-INF A cluster randomized trial of difference strategies of antibiotic use to reduce the incidence and consequences of chest infection in acute stroke patients with swallowing problems – 2013</li> <li>8. Multicenter, Randomised, Active-Controlled Efficacy and Safety Study comparing extended duration Betrixaban with Standard of Care Enoxaparin for the prevention of Venous Thromboembolism in Acute Medically ill patients (APEX) – 2015 CLOSED</li> <li>9. Robot assisted training for the upper limb after stroke (RATULS) – 2017 STOPPED</li> <li>10. A trial to evaluate an extended rehabilitation service for stroke patients (EXTRAS) - HTA funded – 2015 STOPPED</li> <li>11. CLOTS-3 (Clots in Legs Or sTockings after Stroke) – a RCT to establish the effectiveness of intermittent pneumatic compression to prevent post stroke DVT – 2014 CLOSED</li> <li>12. A feasibility study of use of a low cost bimanual training system (LOBSTER) in delivering independent upper limb rehabilitation in community and hospital settings. This is a PhD project for student in East London University (UEL) – 2016</li> <li>13. A Qaymia CardiovascuLAr morbidity and Mortality (AQCLAIM) study in subjects with documented cardiovascular disease – co-investigator 2015</li> <li>14. METRO-24/7 – Mixed Methods Analysis of the London HyperAcute Stroke System: Identifying Lessons on 24/7 Working – 2015</li> <li>15. Study I: CROMIS-2 (AF) – 2017</li> </ol>		On application	Declare and participate	

		Direct Non-financial	Clinical Standards Committee – British association of stroke medicine - 2016		On application		Declare and participate
		Indirect Non-financial	Governing council member – Southend CCG		On application		Declare and participate
		Indirect Non-financial	Specialist Advisor for CQC UK		On application		Declare and participate
		Indirect Non-financial	Appointed as Assistant Medical Director for NHS England		25/01/2018		Declare and participate
Fiona Barber	Lay member	Indirect Non-financial	Patient Public Voice Advisor on Clinical Priorities Advisory Group, Specialised Commissioning, NHS England		18/12/2017		Declare and participate
			Elected Board Member Healthwatch Leicestershire		18/12/2017		Declare and participate
			Patient Public Voice Advisor on Primary Care Oversight Group, NHS England		18/12/2017		Declare and participate
			Lay Member General Pharmaceutical Council ( Accreditation & Recognition panel)		18/12/2017		Declare and participate
Rachael Forton	Radiographer	Direct Non-financial	Enrolled as PhD student with Faculty of Health Studies, University of Bradford		On application		Declare and participate
			Member of The Society of Radiographers, London		On application		Declare and participate
			Registered with Institute of Leadership and Management as part of Health Education England leadership programme		On application		Declare and participate
		Direct financial	I have received payments for private patient work within the Norfolk and Norwich University Hospital NHS Foundation Trust within the last 12 months. These have either been follow up or first line diagnostic scans for cancer		On application		Declare and participate



			staging. I have not taken payments for suspected acute stroke or TIA patients. Acute private imaging is not practiced within the trust and all TIA referrals are scanned as part of a standard same day TIA clinic referral.				
Zena Jones	Lay member	Direct Non-financial	Stroke Ambassador Stroke Association (Voluntary)		On application		Declare and participate
		Direct Non-financial	Service User Research Panel Stroke Association (Voluntary)		On application		Declare and participate
		Direct Non-financial	Board Member Healthwatch County Durham (Voluntary)		On application		Declare and participate
		Direct Non-financial	Non-Executive Director Concern Group (Voluntary)		On application		Declare and participate
		Direct Non-financial	Lay member on Executive of North East and North Cumbria Clinical Research Network. Heart Voices patient group The BHF.		09/08/2018		Declare and participate
		Direct Non-financial	Steering group member of a TIA study within University of Birmingham		09/08/2018		Declare and participate
Graham McClelland	Paramedic	Direct Non-financial	Committee member College of Paramedics Research Development Committee		On application		Declare and participate

		Direct Non-financial	Currently undertaking PhD investigating prehospital stroke mimics funded by a postgraduate fellowship from The Stroke Association		On application		Declare and participate. Not specific to any topics being addressed
		Direct Non-financial	Editorial board British Paramedic Journal		18/12/2017		Declare and participate
		Direct financial	PhD supported by North East Ambulance Service NHS Foundation Trust and North East Ambulance Service Charitable Trust		18/12/2017		Declare and participate
		Direct Non-financial	Programme Management Group for the Paramedic Acute Stroke Treatment Assessment (PASTA) study		18/12/2017		Declare and participate
		Direct Non-financial	Author on Flynn et al A review of enhanced paramedic roles during and after hospital handover of stroke, myocardial infarction and trauma patients. BMC Emergency Medicine, 2017, 17:5		18/12/2017		Declare and participate. Not specific to matters under discussion.
		Direct Non-financial	Paramedic Acute Stroke Treatment Assessment trial is looking at modelling of thrombectomy services, GM not directly involved.		25/01/2018		Declare and participate
Alex Mortimer	Interventional Neurologist	Direct Financial	Travel expenses paid by Penumbra to teach on thrombectomy		On application		Declare and participate

		Direct Non-financial	<p>Publications:</p> <ol style="list-style-type: none"> <li>1. Wareham J, Phan K, Renowden S, Mortimer AM. A meta-analysis of observational evidence for the use of endovascular thrombectomy in proximal occlusive stroke beyond 6 hours in patients with limited core infarct <i>Neurointervention</i> 2017; 8(3):256-264.</li> <li>2. Phan K, Zhao DF, Phan S, Huo YR, Mobbs RJ, Rao PJ, Mortimer AM. Endovascular therapy including thrombectomy for acute ischemic stroke: A systematic review and meta-analysis with trial sequential analysis. <i>Journal of Clinical Neuroscience</i> 2016; 29:38-45.</li> <li>3. Loughborough W, Mahady K, Bradley MD, Renowden SA, Mortimer AM. The emerging age of endovascular treatment of acute ischaemic stroke and the role of CT angiography in patient work-up: a guide for the radiologist. <i>Clinical Radiology</i> 2016; 71(1):2-8.</li> <li>4. Phan K, Phan S, Huo YR, Jia F, Mortimer A. Outcomes of endovascular treatment of basilar artery occlusion in the stent retriever era: a systematic review and meta-analysis. <i>Journal of Neurointerventional Surgery</i>. 2015; 8(11):1107-1115.</li> <li>5. Mortimer AM, Simpson E, Bradley M, Renowden SA. CT Angiography in hyperacute ischemic stroke: prognostic implications and role in decision making. <i>Stroke</i> 2013 44(5):1480-8.</li> <li>6. Mortimer AM, Little DH, Minhas KS, Walton ERJ, Renowden SA, Bradley M. Thrombus length estimation in acute ischemic stroke: a potential role for delayed contrast-enhanced CT. <i>Journal of Neurointerventional Surgery</i> 2013; 6(3):244-248.</li> <li>7. Mortimer AM, Bradley MD, Renowden SA. Endovascular therapy in hyperacute ischaemic stroke: history and current status. <i>Interventional Neuroradiology</i> 2013; 19: 506-518.</li> <li>8. Mortimer AM, Bradley MD, Renowden SA. Managing hyperacute ischaemic stroke with interventional neuroradiology (editorial). <i>British Medical Journal</i> 2012; 13:344:e857.</li> <li>9. Mortimer AM, Bradley M, Renowden SA. Endovascular therapy of basilar artery occlusion: a review of the literature. <i>Journal of Neurointerventional Surgery</i> 2012; 4: 266-73.</li> <li>10. Mortimer AM, Saunders T, Cook JL. Cross-sectional imaging for diagnosis and clinical outcome prediction of acute basilar artery thrombosis. <i>Clinical Radiology</i> 2011; 66(6):551-8</li> </ol>		On application	<p>Declare and participate. The most relevant studies are literature reviews only. None of these studies were included in the reviews. The chair agreed that AM could remain in the discussions of thrombectomy as the studies were not included in the review and the group needed the expertise of an interventional neuro-radiologist.</p>
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		Direct Non-financial	<p>Publications:</p> <ol style="list-style-type: none"> <li>1. Wareham J, Phan K, Renowden S, Mortimer AM. A meta-analysis of observational evidence for the use of endovascular thrombectomy in proximal occlusive stroke beyond 6 hours in patients with limited core infarct Neurointervention 2017; 8(3):256-264.</li> <li>2. Phan K, Zhao DF, Phan S, Huo YR, Mobbs RJ, Rao PJ, Mortimer AM. Endovascular therapy including thrombectomy for acute ischemic stroke: A systematic review and meta-analysis with trial sequential analysis. Journal of Clinical Neuroscience 2016; 29:38-45.</li> </ol>		25/01/2018		Declare and participate. Some studies are relevant to review questions but chair agreed that AM could remain in the discussions of thrombectomy as the group needed the expertise of an interventional neuro-radiologist. participate.
Jaimie Shepherd	Physiotherapist	Direct Non-financial	Currently involved in reconfiguration of Hyper Acute Stroke Services in South Yorkshire and Bassetlaw (SYB). The Integrated care system for SYB is leading this work. JS is representing the provider she works for and is a member of the Stroke operational workforce, workforce and quality group and stroke rehabilitation group. She has also recently been part of the Stroke Regional Steering groups for SYB. A judicial review has been requested in relation to the reconfiguration project and this is being explored by the ICS legal team currently.		01/03/2018		Declare and participate
David Werring	Neurologist	Direct Financial	Honoraria (speaking) from Bayer 2016, 2017 (talks for debates on anticoagulants and intracerebral haemorrhage, which were educational, and did not directly promote the use of any specific therapy)		On application		Declare and participate. Not specific to matters under discussion.
		Direct Financial	Consultancy fees from Bayer 2017 (workshop regarding embolic stroke of undetermined source)		On application		Declare and participate. Not specific to

							matters under discussion.
		Direct Non-financial	UCLH Local PI for NIHR clinical trials: NAVIGATE-ESUS (direct oral anticoagulation for ESUS; Bayer 2016), B2341002 (early phase study of acute intracerebral haemorrhage haemostasis Pfizer 2014-2016), ACTION-2 (anti-inflammatory therapy for acute ischaemic stroke 2016 Biogen)		On application		Declare and participate.  Not specific to matters under discussion
		Direct Non-financial	Attended all parliamentary group round table on thrombectomy Nov 2017, organised by New Statesman,		18/12/2017		Declare and participate
		Direct Non-financial	Over 180 publications not directly within scope but recent Practical Neurology review published on thrombectomy ( <a href="http://pn.bmj.com/content/early/2017/06/30/practneurol-2017-001685">http://pn.bmj.com/content/early/2017/06/30/practneurol-2017-001685</a> )		18/12/2017		Declare and participate. Not specific to matters under discussion
		Direct Non-financial	Organised UK Stroke Forum 2017 session on thrombectomy		18/12/2017		Declare and participate
		Direct Non-financial	Trial Steering Committees – TICH-2, LACI-2, R4VaD trials		18/12/2017		Declare and participate
		Indirect Non-financial	Local PI for numerous NIHR trials, not within scope		18/12/2017		Declare and participate
		Direct Non-financial	Deputy secretary, British Association of Stroke Physicians and Chair, European Stroke Organisation Educational Committee		18/12/2017		Declare and participate
Hiren Patel	Co-opted Neurosurgeon	Direct Non-financial	Run National SAH audit database		On application		Declare and participate

## GUIDANCE NOTES FOR COMPLETION OF THE INTERESTS REGISTER

**Relevant dates:** Detail here the date the interest arose, the date it was first declared and when it ceased, if applicable. For example, if an individual has ceased to hold shares or undertake relevant private practice.