

NHS BLOOD AND TRANSPLANT ORGAN DONATION AND TRANSPLANTATION DIRECTORATE

NATIONAL RETRIEVAL GROUP

Capacity and Demand Update – On-call sequences

Background

- 1 Prior to April 2016 the method of mobilisation of the National Organ Retrieval Service (NORS) followed a system of named hospital allocation (“zonal” or “zones”). The NORS review, conducted in 2015, resulted in a change in the mobilisation system; since this review NORS teams have been mobilised on a closest (available) first basis.
- 2 Equity of current activity has been analysed as part of the Capacity and Demand Working Group and the need to move to a new allocation system, where only the first and second named NORS teams in an on-call sequence are defined, has been recognised. This paper presents the proposed on-call sequences to be introduced in addition to simulation results when using these sequences.

Proposed on-call sequences

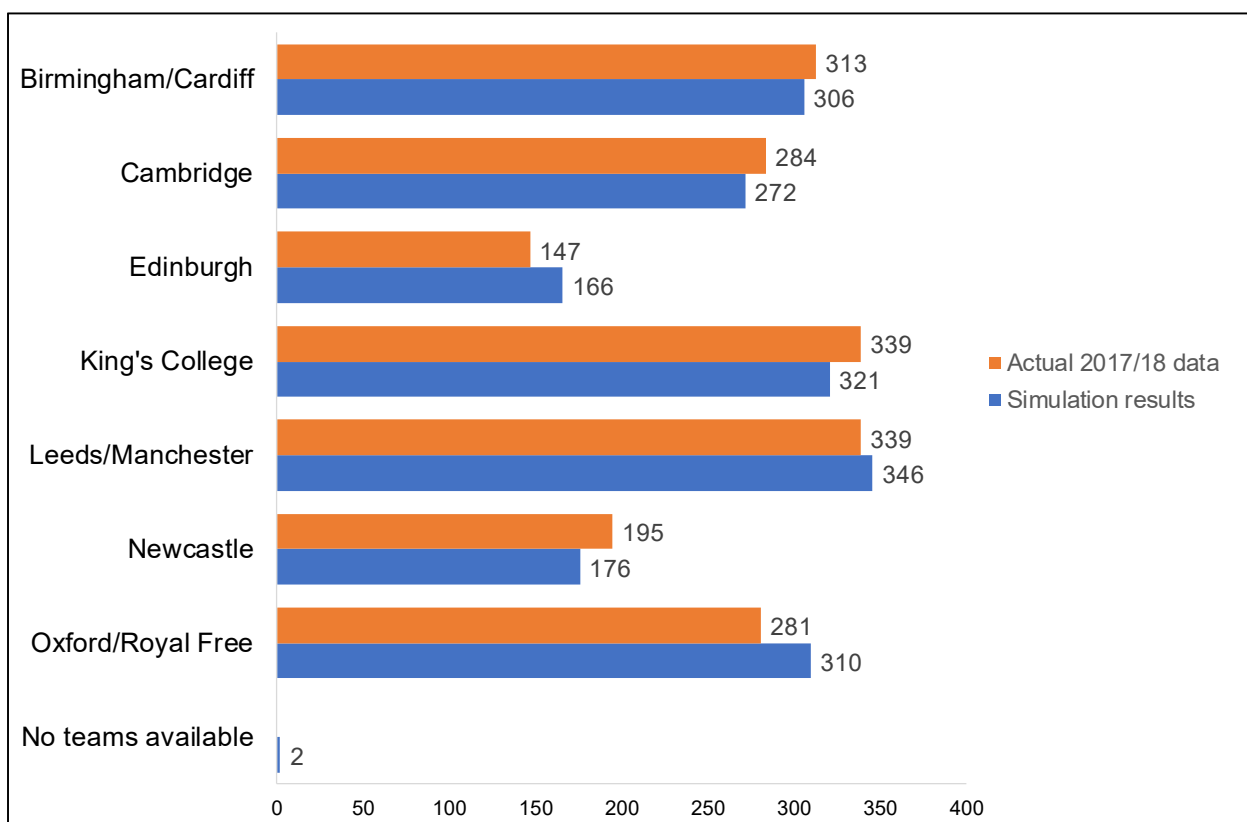
- 3 The original zones used prior to April 2016 have been used as a basis to establish new on-call sequences, in addition to some amendments suggested by the NORS teams.
- 4 Each hospital within the UK with organ donation potential, including those in the Channel Islands, will have a recognised first and second NORS team on-call sequence for cardiothoracic and another for abdominal retrievals. For abdominal teams, a closest first system (based on road and flight travel times) will be adopted from the third sequence position onwards and for cardiothoracic teams the remaining available on-call team will be mobilised.
- 5 Key information to note regarding the proposed on-call sequences:
 - Abdominal teams that share on-call rotas are presented as one in the proposed on-call sequence to ensure mobilisation using the sequence is possible in each rota week scenario.
 - A similar approach has been adopted for cardiothoracic teams
 - For hospitals in Northern Ireland requiring an abdominal NORS team; the Edinburgh NORS team will be first on-call and Newcastle will be second. Where a cardiothoracic NORS team is required in Northern Ireland, Newcastle/Glasgow will be first in the on-call sequence to account for the rota week

- For six hospitals in the South West of England for abdominal attendances, Newcastle will be second on-call with the intention that flights would be used for these attendances
 - Similarly, for these six hospitals where a cardiothoracic NORS team are required to attend, Newcastle/Glasgow will be first in the on-call sequence to account for the rota week
 - Further amendments have been made to Newcastle, Edinburgh, and Glasgow NORS team sequences to improve equity of activity across teams
- 6 The proposed on-call sequences for cardiothoracic and abdominal NORS teams are detailed in **Appendix A and B**, respectively.

Simulation results

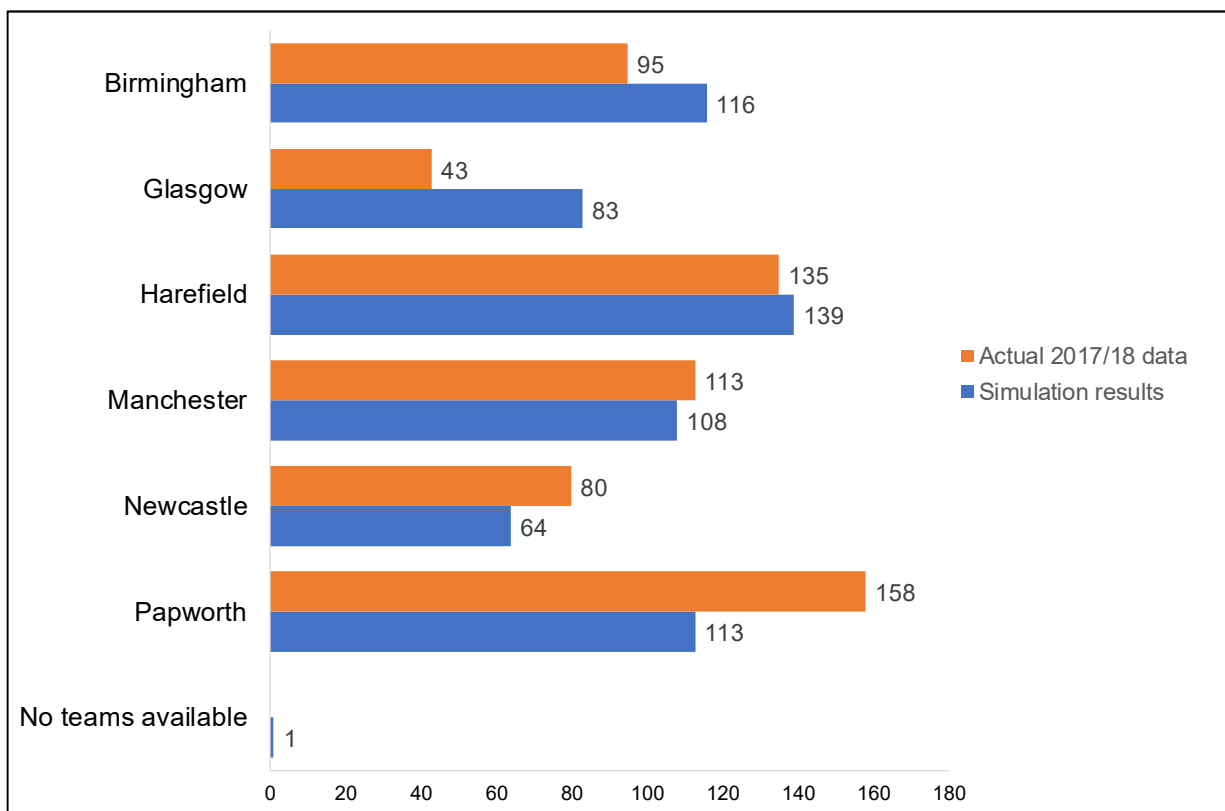
- 7 Activity has been simulated using 2017/18 actual donor attendances, including locations and timings, in conjunction with the proposed on-call sequences. **Figure 1** presents the simulated number of abdominal attendances by NORS teams if the on-call sequence was adopted in comparison with actual 2017/18 attendances data, **Figure 2** presents similar results for cardiothoracic NORS teams.

Figure 1 – Abdominal NORS team attendances comparing 2017/18 actual data¹ and proposed on-call sequences simulated results



¹ Included in 2017/18 actual data are 16 potential donors that were attended by an off duty abdominal NORS team.

Figure 2 – Cardiothoracic NORS team attendances comparing 2017/18 actual data² and proposed on-call sequences simulated results



² Included in 2017/18 actual data are 39 potential donors that were attended by an off duty cardiothoracic NORS team.

Action

- 8 Members of NRG are asked to review the proposed on-call sequences and feedback any comments and suggested amendments at this stage.

Appendix A
Proposed abdominal NORS teams on-call sequences

Hospital	Suggested on-call sequence	
	1st	2nd
<i>Birmingham/Cardiff first on-call</i>		
Abergavenny, Nevill Hall Hospital	Birmingham/Cardiff	Oxford/Royal Free
Aberystwyth, Bronglais Hospital	Birmingham/Cardiff	Leeds/Manchester
Barnstaple, North Devon District Hospital	Birmingham/Cardiff	King's College
Birmingham, Birmingham Children's Hospital	Birmingham/Cardiff	Oxford/Royal Free
Birmingham, Birmingham Heartlands Hospital	Birmingham/Cardiff	Oxford/Royal Free
Birmingham, City Hospital	Birmingham/Cardiff	Oxford/Royal Free
Birmingham, Queen Elizabeth Hospital Birmingham	Birmingham/Cardiff	Oxford/Royal Free
Bridgend, Princess of Wales Hospital	Birmingham/Cardiff	Oxford/Royal Free
Bristol, Bristol Royal Hospital for Children	Birmingham/Cardiff	King's College
Bristol, Bristol Royal Infirmary	Birmingham/Cardiff	King's College
Bristol, Southmead Hospital	Birmingham/Cardiff	Oxford/Royal Free
Bristol, Southmead Hospital	Birmingham/Cardiff	Oxford/Royal Free
Burton-On-Trent, Queen's Hospital	Birmingham/Cardiff	Leeds/Manchester
Cardiff, University of Wales Hospital	Birmingham/Cardiff	Oxford/Royal Free
Carmarthen, Glangwili General Hospital	Birmingham/Cardiff	Oxford/Royal Free
Coventry, University Hospital (Walsgrave)	Birmingham/Cardiff	Oxford/Royal Free
Crewe, Leighton Hospital	Birmingham/Cardiff	Leeds/Manchester
Dudley, Russells Hall Hospital	Birmingham/Cardiff	Oxford/Royal Free
Exeter, Royal Devon And Exeter Hospital (Wonford)	Birmingham/Cardiff	Newcastle
Haverford West, Withybush General Hospital	Birmingham/Cardiff	Oxford/Royal Free
Hereford, The County Hospital	Birmingham/Cardiff	Oxford/Royal Free
Kidderminster, Kidderminster General Hospital	Birmingham/Cardiff	Cambridge
Llanelli, Prince Philips Hospital	Birmingham/Cardiff	King's College
Merthyr Tydfil, Prince Charles Hospital	Birmingham/Cardiff	Oxford/Royal Free
Neath, Neath And Port Talbot Hospital	Birmingham/Cardiff	King's College
Newport, Royal Gwent Hospital	Birmingham/Cardiff	Oxford/Royal Free
Nuneaton, George Eliot Hospital	Birmingham/Cardiff	Oxford/Royal Free
Penarth, Llandough Hospital	Birmingham/Cardiff	King's College
Plymouth, Derriford Hospital	Birmingham/Cardiff	Newcastle
Pontypridd, Royal Glamorgan Hospital	Birmingham/Cardiff	King's College
Redditch, Alexandra Hospital	Birmingham/Cardiff	Oxford/Royal Free
Rugby, St Cross Hospital	Birmingham/Cardiff	Cambridge
Shrewsbury, Royal Shrewsbury Hospital	Birmingham/Cardiff	Leeds/Manchester
Solihull, Solihull Hospital	Birmingham/Cardiff	Oxford/Royal Free
Stafford, Stafford Hospital	Birmingham/Cardiff	Leeds/Manchester
Stoke-On-Trent, Royal Stoke University Hospital	Birmingham/Cardiff	Leeds/Manchester
Stoke-On-Trent, Royal Stoke University Hospital	Birmingham/Cardiff	Leeds/Manchester
Sutton Coldfield, Good Hope District General Hosp.	Birmingham/Cardiff	Oxford/Royal Free
Swansea, Morriston Hospital	Birmingham/Cardiff	King's College
Swansea, Singleton Hospital	Birmingham/Cardiff	King's College

Hospital	Suggested on-call sequence	
	1st	2nd
<i>Birmingham/Cardiff first on-call</i>		
Taunton, Taunton And Somerset Hospital (Musgrove Park)	Birmingham/Cardiff	Oxford/Royal Free
Telford, Princess Royal Hospital	Birmingham/Cardiff	Leeds/Manchester
Torquay, Torbay Hospital	Birmingham/Cardiff	Oxford/Royal Free
Truro, Royal Cornwall Hospital (Treliske)	Birmingham/Cardiff	King's College
Walsall, Walsall Manor Hospital	Birmingham/Cardiff	Oxford/Royal Free
Warwick, Warwick Hospital	Birmingham/Cardiff	Oxford/Royal Free
West Bromwich, Sandwell District General Hospital	Birmingham/Cardiff	Oxford/Royal Free
Weston-Super-Mare, Weston General Hospital	Birmingham/Cardiff	Oxford/Royal Free
Wolverhampton, New Cross Hospital	Birmingham/Cardiff	Leeds/Manchester
Worcester, Worcestershire Royal Hospital	Birmingham/Cardiff	Cambridge
Wrexham, Maelor General Hospital	Birmingham/Cardiff	Leeds/Manchester

Hospital	Suggested on-call sequence	
	1st	2nd
Cambridge first on-call		
Barnet, Barnet General Hospital	Cambridge	Oxford/Royal Free
Basildon, Basildon Hospital	Cambridge	King's College
Bedford, Bedford Hospital	Cambridge	Oxford/Royal Free
Boston, Pilgrim Hospital	Cambridge	Leeds/Manchester
Bury St Edmunds, West Suffolk Hospital	Cambridge	Oxford/Royal Free
Cambridge, Addenbrooke'S Hospital	Cambridge	Oxford/Royal Free
Chelmsford, Broomfield Hospital	Cambridge	King's College
Colchester, Colchester General Hospital	Cambridge	King's College
Derby, Royal Derby Hospital	Cambridge	Birmingham/Cardiff
Enfield, Chase Farm Hospital	Cambridge	Oxford/Royal Free
Grantham, Grantham And District Hospital	Cambridge	Leeds/Manchester
Great Yarmouth, The James Paget Hospital	Cambridge	King's College
Harlow, Princess Alexandra Hospital	Cambridge	Oxford/Royal Free
Huntingdon, Hinchingbrooke Hospital	Cambridge	Oxford/Royal Free
Ipswich, Ipswich Hospital	Cambridge	King's College
Kettering, Kettering General Hospital	Cambridge	Birmingham/Cardiff
Kings Lynn, Queen Elizabeth Hospital	Cambridge	Oxford/Royal Free
Leicester, Glenfield General Hospital	Cambridge	Birmingham/Cardiff
Leicester, Leicester General Hospital	Cambridge	Birmingham/Cardiff
Leicester, Leicester Royal Infirmary	Cambridge	Birmingham/Cardiff
Luton, Luton And Dunstable Hospital	Cambridge	Oxford/Royal Free
Milton Keynes, Milton Keynes General Hospital	Cambridge	Oxford/Royal Free
Northampton, Northampton General Hospital	Cambridge	Birmingham/Cardiff
Norwich, Norfolk And Norwich University Hospital	Cambridge	Oxford/Royal Free
Nottingham, Nottingham University Hospitals City Campus	Cambridge	Birmingham/Cardiff
Nottingham, Nottingham University Hospitals QMC Campus	Cambridge	Birmingham/Cardiff
Papworth, Papworth Hospital	Cambridge	Oxford/Royal Free
Peterborough, Peterborough City Hospital	Cambridge	Oxford/Royal Free
Romford, Queens Hospital	Cambridge	King's College
Stevenage, Lister Hospital	Cambridge	Oxford/Royal Free
Welwyn Garden City, Queen Elizabeth Ii Hospital	Cambridge	Oxford/Royal Free
Westcliff On Sea, Southend Hospital	Cambridge	King's College

Hospital	Suggested on-call sequence	
	1st	2nd
<i>Edinburgh first on-call</i>		
Aberdeen, Aberdeen Royal Infirmary	Edinburgh	Newcastle
Airdrie, Monklands District General Hospital	Edinburgh	Newcastle
Ayr, The Ayr Hospital	Edinburgh	Newcastle
Belfast, Antrim Hospital	Edinburgh	Newcastle
Belfast, Belfast City Hospital	Edinburgh	Newcastle
Belfast, Mater Infirmorum Hospital	Edinburgh	Newcastle
Belfast, Royal Belfast Hospital for Sick Children	Edinburgh	Newcastle
Belfast, Royal Jubilee Maternity Hospital	Edinburgh	Newcastle
Belfast, Royal Victoria Hospital	Edinburgh	Newcastle
Belfast, Royal Victoria Hospital	Edinburgh	Newcastle
Belfast, The Ulster Hospital	Edinburgh	Newcastle
Carlisle, Cumberland Infirmary	Edinburgh	Newcastle
Coleraine, Causeway Hospital	Edinburgh	Newcastle
Douglas, Nobles I-O-M Hospital	Edinburgh	Newcastle
Dumfries, Dumfries And Galloway Royal Infirmary	Edinburgh	Newcastle
Dundee, Ninewells Hospital	Edinburgh	Newcastle
East Kilbride, Hairmyres Hospital	Edinburgh	Newcastle
Edinburgh, Royal Hospital for Sick Children	Edinburgh	Newcastle
Edinburgh, Royal Infirmary of Edinburgh	Edinburgh	Newcastle
Edinburgh, Western General Hospital	Edinburgh	Newcastle
Enniskillen, South West Acute Hospital	Edinburgh	Newcastle
Falkirk, Falkirk Community Hospital	Edinburgh	Newcastle
Fort William, Belford Hospital	Edinburgh	Newcastle
Glasgow, Victoria Infirmary	Edinburgh	Newcastle
Glasgow, Glasgow Royal Infirmary	Edinburgh	Newcastle
Glasgow, Golden Jubilee National Hospital	Edinburgh	Newcastle
Glasgow, Queen Elizabeth University Hospital	Edinburgh	Newcastle
Glasgow, Queen Elizabeth University Hospital	Edinburgh	Newcastle
Glasgow, Stobhill General Hospital	Edinburgh	Newcastle
Glasgow, The Royal Hospital for Children	Edinburgh	Newcastle
Glasgow, The Royal Hospital for Children	Edinburgh	Newcastle
Greenock, Inverclyde Royal Hospital	Edinburgh	Newcastle
Inverness, Raigmore Hospital	Edinburgh	Newcastle
Isle of Lewis, Western Isles Hospital	Edinburgh	Newcastle
Kilmarnock, Crosshouse Hospital	Edinburgh	Newcastle
Kirkcaldy, Victoria Hospital	Edinburgh	Newcastle
Larbert, Forth Valley Royal Hospital	Edinburgh	Newcastle
Livingston, St John's Hospital	Edinburgh	Newcastle
Londonderry, Altnagelvin Area Hospital	Edinburgh	Newcastle
Magherafelt, Mid-Ulster Hospital	Edinburgh	Newcastle
Melrose, Borders General Hospital	Edinburgh	Newcastle
Northumbria, NSECH	Edinburgh	Newcastle
Paisley, Royal Alexandra Hospital	Edinburgh	Newcastle

Hospital	Suggested on-call sequence	
	1st	2nd
<i>Edinburgh first on-call</i>		
Perth, Perth Royal Infirmary	Edinburgh	Newcastle
Portadown, Craigavon Area Hospital	Edinburgh	Newcastle
St Helier, Jersey General Hospital	Edinburgh	Newcastle
Whitehaven, West Cumberland Hospital	Edinburgh	Newcastle
Wishaw, Wishaw General Hospital	Edinburgh	Newcastle

Hospital	Suggested on-call sequence	
	1st	2nd
King's College first on-call		
Ascot, Heatherwood Hospital	King's College	Oxford/Royal Free
Ashford, William Harvey Hospital	King's College	Oxford/Royal Free
Brighton, Royal Sussex County Hospital	King's College	Oxford/Royal Free
Camberley, Frimley Park Hospital	King's College	Oxford/Royal Free
Canterbury, Kent And Canterbury Hospital	King's College	Oxford/Royal Free
Carshalton, St Helier Hospital	King's College	Oxford/Royal Free
Chelsea, Chelsea And Westminster Hospital	King's College	Oxford/Royal Free
Chertsey, St Peter's Hospital	King's College	Oxford/Royal Free
Chichester, St Richard's Hospital	King's College	Oxford/Royal Free
Croydon, Croydon University Hospital	King's College	Oxford/Royal Free
Dartford, Darent Valley Hospital	King's College	Oxford/Royal Free
Eastbourne, Eastbourne District General Hospital	King's College	Oxford/Royal Free
Epsom, Epsom District Hospital	King's College	Oxford/Royal Free
Evelina Childrens Hospital	King's College	Oxford/Royal Free
Gillingham, Medway Hospital	King's College	Oxford/Royal Free
Guildford, Royal Surrey County Hospital	King's College	Oxford/Royal Free
Hastings, Conquest Hospital	King's College	Oxford/Royal Free
Haywards Heath, Hurstwood Park Hospital	King's College	Oxford/Royal Free
Haywards Heath, Princess Royal Hospital	King's College	Oxford/Royal Free
Ilford, King George Hospital	King's College	Oxford/Royal Free
Kingston, Kingston Hospital	King's College	Oxford/Royal Free
London, Charing Cross Hospital	King's College	Oxford/Royal Free
London, Cromwell Hospital	King's College	Oxford/Royal Free
London, Great Ormond Street Hospital For Children	King's College	Oxford/Royal Free
London, Guy's Hospital	King's College	Oxford/Royal Free
London, King's College Hospital	King's College	Oxford/Royal Free
London, London Chest Hospital	King's College	Oxford/Royal Free
London, London Bridge Hospital	King's College	Oxford/Royal Free
London, Newham General Hospital	King's College	Oxford/Royal Free
London, Royal Brompton Hospital	King's College	Oxford/Royal Free
London, St George's Hospital	King's College	Oxford/Royal Free
London, St Thomas' Hospital	King's College	Oxford/Royal Free
London, The Queen Elizabeth Hospital	King's College	Oxford/Royal Free
London, University Hospital Lewisham	King's College	Oxford/Royal Free
Maidstone, Maidstone Hospital	King's College	Oxford/Royal Free
Margate, The Queen Elizabeth The Queen Mother Hospital	King's College	Oxford/Royal Free
Newport, St Mary's Hospital	King's College	Oxford/Royal Free
Orpington, Princess Royal University Hospital	King's College	Oxford/Royal Free
Redhill, East Surrey Hospital	King's College	Oxford/Royal Free
Sidcup, Queen Mary's Hospital	King's College	Oxford/Royal Free
Southampton, Southampton University Hospitals	King's College	Newcastle
Southampton, Wessex Neurological Unit	King's College	Newcastle
Tunbridge Wells, Tunbridge Wells Hospital	King's College	Oxford/Royal Free

Hospital	Suggested on-call sequence	
	1st	2nd
<i>King's College first on-call</i>		
Worthing, St Barnabas Hospice	King's College	Oxford/Royal Free
Worthing, Worthing Hospital	King's College	Oxford/Royal Free

Hospital	Suggested on-call sequence	
	1st	2nd
Leeds/Manchester first on-call		
Ashton-Under-Lyne, Tameside General Hospital	Leeds/Manchester	Birmingham/Cardiff
Bangor, Ysbyty Gwynedd District General Hospital	Leeds/Manchester	Birmingham/Cardiff
Barnsley, Barnsley District General Hospital	Leeds/Manchester	Birmingham/Cardiff
Barrow-In-Furness, Furness General Hospital	Leeds/Manchester	Newcastle
Blackburn, Royal Blackburn Hospital	Leeds/Manchester	Birmingham/Cardiff
Blackpool, Blackpool Victoria Hospital	Leeds/Manchester	Birmingham/Cardiff
Bodelwyddan, Glan Clwyd District General Hospital	Leeds/Manchester	Birmingham/Cardiff
Bolton, Bolton Royal Infirmary	Leeds/Manchester	Birmingham/Cardiff
Bolton, Royal Bolton Hospital	Leeds/Manchester	Birmingham/Cardiff
Bradford, Bradford Royal Infirmary	Leeds/Manchester	Newcastle
Burnley, Burnley General Hospital	Leeds/Manchester	Birmingham/Cardiff
Bury, Bury General Hospital	Leeds/Manchester	Birmingham/Cardiff
Bury, Fairfield General Hospital	Leeds/Manchester	Birmingham/Cardiff
Cheadle, The Alexandra Hospital	Leeds/Manchester	Birmingham/Cardiff
Chester, Countess of Chester Hospital	Leeds/Manchester	Birmingham/Cardiff
Chesterfield, Chesterfield and N Derbyshire Royal Hospital	Leeds/Manchester	Birmingham/Cardiff
Chorley, Chorley And South Ribble District General Hospital	Leeds/Manchester	Birmingham/Cardiff
Cottingham, Castle Hill Hospital	Leeds/Manchester	Birmingham/Cardiff
Dewsbury, Dewsbury And District Hospital	Leeds/Manchester	Birmingham/Cardiff
Doncaster, Doncaster Royal Infirmary	Leeds/Manchester	Birmingham/Cardiff
Halifax, Calderdale Royal Hospital	Leeds/Manchester	Birmingham/Cardiff
Huddersfield, Huddersfield Royal Infirmary	Leeds/Manchester	Birmingham/Cardiff
Keighley, Airedale General Hospital	Leeds/Manchester	Newcastle
Lancaster, Royal Lancaster Infirmary	Leeds/Manchester	Birmingham/Cardiff
Leeds, Leeds General Infirmary	Leeds/Manchester	Newcastle
Leeds, St James's University Hospital	Leeds/Manchester	Newcastle
Liverpool, Alder Hey Children's Hospital	Leeds/Manchester	Birmingham/Cardiff
Liverpool, Broadgreen Hospital	Leeds/Manchester	Birmingham/Cardiff
Liverpool, Liverpool Heart and Chest Hospital	Leeds/Manchester	Birmingham/Cardiff
Liverpool, Royal Liverpool University Hospital	Leeds/Manchester	Birmingham/Cardiff
Liverpool, University Hospital Aintree	Leeds/Manchester	Birmingham/Cardiff
Liverpool, Walton Centre For Neurology and Neurosurgery	Leeds/Manchester	Birmingham/Cardiff
Liverpool, Walton Hospital	Leeds/Manchester	Birmingham/Cardiff
Macclesfield, Macclesfield District General Hospital	Leeds/Manchester	Birmingham/Cardiff
Manchester, Manchester Royal Infirmary	Leeds/Manchester	Birmingham/Cardiff
Manchester, North Manchester General Hospital	Leeds/Manchester	Birmingham/Cardiff
Manchester, Royal Manchester Children's Hospital	Leeds/Manchester	Birmingham/Cardiff
Manchester, St Marys Hospital	Leeds/Manchester	Birmingham/Cardiff
Manchester, Trafford General Hospital	Leeds/Manchester	Birmingham/Cardiff
Manchester, Withington Hospital	Leeds/Manchester	Birmingham/Cardiff
Manchester, Wythenshawe Hospital	Leeds/Manchester	Birmingham/Cardiff
Oldham, Royal Oldham Hospital (Rochdale Road)	Leeds/Manchester	Birmingham/Cardiff
Ormskirk, Ormskirk And District General Hospital	Leeds/Manchester	Birmingham/Cardiff

Hospital	Suggested on-call sequence	
	1st	2nd
<i>Leeds/Manchester first on-call</i>		
Pontefract, Pontefract General Infirmary	Leeds/Manchester	Birmingham/Cardiff
Prescot, Whiston Hospital	Leeds/Manchester	Birmingham/Cardiff
Preston, Royal Preston Hospital	Leeds/Manchester	Birmingham/Cardiff
Rochdale, Birch Hill Hospital	Leeds/Manchester	Birmingham/Cardiff
Rochdale, Rochdale Infirmary	Leeds/Manchester	Birmingham/Cardiff
Runcorn, Halton General Hospital	Leeds/Manchester	Birmingham/Cardiff
Salford, Salford Royal	Leeds/Manchester	Birmingham/Cardiff
Sheffield, Northern General Hospital	Leeds/Manchester	Birmingham/Cardiff
Sheffield, Royal Hallamshire Hospital	Leeds/Manchester	Birmingham/Cardiff
Sheffield, Sheffield Children's Hospital	Leeds/Manchester	Birmingham/Cardiff
Southport, Southport District General Hospital	Leeds/Manchester	Birmingham/Cardiff
Stockport, Stepping Hill Hospital	Leeds/Manchester	Birmingham/Cardiff
Sutton-In-Ashfield, King's Mill Hospital	Leeds/Manchester	Birmingham/Cardiff
Wakefield, Pinderfields General Hospital	Leeds/Manchester	Birmingham/Cardiff
Warrington, Warrington Hospital	Leeds/Manchester	Birmingham/Cardiff
Wigan, Royal Albert Edward Infirmary	Leeds/Manchester	Birmingham/Cardiff
Wirral, Arrowe Park Hospital	Leeds/Manchester	Birmingham/Cardiff
Worksop, Bassetlaw District General Hospital	Leeds/Manchester	Birmingham/Cardiff

Hospital	Suggested on-call sequence	
	1st	2nd
Newcastle first on-call		
Ashington, Wansbeck General Hospital	Newcastle	Edinburgh
Bishop Auckland, Bishop Auckland General Hospital	Newcastle	Leeds/Manchester
Darlington, Darlington Memorial Hospital	Newcastle	Leeds/Manchester
Durham, University Hospital of North Durham	Newcastle	Leeds/Manchester
Gateshead, Queen Elizabeth Hospital	Newcastle	Leeds/Manchester
Grimsby, Diana Princess of Wales Hospital	Newcastle	Leeds/Manchester
Guernsey, Princess Elizabeth Hospital	Newcastle	Edinburgh
Harrogate, Harrogate District Hospital	Newcastle	Leeds/Manchester
Hartlepool, University Hospital of Hartlepool	Newcastle	Leeds/Manchester
Hull, The Hull Royal Infirmary	Newcastle	Leeds/Manchester
Lincoln, Lincoln County Hospital	Newcastle	Leeds/Manchester
Middlesbrough, The James Cook University Hospital	Newcastle	Leeds/Manchester
Newcastle, Freeman Hospital	Newcastle	Leeds/Manchester
Newcastle, Newcastle General Hospital	Newcastle	Leeds/Manchester
Newcastle, Royal Victoria Infirmary	Newcastle	Leeds/Manchester
North Shields, North Tyneside General Hospital	Newcastle	Leeds/Manchester
Northallerton, Friarage Hospital	Newcastle	Leeds/Manchester
Rotherham, Rotherham District General Hospital	Newcastle	Leeds/Manchester
Scarborough, Scarborough Hospital	Newcastle	Leeds/Manchester
Scunthorpe, Scunthorpe General Hospital	Newcastle	Leeds/Manchester
South Shields, South Tyneside Dist. Gen. Hospital	Newcastle	Leeds/Manchester
Stockton-On-Tees, University Hospital of North Tees	Newcastle	Leeds/Manchester
Sunderland, Sunderland Royal Hospital	Newcastle	Leeds/Manchester
York, York District Hospital	Newcastle	Leeds/Manchester

Hospital	Suggested on-call sequence	
	1st	2nd
<i>Oxford/Royal Free first on-call</i>		
Aylesbury, Stoke Mandeville Hospital	Oxford/Royal Free	King's College
Banbury, Horton General Hospital	Oxford/Royal Free	Birmingham/Cardiff
Basingstoke, North Hampshire Hospital	Oxford/Royal Free	King's College
Bath, Royal United Hospital	Oxford/Royal Free	Birmingham/Cardiff
Bournemouth, Royal Bournemouth General Hospital	Oxford/Royal Free	King's College
Cheltenham, Cheltenham General Hospital	Oxford/Royal Free	Birmingham/Cardiff
Dorchester, Dorset County Hospital	Oxford/Royal Free	King's College
Gloucester, Gloucestershire Royal Hospital	Oxford/Royal Free	Birmingham/Cardiff
Harefield, Harefield Hospital	Oxford/Royal Free	King's College
Harrow, Northwick Park Hospital	Oxford/Royal Free	King's College
Hemel Hempstead, Hemel Hempstead General Hospital	Oxford/Royal Free	King's College
Isleworth, West Middlesex University Hospital	Oxford/Royal Free	King's College
London, Central Middlesex Hospital	Oxford/Royal Free	King's College
London, Hammersmith Hospital	Oxford/Royal Free	King's College
London, Heart Hospital	Oxford/Royal Free	King's College
London, Homerton Hospital	Oxford/Royal Free	King's College
London, National Hospital for Neurology and Neurosurgery	Oxford/Royal Free	King's College
London, North Middlesex Hospital	Oxford/Royal Free	King's College
London, St Bartholomew's Hospital	Oxford/Royal Free	King's College
London, St Mary's Hospital	Oxford/Royal Free	King's College
London, The London Clinic	Oxford/Royal Free	King's College
London, The Royal Free Hospital	Oxford/Royal Free	King's College
London, The Royal London Hospital (Whitechapel)	Oxford/Royal Free	King's College
London, The Wellington Hospital	Oxford/Royal Free	King's College
London, University College Hospital	Oxford/Royal Free	King's College
London, Whipps Cross Hospital	Oxford/Royal Free	King's College
London, Whittington Hospital	Oxford/Royal Free	King's College
Oxford, Churchill Hospital	Oxford/Royal Free	King's College
Oxford, John Radcliffe Hospital	Oxford/Royal Free	King's College
Poole, Poole General Hospital	Oxford/Royal Free	King's College
Portsmouth, Queen Alexandra Hospital	Oxford/Royal Free	Newcastle
Portsmouth, St Mary's Hospital	Oxford/Royal Free	Newcastle
Reading, Royal Berkshire Hospital	Oxford/Royal Free	King's College
Salisbury, Salisbury District Hospital	Oxford/Royal Free	King's College
Slough, Wexham Park Hospital	Oxford/Royal Free	King's College
Southall, Ealing Hospital	Oxford/Royal Free	King's College
Stanmore, Royal National Orthopaedic Hospital	Oxford/Royal Free	King's College
Swindon, Great Western Hospital	Oxford/Royal Free	King's College
Uxbridge, Hillingdon Hospital	Oxford/Royal Free	King's College
Watford, Watford General Hospital	Oxford/Royal Free	King's College
Winchester, Royal Hampshire County Hospital	Oxford/Royal Free	King's College
Wycombe, Wycombe General Hospital	Oxford/Royal Free	King's College
Yeovil, Yeovil District Hospital	Oxford/Royal Free	Birmingham/Cardiff

Appendix B
Proposed cardiothoracic NORS teams on-call sequences

Hospital	Suggested on-call sequence	
	1st	2nd
<i>Birmingham/Manchester first on-call</i>		
Abergavenny, Nevill Hall Hospital	Birmingham/Manchester	Harefield/Papworth
Aberystwyth, Bronglais Hospital	Birmingham/Manchester	Harefield/Papworth
Ashton-Under-Lyne, Tameside General Hospital	Birmingham/Manchester	Harefield/Papworth
Bangor, Ysbyty Gwynedd District General Hospital	Birmingham/Manchester	Harefield/Papworth
Barnsley, Barnsley District General Hospital	Birmingham/Manchester	Harefield/Papworth
Barnstaple, North Devon District Hospital	Birmingham/Manchester	Harefield/Papworth
Barrow-In-Furness, Furness General Hospital	Birmingham/Manchester	Harefield/Papworth
Birmingham, Birmingham Children's Hospital	Birmingham/Manchester	Harefield/Papworth
Birmingham, Birmingham Heartlands Hospital	Birmingham/Manchester	Harefield/Papworth
Birmingham, City Hospital	Birmingham/Manchester	Harefield/Papworth
Birmingham, Queen Elizabeth Hospital Birmingham	Birmingham/Manchester	Harefield/Papworth
Blackburn, Royal Blackburn Hospital	Birmingham/Manchester	Harefield/Papworth
Blackpool, Blackpool Victoria Hospital	Birmingham/Manchester	Harefield/Papworth
Bodelwyddan, Glan Clwyd District General Hospital	Birmingham/Manchester	Harefield/Papworth
Bolton, Bolton Royal Infirmary	Birmingham/Manchester	Harefield/Papworth
Bolton, Royal Bolton Hospital	Birmingham/Manchester	Harefield/Papworth
Bradford, Bradford Royal Infirmary	Birmingham/Manchester	Harefield/Papworth
Bridgend, Princess of Wales Hospital	Birmingham/Manchester	Harefield/Papworth
Bristol, Bristol Royal Hospital for Children	Birmingham/Manchester	Harefield/Papworth
Bristol, Bristol Royal Infirmary	Birmingham/Manchester	Harefield/Papworth
Bristol, Southmead Hospital	Birmingham/Manchester	Harefield/Papworth
Bristol, Southmead Hospital	Birmingham/Manchester	Harefield/Papworth
Burnley, Burnley General Hospital	Birmingham/Manchester	Harefield/Papworth
Burton-On-Trent, Queen's Hospital	Birmingham/Manchester	Harefield/Papworth
Bury, Bury General Hospital	Birmingham/Manchester	Harefield/Papworth
Bury, Fairfield General Hospital	Birmingham/Manchester	Harefield/Papworth
Cardiff, University of Wales Hospital	Birmingham/Manchester	Harefield/Papworth
Carmarthen, Glangwili General Hospital	Birmingham/Manchester	Harefield/Papworth
Cheadle, The Alexandra Hospital	Birmingham/Manchester	Harefield/Papworth
Cheltenham, Cheltenham General Hospital	Birmingham/Manchester	Harefield/Papworth
Chester, Countess of Chester Hospital	Birmingham/Manchester	Harefield/Papworth
Chesterfield, Chesterfield and N Derbyshire Royal Hospital	Birmingham/Manchester	Harefield/Papworth
Chorley, Chorley And South Ribble District General Hospital	Birmingham/Manchester	Harefield/Papworth
Cottingham, Castle Hill Hospital	Birmingham/Manchester	Harefield/Papworth
Coventry, University Hospital (Walsgrave)	Birmingham/Manchester	Harefield/Papworth
Crewe, Leighton Hospital	Birmingham/Manchester	Harefield/Papworth
Derby, Royal Derby Hospital	Birmingham/Manchester	Harefield/Papworth
Dewsbury, Dewsbury And District Hospital	Birmingham/Manchester	Harefield/Papworth
Doncaster, Doncaster Royal Infirmary	Birmingham/Manchester	Harefield/Papworth
Dudley, Russells Hall Hospital	Birmingham/Manchester	Harefield/Papworth

Hospital	Suggested on-call sequence	
	1st	2nd
<i>Birmingham/Manchester first on-call</i>		
Gloucester, Gloucestershire Royal Hospital	Birmingham/Manchester	Harefield/Papworth
Halifax, Calderdale Royal Hospital	Birmingham/Manchester	Harefield/Papworth
Haverford West, Withybush General Hospital	Birmingham/Manchester	Harefield/Papworth
Hereford, The County Hospital	Birmingham/Manchester	Harefield/Papworth
Huddersfield, Huddersfield Royal Infirmary	Birmingham/Manchester	Harefield/Papworth
Keighley, Airedale General Hospital	Birmingham/Manchester	Harefield/Papworth
Kidderminster, Kidderminster General Hospital	Birmingham/Manchester	Harefield/Papworth
Lancaster, Royal Lancaster Infirmary	Birmingham/Manchester	Harefield/Papworth
Leeds, Leeds General Infirmary	Birmingham/Manchester	Harefield/Papworth
Leeds, St James's University Hospital	Birmingham/Manchester	Harefield/Papworth
Liverpool, Alder Hey Children's Hospital	Birmingham/Manchester	Harefield/Papworth
Liverpool, Broadgreen Hospital	Birmingham/Manchester	Harefield/Papworth
Liverpool, Liverpool Heart and Chest Hospital	Birmingham/Manchester	Harefield/Papworth
Liverpool, Royal Liverpool University Hospital	Birmingham/Manchester	Harefield/Papworth
Liverpool, University Hospital Aintree	Birmingham/Manchester	Harefield/Papworth
Liverpool, Walton Centre For Neurology and Neurosurgery	Birmingham/Manchester	Harefield/Papworth
Liverpool, Walton Hospital	Birmingham/Manchester	Harefield/Papworth
Llanelli, Prince Philips Hospital	Birmingham/Manchester	Harefield/Papworth
Macclesfield, Macclesfield District General Hospital	Birmingham/Manchester	Harefield/Papworth
Manchester, Manchester Royal Infirmary	Birmingham/Manchester	Harefield/Papworth
Manchester, North Manchester General Hospital	Birmingham/Manchester	Harefield/Papworth
Manchester, Royal Manchester Children's Hospital	Birmingham/Manchester	Harefield/Papworth
Manchester, St Marys Hospital	Birmingham/Manchester	Harefield/Papworth
Manchester, Trafford General Hospital	Birmingham/Manchester	Harefield/Papworth
Manchester, Withington Hospital	Birmingham/Manchester	Harefield/Papworth
Manchester, Wythenshawe Hospital	Birmingham/Manchester	Harefield/Papworth
Merthyr Tydfil, Prince Charles Hospital	Birmingham/Manchester	Harefield/Papworth
Neath, Neath And Port Talbot Hospital	Birmingham/Manchester	Harefield/Papworth
Newport, Royal Gwent Hospital	Birmingham/Manchester	Harefield/Papworth
Nottingham, Nottingham University Hospitals City Campus	Birmingham/Manchester	Harefield/Papworth
Nottingham, Nottingham University Hospitals QMC Campus	Birmingham/Manchester	Harefield/Papworth
Nuneaton, George Eliot Hospital	Birmingham/Manchester	Harefield/Papworth
Oldham, Royal Oldham Hospital (Rochdale Road)	Birmingham/Manchester	Harefield/Papworth
Ormskirk, Ormskirk And District General Hospital	Birmingham/Manchester	Harefield/Papworth
Penarth, Llandough Hospital	Birmingham/Manchester	Harefield/Papworth
Pontefract, Pontefract General Infirmary	Birmingham/Manchester	Harefield/Papworth
Pontypridd, Royal Glamorgan Hospital	Birmingham/Manchester	Harefield/Papworth
Prescot, Whiston Hospital	Birmingham/Manchester	Harefield/Papworth
Preston, Royal Preston Hospital	Birmingham/Manchester	Harefield/Papworth
Redditch, Alexandra Hospital	Birmingham/Manchester	Harefield/Papworth
Rochdale, Birch Hill Hospital	Birmingham/Manchester	Harefield/Papworth
Rochdale, Rochdale Infirmary	Birmingham/Manchester	Harefield/Papworth
Rugby, St Cross Hospital	Birmingham/Manchester	Harefield/Papworth

Hospital	Suggested on-call sequence	
	1st	2nd
<i>Birmingham/Manchester first on-call</i>		
Runcorn, Halton General Hospital	Birmingham/Manchester	Harefield/Papworth
Salford, Salford Royal	Birmingham/Manchester	Harefield/Papworth
Sheffield, Northern General Hospital	Birmingham/Manchester	Harefield/Papworth
Sheffield, Royal Hallamshire Hospital	Birmingham/Manchester	Harefield/Papworth
Sheffield, Sheffield Children's Hospital	Birmingham/Manchester	Harefield/Papworth
Shrewsbury, Royal Shrewsbury Hospital	Birmingham/Manchester	Harefield/Papworth
Solihull, Solihull Hospital	Birmingham/Manchester	Harefield/Papworth
Southport, Southport District General Hospital	Birmingham/Manchester	Harefield/Papworth
Stafford, Stafford Hospital	Birmingham/Manchester	Harefield/Papworth
Stockport, Stepping Hill Hospital	Birmingham/Manchester	Harefield/Papworth
Stoke-On-Trent, Royal Stoke University Hospital	Birmingham/Manchester	Harefield/Papworth
Stoke-On-Trent, Royal Stoke University Hospital	Birmingham/Manchester	Harefield/Papworth
Sutton Coldfield, Good Hope District General Hosp.	Birmingham/Manchester	Harefield/Papworth
Sutton-In-Ashfield, King's Mill Hospital	Birmingham/Manchester	Harefield/Papworth
Swansea, Morriston Hospital	Birmingham/Manchester	Harefield/Papworth
Swansea, Singleton Hospital	Birmingham/Manchester	Harefield/Papworth
Taunton, Taunton And Somerset Hospital (Musgrove Park)	Birmingham/Manchester	Harefield/Papworth
Telford, Princess Royal Hospital	Birmingham/Manchester	Harefield/Papworth
Torquay, Torbay Hospital	Birmingham/Manchester	Harefield/Papworth
Truro, Royal Cornwall Hospital (Treliske)	Birmingham/Manchester	Harefield/Papworth
Wakefield, Pinderfields General Hospital	Birmingham/Manchester	Harefield/Papworth
Walsall, Walsall Manor Hospital	Birmingham/Manchester	Harefield/Papworth
Warrington, Warrington Hospital	Birmingham/Manchester	Harefield/Papworth
Warwick, Warwick Hospital	Birmingham/Manchester	Harefield/Papworth
West Bromwich, Sandwell District General Hospital	Birmingham/Manchester	Harefield/Papworth
Weston-Super-Mare, Weston General Hospital	Birmingham/Manchester	Harefield/Papworth
Wigan, Royal Albert Edward Infirmary	Birmingham/Manchester	Harefield/Papworth
Wirral, Arrowe Park Hospital	Birmingham/Manchester	Harefield/Papworth
Wolverhampton, New Cross Hospital	Birmingham/Manchester	Harefield/Papworth
Worcester, Worcestershire Royal Hospital	Birmingham/Manchester	Harefield/Papworth
Worksop, Bassetlaw District General Hospital	Birmingham/Manchester	Harefield/Papworth
Wrexham, Maelor General Hospital	Birmingham/Manchester	Harefield/Papworth
Yeovil, Yeovil District Hospital	Birmingham/Manchester	Harefield/Papworth

Hospital	Suggested on-call sequence	
	1st	2nd
<i>Newcastle/Glasgow first on-call</i>		
Aberdeen, Aberdeen Royal Infirmary	Newcastle/Glasgow	Birmingham/Manchester
Airdrie, Monklands District General Hospital	Newcastle/Glasgow	Birmingham/Manchester
Ashington, Wansbeck General Hospital	Newcastle/Glasgow	Birmingham/Manchester
Ayr, The Ayr Hospital	Newcastle/Glasgow	Birmingham/Manchester
Belfast, Antrim Hospital	Newcastle/Glasgow	Birmingham/Manchester
Belfast, Belfast City Hospital	Newcastle/Glasgow	Birmingham/Manchester
Belfast, Mater Infirmorum Hospital	Newcastle/Glasgow	Birmingham/Manchester
Belfast, Royal Belfast Hospital for Sick Children	Newcastle/Glasgow	Birmingham/Manchester
Belfast, Royal Jubilee Maternity Hospital	Newcastle/Glasgow	Birmingham/Manchester
Belfast, Royal Victoria Hospital	Newcastle/Glasgow	Birmingham/Manchester
Belfast, The Ulster Hospital	Newcastle/Glasgow	Birmingham/Manchester
Bishop Auckland, Bishop Auckland General Hospital	Newcastle/Glasgow	Birmingham/Manchester
Carlisle, Cumberland Infirmary	Newcastle/Glasgow	Birmingham/Manchester
Coleraine, Causeway Hospital	Newcastle/Glasgow	Birmingham/Manchester
Darlington, Darlington Memorial Hospital	Newcastle/Glasgow	Birmingham/Manchester
Douglas, Nobles I-O-M Hospital	Newcastle/Glasgow	Birmingham/Manchester
Dumfries, Dumfries And Galloway Royal Infirmary	Newcastle/Glasgow	Birmingham/Manchester
Dundee, Ninewells Hospital	Newcastle/Glasgow	Birmingham/Manchester
Durham, University Hospital of North Durham	Newcastle/Glasgow	Birmingham/Manchester
East Kilbride, Hairmyres Hospital	Newcastle/Glasgow	Birmingham/Manchester
Edinburgh, Royal Hospital for Sick Children	Newcastle/Glasgow	Birmingham/Manchester
Edinburgh, Royal Infirmary of Edinburgh	Newcastle/Glasgow	Birmingham/Manchester
Edinburgh, Western General Hospital	Newcastle/Glasgow	Birmingham/Manchester
Enniskillen, South West Acute Hospital	Newcastle/Glasgow	Birmingham/Manchester
Falkirk, Falkirk Community Hospital	Newcastle/Glasgow	Birmingham/Manchester
Fort William, Belford Hospital	Newcastle/Glasgow	Birmingham/Manchester
Gateshead, Queen Elizabeth Hospital	Newcastle/Glasgow	Birmingham/Manchester
Glasgow, Victoria Infirmary	Newcastle/Glasgow	Birmingham/Manchester
Glasgow, Glasgow Royal Infirmary	Newcastle/Glasgow	Birmingham/Manchester
Glasgow, Golden Jubilee National Hospital	Newcastle/Glasgow	Birmingham/Manchester
Glasgow, Queen Elizabeth University Hospital	Newcastle/Glasgow	Birmingham/Manchester
Glasgow, Queen Elizabeth University Hospital	Newcastle/Glasgow	Birmingham/Manchester
Glasgow, Stobhill General Hospital	Newcastle/Glasgow	Birmingham/Manchester
Glasgow, The Royal Hospital for Children	Newcastle/Glasgow	Birmingham/Manchester
Glasgow, The Royal Hospital for Children	Newcastle/Glasgow	Birmingham/Manchester
Greenock, Inverclyde Royal Hospital	Newcastle/Glasgow	Birmingham/Manchester
Grimsby, Diana Princess of Wales Hospital	Newcastle/Glasgow	Birmingham/Manchester
Guernsey, Princess Elizabeth Hospital	Newcastle/Glasgow	Birmingham/Manchester
Harrogate, Harrogate District Hospital	Newcastle/Glasgow	Birmingham/Manchester
Hartlepool, University Hospital of Hartlepool	Newcastle/Glasgow	Birmingham/Manchester
Hull, The Hull Royal Infirmary	Newcastle/Glasgow	Birmingham/Manchester
Inverness, Raigmore Hospital	Newcastle/Glasgow	Birmingham/Manchester
Isle Of Lewis, Western Isles Hospital	Newcastle/Glasgow	Birmingham/Manchester

Hospital	Suggested on-call sequence	
	1st	2nd
<i>Newcastle/Glasgow first on-call</i>		
Kilmarnock, Crosshouse Hospital	Newcastle/Glasgow	Birmingham/Manchester
Kirkcaldy, Victoria Hospital	Newcastle/Glasgow	Birmingham/Manchester
Larbert, Forth Valley Royal Hospital	Newcastle/Glasgow	Birmingham/Manchester
Lincoln, Lincoln County Hospital	Newcastle/Glasgow	Birmingham/Manchester
Livingston, St John's Hospital	Newcastle/Glasgow	Birmingham/Manchester
Londonderry, Altnagelvin Area Hospital	Newcastle/Glasgow	Birmingham/Manchester
Magherafelt, Mid-Ulster Hospital	Newcastle/Glasgow	Birmingham/Manchester
Melrose, Borders General Hospital	Newcastle/Glasgow	Birmingham/Manchester
Middlesbrough, The James Cook University Hospital	Newcastle/Glasgow	Birmingham/Manchester
Newcastle, Freeman Hospital	Newcastle/Glasgow	Birmingham/Manchester
Newcastle, Newcastle General Hospital	Newcastle/Glasgow	Birmingham/Manchester
Newcastle, Royal Victoria Infirmary	Newcastle/Glasgow	Birmingham/Manchester
North Shields, North Tyneside General Hospital	Newcastle/Glasgow	Birmingham/Manchester
Northallerton, Friarage Hospital	Newcastle/Glasgow	Birmingham/Manchester
Northumbria, NSECH	Newcastle/Glasgow	Birmingham/Manchester
Paisley, Royal Alexandra Hospital	Newcastle/Glasgow	Birmingham/Manchester
Perth, Perth Royal Infirmary	Newcastle/Glasgow	Birmingham/Manchester
Portadown, Craigavon Area Hospital	Newcastle/Glasgow	Birmingham/Manchester
Rotherham, Rotherham District General Hospital	Newcastle/Glasgow	Birmingham/Manchester
Scarborough, Scarborough Hospital	Newcastle/Glasgow	Birmingham/Manchester
Scunthorpe, Scunthorpe General Hospital	Newcastle/Glasgow	Birmingham/Manchester
South Shields, South Tyneside Dist. Gen. Hospital	Newcastle/Glasgow	Birmingham/Manchester
St Helier, Jersey General Hospital	Newcastle/Glasgow	Birmingham/Manchester
Stockton-On-Tees, University Hospital of North Tees	Newcastle/Glasgow	Birmingham/Manchester
Sunderland, Sunderland Royal Hospital	Newcastle/Glasgow	Birmingham/Manchester
Whitehaven, West Cumberland Hospital	Newcastle/Glasgow	Birmingham/Manchester
Wishaw, Wishaw General Hospital	Newcastle/Glasgow	Birmingham/Manchester
York, York District Hospital	Newcastle/Glasgow	Birmingham/Manchester

Hospital	Suggested on-call sequence	
	1st	2nd
<i>Harefield/Papworth first on-call</i>		
Ascot, Heatherwood Hospital	Harefield/Papworth	Newcastle/Glasgow
Ashford, William Harvey Hospital	Harefield/Papworth	Newcastle/Glasgow
Aylesbury, Stoke Mandeville Hospital	Harefield/Papworth	Newcastle/Glasgow
Banbury, Horton General Hospital	Harefield/Papworth	Newcastle/Glasgow
Barnet, Barnet General Hospital	Harefield/Papworth	Newcastle/Glasgow
Basildon, Basildon Hospital	Harefield/Papworth	Newcastle/Glasgow
Basingstoke, North Hampshire Hospital	Harefield/Papworth	Newcastle/Glasgow
Bath, Royal United Hospital	Harefield/Papworth	Newcastle/Glasgow
Bedford, Bedford Hospital	Harefield/Papworth	Newcastle/Glasgow
Boston, Pilgrim Hospital	Harefield/Papworth	Newcastle/Glasgow
Bournemouth, Royal Bournemouth General Hospital	Harefield/Papworth	Newcastle/Glasgow
Brighton, Royal Sussex County Hospital	Harefield/Papworth	Newcastle/Glasgow
Bury St Edmunds, West Suffolk Hospital	Harefield/Papworth	Newcastle/Glasgow
Camberley, Frimley Park Hospital	Harefield/Papworth	Newcastle/Glasgow
Cambridge, Addenbrooke's Hospital	Harefield/Papworth	Newcastle/Glasgow
Canterbury, Kent And Canterbury Hospital	Harefield/Papworth	Newcastle/Glasgow
Carshalton, St Helier Hospital	Harefield/Papworth	Newcastle/Glasgow
Chelmsford, Broomfield Hospital	Harefield/Papworth	Newcastle/Glasgow
Chelsea, Chelsea And Westminster Hospital	Harefield/Papworth	Newcastle/Glasgow
Chertsey, St Peter's Hospital	Harefield/Papworth	Newcastle/Glasgow
Chichester, St Richard's Hospital	Harefield/Papworth	Newcastle/Glasgow
Colchester, Colchester General Hospital	Harefield/Papworth	Newcastle/Glasgow
Croydon, Croydon University Hospital	Harefield/Papworth	Newcastle/Glasgow
Dartford, Darent Valley Hospital	Harefield/Papworth	Newcastle/Glasgow
Dorchester, Dorset County Hospital	Harefield/Papworth	Newcastle/Glasgow
Eastbourne, Eastbourne District General Hospital	Harefield/Papworth	Newcastle/Glasgow
Enfield, Chase Farm Hospital	Harefield/Papworth	Newcastle/Glasgow
Epsom, Epsom District Hospital	Harefield/Papworth	Newcastle/Glasgow
Evelina Childrens Hospital	Harefield/Papworth	Newcastle/Glasgow
Exeter, Royal Devon And Exeter Hospital (Wonford)	Harefield/Papworth	Newcastle/Glasgow
Gillingham, Medway Hospital	Harefield/Papworth	Newcastle/Glasgow
Grantham, Grantham And District Hospital	Harefield/Papworth	Newcastle/Glasgow
Great Yarmouth, The James Paget Hospital	Harefield/Papworth	Newcastle/Glasgow
Guildford, Royal Surrey County Hospital	Harefield/Papworth	Newcastle/Glasgow
Harefield, Harefield Hospital	Harefield/Papworth	Newcastle/Glasgow
Harlow, Princess Alexandra Hospital	Harefield/Papworth	Newcastle/Glasgow
Harrow, Northwick Park Hospital	Harefield/Papworth	Newcastle/Glasgow
Hastings, Conquest Hospital	Harefield/Papworth	Newcastle/Glasgow
Haywards Heath, Hurstwood Park Hospital	Harefield/Papworth	Newcastle/Glasgow
Haywards Heath, Princess Royal Hospital	Harefield/Papworth	Newcastle/Glasgow
Hemel Hempstead, Hemel Hempstead General Hospital	Harefield/Papworth	Newcastle/Glasgow
Huntingdon, Hinchingbrooke Hospital	Harefield/Papworth	Newcastle/Glasgow
Ilford, King George Hospital	Harefield/Papworth	Newcastle/Glasgow

Ipswich, Ipswich Hospital	Harefield/Papworth	Newcastle/Glasgow
Isleworth, West Middlesex University Hospital	Harefield/Papworth	Newcastle/Glasgow
Kettering, Kettering General Hospital	Harefield/Papworth	Newcastle/Glasgow
Kings Lynn, Queen Elizabeth Hospital	Harefield/Papworth	Newcastle/Glasgow
Kingston, Kingston Hospital	Harefield/Papworth	Newcastle/Glasgow
Leicester, Glenfield General Hospital	Harefield/Papworth	Newcastle/Glasgow
Leicester, Leicester General Hospital	Harefield/Papworth	Newcastle/Glasgow
Leicester, Leicester Royal Infirmary	Harefield/Papworth	Newcastle/Glasgow
London, Central Middlesex Hospital	Harefield/Papworth	Newcastle/Glasgow
London, Charing Cross Hospital	Harefield/Papworth	Newcastle/Glasgow
London, Cromwell Hospital	Harefield/Papworth	Newcastle/Glasgow
London, Great Ormond Street Hospital for Children	Harefield/Papworth	Newcastle/Glasgow
London, Guy's Hospital	Harefield/Papworth	Newcastle/Glasgow
London, Hammersmith Hospital	Harefield/Papworth	Newcastle/Glasgow
London, Heart Hospital	Harefield/Papworth	Newcastle/Glasgow
London, Homerton Hospital	Harefield/Papworth	Newcastle/Glasgow
London, King's College Hospital	Harefield/Papworth	Newcastle/Glasgow
London, London Chest Hospital	Harefield/Papworth	Newcastle/Glasgow
London, London Bridge Hospital	Harefield/Papworth	Newcastle/Glasgow
London, National Hospital for Neurology and Neurosurgery	Harefield/Papworth	Newcastle/Glasgow
London, Newham General Hospital	Harefield/Papworth	Newcastle/Glasgow
London, North Middlesex Hospital	Harefield/Papworth	Newcastle/Glasgow
London, Royal Brompton Hospital	Harefield/Papworth	Newcastle/Glasgow
London, St Bartholomew's Hospital	Harefield/Papworth	Newcastle/Glasgow
London, St George's Hospital	Harefield/Papworth	Newcastle/Glasgow
London, St Mary's Hospital	Harefield/Papworth	Newcastle/Glasgow
London, St Thomas' Hospital	Harefield/Papworth	Newcastle/Glasgow
London, The London Clinic	Harefield/Papworth	Newcastle/Glasgow
London, The Queen Elizabeth Hospital	Harefield/Papworth	Newcastle/Glasgow
London, The Royal Free Hospital	Harefield/Papworth	Newcastle/Glasgow
London, The Royal London Hospital (Whitechapel)	Harefield/Papworth	Newcastle/Glasgow
London, The Wellington Hospital	Harefield/Papworth	Newcastle/Glasgow
London, University College Hospital	Harefield/Papworth	Newcastle/Glasgow
London, University Hospital Lewisham	Harefield/Papworth	Newcastle/Glasgow
London, Whipps Cross Hospital	Harefield/Papworth	Newcastle/Glasgow
London, Whittington Hospital	Harefield/Papworth	Newcastle/Glasgow
Luton, Luton And Dunstable Hospital	Harefield/Papworth	Newcastle/Glasgow
Maidstone, Maidstone Hospital	Harefield/Papworth	Newcastle/Glasgow
Margate, The Queen Elizabeth The Queen Mother Hospital	Harefield/Papworth	Newcastle/Glasgow
Milton Keynes, Milton Keynes General Hospital	Harefield/Papworth	Newcastle/Glasgow
Newport, St Mary's Hospital	Harefield/Papworth	Newcastle/Glasgow
Northampton, Northampton General Hospital	Harefield/Papworth	Newcastle/Glasgow
Norwich, Norfolk And Norwich University Hospital	Harefield/Papworth	Newcastle/Glasgow
Orpington, Princess Royal University Hospital	Harefield/Papworth	Newcastle/Glasgow
Oxford, Churchill Hospital	Harefield/Papworth	Newcastle/Glasgow
Oxford, John Radcliffe Hospital	Harefield/Papworth	Newcastle/Glasgow

Papworth, Papworth Hospital	Harefield/Papworth	Newcastle/Glasgow
Peterborough, Peterborough City Hospital	Harefield/Papworth	Newcastle/Glasgow
Plymouth, Derriford Hospital	Harefield/Papworth	Newcastle/Glasgow
Poole, Poole General Hospital	Harefield/Papworth	Newcastle/Glasgow
Portsmouth, Queen Alexandra Hospital	Harefield/Papworth	Newcastle/Glasgow
Portsmouth, St Mary's Hospital	Harefield/Papworth	Newcastle/Glasgow
Reading, Royal Berkshire Hospital	Harefield/Papworth	Newcastle/Glasgow
Redhill, East Surrey Hospital	Harefield/Papworth	Newcastle/Glasgow
Romford, Queens Hospital	Harefield/Papworth	Newcastle/Glasgow
Salisbury, Salisbury District Hospital	Harefield/Papworth	Newcastle/Glasgow
Sidcup, Queen Mary's Hospital	Harefield/Papworth	Newcastle/Glasgow
Slough, Wexham Park Hospital	Harefield/Papworth	Newcastle/Glasgow
Southall, Ealing Hospital	Harefield/Papworth	Newcastle/Glasgow
Southampton, Southampton University Hospitals	Harefield/Papworth	Newcastle/Glasgow
Southampton, Wessex Neurological Unit	Harefield/Papworth	Newcastle/Glasgow
Stanmore, Royal National Orthopaedic Hospital	Harefield/Papworth	Newcastle/Glasgow
Stevenage, Lister Hospital	Harefield/Papworth	Newcastle/Glasgow
Swindon, Great Western Hospital	Harefield/Papworth	Newcastle/Glasgow
Tunbridge Wells, Tunbridge Wells Hospital	Harefield/Papworth	Newcastle/Glasgow
Uxbridge, Hillingdon Hospital	Harefield/Papworth	Newcastle/Glasgow
Watford, Watford General Hospital	Harefield/Papworth	Newcastle/Glasgow
Welwyn Garden City, Queen Elizabeth II Hospital	Harefield/Papworth	Newcastle/Glasgow
Westcliff On Sea, Southend Hospital	Harefield/Papworth	Newcastle/Glasgow
Winchester, Royal Hampshire County Hospital	Harefield/Papworth	Newcastle/Glasgow
Worthing, St Barnabas Hospice	Harefield/Papworth	Newcastle/Glasgow
Worthing, Worthing Hospital	Harefield/Papworth	Newcastle/Glasgow
Wycombe, Wycombe General Hospital	Harefield/Papworth	Newcastle/Glasgow