

Appendix A: Data completeness and unit participation

For each NNAP audit measure, there is an associated rate of missing entries. The rate of missing entries is described as M/T , where M is the number of missing entries and T is the number of all cases. To summarise data completeness across all NNAP measures, an average was taken of the rates of missing entries associated with a given unit. This methodology was applied to the 2018 data shown in this report (see Table A).

ROP was not included in the data completeness summary measure as it is not possible to differentiate between a negative (“never screened”) outcome and missing data. Infection data are known to be incompletely entered on to the BadgerNet system and are omitted from the data completeness summary measure. In addition, it is not possible to calculate a rate of missing entries for the number of care days given for the minimising avoidable mother baby separation measures, so these measures are also omitted.

For the NEC, BPD and Encephalopathy measures, the rate of missing entries is derived from the completeness of the daily or episodic data items used to categorise the results for these measures for the 2018 data year. This ensures units’ completeness is measured using the information they have responsibility for inputting into BadgerNet.

To calculate the number of eligible babies for one or more NNAP measures, a sum of all the eligible babies reported for each unit for the 2018 data year is taken.

Encephalopathy, mortality, and nurse staffing measures are not included in this count. Only eligible babies for the 2018 data year for the BPD measure are included in this count.

For full details of unit level missing data by measure, please see NNAP Online (www.nnap.rcpch.ac.uk/).

Table A: NNAP participating neonatal units¹ (2018 data), average missing data and eligible babies.

Neonatal unit	Unit level	Average missing data (%)	Number of babies eligible for one or more NNAP measures
ENGLAND			
East Midlands Neonatal ODN			
Pilgrim Hospital	SCU	9.1%	222
Queen's Hospital, Burton on Trent	SCU	1.4%	252
Kettering General Hospital	LNU	6.3%	288
King's Mill Hospital	LNU	4.0%	236
Lincoln County Hospital	LNU	4.5%	352
Northampton General Hospital	LNU	1.6%	339
Royal Derby Hospital	LNU	6.4%	398
Leicester Neonatal Service	NICU	4.7%	1,346
Nottingham City Hospital	NICU	4.5%	444
Nottingham University Hospital (QMC)	NICU	4.0%	394
East of England Neonatal ODN			
Bedford Hospital	SCU	6.0%	276
Hinchingbrooke Hospital	SCU	9.8%	174
James Paget Hospital	SCU	3.5%	211
West Suffolk Hospital	SCU	4.4%	278
Basildon Hospital	LNU	7.7%	423
Broomfield Hospital	LNU	4.5%	326
Colchester General Hospital	LNU	2.7%	413
Ipswich Hospital	LNU	1.1%	649
Lister Hospital	LNU	2.2%	693
Peterborough City Hospital	LNU	4.5%	394
Princess Alexandra Hospital	LNU	8.5%	485
Queen Elizabeth Hospital, King's Lynn	LNU	8.0%	336
Southend Hospital	LNU	7.5%	285
Watford General Hospital	LNU	0.3%	551
Luton & Dunstable Hospital	NICU	1.3%	596
Norfolk & Norwich University Hospital	NICU	2.3%	615
Rosie Maternity Hospital, Addenbrookes	NICU	1.4%	749
North Central & North East London Neonatal ODN			
The Royal Free Hospital	SCU	7.4%	298
Barnet Hospital	LNU	4.3%	571
Newham General Hospital	LNU	12.4%	596
North Middlesex University Hospital	LNU	0.3%	445
Queen's Hospital, Romford	LNU	1.1%	525

¹ 1 eligible unit did not participate in 2018; St. John's Hospital, Livingstone.

Whipps Cross University Hospital	LNU	17.5%	471
Whittington Hospital	LNU	4.7%	463
Homerton Hospital	NICU	1.1%	796
The Royal London Hospital	NICU	15.9%	606
University College Hospital	NICU	3.6%	795
North West London Neonatal ODN			
West Middlesex University Hospital	SCU	9.5%	508
Hillingdon Hospital	LNU	1.3%	423
Northwick Park Hospital	LNU	9.7%	422
St Mary's Hospital, London	LNU	1.2%	371
Chelsea & Westminster Hospital	NICU	16.2%	635
Queen Charlotte's Hospital	NICU	0.5%	482
North West Neonatal ODN			
Furness General Hospital	SCU	0.4%	76
Countess of Chester Hospital	LNU	2.9%	284
Leighton Hospital	LNU	0.0%	263
Macclesfield District General Hospital	LNU	0.7%	135
North Manchester General Hospital	LNU	7.8%	409
Ormskirk District General Hospital	LNU	10.6%	205
Royal Albert Edward Infirmary	LNU	0.4%	257
Royal Lancaster Infirmary	LNU	1.4%	205
Stepping Hill Hospital	LNU	2.3%	274
Tameside General Hospital	LNU	2.5%	253
Victoria Hospital, Blackpool	LNU	1.5%	350
Warrington Hospital	LNU	9.0%	386
Whiston Hospital	LNU	4.1%	338
Wythenshawe Hospital	LNU	0.4%	404
Arrowe Park Hospital	NICU	5.9%	312
Lancashire Women & Newborn Centre	NICU	4.8%	609
Liverpool Women's Hospital	NICU	2.2%	829
Royal Bolton Hospital	NICU	6.9%	567
Royal Oldham Hospital	NICU	3.2%	565
Royal Preston Hospital	NICU	3.2%	406
St Mary's Hospital, Manchester	NICU	6.2%	1011
Northern Neonatal ODN			
Cumberland Infirmary	SCU	13.1%	162
Darlington Memorial Hospital	SCU	10.2%	147
Northumbria Specialist Emergency Care Hospital	SCU	1.0%	199
Queen Elizabeth Hospital, Gateshead	SCU	12.0%	195
South Tyneside District Hospital	SCU	18.0%	66
University Hospital of North Durham	SCU	9.7%	243
West Cumberland Hospital	SCU	9.4%	117

Appendix A: National Neonatal Audit Programme 2019 report on 2018 data

James Cook University Hospital	NICU	1.7%	408
Royal Victoria Infirmary	NICU	10.6%	658
Sunderland Royal Hospital	NICU	0.0%	324
University Hospital of North Tees	NICU	0.4%	332
South East Coast Neonatal ODN			
Conquest Hospital	SCU	2.3%	246
Darent Valley Hospital	SCU	13.0%	454
Princess Royal Hospital	SCU	6.7%	213
Queen Elizabeth The Queen Mother Hospital	SCU	0.0%	264
Royal Surrey County Hospital	SCU	3.1%	211
Worthing Hospital	SCU	0.0%	195
East Surrey Hospital	LNU	3.9%	480
Frimley Park Hospital	LNU	0.4%	467
Tunbridge Wells Hospital	LNU	3.3%	493
Medway Maritime Hospital	NICU	5.2%	705
Royal Sussex County Hospital	NICU	3.3%	446
St Peter's Hospital	NICU	1.1%	430
William Harvey Hospital	NICU	1.5%	361
South London Neonatal ODN			
Epsom General Hospital	SCU	0.0%	152
Princess Royal University Hospital	SCU	13.8%	413
Croydon University Hospital	LNU	5.0%	360
Kingston Hospital	LNU	10.0%	385
Queen Elizabeth Hospital, Woolwich	LNU	15.2%	319
St Helier Hospital	LNU	0.0%	300
University Hospital Lewisham	LNU	7.9%	389
Guy's & St Thomas' Hospital	NICU	4.8%	738
King's College Hospital	NICU	3.1%	667
St George's Hospital	NICU	5.9%	513
South West Neonatal ODN			
North Devon District Hospital	SCU	3.4%	112
Torbay Hospital	SCU	0.4%	276
Yeovil District Hospital	SCU	1.9%	148
Gloucestershire Royal Hospital	LNU	4.5%	574
Great Western Hospital	LNU	5.9%	427
Musgrove Park Hospital	LNU	3.6%	350
Royal Cornwall Hospital	LNU	2.1%	418
Royal Devon & Exeter Hospital	LNU	1.5%	377
Royal United Hospital	LNU	3.0%	491
Derriford Hospital	NICU	4.4%	441
Southmead Hospital	NICU	7.2%	624
St Michael's Hospital	NICU	3.0%	546

Southern West Midlands Neonatal ODN			
George Eliot Hospital	SCU	10.9%	201
Good Hope Hospital	SCU	1.2%	382
Hereford County Hospital	SCU	2.2%	187
Warwick Hospital	SCU	0.9%	325
Worcestershire Royal Hospital	LNU	4.6%	441
Birmingham Heartlands Hospital	NICU	2.7%	757
Birmingham Women's Hospital	NICU	9.7%	1,175
University Hospital Coventry	NICU	1.7%	560
Staffordshire, Shropshire and Black Country Neonatal ODN			
City Hospital, Birmingham	LNU	9.3%	698
Manor Hospital	LNU	0.9%	354
Princess Royal Hospital, Telford	LNU	1.0%	431
Russells Hall Hospital	LNU	2.1%	448
New Cross Hospital	NICU	0.9%	562
Royal Stoke University Hospital	NICU	2.0%	512
Thames Valley & Wessex ODN			
Dorset County Hospital	SCU	0.6%	143
Basingstoke & North Hampshire Hospital	LNU	5.8%	246
Milton Keynes Foundation Trust Hospital	LNU	1.6%	313
Poole Hospital	LNU	1.8%	422
Royal Berkshire Hospital	LNU	1.6%	422
Royal Hampshire County Hospital	LNU	3.2%	261
Salisbury District Hospital	LNU	3.2%	243
St Mary's Hospital, Isle of Wight	LNU	10.5%	119
St Richard's Hospital	LNU	0.7%	331
Stoke Mandeville Hospital	LNU	1.3%	374
Wexham Park Hospital	LNU	1.4%	335
John Radcliffe Hospital	NICU	0.1%	766
Princess Anne Hospital	NICU	3.8%	580
Queen Alexandra Hospital	NICU	2.1%	494
Yorkshire & Humber Neonatal ODN			
Bassetlaw District General Hospital	SCU	0.1%	97
Harrogate District Hospital	SCU	6.3%	121
Scarborough General Hospital	SCU	2.2%	171
Airedale General Hospital	LNU	2.7%	179
Barnsley District General Hospital	LNU	3.2%	275
Calderdale Royal Hospital	LNU	0.2%	436
Chesterfield & North Derbyshire Royal Hospital	LNU	1.9%	248
Diana Princess of Wales Hospital	LNU	0.5%	331
Doncaster Royal Infirmary	LNU	0.3%	288
Pinderfields General Hospital	LNU	1.8%	431

Rotherham District General Hospital	LNU	5.3%	254
Scunthorpe General Hospital	LNU	2.1%	238
York District Hospital	LNU	0.3%	305
Bradford Royal Infirmary	NICU	1.7%	511
Hull Royal Infirmary	NICU	6.1%	479
Leeds Neonatal Service	NICU	3.0%	1,019
The Jessop Wing, Sheffield	NICU	1.0%	675
ISLE OF MAN			
Nobles Hospital	LNU	11.5%	104
SCOTLAND			
Borders General Hospital, Melrose	SCU	4.2%	73
Dr Gray's Hospital, Elgin ²	SCU	14.0%	41
Dumfries & Galloway Royal Infirmary	LNU	18.7%	163
Forth Valley Royal Hospital	LNU	0.9%	302
Raigmore Hospital, Inverness	LNU	3.7%	226
Royal Alexandra Hospital, Paisley	LNU	2.8%	394
Aberdeen Maternity Hospital	NICU	3.1%	857
Ayrshire Maternity Unit, Crosshouse	NICU	4.1%	339
Ninewells Hospital, Dundee	NICU	4.8%	406
Princess Royal Maternity, Glasgow	NICU	0.6%	470
Royal Hospital for Children, Glasgow	NICU	0.9%	727
Simpson Centre For Reproductive Health, Edinburgh ²	NICU	11.4%	658
Victoria Hospital, Fife	NICU	10.4%	301
Wishaw General Hospital	NICU	0.8%	499
WALES			
Glangwili General Hospital	SCU	0.0%	243
Nevill Hall Hospital	SCU	3.1%	169
Prince Charles Hospital	SCU	1.0%	244
Princess of Wales Hospital	SCU	3.7%	221
Wrexham Maelor Hospital	SCU	6.6%	153
Ysbyty Gwynedd	SCU	1.8%	189
Glan Clwyd Hospital	LNU	3.4%	225
Royal Glamorgan Hospital	LNU	0.8%	227
Royal Gwent Hospital	NICU	4.6%	451
Singleton Hospital	NICU	0.1%	474
University Hospital of Wales	NICU	2.9%	489

² Joined the NNAP in January 2018.