Northern Neonatal Network
Quarterly Report
Q3 Oct-Dec 18

This report is a summary of the dashboard data submitted every month by each of the 9 Trusts that make up the Northern Neonatal Network. These figures are taken from both the BadgerNet Database where the required data is available and the Dashboard returns that have been supplied to Mark each month.

It is important to note the following when looking at these reports;

- The final phase of the Tees reconfiguration took place in September, which resulted in all intensive care on the North Tees Unit ceasing and being transferred to JCUH, so as from Monday 3rd September, North Tees was re-designated as an 11 cot SCU, with the remaining 3 NIC cots moving over along with some nursing and medical staff.
- All reports use the BAPM 2011 definitions. This includes a "Normal Care" category. If ONLY "Carer resident – caring for baby" or the "None or >4hourly intervals" for observations/monitoring on the "general summary" page is ticked, this will classify as a "normal care" day. Under current commissioning guidance, unlike "special care" days, these are not funded. We have included these days as they are what the system reflects for each Unit. ***You may wish to check these for accuracy of reporting purposes***.
- Transitional Care (TC) activity is supplied manually via the Monthly data Dashboards and reported where available. No Unit currently admit TC babies onto Badgernet so any "TC days" on the system typically refer to pre-discharge "rooming in" activity or "place of care" being wrongly ticked.
- The staffing level reports are calculated by mapping nurse staffing levels submitted by Unit managers via Badgernet against the activity (baby numbers and their level of care) generated by the new BAPM 2011 definitions.
- The definitions for each of the included items are those given on the dashboard.
- The reports relating to transfers in Section 3 are taken entirely from the transport record sheets completed by NNeTS (Northern Neonatal Transport Service). Interpretation of these in respect of some of the coding (particularly relating to "urgency") is often highly subjective, but to minimise this, we have tried to rely on just a few key definitions that may still provide a useful indication of our Network's transport team's activity. The charts are therefore accompanied by some boxes that explain the basis for the definitions used.
- Many of these metrics and reports are replicated for the three Local Maternity Systems (LMS) in our region and distributed separately to the appropriate stakeholders in them where they are discussed in their relevant Board meetings

We continue to invite constructive criticism and feedback from all our Stakeholders across the Network to further refine and improve them. It is our hope that these quarterly Reports will continue to provide a rich but useful source of data for both Network and individual Units/Trusts and help determine issues across the Network in all our Units in relation to their activity and capacity, thus informing future strategic discussions and planning of neonatal services.

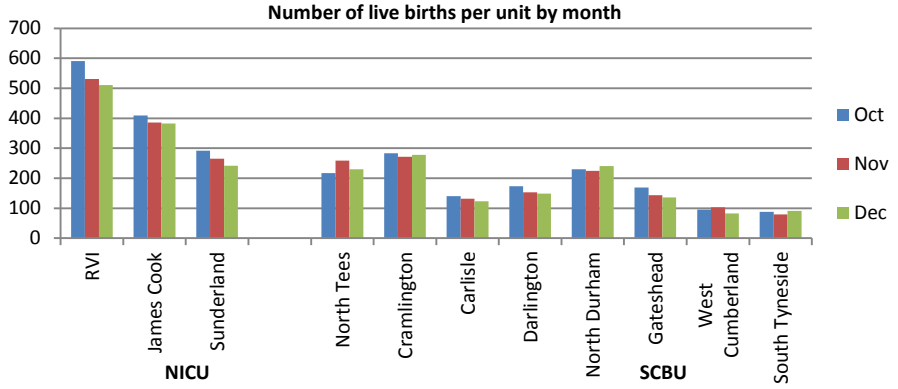
As always, the aim of this is to provide the very best service available to the babies and families within our Network and thus meet our one core principle – "*To give the highest possible standard of safe, effective care to babies and their families."*

Martyn Boyd, Network Manager/Mark Green, Network Data Manager
March 2019

Section 1 - Activity

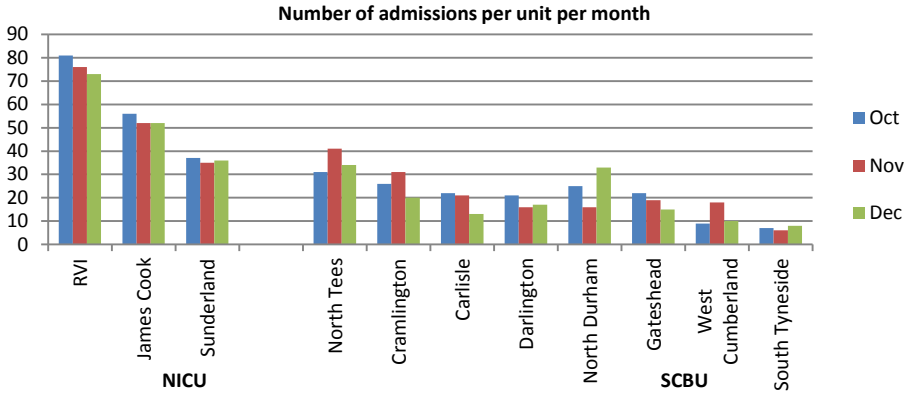
Live Births

Unit	Oct	Nov	Dec	Total
RVI	591	531	511	1333
James Cook	409	386	383	1178
Sunderland	292	265	242	799
North Tees	217	259	230	706
Cramlington	283	272	278	833
Carlisle	140	132	123	395
Darlington	173	153	149	475
North Durham	230	225	241	696
Gateshead	169	143	136	448
West Cumberland	96	103	83	282
South Tyneside	88	79	91	258
Total	**2388**	**2548**	**2467**	**7403**



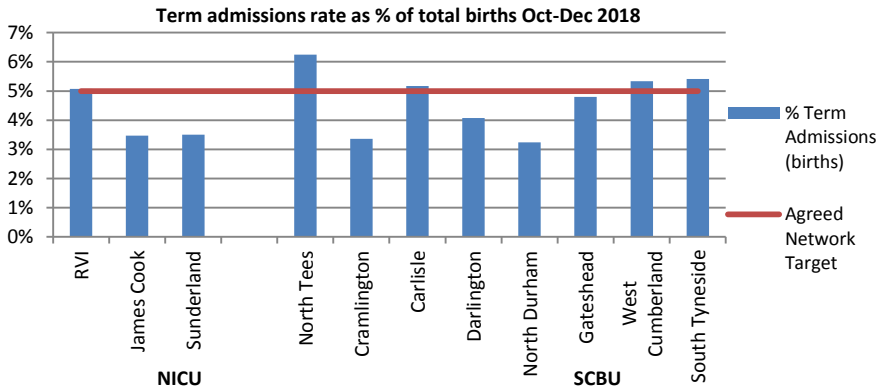
Admissions

Unit	Oct	Nov	Dec	Total
RVI	81	76	73	230
James Cook	56	52	52	160
Sunderland	37	35	36	108
North Tees	31	41	34	106
Cramlington	26	31	20	77
Carlisle	22	21	13	56
Darlington	21	16	17	54
North Durham	25	16	33	76
Gateshead	22	19	15	56
West Cumberland	9	18	10	37
South Tyneside	7	6	8	21
Total	**337**	**331**	**311**	**979**



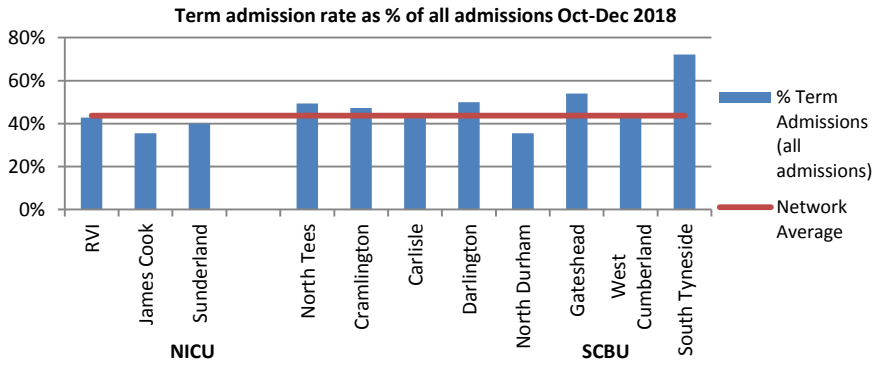
Term Admissions[1]

Unit	Oct	Nov	Dec	Average
RVI**	6.0%	4.3%	4.8%	5.1%
James Cook	3.9%	4.5%	2.0%	3.5%
Sunderland	1.1%	2.8%	7.1%	3.5%
North Tees	5.0%	9.1%	4.2%	6.2%
Cramlington	3.4%	5.1%	1.5%	3.4%
Carlisle	6.9%	3.3%	5.2%	5.2%
Darlington	3.1%	4.2%	5.1%	4.1%
North Durham	3.7%	1.0%	4.9%	3.2%
Gateshead	5.1%	6.0%	3.2%	4.8%
West Cumberland	2.2%	7.3%	6.5%	5.3%
South Tyneside	6.1%	5.4%	4.7%	5.4%
Network Average	**4.2%**	**4.1%**	**4.2%**	**4.8%**



Term Admissions[2]

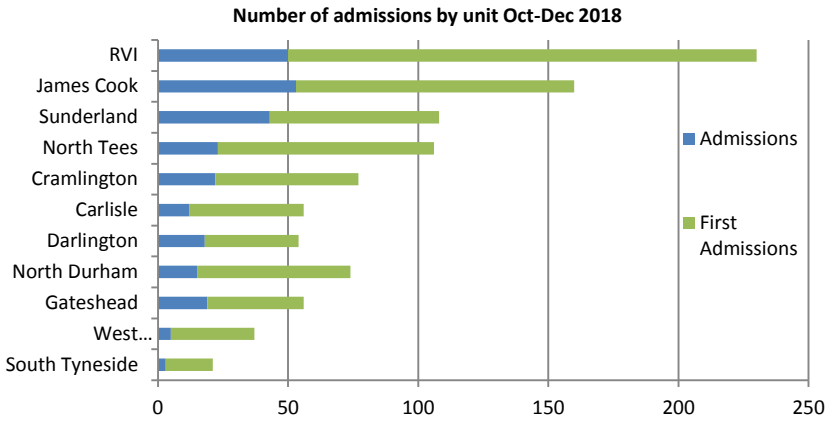
Unit	Oct	Nov	Dec	Average
RVI**	48.5%	35.0%	44.2%	42.8%
James Cook	36.6%	48.5%	21.2%	35.5%
Sunderland	17.6%	30.4%	64.0%	40.0%
North Tees	43.5%	66.7%	33.3%	49.4%
Cramlington	50.0%	50.0%	36.4%	47.3%
Carlisle	50.0%	26.7%	54.5%	43.2%
Darlington	33.3%	60.0%	63.6%	50.0%
North Durham	42.1%	18.2%	37.9%	35.6%
Gateshead	44.4%	72.7%	50.0%	54.1%
West Cumberland	28.6%	43.8%	55.6%	43.8%
South Tyneside	71.4%	80.0%	48.2%	47.3.%
Network Average	**42.5%**	**47.9%**	**44.6%**	**43.7%**



[1] Calculated using 1st episodes admissions and total births less 7% "preterm births" suggested average as per NNN agreement.
[2] Calculated using 1st episodes term admission as a percentage of 1st admissions.
**Excludes unavoidable "congenital abnormality" term admissions (admit principal reason = 22)

All Admissions

Unit	Total Admissions	1st Admissions	Term Admissions
RVI**	230	180	77
James Cook	160	107	38
Sunderland	108	65	26
North Tees	106	83	41
Cramlington	77	55	26
Carlisle	56	44	19
Darlington	54	36	18
North Durham	74	59	21
Gateshead	56	37	20
West Cumberland	37	32	14
South Tyneside	21	18	13
Total	**979**	**716**	**313**



IC Days

Unit	Oct	Nov	Dec	Total
RVI	242	233	337	812
James Cook	210	229	185	624
Sunderland	85	134	104	323
North Tees	1	5	2	8
Cramlington	1	1	2	4
Carlisle	6	2	2	10
Darlington	3	2	3	8
North Durham	3	1	3	7
Gateshead	2	0	3	5
West Cumberland	1	1	2	4
South Tyneside	0	1	0	
Total	**554**	**609**	**643**	**1806**

HD Days

Unit	Oct	Nov	Dec	Total
RVI	349	256	312	917
James Cook	234	225	242	701
Sunderland	74	112	99	285
North Tees	40	18	35	93
Cramlington	10	16	8	34
Carlisle	13	9	11	33
Darlington	17	7	4	28
North Durham	18	6	24	48
Gateshead	10	2	2	14
West Cumberland	5	18	21	44
South Tyneside	1	1	0	2
Total	**771**	**670**	**758**	**2199**

SC Days

Unit	Oct	Nov	Dec	Total
RVI	385	454	315	1154
James Cook	370	252	367	1089
Sunderland	319	218	307	844
North Tees	220	310	252	782
Cramlington	144	228	176	548
Carlisle	185	154	140	479
Darlington	131	165	115	411
North Durham	215	182	208	605
Gateshead	135	180	168	483
West Cumberland	63	75	137	275
South Tyneside	65	51	68	184
Total	**2232**	**2369**	**2253**	**6854**

NC Days

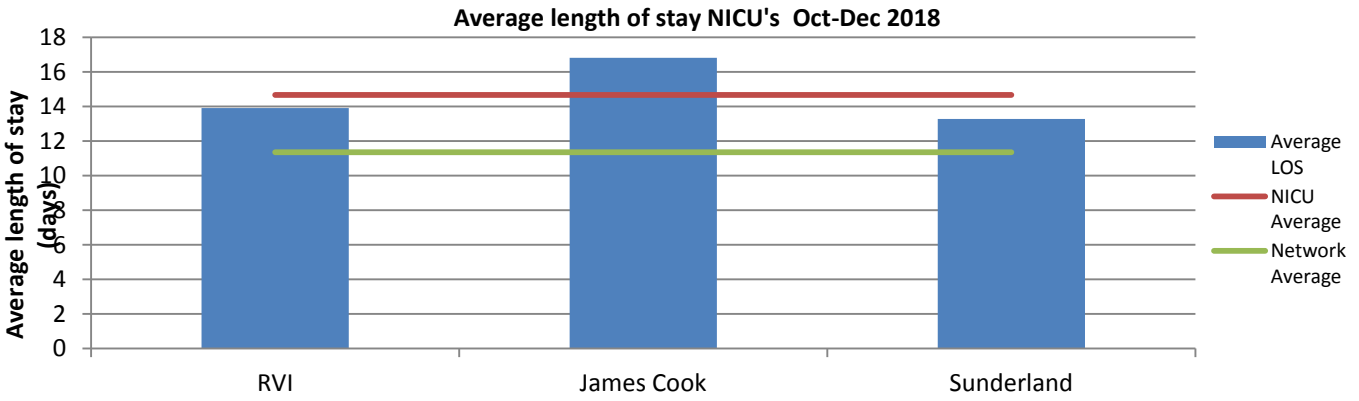
Unit	Oct	Nov	Dec	Total
RVI	28	22	18	68
James Cook	2	6	0	8
Sunderland	0	0	0	0
North Tees	15	11	13	39
Cramlington	3	5	4	12
Carlisle	22	15	10	47
Darlington	4	2	3	9
North Durham	2	6	5	13
Gateshead	4	7	3	14
West Cumberland	0	0	0	0
South Tyneside	0	0	0	0
Total	**83**	**74**	**56**	**213**

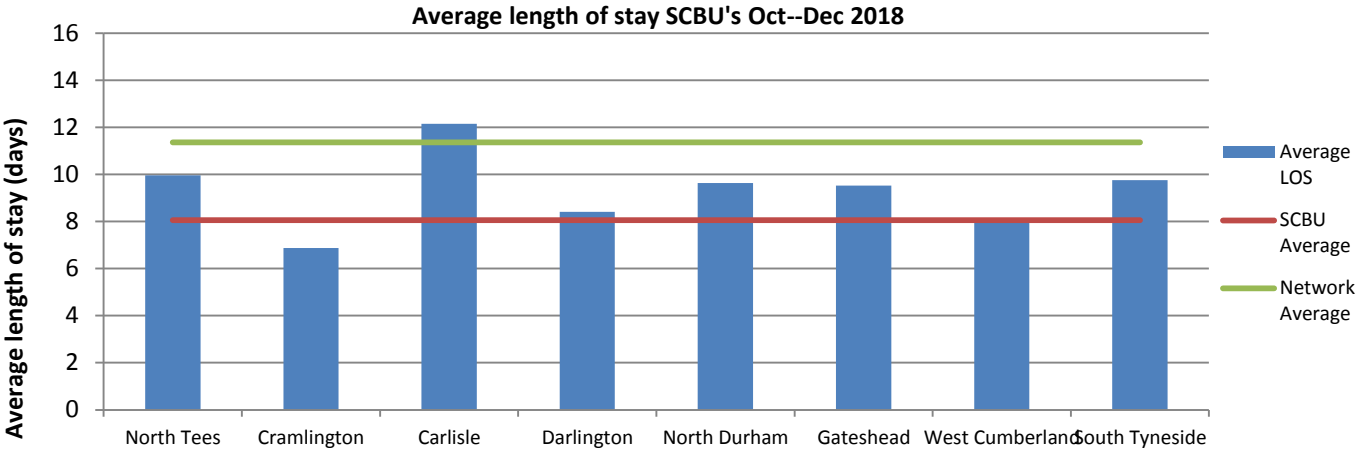
TC Days

Unit	Oct	Nov	Dec	Total
RVI	380	398	291	1069
James Cook	243	194	175	612
Sunderland*	**N/S**	**N/S**	**N/S**	**N/S**
North Tees	47	64	27	138
Cramlington	78	85	65	228
Carlisle	30	20	18	68
Darlington	87	86	94	267
North Durham	70	118	140	328
Gateshead	1	21	5	27
West Cumberland	14	15	16	45
South Tyneside*	**N/S**	**N/S**	3	3
Total				

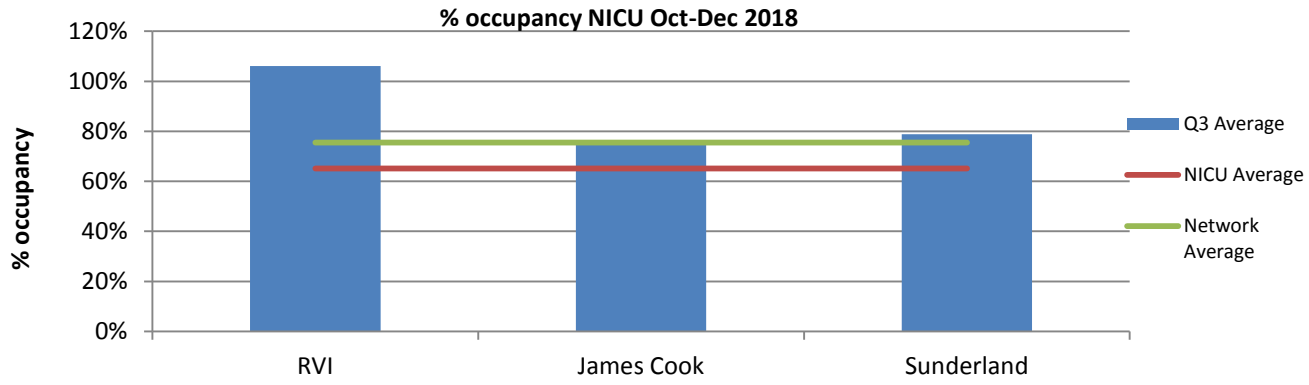
*** not supplied**

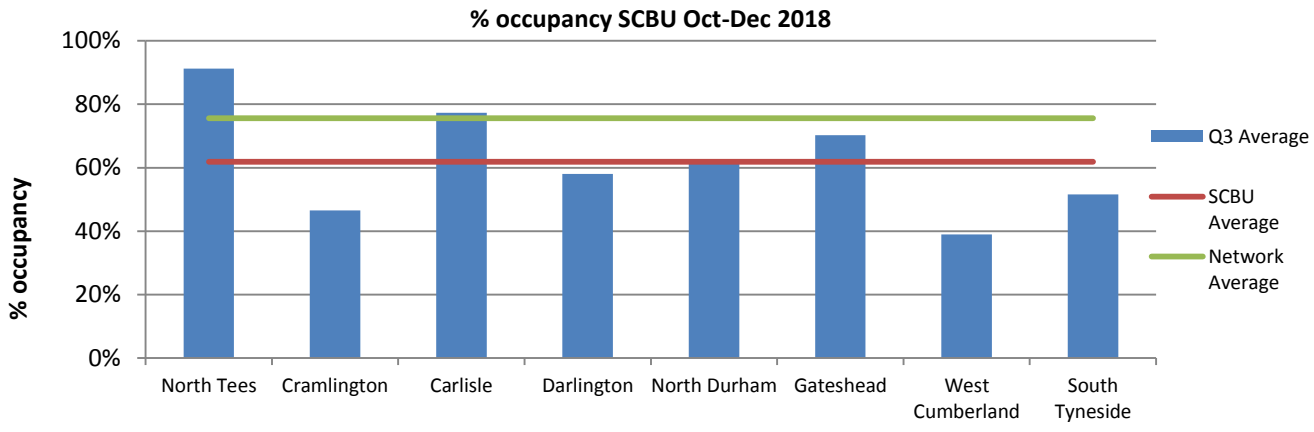
Section 2 – Length of Stay[3]





Section 3 – Occupancy[4]



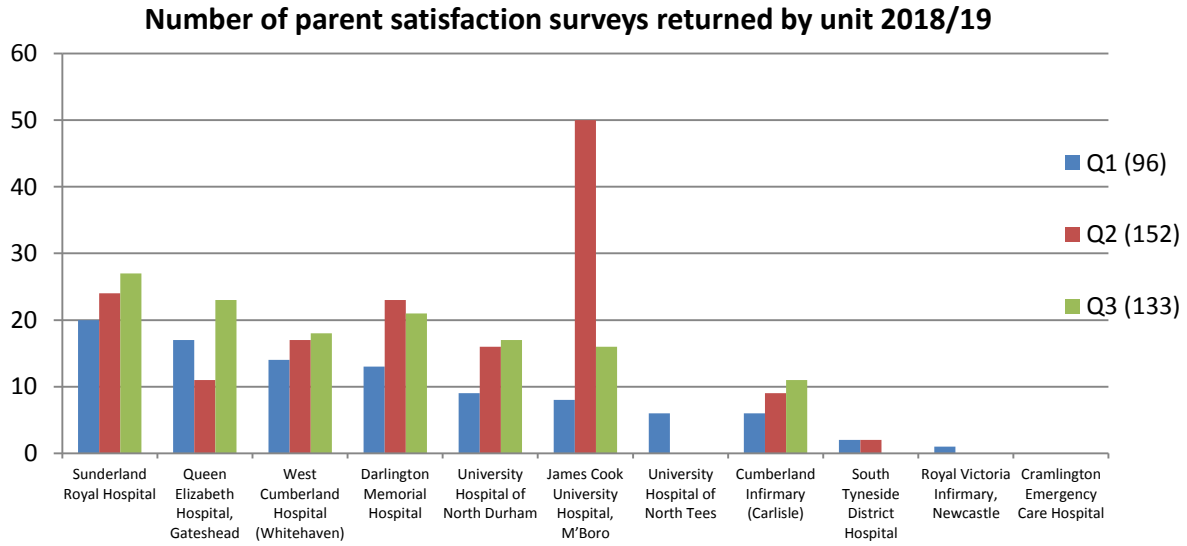


[3] Calculated using total discharges >4hrs, not died, and total length of stay.
[4] Calculated using available total cot numbers and occupancy levels.

Section 4a – Clinical Indicators[5]

	National CQUIN				NNAP					
Period:	Q3 18-19				Q3 18-19					
Unit	Timely discharge - eligible babies	TPN by Day 2 of Life	2yr Follow up	Temperature on admission >=36	Antenatal Steroids Given	First Consultation within 24hrs	Breast Milk at Discharge Home (<33/40)	ROP screening	Temperature Taken within 1hr (<32/40)	Mag Sulph (Benchmarking)
RVI	0%	94%	92%	94%	67%	60%	70%	63%	97%	86%
James Cook	100%	100%	86%	98%	98%	98%	41%	100%	100%	78%
Sunderland	31%	100%	90%	100%	95%	95%	73%	100%	100%	100%
North Tees	67%	N/A	67%	95%	74%	92%	0%	64%	89%	75%
Cramlington	75%	N/A	100%	100%	100%	92%	25%	57%	100%	N/A
Carlisle	0%	N/A	0%	100%	100%	84%	0%	100%	100%	100%
Darlington	100%	N/A	0%	100%	100%	86%	0%	75%	100%	N/A
North Durham	40%	N/A	33%	89%	90%	76%	0%	67%	100%	100%
Gateshead	33%	N/A	0%	80%	100%	89%	0%	88%	50%	100%
West Cumberland	100%	N/A	N/A	100%	67%	65%	N/A	0%	100%	N/A
South Tyneside	0%	N/A	N/A	100%	50%	100%	N/A	100%	100%	100%
Northern	50%	98%	52%	96%	86%	85%	23%	74%	94%	92%

Section 4b – Non-clinical Indicators



Section 5 – Network Audit & data/information compliance[6]

Unit	Dashboard returns
RVI	
JCUH	
Sunderland	
North Tees	
Cramlington	
Carlisle	
Darlington	
North Durham	
Gateshead	
West Cumberland	
South Tyneside	

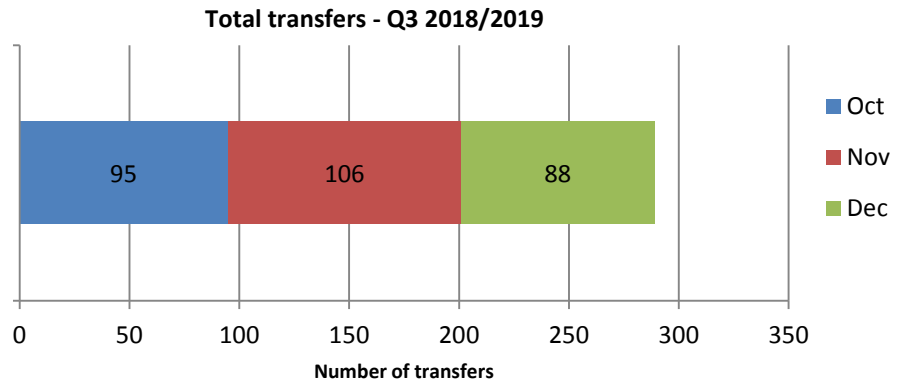
Latest Annual Reports – Northern Neonatal Network		
Unit/Trust	Year	Produced
North Cumbria	2017	Nov-18
RVI	2017	Sep-18
JCUH	2016	Nov-17
Sunderland	2016	Nov-17
North Tees	2016	Dec-17
CDDFT	2016	Jun-17
Cramlington	2016	Aug-17
Gateshead	2016	Dec-17
South Tyneside	2016	Dec-17

[5] These are taken from the BadgerNet Dashboard reports for national CQUINs and NNAP Metrics. The former may not be what individual Units have signed up to but are included with the NNAP figures (which will appear on their reports in due course) for benchmarking purpose only

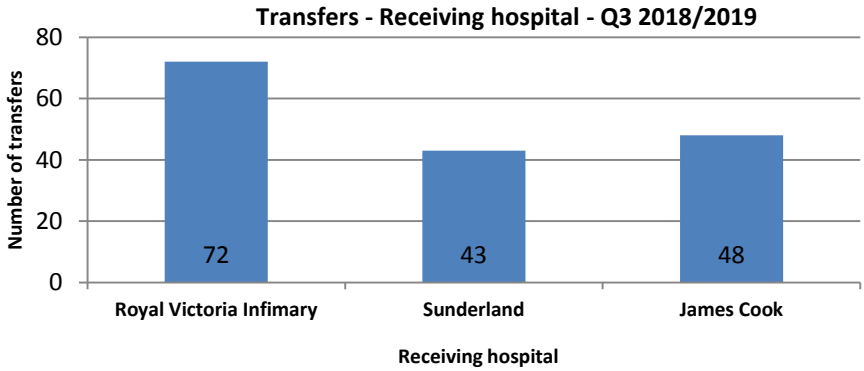
[6] Requested items as identified and defined by the Network as auditable – green if returned by deadline, amber if returned following reminder, red if no response received. For Dashboard returns, the deadline for submission will be 6 weeks after the end of the quarter being requested.

Section 6 – Northern Neonatal Transport Service (NNeTS)

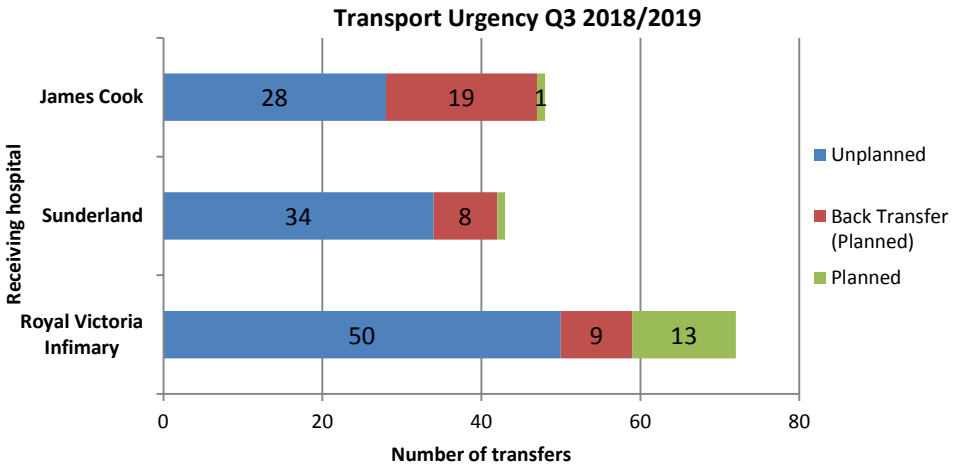
These figures represent the total number of transfers undertaken by each team per month, including back-transfers



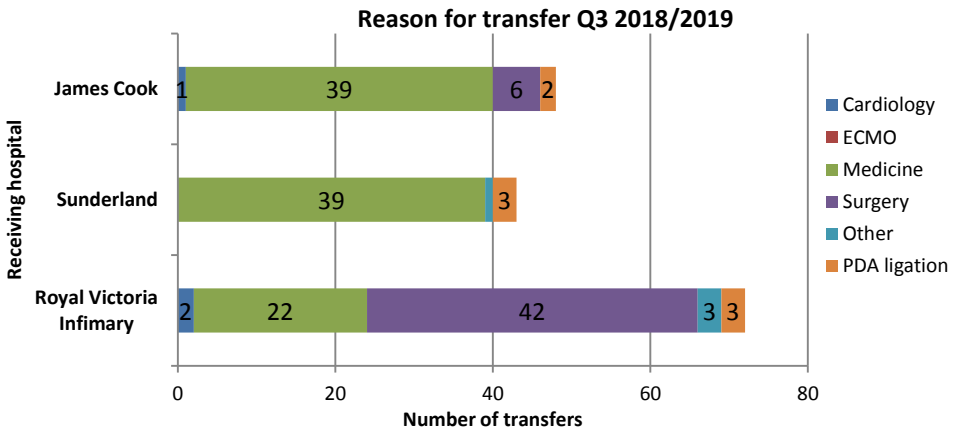
These figures represent the total number of transfers from each of the Level 3 (NICU) Units across the quarter. These include back-transfers (see next chart below).



Definitions of urgency are subjective apart from planned back-transfers. The definition of "planned" here is where the need for transfer appears to have been known – such as for surgical cases and cardiac investigations etc. Unplanned would be defined as where transfer could not have been foreseen – such as a baby requiring ongoing care at another Unit that could not be provided at their own.



Such classifications can again also be subjective, but where there is enough clarity to suggest it, they have been coded as such in the following table. "Other" covers occasional cases such as ROP screening or laser surgery. PDA ligations usually go direct to the Freeman, but if they are referred to another NICU first, they will be coded as a PDA Ligation accordingly.

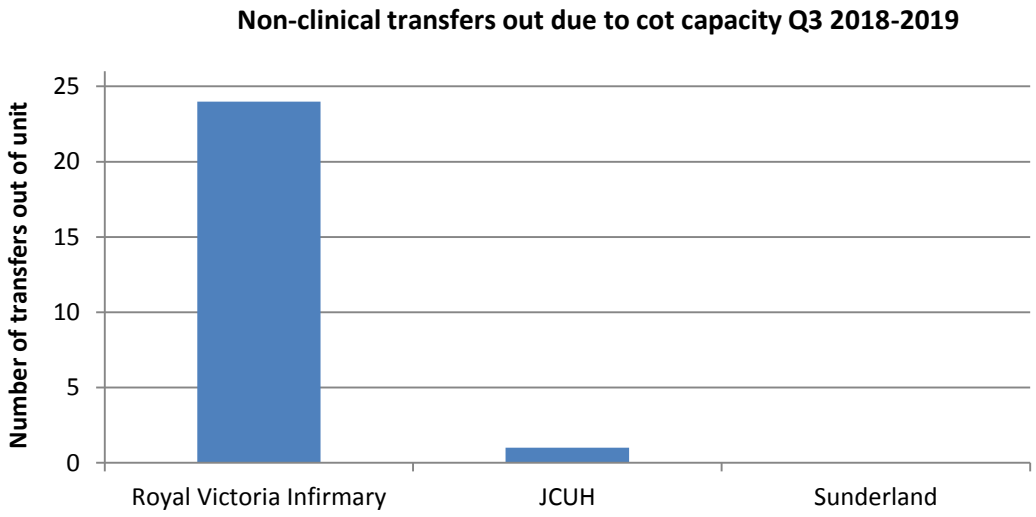


Non-clinical transfers due to cot availability Q3 2018/19

These transfers refer to those cases where babies need to be moved following birth from their hospital of booking and delivery for non-clinical reasons – lack of capacity and cots. We are monitoring these as part of our reconfiguration data work on patient flows.

These figures are taken directly from the Infant Transport Records (ITRs) that the teams complete and state that the Unit is "full" and/or then cross-referenced with Badger if necessary to check occupancy levels.

NICU	Transfers out
RVI	24
JCUH	1
Sunderland	0



Out of network activity/transfers

NNN IUT'S That required transfer out of region for non-clinical (lack of capacity) reasons (Oct-Dec 2018)

11 IUTs to; Bradford (x2), Barnsley, Chesterfield, Hull & East Yorkshire, Liverpool, Wishaw, Nottingham, Leeds, Glasgow, Manchester. This included two sets of twins and one triplets.

NNN EUT'S That required transfer out of region for non-clinical (lack of capacity) reasons (Oct-Dec 2018)

0 (zero)