



Northern Neonatal Network

Quarterly Report

Q2 Jul-Sep 16



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;

- As from 1st April 2015, all reports use the BAPM 2011 definitions, NOT the previous BAPM 2001 used in all reports to date. There are significant differences in how these newer levels of care are calculated and these newer reports need to be considered accordingly. There are significant differences, for example, in how IC no longer routinely includes babies on CPAP by default, rather taking account of other clinical indicators – weight, gestation etc.
- The BAPM 2011 definitions include a new “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 future reporting purposes.**
- The staffing level reports are now calculated by mapping nurse staffing levels submitted against the activity generated by the new BAPM 2011 definitions and have altered from typical levels under BAPM 2001 accordingly.
- 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 the two teams from the RVI and JCUH. 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.

We continue to invite constructive criticism and feedback from all our Stakeholders across the Network and have taken into account some of these in this latest version of quarterly reports. 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.”*

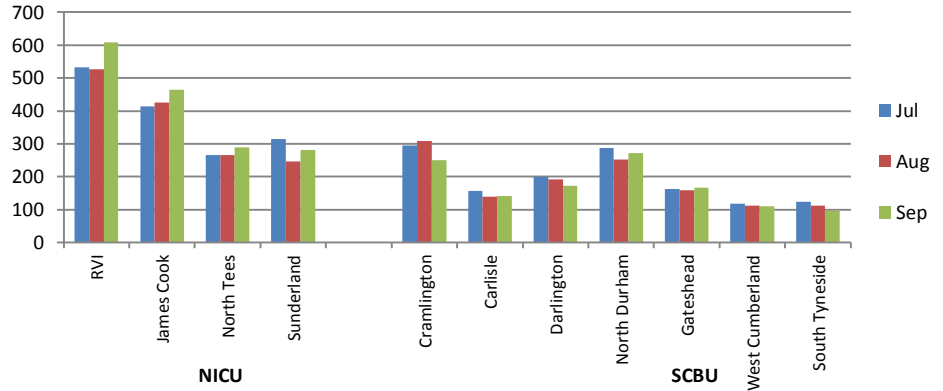
Martyn Boyd, Network Manager/Mark Green, Network Data Manager
January 2017

Section 1 - Activity

Live Births

| Unit | Jul | Aug | Sep | Total |
|-----------------|-------------|-------------|-------------|-------------|
| RVI | 532 | 526 | 608 | 1666 |
| James Cook | 413 | 426 | 464 | 1303 |
| North Tees | 265 | 265 | 289 | 819 |
| Sunderland | 314 | 246 | 282 | 842 |
| Cramlington | 295 | 309 | 251 | 855 |
| Carlisle | 157 | 139 | 142 | 438 |
| Darlington | 200 | 191 | 173 | 564 |
| North Durham | 287 | 252 | 272 | 811 |
| Gateshead | 162 | 159 | 167 | 488 |
| West Cumberland | 118 | 111 | 110 | 339 |
| South Tyneside | 124 | 112 | 96 | 332 |
| Total | 2867 | 2736 | 2854 | 8457 |

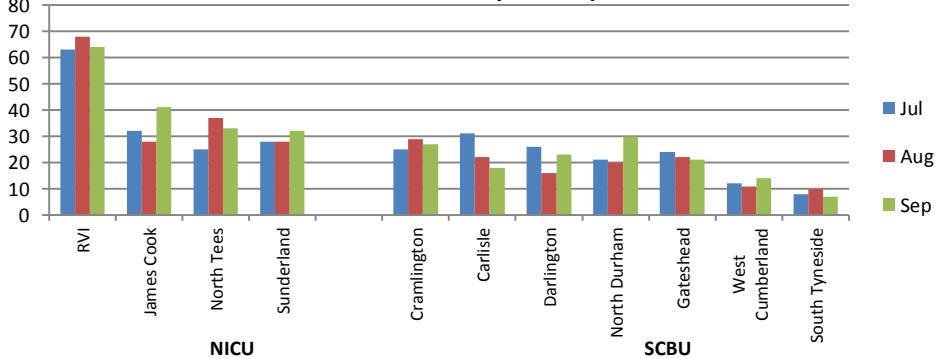
Number of live births per unit by month



Admissions

| Unit | Jul | Aug | Sep | Total |
|-----------------|------------|------------|------------|------------|
| RVI | 63 | 68 | 64 | 195 |
| James Cook | 32 | 28 | 41 | 101 |
| North Tees | 25 | 37 | 33 | 95 |
| Sunderland | 28 | 28 | 32 | 88 |
| Cramlington | 25 | 29 | 27 | 81 |
| Carlisle | 31 | 22 | 18 | 71 |
| Darlington | 26 | 16 | 23 | 65 |
| North Durham | 21 | 20 | 30 | 71 |
| Gateshead | 24 | 22 | 21 | 67 |
| West Cumberland | 12 | 11 | 14 | 37 |
| South Tyneside | 8 | 10 | 7 | 25 |
| Total | 295 | 291 | 310 | 896 |

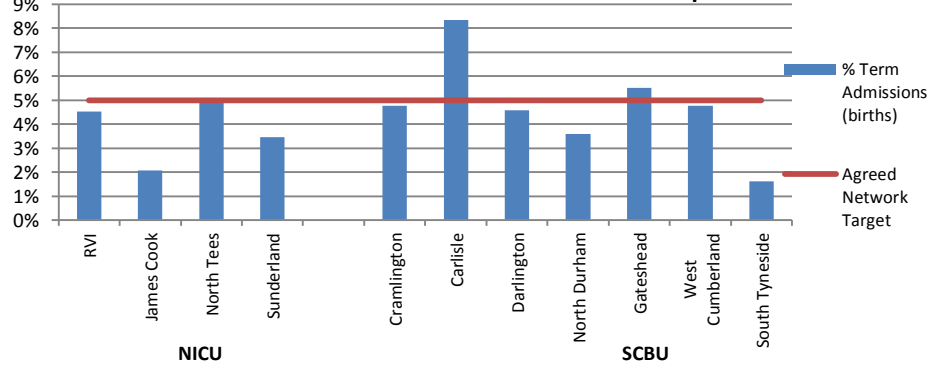
Number of admissions per unit per month



Term Admissions¹

| Unit | Jul | Aug | Sep | Average |
|------------------------|-------------|-------------|-------------|-------------|
| RVI** | 4.0% | 4.9% | 4.6% | 4.5% |
| James Cook | 2.6% | 1.3% | 2.3% | 2.1% |
| North Tees | 6.5% | 4.5% | 4.1% | 5.0% |
| Sunderland | 5.5% | 2.6% | 1.9% | 3.4% |
| Cramlington | 4.7% | 4.2% | 5.6% | 4.8% |
| Carlisle | 11% | 8.5% | 5.3% | 8.3% |
| Darlington | 5.4% | 3.4% | 5.0% | 4.6% |
| North Durham | 1.5% | 6.0% | 3.6% | 3.6% |
| Gateshead | 7.3% | 5.4% | 3.9% | 5.5% |
| West Cumberland | 5.5% | 3.9% | 4.9% | 4.8% |
| South Tyneside | 0.9% | 1.9% | 2.2% | 1.6% |
| Network Average | 4.6% | 4.0% | 3.8% | 4.2% |

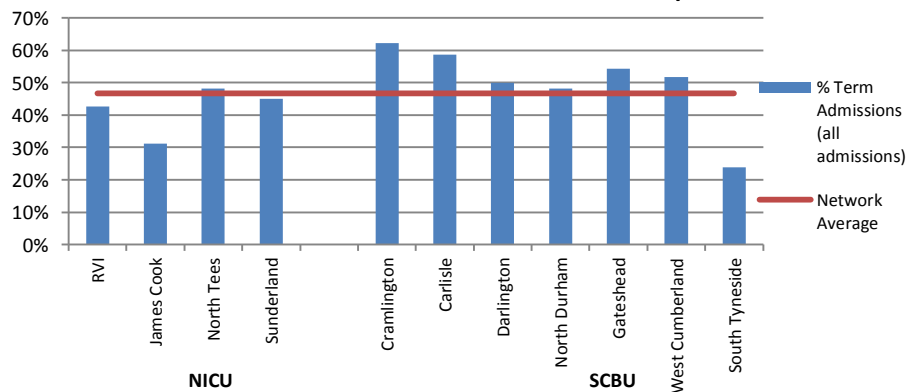
Term admissions rate as % of total births Jul-Sep 2016



Term Admissions²

| Unit | Jul | Aug | Sep | Average |
|------------------------|--------------|--------------|--------------|--------------|
| RVI** | 40.0% | 42.1% | 45.6% | 42.7% |
| James Cook | 41.7% | 21.7% | 30.3% | 31.3% |
| North Tees | 69.6% | 37.9% | 40.7% | 48.1% |
| Sunderland | 66.7% | 33.3% | 27.8% | 45.0% |
| Cramlington | 72.2% | 54.5% | 61.9% | 62.3% |
| Carlisle | 59.3% | 64.7% | 50.0% | 58.6% |
| Darlington | 50.0% | 46.2% | 53.3% | 50.0% |
| North Durham | 23.5% | 87.5% | 39.1% | 48.2% |
| Gateshead | 61.1% | 50.0% | 50.0% | 54.3% |
| West Cumberland | 60.0% | 50.0% | 45.5% | 51.7% |
| South Tyneside | 12.5% | 25.0% | 40.0% | 23.8% |
| Network Average | 51.5% | 45.4% | 43.2% | 46.7% |

Term admission rate as % of all 1st admissions Jul-Sep 2016



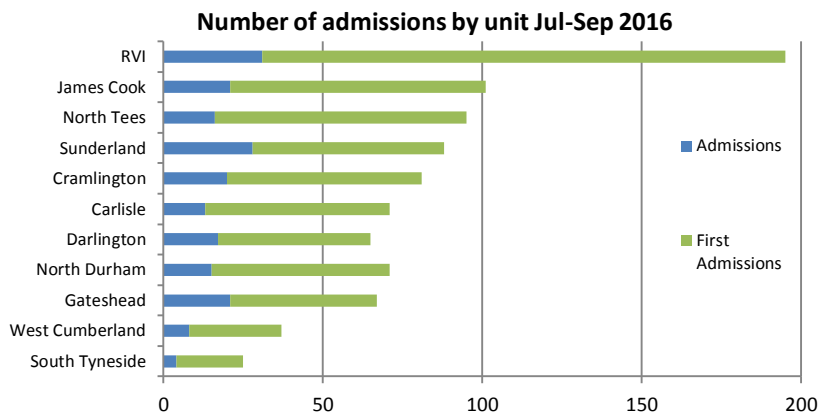
¹ Calculated using 1st episodes admissions and total births less 7% "preterm births" suggested average as per NNN agreement.

² Calculated using 1st episodes term admission as a percentage of 1st admissions.

**RVI includes unavoidable "congenital abnormality" term admissions.

All Admissions

| Unit | Total Admissions | 1st Admissions | Term Admissions |
|-----------------|------------------|----------------|-----------------|
| RVI** | 195 | 164 | 70 |
| James Cook | 101 | 80 | 25 |
| North Tees | 95 | 79 | 38 |
| Sunderland | 88 | 60 | 27 |
| Cramlington | 81 | 61 | 38 |
| Carlisle | 71 | 58 | 34 |
| Darlington | 65 | 48 | 24 |
| North Durham | 71 | 56 | 27 |
| Gateshead | 67 | 46 | 25 |
| West Cumberland | 37 | 29 | 15 |
| South Tyneside | 25 | 21 | 5 |
| Total | 896 | 702 | 328 |



IC Days

| Unit | Jul | Aug | Sep | Total |
|-----------------|------------|------------|------------|-------------|
| RVI | 134 | 254 | 202 | 590 |
| James Cook | 75 | 110 | 86 | 271 |
| North Tees | 80 | 92 | 62 | 237 |
| Sunderland | 32 | 50 | 51 | 133 |
| Cramlington | 0 | 1 | 0 | 1 |
| Carlisle | 6 | 0 | 4 | 10 |
| Darlington | 11 | 5 | 3 | 19 |
| North Durham | 0 | 1 | 6 | 7 |
| Gateshead | 1 | 0 | 5 | 6 |
| West Cumberland | 1 | 2 | 2 | 5 |
| South Tyneside | 1 | 1 | 1 | 3 |
| Total | 341 | 519 | 422 | 1282 |

HD Days

| Unit | Jul | Aug | Sep | Total |
|-----------------|------------|------------|------------|-------------|
| RVI | 209 | 163 | 230 | 602 |
| James Cook | 136 | 109 | 102 | 347 |
| North Tees | 160 | 144 | 91 | 395 |
| Sunderland | 125 | 123 | 62 | 310 |
| Cramlington | 11 | 10 | 3 | 24 |
| Carlisle | 14 | 15 | 11 | 40 |
| Darlington | 4 | 16 | 5 | 25 |
| North Durham | 20 | 26 | 24 | 70 |
| Gateshead | 3 | 1 | 2 | 6 |
| West Cumberland | 0 | 10 | 8 | 18 |
| South Tyneside | 4 | 7 | 4 | 15 |
| Total | 686 | 624 | 542 | 1852 |

SC Days

| Unit | Jul | Aug | Sep | Total |
|-----------------|-------------|-------------|-------------|-------------|
| RVI | 415 | 340 | 372 | 1127 |
| James Cook | 281 | 352 | 489 | 1122 |
| North Tees | 225 | 242 | 359 | 826 |
| Sunderland | 217 | 224 | 350 | 791 |
| Cramlington | 257 | 223 | 181 | 661 |
| Carlisle | 151 | 175 | 118 | 444 |
| Darlington | 224 | 143 | 163 | 530 |
| North Durham | 237 | 198 | 252 | 687 |
| Gateshead | 222 | 171 | 175 | 568 |
| West Cumberland | 122 | 81 | 156 | 359 |
| South Tyneside | 107 | 112 | 73 | 292 |
| Total | 2458 | 2261 | 2688 | 7407 |

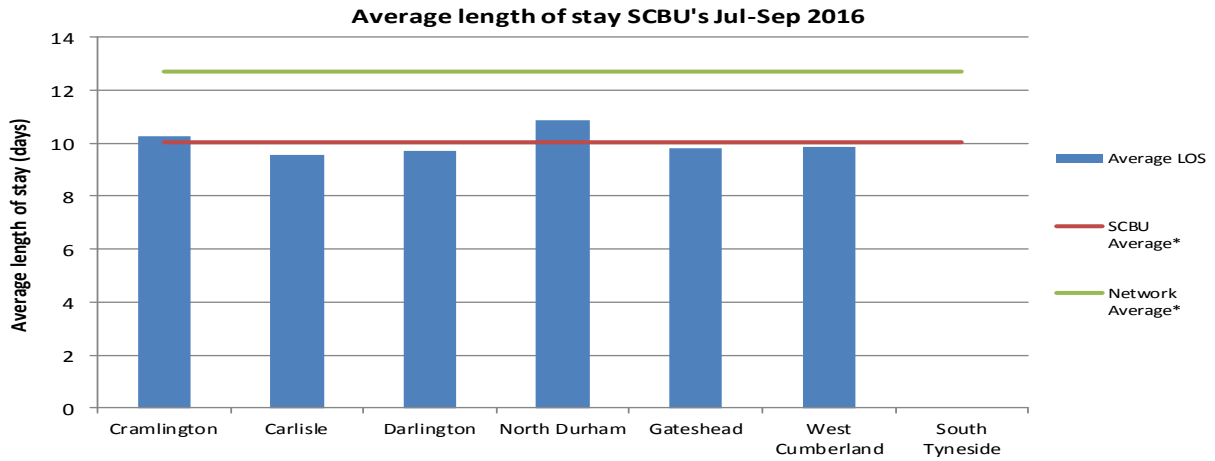
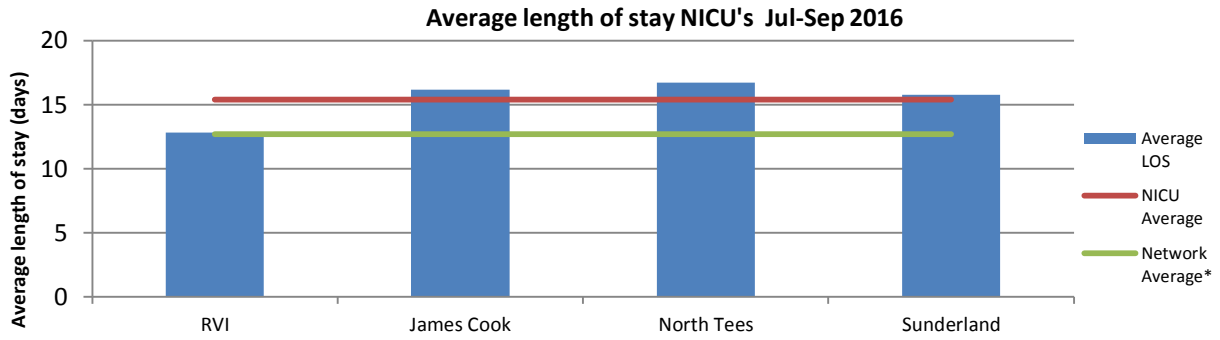
NC Days

| Unit | Jul | Aug | Sep | Total |
|-----------------|-----------|-----------|-----------|------------|
| RVI | 31 | 10 | 11 | 52 |
| James Cook | 0 | 0 | 2 | 2 |
| North Tees | 10 | 8 | 18 | 36 |
| Sunderland | 0 | 0 | 0 | 0 |
| Cramlington | 5 | 11 | 7 | 23 |
| Carlisle | 25 | 43 | 4 | 72 |
| Darlington | 2 | 3 | 9 | 14 |
| North Durham | 1 | 5 | 0 | 6 |
| Gateshead | 12 | 7 | 8 | 27 |
| West Cumberland | 1 | 3 | 2 | 6 |
| South Tyneside | 0 | 0 | 0 | 0 |
| Total | 87 | 90 | 61 | 238 |

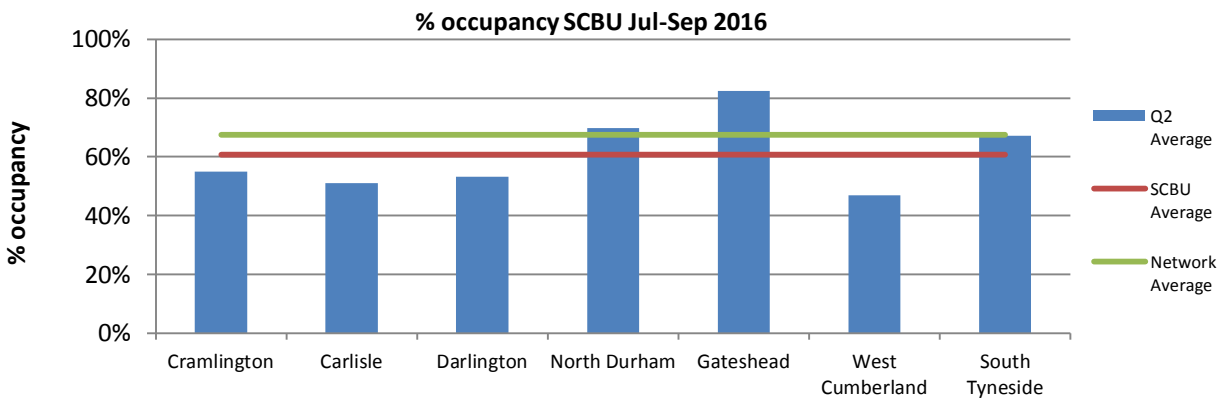
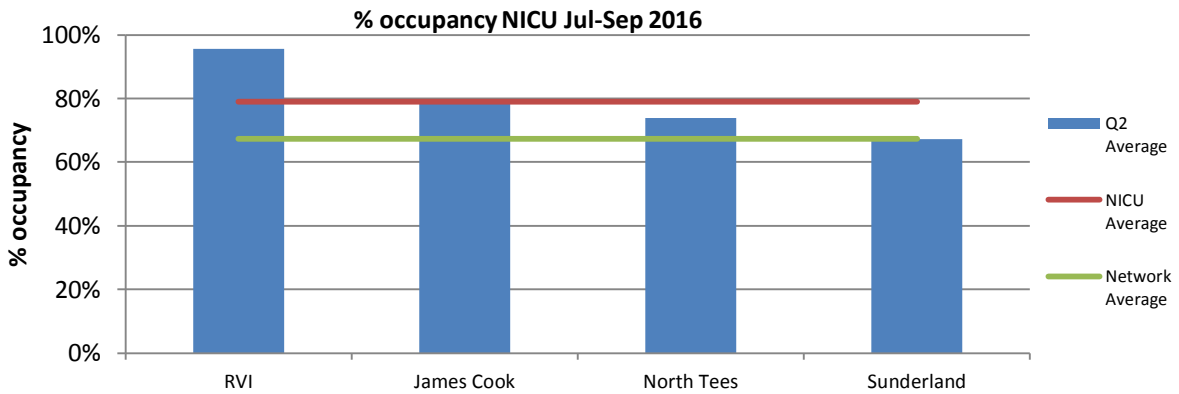
TC Days

| Unit | Jul | Aug | Sep | Total |
|-----------------|------------|------------|------------|-------------|
| RVI | 321 | 390 | 407 | 1118 |
| James Cook | 0 | 0 | 0 | 0 |
| North Tees | 22 | 12 | 32 | 66 |
| Sunderland | 0 | 0 | 0 | 0 |
| Cramlington | 20 | 45 | 60 | 125 |
| Carlisle | 15 | 14 | 5 | 34 |
| Darlington | 111 | 114 | 131 | 356 |
| North Durham | 120 | 148 | 132 | 400 |
| Gateshead | 1 | 1 | 0 | 2 |
| West Cumberland | 1 | 0 | 0 | 1 |
| South Tyneside | 0 | 0 | 0 | 0 |
| Total | 611 | 724 | 767 | 2102 |

Section 2 – Length of Stay³



Section 3 – Occupancy⁴



³ Calculated using total discharges >4hrs, not died, and total length of stay.

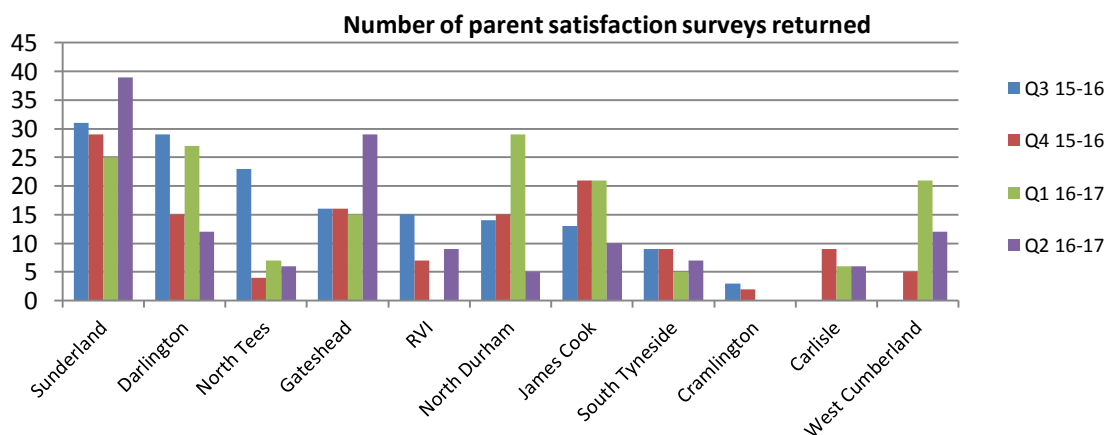
⁴ Calculated using available total cot numbers and occupancy levels.

*S.Tyneside figures not available so excluded from averages.

Section 4a – Clinical Indicators⁵

| Period: | National CQUIN | | | | NNAP | | | | |
|-----------------|----------------------------------|----------------------|---------------|-------------------------------|---------------------------------------|--------------------------|---------------------------------|--|---------------|
| | Q2 16-17 | | | | Q2 16-17 | | | | |
| Unit | Timely discharge eligible babies | TPN by Day 2 of Life | 2yr Follow up | Temperature on admission >=36 | Temperature Taken within 1hr (<29/40) | Antenatal Steroids Given | First Consultation within 24hrs | Breast Milk at Discharge Home (<33/40) | ROP screening |
| RVI | 50% | 100% | 84% | 93% | 90% | 83% | 79% | 40% | 68% |
| James Cook | 36% | 90% | 82% | 94% | 95% | 92% | 73% | 47% | 80% |
| North Tees | 75% | 100% | 44% | 89% | 82% | 78% | 88% | 33% | 93% |
| Sunderland | 100% | 100% | 60% | 100% | 100% | 94% | 91% | 33% | 100% |
| Cramlington | 67% | N/A | N/A | 100% | 100% | 73% | 95% | 100% | 100% |
| Carlisle | 50% | N/A | 0% | 100% | 100% | 71% | 87% | N/A | 100% |
| Darlington | 50% | N/A | 67% | 67% | N/A | 83% | 86% | 100% | 100% |
| North Durham | 71% | N/A | 71% | 93% | 88% | 65% | 69% | 0% | 100% |
| Gateshead | 100% | N/A | N/A | 100% | 50% | 56% | 83% | 0% | 82% |
| West Cumberland | 0% | N/A | 0% | 100% | 100% | 57% | 65% | N/A | 100% |
| South Tyneside | 33% | N/A | 0% | 83% | 50% | 17% | 100% | 0% | 100% |
| Northern | 57% | 98% | 45% | 93% | 86% | 70% | 83% | 39% | 93% |

Section 4b – Non-clinical Indicators⁵



Section 5 – Network Audit & data/information compliance⁶

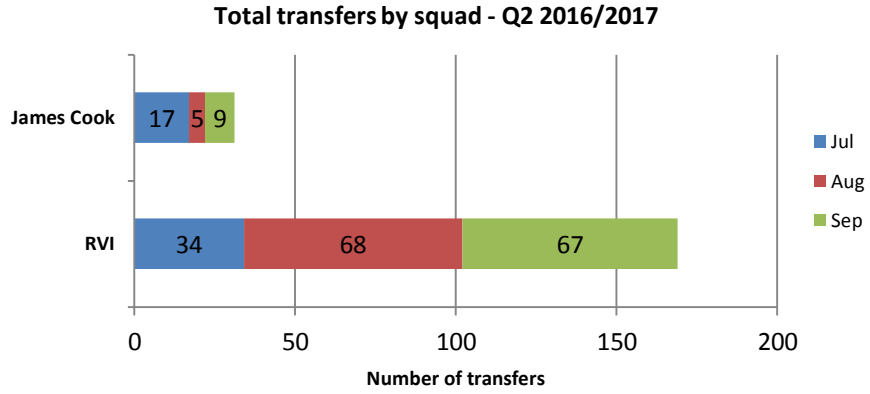
| Unit | Dashboard returns | BAPM LNU/SCU Survey | Latest Annual Reports – Northern Neonatal Network | | |
|-----------------|-------------------|---------------------|---|------|----------|
| | | | Unit/Trust | Year | Produced |
| RVI | Green | Black | RVI | 2015 | Aug-16 |
| JCUH | Green | Black | JCUH | 2015 | Jan-17 |
| North Tees | Green | Black | Sunderland | 2015 | Nov-16 |
| Sunderland | Green | Black | North Tees | 2014 | Mar-15 |
| Cramlington | Green | Green | CDDFT | 2015 | Feb-16 |
| Carlisle | Green | Green | Cramlington | 2013 | Oct-14 |
| Darlington | Green | Yellow | North Cumbria | N/A | N/A |
| North Durham | Green | Yellow | Gateshead | N/A | N/A |
| Gateshead | Green | Green | South Tyneside | N/A | N/A |
| West Cumberland | Green | Red | | | |
| South Tyneside | Green | Red | | | |

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

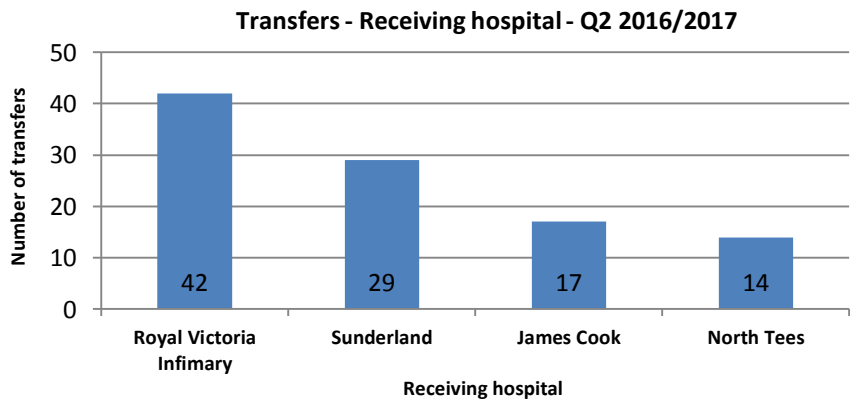
⁶ Requested items as identified and defined by the Network as auditable will appear here in future reports, including Monthly Dashboard returns, where the deadline for submission will be 6 weeks after the end of the quarter being requested.

Section 6 – Transport

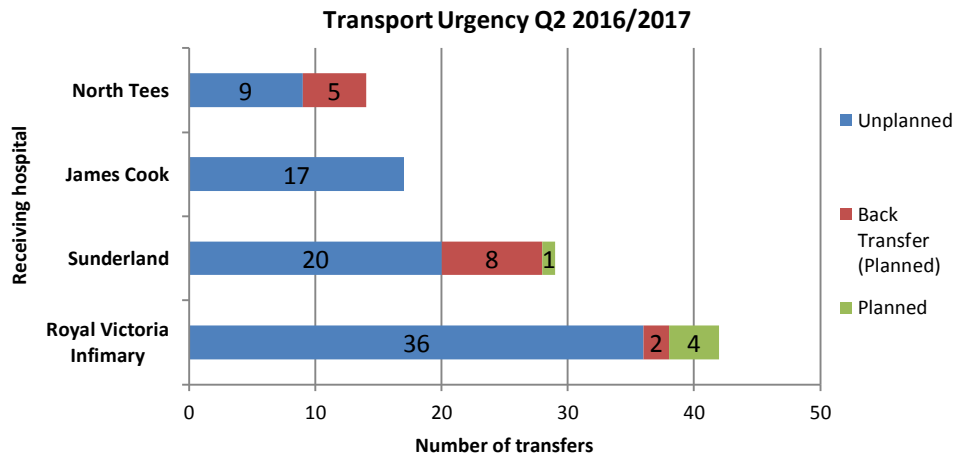
These figures represent the total number of transfers undertaken by each team per month, including back-transfers



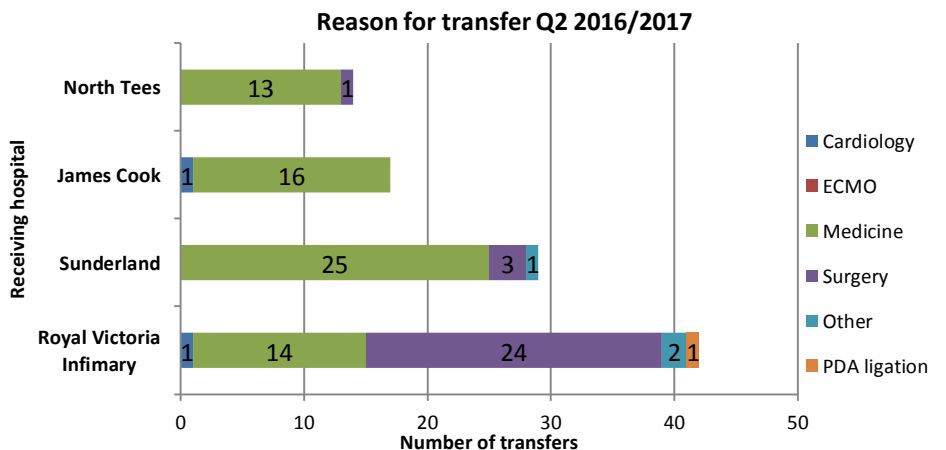
These figures represent the total number of transfers from each of the Level 3 (NICU) Units across the quarter. These include back-transfers (see next chart below).



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 Q2 2016/17

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 | 17 |
| JCUH | 0 |
| Sunderland | 0 |
| North Tees | 0 |

Non-clinical transfers out due to cot capacity Q2 2016-2016

