



Northern Neonatal Network

Quarterly Report

Q1 Apr-Jun 21



This report is a summary of the dashboard data submitted every month by each of the 8 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;

- 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 usually supplied manually via the Monthly data Dashboards and reported where available. Some Units are moving to admit TC babies onto Badgernet but currently other “TC days” on the system typically refer to pre-discharge “rooming in” activity or “place of care” being wrongly ticked. However, all are included as available
- 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 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 are working with the Maternity Network to try and get gestational birth data for more accurate reporting, however, this is a work in progress, hence the incomplete charts on page 2 but this remains our aim and will be in the format as laid out there once available.
- Rolling 1-year IC and VLBW (<1500g) admissions data is now included for the 3 NICUs to monitor the impact of the recently commissioned and now fully operational 4 new IC cots at the RVI.

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 February 2021

Section 1 - Activity

| Indicator | RVI | James Cook | Sunderland | North Tees | Cramlington | Carlisle | Darlington | UHND | Gateshead | West Cumberland |
|--|-------------|-------------|------------|------------|-------------|----------|------------|-------|-----------|-----------------|
| Births | | | | | | | | | | |
| Live Births | 1459 | 1189 | 925 | 593 | 853 | 395 | 467 | 617 | 441 | 265 |
| Live births by gestation (wks.) | | | | | | | | | | |
| <23 | | | | | | | | | * | |
| 23-27 | | | | | | | | | * | |
| 28-31 | | | | | | | | | * | |
| 32-36 | | | | | | | | | 31 | |
| =>37 | | | | | | | | | 408 | |
| Unknown | | | | | | | | | * | |
| Live births by birthweight (g) | | | | | | | | | | |
| <750 | | | | | | | | | * | |
| 750-999 | | | | | | | | | * | |
| 1000-1499 | | | | | | | | | * | |
| 1500-1999 | | | | | | | | | * | |
| 2000-2499 | | | | | | | | | 27 | |
| >=2500 | | | | | | | | | 406 | |
| Unknown | | | | | | | | | 0 | |
| Admissions | | | | | | | | | | |
| Total Admissions | 208 | 133 | 87 | 63 | 68 | 38 | 58 | 78 | 40 | 46 |
| 1st Admissions | 154 | 102 | 68 | 52 | 47 | 35 | 46 | 63 | 27 | 35 |
| Term admissions | 74 | 40 | 25 | 29 | 26 | 18 | 31 | 39 | 13 | 16 |
| VLBW admissions | 22 | 28 | 11 | 4 | 4 | 2 | 0 | 2 | 3 | 2 |
| 1 Year rolling VLBW | 89 | 71 | 48 | | | | | | | |
| % term admissions (births) | 5.5% | 3.6% | 2.9% | 5.3% | 3.3% | 4.9% | 7.1% | 6.8% | 3.2% | 6.5% |
| % term admissions (admissions) | 48.1% | 39.2% | 36.8% | 55.8% | 55.3% | 51.4% | 67.4% | 61.9% | 48.1% | 45.7% |
| TC admissions | 192 | 172 | 70 | 83 | 32 | 36 | 111 | 160 | 108 | 15 |
| Care Days | | | | | | | | | | |
| IC days | 747 | 465 | 231 | 13 | 12 | 8 | 14 | 16 | 5 | 13 |
| 1 year rolling IC | 2916 | 1500 | 928 | | | | | | | |
| HD days | 897 | 787 | 361 | 32 | 18 | 14 | 20 | 40 | 10 | 11 |
| SC days | 854 | 913 | 790 | 544 | 488 | 267 | 452 | 435 | 343 | 318 |
| NC days | 33 | 0 | 0 | 6 | 14 | 28 | 12 | 18 | 63 | 14 |
| TC days | 693 | 501 | 100 | 183 | 145 | 119 | 254 | 338 | 372 | 38 |

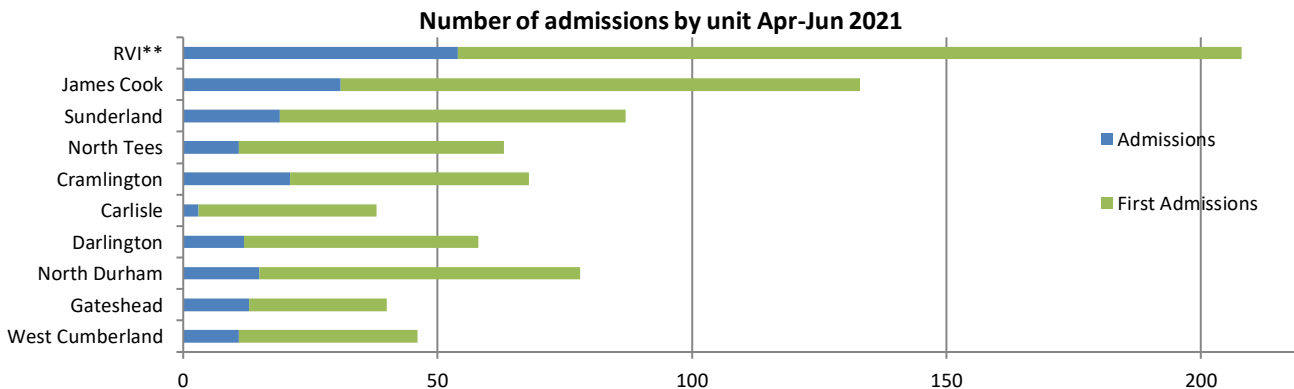
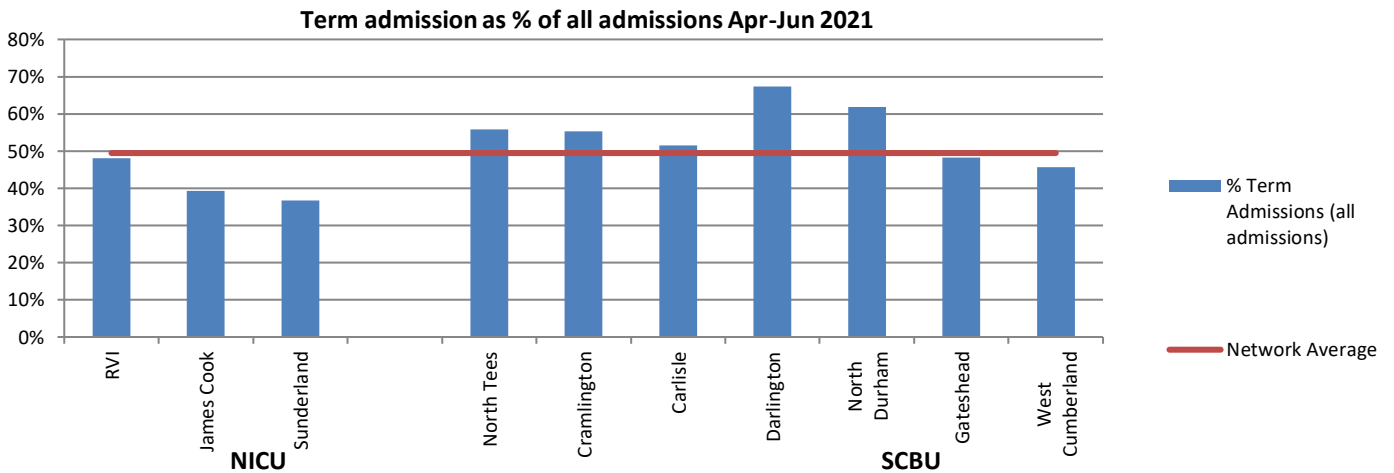
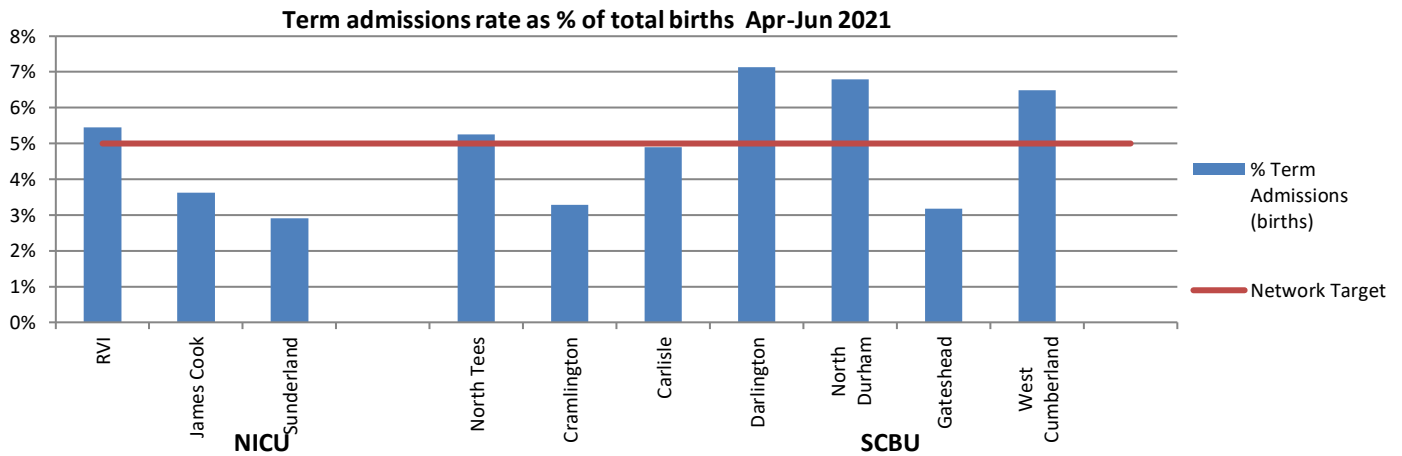
<30 week Exceptions

| BookingName | PlaceOfBirthName | GestationWeeks | DischargeHospitalName | BadgerUniqueID |
|---|--|----------------|--|----------------|
| Darlington Memorial Hospital | James Cook University Hospital | 27 | | AUILOD |
| Darlington Memorial Hospital | Sunderland Royal | 29 | | ARG7PD |
| Northumbria Specialist Emergency Care Hospital | Northumbria Specialist Emergency Care Hospital | 25 | The Royal Victoria Infirmary (Newcastle) | AKCTOD |
| Northumbria Specialist Emergency Care Hospital | Northumbria Specialist Emergency Care Hospital | 25 | The Royal Victoria Infirmary (Newcastle) | AU4MQD |
| Queen Elizabeth Gateshead | Queen Elizabeth Hospital Gateshead (| 27 | The Royal Victoria Infirmary (Newcastle) | AKHRQD |
| Queen Elizabeth Gateshead | Queen Elizabeth Hospital Gateshead (| 24 | The Royal Victoria Infirmary (Newcastle) | AOV7ND |
| Univ. Hospital of North Durham | James Cook University Hospital | 29 | | A4UBPD |
| Univ. Hospital of North Durham | University Hospital Of North Durham | 25 | James Cook University Hospital | AIUOPD |
| Univ. Hospital of North Durham | University Hospital Of North Durham | 25 | James Cook University Hospital | A6WOPD |
| Univ. Hospital of North Tees | James Cook University Hospital | 26 | | A6VYQD |
| Univ. Hospital of North Tees | Univ. Hospital of North Tees | 29 | James Cook University Hospital | AAO4QD |
| Univ. Hospital of North Tees | Univ. Hospital of North Tees | 28 | James Cook University Hospital | AUG5ND |
| University Hospital Of North Durham (Maternity) | James Cook University Hospital | 28 | | AGZ7ND |
| University Hospital Of North Durham (Maternity) | James Cook University Hospital | 24 | | A8POPD |
| West Cumberland Hospital (Mat) | West Cumberland Hospital (Mat) | 26 | | AH1HQD |

Pathway Exception 60%

Inpatient after 44 weeks

| Unit | Admissions | I/P after 44wks | % still inpatient |
|-----------------|------------|-----------------|-------------------|
| RVI | 208 | 1 | 0.48% |
| James Cook | 133 | 1 | 0.75% |
| Sunderland | 87 | 1 | 1.15% |
| North Tees | 63 | 0 | 0 |
| Cramlington | 68 | 0 | 0 |
| Carlisle | 38 | * | * |
| Darlington | 58 | 0 | 0 |
| North Durham | 78 | 0 | 0 |
| Gateshead | 40 | 0 | 0 |
| West Cumberland | 46 | 0 | 0 |

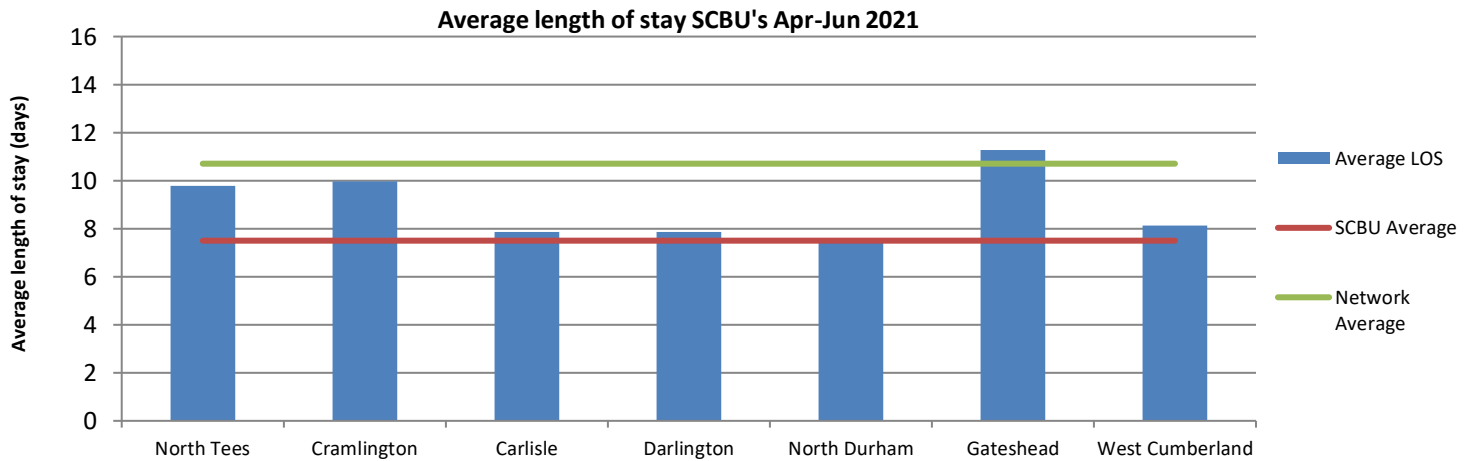
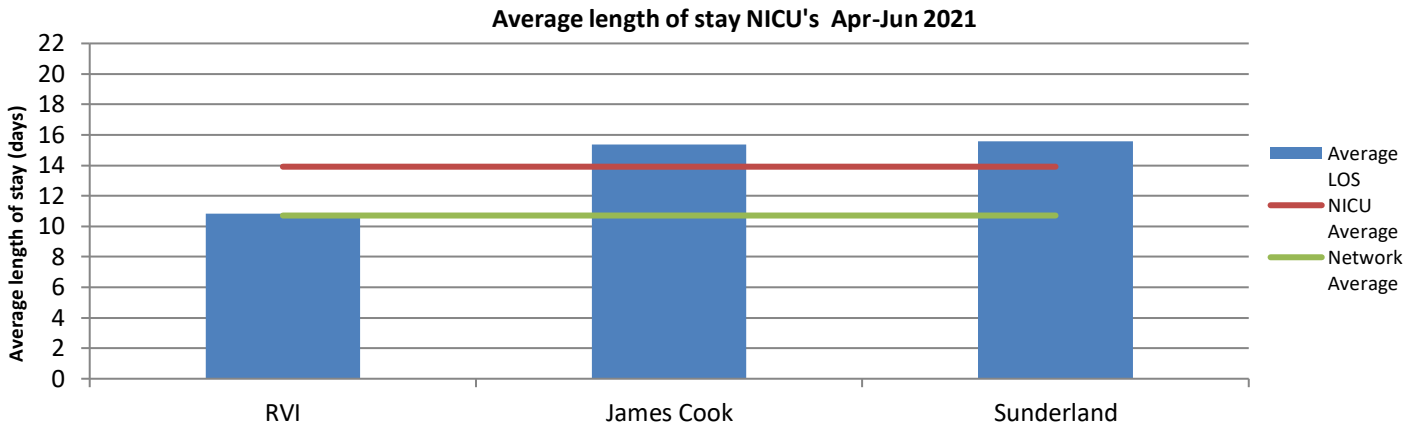


¹ Calculated using 1st episodes admissions and total births less 7% "preterm births" suggested average as per NNN agreement.

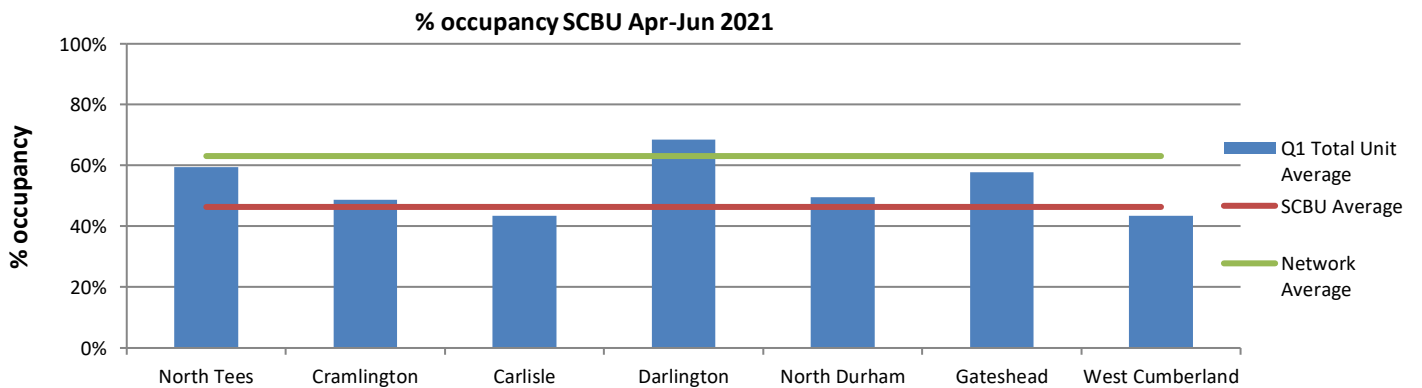
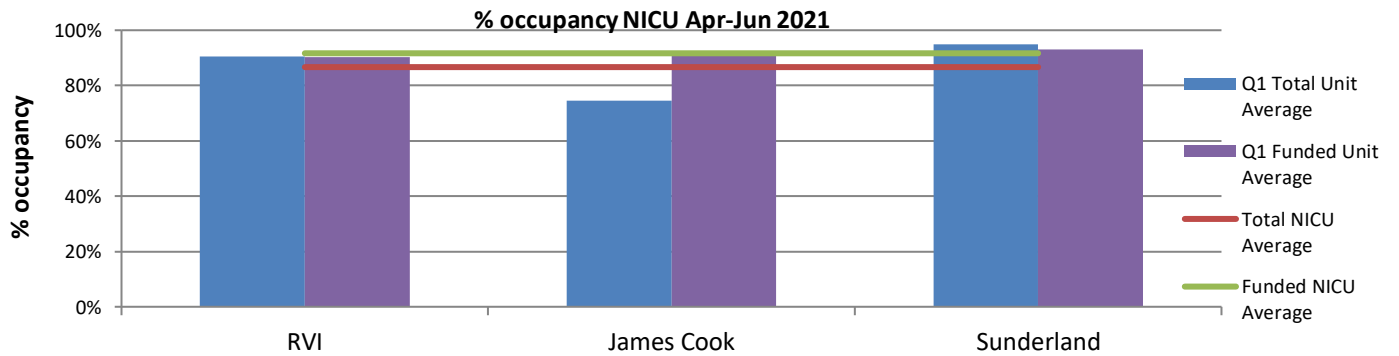
² Calculated using 1st episodes term admission as a percentage of 1st admissions.

**Excludes unavoidable "congenital abnormality" term admissions (admit principal reason = 22)

Section 2 – Length of Stay³



Section 3 – Occupancy⁴



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

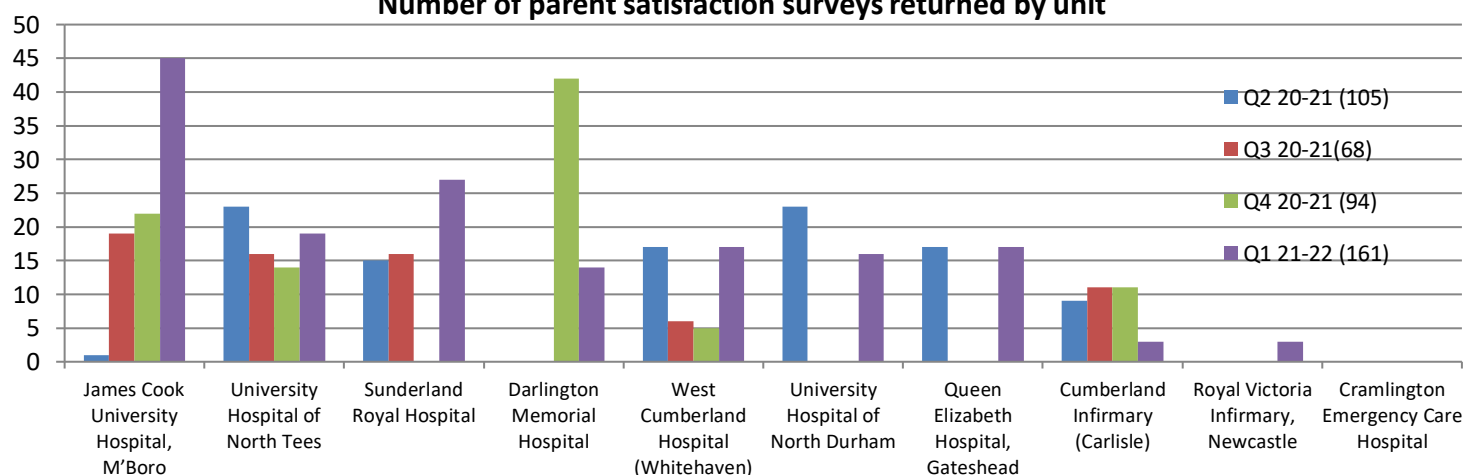
⁴ Calculated using available total cot numbers and occupancy levels.

Section 4a – Clinical Indicators⁵

| Period: | National CQUIN | | | | NNAP | | | | | |
|-----------------|------------------------------------|----------------------|---------------|-------------------------------|--------------------------|---------------------------------|--|---------------|---------------------------------------|------------|
| | Q1 21-22 | | | | Q1 21-22 | | | | | |
| 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 (<32/40) | ROP screening | Temperature Taken within 1hr (<32/40) | Mag Sulph |
| RVI | 0% | 90% | 83% | 98% | 88% | 88% | 56% | 50% | 96% | 71% |
| James Cook | 89% | 94% | 100% | 91% | 91% | 82% | 27% | 86% | 97% | 80% |
| Sunderland | 77% | 100% | 100% | 100% | 90% | 88% | 50% | 73% | 100% | 89% |
| North Tees | 56% | N/A | 0% | 100% | 100% | 89% | 80% | 100% | 100% | 100% |
| Cramlington | 25% | N/A | 0% | 75% | 91% | 75% | 75% | 33% | 50% | 50% |
| Carlisle | 0% | N/A | 0% | 80% | 100% | 47% | N/A | N/A | 100% | N/A |
| Darlington | 50% | N/A | 67% | 100% | 100% | 80% | 50% | 67% | 100% | N/A |
| North Durham | 40% | N/A | 100% | 91% | 100% | 75% | 25% | 100% | 100% | 100% |
| Gateshead | 33% | N/A | N/A | 100% | 70% | 73% | 75% | 100% | 100% | 100% |
| West Cumberland | 0% | N/A | N/A | 83% | 100% | 76% | 67% | 100% | N/A | 100% |
| Northern | 37% | 95% | 56% | 92% | 93% | 77% | 56% | 79% | 94% | 86% |

Section 4b – Non-clinical Indicators

Number of parent satisfaction surveys returned by unit



Section 5 – Network Audit & data/information compliance⁶

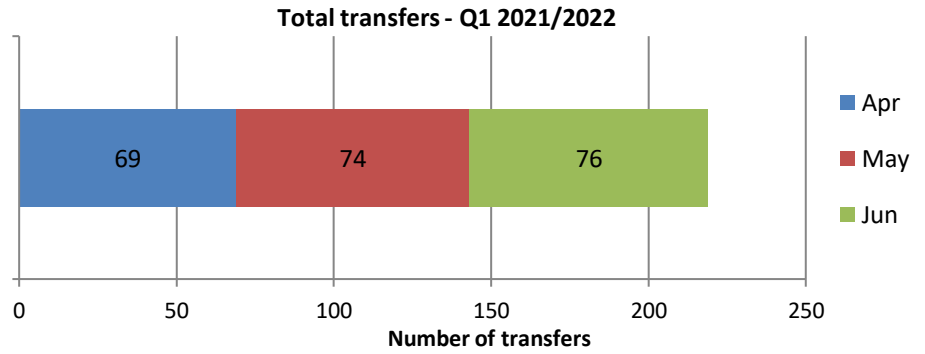
| Latest Annual Reports – Northern Neonatal Network | | |
|---|------|----------|
| Unit/Trust | Year | Produced |
| Sunderland | 2018 | May-20 |
| North Cumbria | 2018 | Nov-19 |
| CDDFT | 2018 | Aug-19 |
| RVI | 2017 | Sep-18 |
| North Tees | 2017 | Jul-18 |
| JCUH | 2016 | Nov-17 |
| Cramlington | 2016 | Aug-17 |
| Gateshead | 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

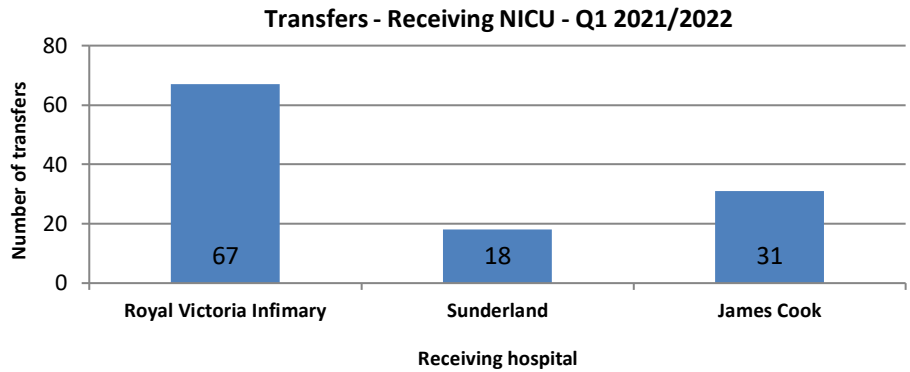
⁶ Requested items as identified and defined by the Network as auditable – green if returned by deadline, amber if returned following reminder, red if no response received. For Dashboard returns, the deadline for submission will be 6 weeks after the end of the quarter being requested.

Section 6 – Northern Neonatal Transport Service (NNeTS)

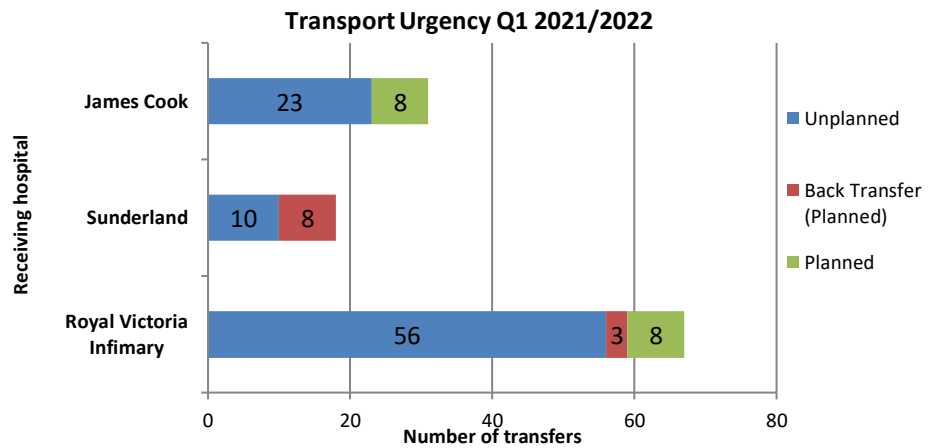
These figures represent the total number of transfers undertaken by each team per month, including back-transfers



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.

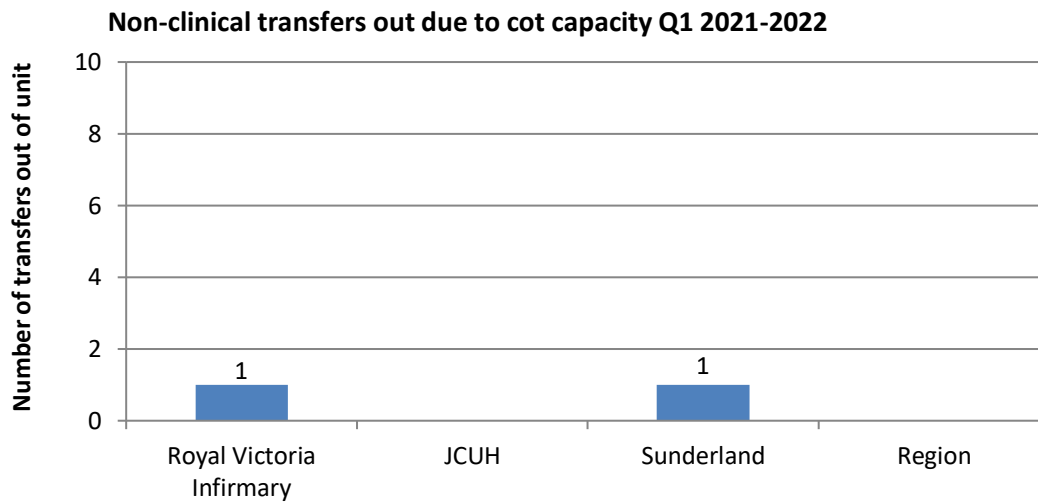


Non-clinical transfers due to cot availability Q1 2021/22

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 | 1 |
| JCUH | 0 |
| Sunderland | 1 |
| Region | 0 |



Out of network activity/transfers

| NNN IUT'S THAT WENT OUT OF REGION BECAUSE REGION FULL | | |
|---|------|----|
| Gest | FROM | TO |
| | | |