NTG Annual Transport Data Report: 2022/23

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ScotSTAR
Method

- Email to transport service’s medical and nursing leads requesting activity data and service information from 1\(^{st}\) April 2022 to 31\(^{st}\) March 2023
  - Requests before 2019/2020 covered first 6 months of calendar year only
Reorganisations & additions for 2022/23 data

- No service reorganisations for 2022/23
- Data collection unchanged from 2020/21
Number of Services UK Neonatal Transport Services

• 2012 – data from 22
• 2013 – data from 21
• 2014 – data from 19
• 2015 – data from 19
• 2016 – data from 18
• 2017 – data from 18
• 2018 onwards – data from 15
All team annualised UK neonatal transport activity

2019-20 onwards data 12-month collection period, prior to that 6 months used
Birth data from relevant national bodies. The birth data is yearly so only for indication of possible change. 2019/20 using 2019 figures, 2021/22 using 2021 figures etc.
UK neonatal transport activity
UK neonatal transport
NTG transfers per 1,000 live births

Birth data from relevant national bodies. The birth data is yearly so only for indication of possible change. 2019/20 using 2019 figures, 2021/22 using 2021 figures etc.
### UK Summary Data
#### 2012 to 2019 Adjusted

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total transfers</strong></td>
<td>15,623</td>
<td>15,603</td>
<td>14,228</td>
<td>15,073</td>
<td>14,976</td>
</tr>
<tr>
<td>Ventilated</td>
<td>3,962 (25.4%)</td>
<td>3,677 (23.6%)</td>
<td>3,217 (22.6%)</td>
<td>3,387 (22.5%)</td>
<td>3,409 (22.8%)</td>
</tr>
<tr>
<td>HFOV</td>
<td>70 (1.8%)</td>
<td>102 (2.8%)</td>
<td>112 (3.5%)</td>
<td>98 (2.9%)</td>
<td>113 (3.3%)</td>
</tr>
<tr>
<td>CPAP</td>
<td>1,514 (9.7%)</td>
<td>1,070 (6.9%)</td>
<td>871 (6.1%)</td>
<td>1,029 (6.8%)</td>
<td>969 (6.5%)</td>
</tr>
<tr>
<td>High-flow</td>
<td>1,194 (7.7%)</td>
<td>1,712 (11.0%)</td>
<td>1,663 (11.7%)</td>
<td>1,824 (12.1%)</td>
<td>2,054 (13.7%)</td>
</tr>
<tr>
<td>Cooling</td>
<td>538 (3.4%)</td>
<td>541 (3.5%)</td>
<td>502 (3.5%)</td>
<td>496 (3.3%)</td>
<td>437 (2.9%)</td>
</tr>
<tr>
<td>iNO</td>
<td>264 (1.7%)</td>
<td>293 (1.9%)</td>
<td>298 (2.1%)</td>
<td>292 (1.9%)</td>
<td>266 (1.8%)</td>
</tr>
<tr>
<td>Palliative</td>
<td>49 (0.3%)</td>
<td>62 (0.4%)</td>
<td>56 (0.4%)</td>
<td>53 (0.4%)</td>
<td>51 (0.3%)</td>
</tr>
</tbody>
</table>

2012-2019 data adjusted from 6 month to 12 months of data
Workload and trends in support
Total Transfers by team
Apr 2022 to Mar 2023

ScotSTAR 964
NISTAR 484
NNeTS 860
Connect NW 1917
Embrace 1401
CenTre 1482
KIDS NTS 1357
PaNDR 1102
N Wales NTS 230
CHANTS 429
SONet 594
NEST 1047
London NTS 1631
KSS 1122
Peninsula 356
Changes in activity by team, 2021/22 v 2022/23

ScotSTAR: 8.8%
NISTAR: 6.4%
NNeTS: 1.3%
Connect NW: 30.7%
Embrace: 8.9%
CenTre: 2.7%
KIDS NTS: 9.8%
PaNDR: 6.6%
N Wales NTS: 9.3%
CHANTS: 12.2%
SONeT: 5.2%
NEST: 0.1%
London NTS: 7.9%
KSS: 9.8%
Peninsula: 6.6%
Trends in transfer number by team, 2019 to 2022/23

2019-20 onwards data 12-month collection period, prior to that 6 months used, adjusted for comparison.
Ventilated Transfers/team
Apr 2022 to Mar 2023

<table>
<thead>
<tr>
<th>Service</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>ScotSTAR</td>
<td>165</td>
</tr>
<tr>
<td>NISTAR</td>
<td>112</td>
</tr>
<tr>
<td>NNeTS</td>
<td>216</td>
</tr>
<tr>
<td>Connect NW</td>
<td>472</td>
</tr>
<tr>
<td>Embrace</td>
<td>324</td>
</tr>
<tr>
<td>CenTre</td>
<td>271</td>
</tr>
<tr>
<td>KIDS NTS</td>
<td>315</td>
</tr>
<tr>
<td>PaNDR</td>
<td>251</td>
</tr>
<tr>
<td>N Wales NTS</td>
<td>27</td>
</tr>
<tr>
<td>CHANTS</td>
<td>91</td>
</tr>
<tr>
<td>SONeT</td>
<td>164</td>
</tr>
<tr>
<td>NEST</td>
<td>199</td>
</tr>
<tr>
<td>London NTS</td>
<td>459</td>
</tr>
<tr>
<td>KSS</td>
<td>266</td>
</tr>
<tr>
<td>Peninsula</td>
<td>77</td>
</tr>
</tbody>
</table>
Ventilated Transfers as a percentage of total transfer, by team Apr 2022 to Mar 2023

- ScotSTAR: 17.1%
- NISTAR: 23.1%
- NNeTS: 25.1%
- Connect NW: 24.6%
- Embrace: 23.1%
- CenTre: 18.3%
- KIDS NTS: 23.2%
- PaNDR: 22.8%
- N Wales NTS: 11.7%
- CHANTS: 21.2%
- SONeT: 15.7%
- NEST: 33.5%
- London NTS: 28.1%
- KSS: 23.7%
- Peninsula: 21.6%
Trends in numbers of ventilated transfer by team 2019 to 2022/23
Ventilated transfers as percentage of total transfers, by team 2019 to 2022/23
HFOV Transfers by team Apr 2022 to Mar 2023

ScotSTAR  7
NISTAR    2
NNeTS     0
Connect NW 36
Embrace   4
CenTre   13
KIDS NTS  0
PaNDR     1
N Wales NTS 2
CHANTS   0
SONeT    9
NEST     7
London NTS 26
KSS      4
Peninsula 2
HFOV Transfers as a percentage of ventilated transfers, by team Apr 2022 to Mar 2023

<table>
<thead>
<tr>
<th>Team</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>ScotSTAR</td>
<td>4.2%</td>
</tr>
<tr>
<td>NISTAR</td>
<td>1.8%</td>
</tr>
<tr>
<td>NNeTS</td>
<td>0%</td>
</tr>
<tr>
<td>Connect NW</td>
<td>7.6%</td>
</tr>
<tr>
<td>Embrace</td>
<td>0.0%</td>
</tr>
<tr>
<td>CenTre</td>
<td>1.5%</td>
</tr>
<tr>
<td>KIDS NTS</td>
<td>4.1%</td>
</tr>
<tr>
<td>PaNDR</td>
<td>0.0%</td>
</tr>
<tr>
<td>N Wales NTS</td>
<td>3.7%</td>
</tr>
<tr>
<td>CHANTS</td>
<td>2.2%</td>
</tr>
<tr>
<td>SONeT</td>
<td>5.5%</td>
</tr>
<tr>
<td>NEST</td>
<td>3.5%</td>
</tr>
<tr>
<td>London NTS</td>
<td>5.7%</td>
</tr>
<tr>
<td>KSS</td>
<td>1.5%</td>
</tr>
<tr>
<td>Peninsula</td>
<td>2.6%</td>
</tr>
</tbody>
</table>
Trends in numbers on HFOV by team, 2019 to 2022/23
Trends in HFOV transfers as a percentage of ventilated transfers by team 2019 to 2022/23
Nitric Oxide Transfers by team Apr 2022 to Mar 2023

- ScotSTAR: 22
- NISTAR: 2
- NNeTS: 23
- Connect NW: 36
- Embrace: 21
- CenTre: 12
- KIDS NTS: 21
- PaNDR: 14
- N Wales NTS: 4
- CHANTS: 4
- SONeT: 23
- NEST: 13
- London NTS: 37
- KSS: 25
- Peninsula: 9
Nitric Oxide Transfers as a percentage of ventilated transfers, by team Apr 2022 to Mar 2023

<table>
<thead>
<tr>
<th>Team</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>ScotSTAR</td>
<td>13.3%</td>
</tr>
<tr>
<td>NISTAR</td>
<td>1.8%</td>
</tr>
<tr>
<td>NNeTS</td>
<td>10.6%</td>
</tr>
<tr>
<td>Connect NW</td>
<td>7.6%</td>
</tr>
<tr>
<td>Embrace</td>
<td>6.5%</td>
</tr>
<tr>
<td>CenTre</td>
<td>4.4%</td>
</tr>
<tr>
<td>KIDS NTS</td>
<td>6.7%</td>
</tr>
<tr>
<td>PaNDR</td>
<td>5.6%</td>
</tr>
<tr>
<td>N Wales NTS</td>
<td>14.8%</td>
</tr>
<tr>
<td>CHANTS</td>
<td>14.0%</td>
</tr>
<tr>
<td>SONeT</td>
<td>11.7%</td>
</tr>
<tr>
<td>NEST</td>
<td>9.4%</td>
</tr>
<tr>
<td>London NTS</td>
<td>8.1%</td>
</tr>
<tr>
<td>KSS</td>
<td>6.5%</td>
</tr>
<tr>
<td>Peninsula</td>
<td>4.4%</td>
</tr>
</tbody>
</table>
Trends in numbers on Nitric Oxide by team, 2019 to 2022/23
Trends in Nitric Oxide transfers as a percentage of ventilated transfers by team 2019 to 2022/23
CPAP Transfers by team
Apr 2022 to Mar 2023

ScotSTAR 52
NISTAR 57
NNeTS 65
Connect NW 136
Embrace 74
CenTre 175
KIDS NTS 70
PaADR 55
NWales NTS 24
CHANTS 32
SONeT 18
NEST 80
London NTS 80
KSS 28
Peninsula 23
CPAP Transfers as a percentage of total transfers, by team Apr 2022 to Mar 2023
Trends in numbers on CPAP by team, 2019 to 2022/23
Trends in CPAP transfers as a percentage of total transfers by team 2019 to 2022/23
High-flow Transfers/team
Apr 2022 to Mar 2023

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Transfers</th>
</tr>
</thead>
<tbody>
<tr>
<td>ScotSTAR</td>
<td>168</td>
</tr>
<tr>
<td>NISTAR</td>
<td>44</td>
</tr>
<tr>
<td>NNeTS</td>
<td>26</td>
</tr>
<tr>
<td>Connect NW</td>
<td>242</td>
</tr>
<tr>
<td>Embrace</td>
<td>215</td>
</tr>
<tr>
<td>CenTre</td>
<td>91</td>
</tr>
<tr>
<td>KIDS NTS</td>
<td>189</td>
</tr>
<tr>
<td>PaNDR</td>
<td>237</td>
</tr>
<tr>
<td>N Wales NTS</td>
<td>251</td>
</tr>
<tr>
<td>CHANTS</td>
<td>82</td>
</tr>
<tr>
<td>SONeT</td>
<td>66</td>
</tr>
<tr>
<td>NEST</td>
<td>14</td>
</tr>
<tr>
<td>London NTS</td>
<td>210</td>
</tr>
<tr>
<td>KSS</td>
<td>179</td>
</tr>
<tr>
<td>Peninsula</td>
<td>40</td>
</tr>
</tbody>
</table>
High-flow Transfers as a percentage of total transfers, by team Apr 2022 to Mar 2023

- ScotSTAR: 17.4%
- NISTAR: 9.1%
- NNeTS: 3.0%
- Connect NW: 12.6%
- Embrace: 15.3%
- CenTre: 6.1%
- KIDS NTS: 13.9%
- PaNDR: 21.5%
- N Wales NTS: 6.1%
- CHANTS: 19.1%
- SONeT: 24.0%
- NEST: 11.1%
- London NTS: 12.9%
- KSS: 16.0%
- Peninsula: 11.2%
Trends in numbers on High-flow by team, 2019 to 2022/23
Trends in High-flow transfers as a percentage of total transfers by team 2019 to 2022/23
Cooling Transfers/team
Apr 2022 to Mar 2023
Cooling Transfers as a percentage of total transfers, by team Apr 2022 to Mar 2023

- ScotSTAR: 0.7%
- NISTAR: 0.2%
- NNeTS: 1.7%
- Connect NW: 3.5%
- Embrace: 1.9%
- CenTre: 1.6%
- KIDS NTS: 2.1%
- PaNDR: 3.5%
- N Wales NTS: 2.6%
- CHANTS: 2.3%
- SONeT: 3.8%
- NEST: 6.4%
- London NTS: 4.1%
- KSS: 4.3%
- Peninsula: 5.9%
Trends in numbers cooled in transfer, by team, 2019 to 2022/23
Trends in Cooling transfers as a percentage of total transfers by team 2019 to 2022/23
Transfers for Palliative care by team Apr 2022 to Mar 2023

- ScotSTAR: 6
- NISTAR: 4
- NNeTS: 2
- Connect NW: 6
- Embrace: 11
- CenTre: 6
- KIDS NTS: 3
- PaNDR: 3
- N Wales NTS: 1
- CHANTS: 5
- SONeT: 2
- NEST: 1
- London NTS: 1
- KSS: 1
- Peninsula: 1
Transfers for Palliative care as a percentage of total transfers, by team Apr 2022 to Mar 2023

<table>
<thead>
<tr>
<th>Team</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>ScotSTAR</td>
<td>0.6%</td>
</tr>
<tr>
<td>NISTAR</td>
<td>0.8%</td>
</tr>
<tr>
<td>NNeTS</td>
<td>0.3%</td>
</tr>
<tr>
<td>Connect NW</td>
<td>0.2%</td>
</tr>
<tr>
<td>Embrace</td>
<td>0.8%</td>
</tr>
<tr>
<td>CenTre</td>
<td>0.4%</td>
</tr>
<tr>
<td>KIDS NTS</td>
<td>0.2%</td>
</tr>
<tr>
<td>PaNDR</td>
<td>0.3%</td>
</tr>
<tr>
<td>N Wales NTS</td>
<td>0.2%</td>
</tr>
<tr>
<td>CHANTS</td>
<td>0.2%</td>
</tr>
<tr>
<td>SONEt</td>
<td>0.5%</td>
</tr>
<tr>
<td>NEST</td>
<td>0.3%</td>
</tr>
<tr>
<td>London NTS</td>
<td>0.1%</td>
</tr>
<tr>
<td>KSS</td>
<td>0.1%</td>
</tr>
<tr>
<td>Peninsula</td>
<td>0.3%</td>
</tr>
</tbody>
</table>
Trends in numbers of transfers for Palliative care by team, 2019 to 2022/23
Trends in Palliative transfers as a percentage of total transfers by team 2019 to 2022/23
Air Transfers by team
Apr 2022 to Mar 2023

<table>
<thead>
<tr>
<th>Team</th>
<th>Transfers</th>
</tr>
</thead>
<tbody>
<tr>
<td>ScotSTAR</td>
<td>83</td>
</tr>
<tr>
<td>NISTAR</td>
<td></td>
</tr>
<tr>
<td>NNeTS</td>
<td></td>
</tr>
<tr>
<td>Connect NW</td>
<td></td>
</tr>
<tr>
<td>Embrace</td>
<td>12</td>
</tr>
<tr>
<td>CenTre</td>
<td></td>
</tr>
<tr>
<td>KIDS NTS</td>
<td></td>
</tr>
<tr>
<td>PaNDR</td>
<td></td>
</tr>
<tr>
<td>N Wales NTS</td>
<td>3</td>
</tr>
<tr>
<td>CHANTS</td>
<td>11</td>
</tr>
<tr>
<td>SONeT</td>
<td>9</td>
</tr>
<tr>
<td>NEST</td>
<td>2</td>
</tr>
<tr>
<td>London NTS</td>
<td>15</td>
</tr>
<tr>
<td>KSS</td>
<td></td>
</tr>
<tr>
<td>Peninsula</td>
<td></td>
</tr>
</tbody>
</table>
Air Transfers as a percentage of total transfers, by team Apr 2022 to Mar 2023

ScotSTAR: 8.6%
NISTAR: 0.0%
NNeTS: 0.0%
Connect NW: 0.0%
Embrace: 0.0%
CenTre: 0.0%
KIDS NTS: 0.0%
PaNDR: 0.0%
N Wales NTS: 0.9%
CHANTS: 2.6%
SONeT: 0.3%
NEST: 0.0%
London NTS: 0.0%
KSS: 0.0%
Peninsula: 0.0%
Trends in numbers on Air by team, 2019 to 2022/23
Trends in Air transfers as a percentage of total transfers by team 2019 to 2022/23
Newborn Preterm Infant Workload

Data on

– Transfer on first 3 days of life
  • $22^{+0}$ weeks to $26^{+6}$ weeks
  • $27^{+0}$ weeks to $31^{+6}$ weeks
  • $32^{+0}$ weeks to $34^{+6}$ weeks

– Operational reason for transfer
  • Uplift
  • Capacity
  • Repatriation
Premature infants transferred on the first 3 days of life for **Uplift of care 2019/20** to **2022/23**
Premature infants transferred on the first 3 days of life for **Capacity** 2019/20 to 2022/23

![Bar chart showing the number of premature infants transferred by gestational age and year.](chart.png)
Premature infants transferred on the first 3 days of life for Repatriation 2019/20 to 2022/23
2022/23 Uplift transfers by team, 1st 3 days of life, 22-31+6 week infants

ScotSTAR  NISTAR  NNeTS  Connect NW  Embrace  CenTre  KIDS NTS  PaNDR  N Wales NTS  CHANTS  SONeT  NEST  London NTS  KSS  Peninsula

- Uplift 22+0 to 26+6
- Uplift 27+0 to 31+6
- Uplift 32+0 to 34+6
2022/23 Uplift transfers by Team as a percentage of total transfers 1st 3 days of life, 22-31+6 weeks
2022/23 Capacity transfers by team, 1st 3 days of life, 22-34+6 week infants

- ScotSTAR
- NISTAR
- NNeTS
- Connect NW
- Embrace
- CenTre
- KIDS NTS
- PaNDR
- N Wales NTS
- CHANTS
- SONeT
- NEST
- London NTS
- KSS
- Peninsula

Capacity:
- 22+0 to 26+6
- 27+0 to 31+6
- 32+0 to 34+6
2022/23 Capacity transfers by Team as a percentage of total transfers 1\textsuperscript{st} 3 days of life, 22-34+6 weeks
2022/23 Repatriation transfers by team, 1st 3 days of life, 22-34+6 week infants
2022/23 Repatriation transfers by Team as a percentage of total transfers
1st 3 days of life, 22-31+6 weeks
Thermal control
1.3 Newborn Infants 22 to 31+6 weeks
Temperatures on arrival and completion of transfer
Apr 2022 to Mar 2023
1.3 Newborn Infants 22 to 31+6 weeks

Temperatures on arrival and completion of transfer as 100% Apr 2022 to Mar 2023

[Bar chart showing percentages of different temperature ranges for various newborn infant networks.]

- ScotSTAR
- NISTAR
- NNeTS
- Connect NW
- Embrace
- CenTre
- KIDS NTS
- PaNDR
- N Wales NTS
- CHANTS
- SONEt
- NEST
- London NTS
- KSS
- Peninsula

- 1st assessment 22 to 31 <36.5 deg C
- Completed 22+0 to 31+6 <36.5 deg C
- 1st assessment 22 to 31 36.5-37.5 deg C
- Completed 22+0 to 31+6 36.5-37.5 deg C
- 1st assessment 22 to 31 >37.5 deg C
- Completed 22+0 to 31+6 >37.5 deg C
1.3 Newborn Infants 22 to 26+6 weeks
Temperatures on arrival and completion of transfer
Apr 2022 to Mar 2023
1.3 Newborn Infants 22 to 26+6 weeks
Temperatures on arrival and completion of transfer as 100% Apr 2022 to Mar 2023

ScotSTAR
NISTAR
NNeTS
Connect NW
Embrace
CenTre
KIDS NTS
PaNDR
N Wales NTS
CHANTS
SONeT
NEST
London NTS
KSS
Peninsula
1.3 Newborn Infants 27 to 32+6 weeks
Temperatures on arrival and completion of transfer
Apr 2022 to Mar 2023
1.3 Newborn Infants 27 to 32+6 weeks
Temperatures on arrival and completion of transfer as 100% Apr 2022 to Mar 2023
Normothermia rates 2022-23

% of 1st assessment 22 to 31 36.5-37.5 deg C

% Completed 22+0 to 31+6 36.5-37.5 deg C
Parent Travelling
Number of parents travelling with their baby by team Apr 2022 to Mar 2023

ScotSTAR: 464
NISTAR: 35
NeTS: 198
Connect NW: 206
Embrace: 421
CenTre: 312
KIDS NTS: 404
PaNDR: 483
N Wales NTS: 72
CHANTS: 97
SONeT: 334
NEST: 160
London NTS: 619
KSS: 394
Peninsula: 151
Parents travelling with their baby by team, as a percentage of total transfers Apr 2022 to Mar 2023

- ScotSTAR: 48.1%
- NISTAR: 7.2%
- NNeTS: 23.0%
- Connect NW: 10.7%
- Embrace: 30.0%
- CenTre: 21.1%
- KIDS NTS: 29.8%
- PaNDR: 43.8%
- N Wales NTS: 31.3%
- CHANTS: 22.6%
- SONeT: 31.9%
- NEST: 26.9%
- London NTS: 38.0%
- KSS: 35.1%
- Peninsula: 42.4%
Trends in numbers of parents travelling with their baby
Trends in percentages of total transfers where parents travelled with their baby
In Utero Transfer Coordination
In Utero Transfer Coordination Workload 2022/23

Number of IUTs coordinated by teams offering this service
In Utero Transfer Coordination numbers year to year comparison

Number of IUTs coordinated by teams offering this service
Workload:

• Advice calls
• Bilous vomiting
• Prolonged transfers
Advice Calls Workload 2022/23

Number of advice calls taken by teams offering this service
Advice Calls Workload year on year comparison

Number of advice calls taken by teams offering this service
Number of babies transferred for Bilious Vomiting by service 2022/23
Numbers of babies transferred for Bilious Vomiting year to year comparison
Prolonged Transfers- baby in transit for 3 hours or more 2022/23
Prolonged Transfers (3 hours or more) as a percentage of total transfers 2022/23
Prolonged Transfers - baby in transit for 3 hours or more year on year comparison
Trends in prolonged Transfers, baby in transit for 3 hours or more, as a percentage of total transfers
Benchmarking

Data on

– Immediate dispatch (% mobile within 60 mins)
– Referral response time (for ICU uplift)
– Uplift transfers performed within commissioned area (%)
Immediate dispatch benchmarking criteria

- Gastroschisis
- Ventilated infant with Tracheo-oesophageal fistula +/- atresia
- Intestinal perforation
- Suspected duct-dependent cardiac lesion not responding to prostin
- Unstable respiratory or cardiovascular failure not responding to appropriate management:
  - Despite giving appropriate ventilation via endotracheal tube the infant’s respiratory status remains unstable or severely compromised:
  - Persistent unstable pneumothorax despite chest drain
  - Requiring FiO₂ 100%
  - Arterial oxygen < 5kPa on 2 consecutive blood gas measurements
  - pH <7.1 and pCO₂ >9kPa
  - Persistent mean blood pressure below corrected gestational age, measured on arterial line; if measured with cuff only, there should also be acidosis (pH <7.1)

N.b. this is benchmarking data on response for a defined group of transfers, this does not represent overall “emergency workload”
Immediate dispatch transfers by team
Apr 2022 to Mar 2023

N.b. this is benchmarking data on response for a defined group of transfers, this does not represent overall "emergency workload"
Immediate dispatch transfers by team as a percentage of total transfer 2022/23

N.B. this is benchmarking data on response for a defined group of transfers, this does not represent overall "emergency workload"
Percentage of Immediate Dispatch transfers dispatched within 60 minutes by team Apr 2022 to Mar 2023

N.b. this is benchmarking data on response for a defined group of transfers, this does not represent overall "emergency workload"
Trends in numbers of immediate dispatch transfers by team, 2019/20 to 2022/23

N.b. this is benchmarking data on response for a defined group of transfers, this does not represent overall "emergency workload"
Trends in immediate dispatch transfers as a percentage of total transfers, by team, 2019/20 to 2022/23

N.b. this is benchmarking data on response for a defined group of transfers, this does not represent overall "emergency workload"
Immediate dispatch transfers dispatched within 60 minutes by team Apr 2022 to Mar 2023

N.b. this is benchmarking data on response for a defined group of transfers, this does not represent overall "emergency workload"
Number of Immediate Dispatch transfers dispatched within 60 minutes by team, 2019/20 to 2022/23

N.b. this is benchmarking data on response for a defined group of transfers, this does not represent overall "emergency workload"
Trends in percentage of Immediate Dispatch transfers dispatched within 60 minutes by team, 2019/20 to 2022/23

N.b. this is benchmarking data on response for a defined group of transfers, this does not represent overall "emergency workload"
Team Area Uplift Transfers

Data on

– Uplift Transfers by the Dedicated Neonatal Team in their commissioned area

• Standard: 95% of uplift transfers within area by dedicated team
Numbers of Uplift transfers in dedicated area 2022/23
Uplift transfers by Dedicated team in own area as a percentage of total uplift transfers
Number of Uplift transfers by other team in dedicated area 2019/20 to 2022/23
Trends in Uplift transfers by Dedicated team in own area, as a percentage of uplift transfers 2019/20 to 2022/23
Benchmark 3

• Arrival at the cotside within 3.5 hours for ICU uplift transfers from level 1 and 2 units in the first 3 days of life
Number of Intensive Care Uplift Transfers from level 1 and 2 units of babies in the first 72 hours of life 2022/23
Intensive care, uplift first 72 hours of life from level 1 and 2 units as a percentage of total transfers 2022/23

<table>
<thead>
<tr>
<th>Service</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>ScotSTAR</td>
<td>8.0%</td>
</tr>
<tr>
<td>NISTAR</td>
<td>5.6%</td>
</tr>
<tr>
<td>NNeTS</td>
<td>18.5%</td>
</tr>
<tr>
<td>Connect NW</td>
<td>15.1%</td>
</tr>
<tr>
<td>Embrace</td>
<td>14.9%</td>
</tr>
<tr>
<td>CenTre</td>
<td>11.5%</td>
</tr>
<tr>
<td>KIDS NTS</td>
<td>12.2%</td>
</tr>
<tr>
<td>PaNDR</td>
<td>20.3%</td>
</tr>
<tr>
<td>N Wales NTS</td>
<td>10.0%</td>
</tr>
<tr>
<td>CHANTS</td>
<td>19.8%</td>
</tr>
<tr>
<td>SONeT</td>
<td>18.1%</td>
</tr>
<tr>
<td>NEST</td>
<td>29.5%</td>
</tr>
<tr>
<td>London NTS</td>
<td>23.9%</td>
</tr>
<tr>
<td>KSS</td>
<td>19.0%</td>
</tr>
<tr>
<td>Peninsula</td>
<td>16.6%</td>
</tr>
</tbody>
</table>
Trends in the number of Intensive Care Uplift transfers over time
Number where team arrived with the patient within 3.5 hours of the start of the referring call (Intensive care, uplift first 72 hours of life from level 1 and 2 units), numbers, 2022/23
Percentage where team arrived with the patient within 3.5 hours of the start of the referring call (Intensive care, uplift first 72 hours of life from level 1 and 2 units) as a percentage of those transfers 2022/23

<table>
<thead>
<tr>
<th>Service</th>
<th>2022</th>
<th>2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>ScotSTAR</td>
<td>91%</td>
<td>93%</td>
</tr>
<tr>
<td>NISTAR</td>
<td>94%</td>
<td>94%</td>
</tr>
<tr>
<td>NNeTS</td>
<td>83%</td>
<td>83%</td>
</tr>
<tr>
<td>Connect NW</td>
<td>74%</td>
<td>82%</td>
</tr>
<tr>
<td>Embrace</td>
<td>82%</td>
<td>83%</td>
</tr>
<tr>
<td>CenTre</td>
<td>83%</td>
<td>83%</td>
</tr>
<tr>
<td>KIDS NTS</td>
<td>96%</td>
<td>96%</td>
</tr>
<tr>
<td>PaNDR</td>
<td>86%</td>
<td>86%</td>
</tr>
<tr>
<td>N Wales NTS</td>
<td>77%</td>
<td>77%</td>
</tr>
<tr>
<td>CHANTS</td>
<td>75%</td>
<td>75%</td>
</tr>
<tr>
<td>SONeT</td>
<td>81%</td>
<td>81%</td>
</tr>
<tr>
<td>NEST</td>
<td>88%</td>
<td>88%</td>
</tr>
<tr>
<td>London NTS</td>
<td>76%</td>
<td>76%</td>
</tr>
<tr>
<td>KSS</td>
<td>76%</td>
<td>76%</td>
</tr>
<tr>
<td>Peninsula</td>
<td>91%</td>
<td>93%</td>
</tr>
</tbody>
</table>
Intensive care, uplift first 72 hours of life from level 1 and 2 units as a percentage of total transfers 2022/23
Trends in team arrived with the patient within 3.5 hours of the start of the referring call as a percentage of Intensive care, uplift first 72 hours of life from level 1 and 2 units by team 2019/20 to 2022/23
Stabilising times

- Intensive care, uplift first 72 hours of life from level 1 and 2 units
  - Time from arrival to departure of the transport team
Percentage Intensive care, uplift first 72 hours of life from level 1 and 2 units records with a stabilisation time

<table>
<thead>
<tr>
<th>ScotSTAR</th>
<th>NISTAR</th>
<th>NNeTS</th>
<th>Connect NW</th>
<th>Embrace</th>
<th>CenTre</th>
<th>KIDS NTS</th>
<th>PaNDR</th>
<th>N Wales NTS</th>
<th>CHANTS</th>
<th>SONeT</th>
<th>NEST</th>
<th>London NTS</th>
<th>KSS</th>
<th>Peninsula</th>
</tr>
</thead>
<tbody>
<tr>
<td>99%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>97%</td>
<td>100%</td>
<td>100%</td>
<td>99%</td>
<td>100%</td>
<td>98%</td>
<td>100</td>
<td>100%</td>
</tr>
</tbody>
</table>
Stabilising time (minutes), 2022/23
Median (25th & 75th centiles), uplift/ICU transfers, first 3 days of life from level 1 and 2 units
Stabilising time (minutes), 2022/23
Median (25th & 75th centiles), uplift/ICU transfers, first 3 days of life from level 1 and 2 units - ranked
Stabilising time (minutes), 2022/23
Historical Times (25th centile, median and 75th centile)
Under and over ventilation
Number of infants who are ventilated via an ETT in transit by team Apr 2022 to Mar 2023
Infants who are ventilated in transit as a percentage of total transfers, by team Apr 2022 to Mar 2023

- ScotSTAR: 17.1%
- NISTAR: 22.9%
- NNeTS: 25.1%
- Connect NW: 24.6%
- Embrace: 12.8%
- CenTre: 17.1%
- KIDS NTS: 23.2%
- PaNDR: 22.8%
- N Wales NTS: 11.7%
- CHANTS: 21.2%
- SONeT: 13.8%
- NEST: 33.5%
- London NTS: 28.1%
- KSS: 23.7%
- Peninsula: 20.8%
Ventilated patients with a pCO$_2$ recorded on completion of transfer, as a percentage of ventilated transfers by team Apr 2022 to Mar 2023

<table>
<thead>
<tr>
<th>Team</th>
<th>pCO$_2$ Recorded (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ScotSTAR</td>
<td>37%</td>
</tr>
<tr>
<td>NISTAR</td>
<td>59%</td>
</tr>
<tr>
<td>NNeTS</td>
<td>98%</td>
</tr>
<tr>
<td>Connect NW</td>
<td>88%</td>
</tr>
<tr>
<td>Embrace</td>
<td>82%</td>
</tr>
<tr>
<td>CenTre</td>
<td>97%</td>
</tr>
<tr>
<td>KIDS NTS</td>
<td>98%</td>
</tr>
<tr>
<td>PaNDR</td>
<td>100%</td>
</tr>
<tr>
<td>N Wales NTS</td>
<td>99%</td>
</tr>
<tr>
<td>CHANTS</td>
<td>86%</td>
</tr>
<tr>
<td>SONeT</td>
<td>100%</td>
</tr>
<tr>
<td>NEST</td>
<td>91%</td>
</tr>
<tr>
<td>London NTS</td>
<td>87%</td>
</tr>
<tr>
<td>KSS</td>
<td>91%</td>
</tr>
<tr>
<td>Peninsula</td>
<td>91%</td>
</tr>
</tbody>
</table>
Trends in numbers with a pCO₂ recorded on completion of the transfer/team by team, 2019/20 to 2022/23
Trends in percentages of ventilated infants with a pCO$_2$ recorded on completion of the transfer, by team, 2019/20 to 2022/23
Numbers of ventilated patients with a pCO2 <4 kPa on completion of transfer, by team Apr 2022 to Mar 2023.
pCO2 <4 on completion of transfer as a percentage of ventilated transfers by team, 2022/23
Trends in infants with pCO2 <4kPa on completion of transfer, as a percentage of ventilated transfers with pCO2 recorded, by team 2019/20 to 2022/23
Numbers where pCO$_2$ > 7 kPa and pH < 7.2 on completion of transfer by team 2022/23
pCO$_2$ >7 kPa and pH <7.2 on completion of transfer as a percentage of ventilated transfers with pCO$_2$ recorded by team 2022/23.
Trends in numbers where CO\textsubscript{2} > 7 kPa and pH < 7.2 on completion of transfer by team 2019/20 to 2022/23
Trends In \( pCO_2 >7 \) kPa and pH <7.2 on completion of transfer as a percentage of ventilated transfers by team 2019/20 to 2022/23.
Normocapnia 2022-23
pCO2 >4 and <7 (and pH>7.2)

<table>
<thead>
<tr>
<th>Organisation</th>
<th>ScotSTAR</th>
<th>NISTAR</th>
<th>NNeTS</th>
<th>Connect NW</th>
<th>Embrace</th>
<th>CenTre</th>
<th>KIDS NTS</th>
<th>PaNDR</th>
<th>N Wales NTS</th>
<th>CHANTS</th>
<th>SONeT</th>
<th>NEST</th>
<th>London NTS</th>
<th>KSS</th>
<th>Peninsula</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percentages</td>
<td>83.61%</td>
<td>90.77%</td>
<td>93.87%</td>
<td>89.59%</td>
<td>91.84%</td>
<td>92.68%</td>
<td>87.05%</td>
<td>88.98%</td>
<td>92.59%</td>
<td>98.89%</td>
<td>88.00%</td>
<td>93.97%</td>
<td>84.38%</td>
<td>90.09%</td>
<td>94.03%</td>
</tr>
</tbody>
</table>
Team characteristics

• Data on
  – 24 hour service
  – Dedicated vehicles
  – Cot bureau/In Utero transfer coordination
  – Conference calling
  – Eligible births not in a NICU centre review process
  – Consultant presence
  – HFO, iNO, VG cooling, ET/Tc CO2
  – Bilious vomiting
  – Parental feedback
Service Characteristics 2022/23
24 hour service
Service Characteristics 2022/23
Dedicated Vehicles


Categories: All, Some, None

Legend:
- 2019/20
- 2020/21
- 2021/22
- 2022/23
Service Characteristics 2022/23
Run a cot bureau
Service Characteristics 2022/23
Do you offer support for locating appropriate maternal and neonatal beds for in-utero transfers?

<table>
<thead>
<tr>
<th>Year</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019/20</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>2020/21</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>2021/22</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>2022/23</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>
Service Characteristics 2022/23
Conference Calling

<table>
<thead>
<tr>
<th>Year</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019/20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2020/21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2021/22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2022/23</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Service Characteristics 2022/23
Local network “wrong place” review
Service Characteristics 2022/23
Consultants on duty for neonatal transport

- a. Scheduled, all of the time
- b. Scheduled, some of the time
- c. Maybe available, ad-hoc
- d. None of the time

Year:
- 2019/20
- 2020/21
- 2021/22
- 2022/23
Service Characteristics 2022/23
Provide servo-controlled active cooling in transit
Are you able to offer inhaled nitric oxide in transit?

<table>
<thead>
<tr>
<th>Year</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019/20</td>
<td>0</td>
<td>15</td>
</tr>
<tr>
<td>2020/21</td>
<td>0</td>
<td>15</td>
</tr>
<tr>
<td>2021/22</td>
<td>0</td>
<td>15</td>
</tr>
<tr>
<td>2022/23</td>
<td>0</td>
<td>15</td>
</tr>
</tbody>
</table>
Service Characteristics 2022/23
HFO offered in Transit
Service Characteristics 2022/23
Do you use a transcutaneous CO$_2$ monitor in transit?

- **2020/21**: 6 Yes, 9 No
- **2021/22**: 9 Yes, 6 No
- **2022/23**: 12 Yes, 3 No
Service Characteristics 2022/23
Do you use ET CO$_2$ monitoring in transit?
Do you offer Volume Guarantee Ventilation in transit?

- **2020/21**: 
  - Yes: 12
  - No: 3

- **2021/22**: 
  - Yes: 15
  - No: 2

- **2022/23**: 
  - Yes: 15
  - No: 2
Service Characteristics 2022/23
Infants referred with bile-stained vomiting/aspirates treated as immediate dispatch transfers?

<table>
<thead>
<tr>
<th>Year</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>2019/20</td>
<td>9</td>
<td>6</td>
</tr>
<tr>
<td>2020/21</td>
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<td>9</td>
</tr>
<tr>
<td>2021/22</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>2022/23</td>
<td>6</td>
<td>9</td>
</tr>
</tbody>
</table>
Service Characteristics 2022/23

Do you have a system in place for collecting parental feedback?

<table>
<thead>
<tr>
<th></th>
<th>2021/22</th>
<th>2022/23</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
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<td>15</td>
</tr>
<tr>
<td>No</td>
<td>3</td>
<td>6</td>
</tr>
</tbody>
</table>
Thanks

• To all of the data collectors, analysers and submitters from all of the teams
• A huge thank you to Colin Devon, ScotSTAR data analyst who brings all of this together