





NTG Annual Transport Data 2020/21

Allan Jackson (consultant neonatologist) and Colin Devon (data analyst) ScotSTAR









- Email to transport service's medical and nursing leads requesting activity data from 1st April 2020 to 31st March 2021
 - Requests before 2019/2020 covered first 6 months of calendar year only
- Additional information about each service.





Reorganisations & additions for 2020/21 data

- Reorganisation:
 - ANTS became PaNDR in March 2021
- Data changes and additions:
 - Section 1.3 Return to more detailed information on temperature before and after transfer
 - Section 1.5 COVID transfers
 - Section 1.6 Number of In Utero Transfers coordinated
 - Section 1.7 Number of Advice Calls



Scottish

Ambulance

Reorganisations & additions for **2020/21** data continued





- Section 1.8 Bilious vomiting data
- Section 1.9 Journeys over 3 hours
- Benchmark 3- restricted to uplift referrals from level 1 and 2 units in the first 3 days of life









Reorganisations & additions for 2020/21 data continued

- Team Characteristics
 - Do you use a transcutaneous CO2 monitor in transit
 - Do you use ET CO2 monitoring in transit
 - Do you offer Volume Guarantee Ventilation in transit

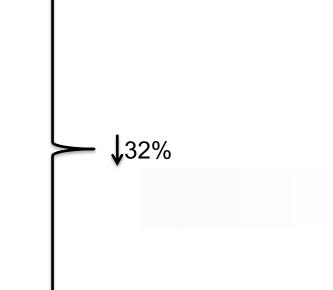


Number of Services, UK



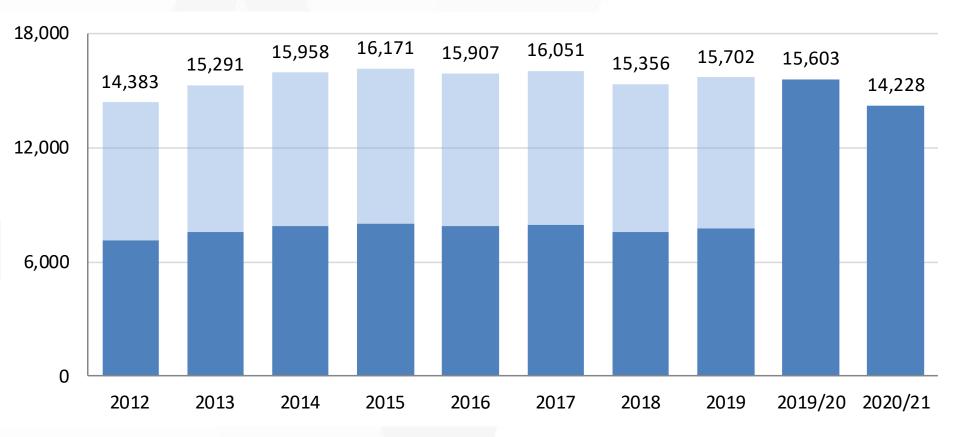


- 2012 data from 22
- 2013 data from 21
- 2014 data from 19
- 2015 data from 19
- 2016 data from 18
- 2017 data from 18
- 2018 onwards data from 15





All team annualised UK neonatal transport activity



2019-20 onwards data 12-month collection period, prior to that 6 months used



Scottish

Ambulance Service

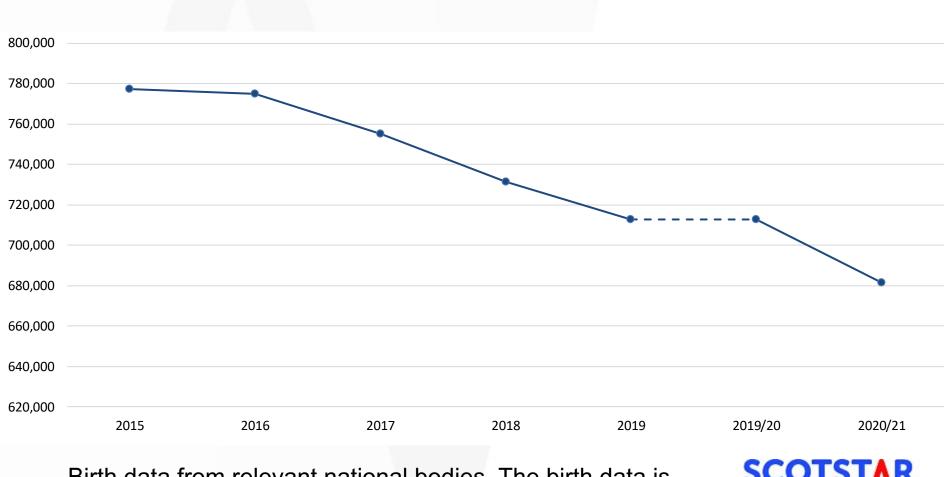
Control the Berlinson

SCOTLANI

UK yearly birth rate

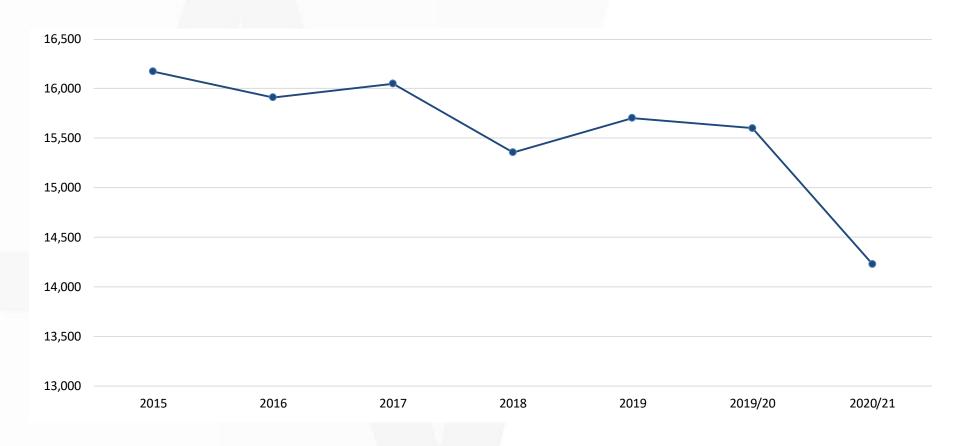






Birth data from relevant national bodies. The birth data is yearly so only for indication of possible change. 2019/20 using 2019 figures, 2020/21 using 2020 figures.



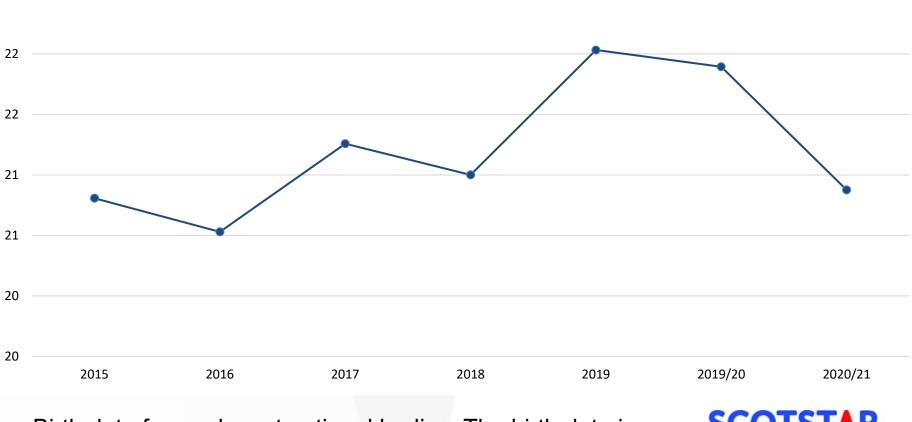


Birth data from relevant national bodies. The birth data is yearly so only for indication of possible change. 2019/20 using 2019 figures, 2020/21 using 2020 figures.



UK NTG transfers per 1,000 live births

23



Birth data from relevant national bodies. The birth data is yearly so only for indication of possible change. 2019/20 using 2019 figures, 2020/21 using 2020 figures.











UK Summary Data Apr 2020 to Mar 2021

	2012	2013	2014	2015	2016	2017	2018	2019	2019/20	2020/21
Total transfers	7152	7562	7892	7997	7910	7938	7594	7765	15603	14228
Ventilated	1889	1961	1949	2155	2000	1913	1939	1868	3677	3217
	(26.4%)	(25.9%)	(24.7%)	(26.9%)	(25.3%)	(24.1%)	(25.5%)	(24.1%)	(23.6%)	(22.6%)
HFOV				16	16	39	48	54	102	112
				(0.7%)	(0.8%)	(2.04%)	(2.5%)	(2.9%)	(2.8%)	(3.5%)
CPAP	847	906	811	790	737		621	529	1070	871
	(11.8%)	(12%)	(10.3%)	(9.9%)	(9.3%)		(8.2%)	(6.8%)	(6.9%)	(6.1%)
High-flow				452	496		674	766	1712	1663
				(5.7%)	(6.3%)		(8.9%)	(9.9%)	(11%)	(11.7%)
Cooling	247	288	249	274	288	245	255	281	541	502
	(3.5%)	(3.8%)	(3.2%)	(3.4%)	(3.6%)	(3.1%)	(3.4%)	(3.6%)	(3.5%)	(3.5%)
iNO	99	111	117	138	148		154	157	293	298
	(1.4%)	(1.5%)	(1.5%)	(1.7%)	(1.9%)		(2%)	(2%)	(1.9%)	(2.1%)
Palliative	22		19	19	33	33	20	24	62	56
	(0.3%)		(0.2%)	(0.2%)	(0.4%)	(0.4%)	(0.3%)	(0.3%)	(0.4%)	(0.4%)

Prior to 2019-20 data returns were for a 6 month period (Jan-Jun), thereafter they have been 12 month periods (Apr-Mar)







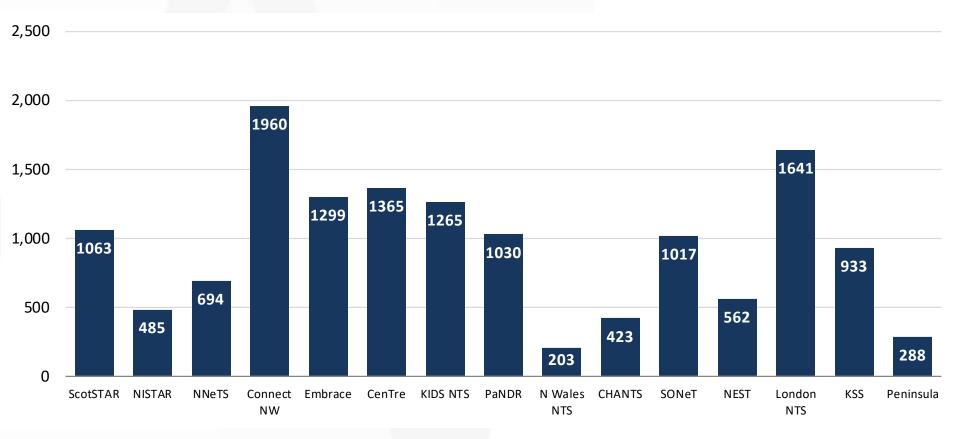
UK Summary Data Apr 2020 to Mar 2021 Adjusted

	Adjusted									
	2012	2013	2014	2015	2016	2017	2018	2019	2019/20	2020/21
Total transfers	14383	15291	15958	16171	15907	16051	15356	15702	15603	14228
Ventilated	3799	3965	3941	4358	4022	3868	3921	3777	3677	3217
	(26.4%)	(25.9%)	(24.7%)	(26.9%)	(25.3%)	(24.1%)	(25.5%)	(24.1%)	(23.6%)	(22.6%)
HFOV				32	32	79	97	109	102	112
				(0.7%)	(0.8%)	(2.04%)	(2.5%)	(2.9%)	(2.8%)	(3.5%)
CPAP	1703	1832	1640	1597	1482		1256	1070	1070	871
	(11.8%)	(12%)	(10.3%)	(9.9%)	(9.3%)		(8.2%)	(6.8%)	(6.9%)	(6.1%)
High-flow				904	992		1348	1532	1712	541
				(5.7%)	(6.3%)		(8.9%)	(9.9%)	(11.0%)	(3.8%)
Cooling	497	582	504	554	579	495	516	568	541	502
	(3.5%)	(3.8%)	(3.2%)	(3.4%)	(3.6%)	(3.1%)	(3.4%)	(3.6%)	(3.5%)	(3.5%)
iNO	198	222	234	276	296		308	314	293	62
	(1.4%)	(1.5%)	(1.5%)	(1.7%)	(1.9%)		(2%)	(2%)	(1.9%)	(0.4%)
Palliative	44		38	38	66	67	40	49	62	56
	(0.3%)		(0.2%)	(0.2%)	(0.4%)	(0.4%)	(0.3%)	(0.3%)	(0.4%)	(0.4%)

Data for years 2012-2019 was adjusted by doubling the 6 month figures returned in those years



Total Transfers by team Apr 2020 to Mar 2021

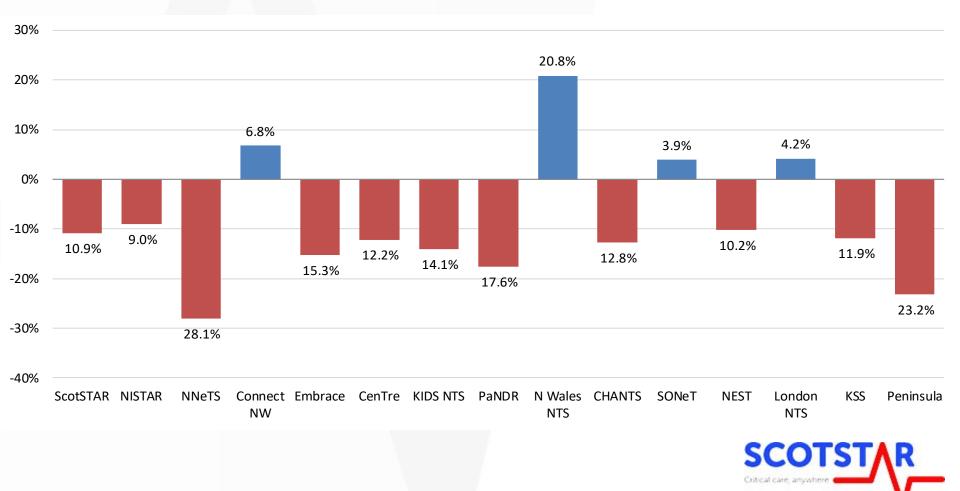


SCOTST R Critical care, anywhere





Changes in activity by team, 2019/20 v 2020/21



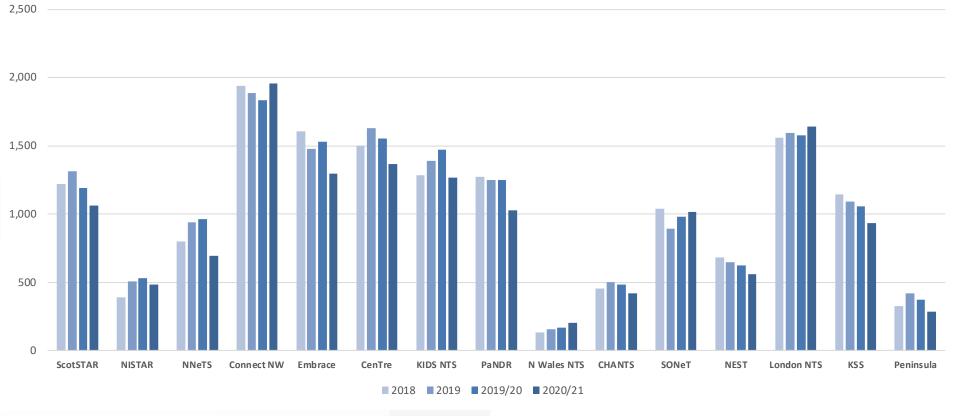
Scottish Ambulance Service



Trends in transfer number by team, 2018 to 2020/211







2019-20 onwards data 12-month collection period, prior to that 6 months used , adjusted for comparison







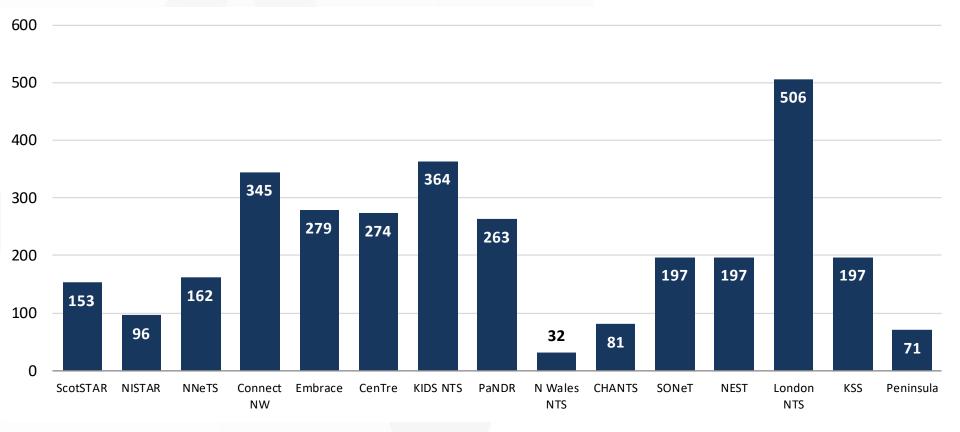
Ventilation via an ETT during transfer



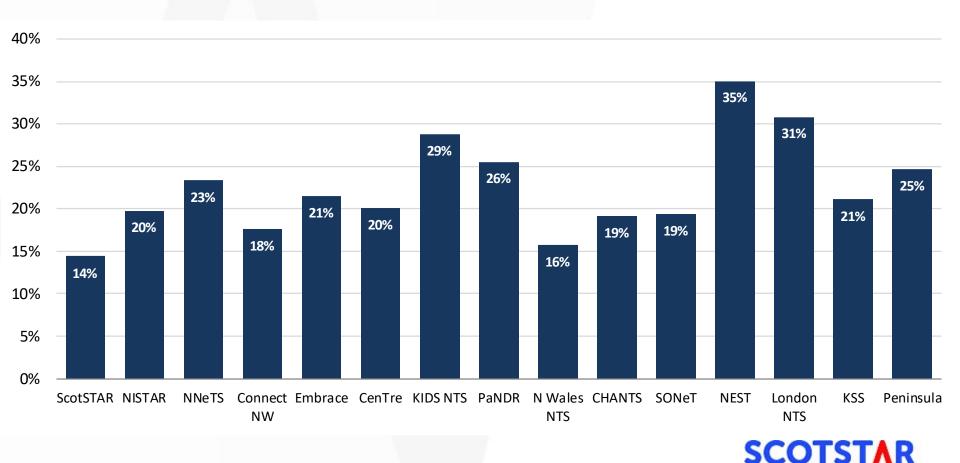




Numbers of infants ventilated via an endotracheal tube in transfer, by team Apr 2020 to Mar 2021



Infants ventilated via an endotracheal tube in transfer, as a percentage of total transfers, by team Apr 2021 to Mar 2021

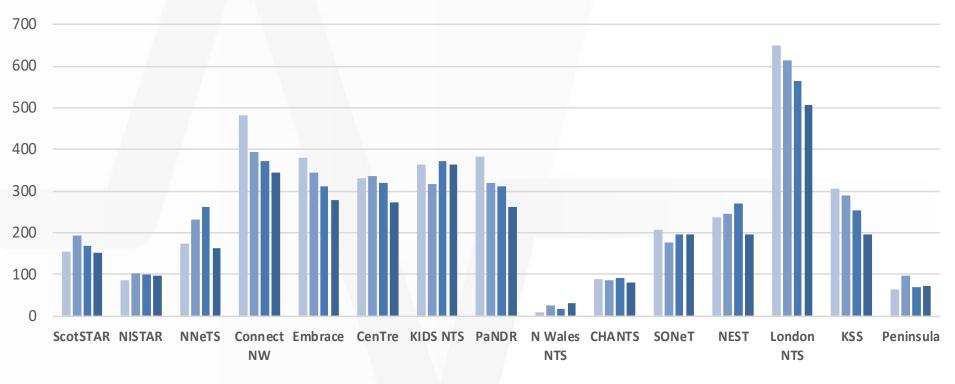




Scottish Ambulance Service

loking Care to the Patient

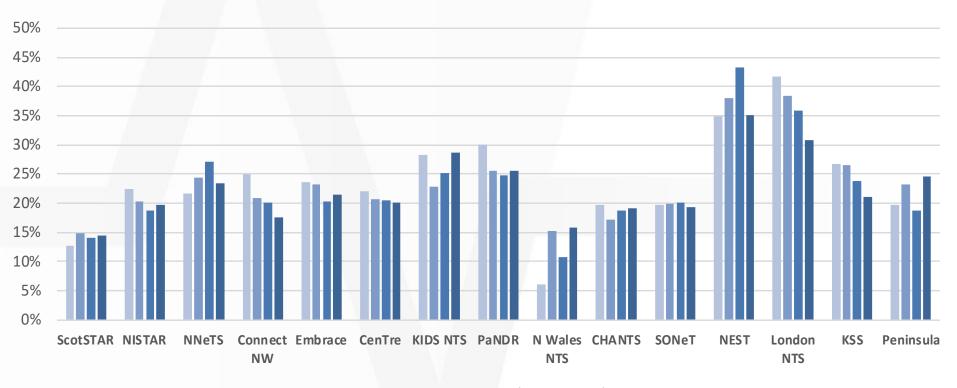




2018 2019 2019/20 2020/21

SCOTSTR Critical care, anywhere





■ 2018 ■ 2019 **■** 2019/20 **■** 2020/21





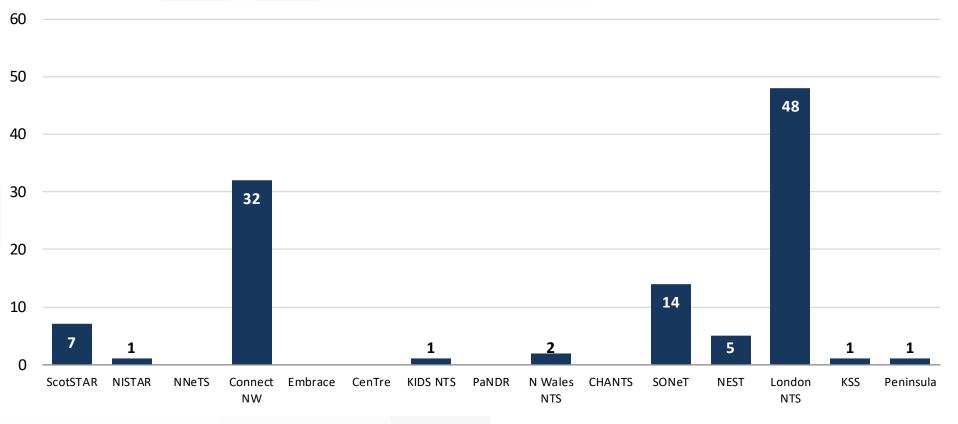
High Frequency Oscillation in Transfer







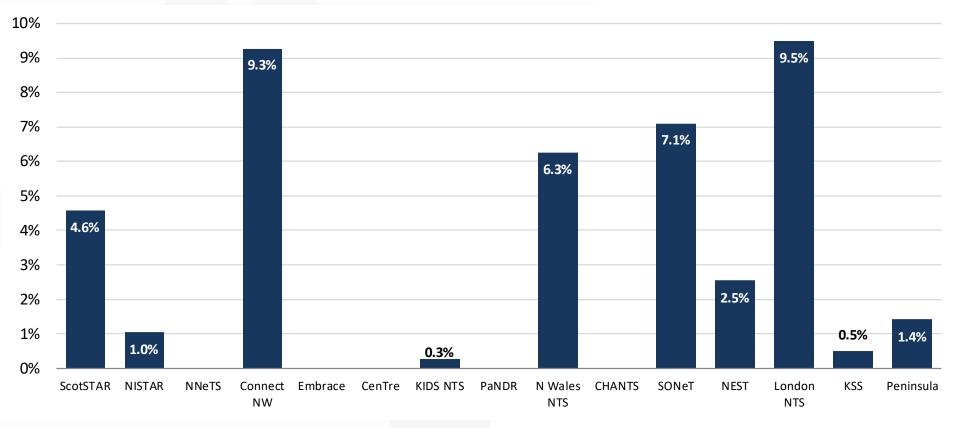
Number of transfers using High Frequency Oscillatory Ventilation (HFOV), by team Apr 2020 to Mar 2021



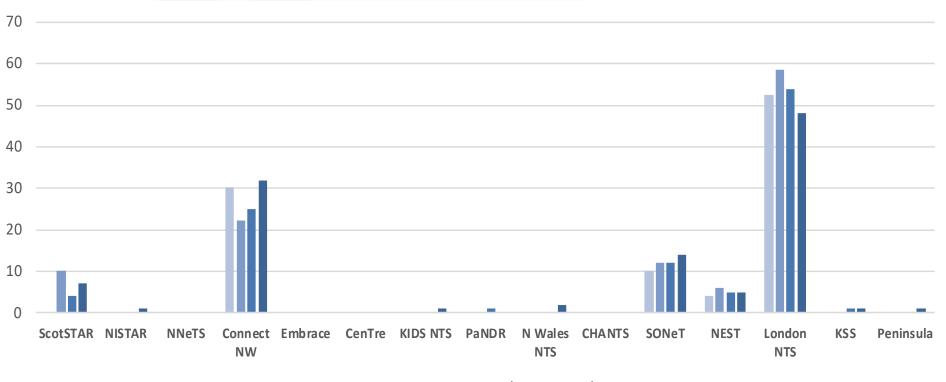




HFOV Transfers as a percentage of ventilated transfers, by team Apr 2020 to Mar 2021



Trends in numbers on HFOV by team, 2018 to 2020/211



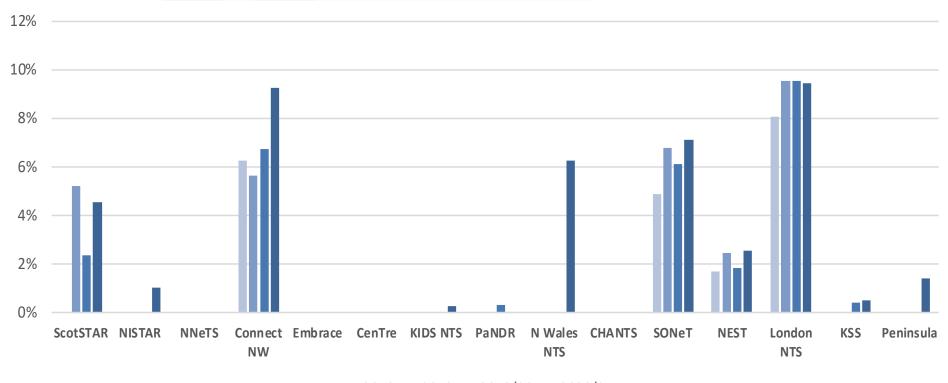
■ 2018 ■ 2019 ■ 2019/20 ■ 2020/21

SCOTST R

Scottish Ambulance Service

drives Core to the Rotland

Trends in HFOV transfers as a percentage of ventilated transfers by team 2018 to 2020/211



2018 2019 2019/20 2020/21

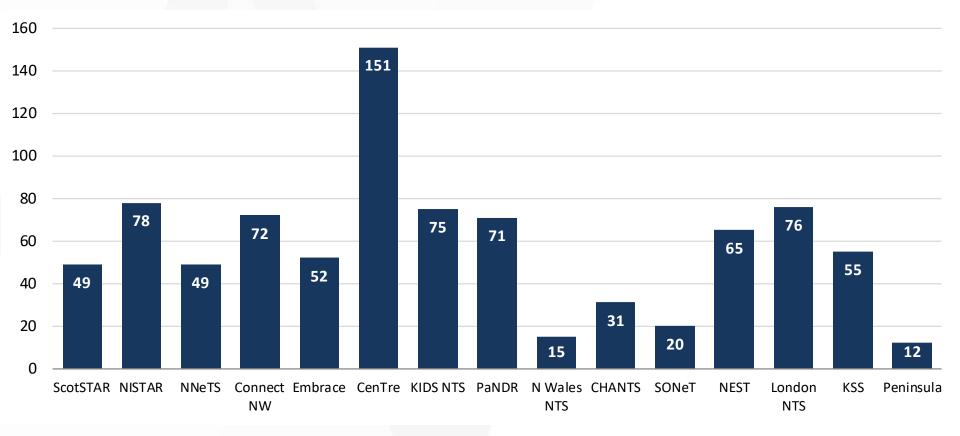




Nasal Continuous Positive Airway Pressure (CPAP) in transfer



Transfers utilising continuous positive airway pressure (CPAP) by team, Apr 2020 to Mar 2021

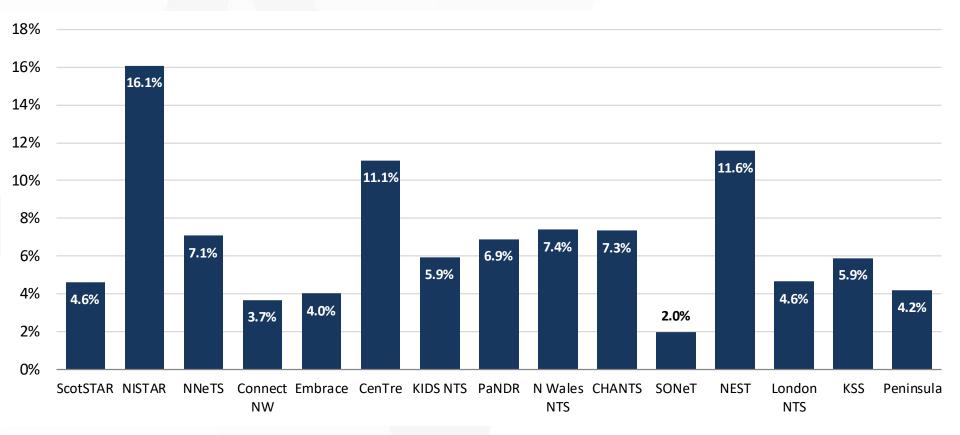


SCOTST R Critical care, anywhere





CPAP Transfers as a percentage (of total transfers, by team Apr 2020 to Mar 2021

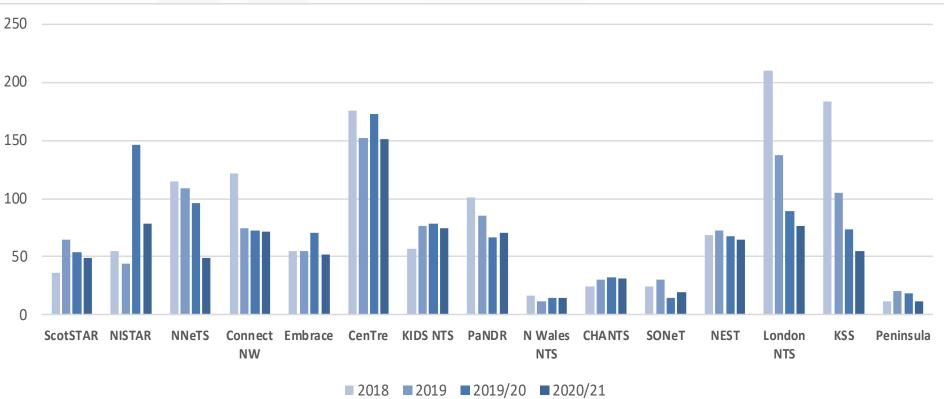


SCOTST R

Scottish Ambulance Service

drives Core to the Detion

Trends in CPAP transfers by team, 2018 to 2020/211



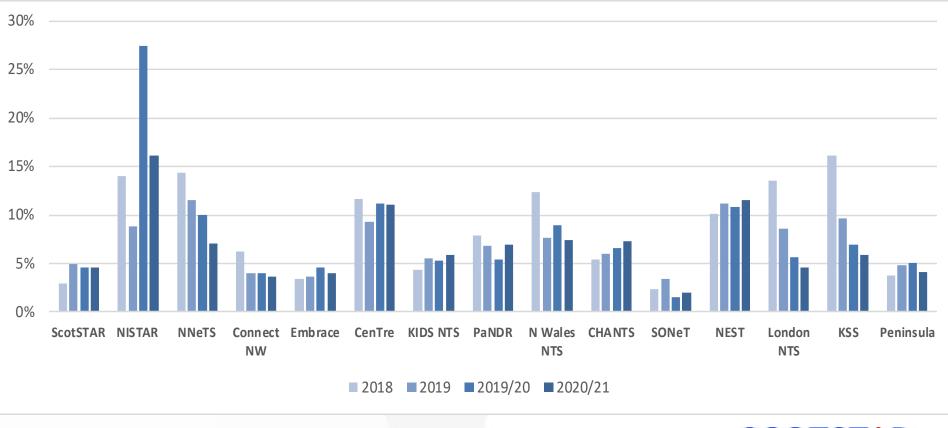


Scottish

Ambulance Service

loking Care to the Patient

Trends in CPAP transfers as a percentage of total transfers by team 2018 to 2020/211



Scottish Ambulance Service

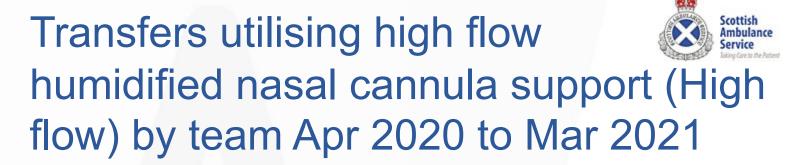
loking Care to the Patient

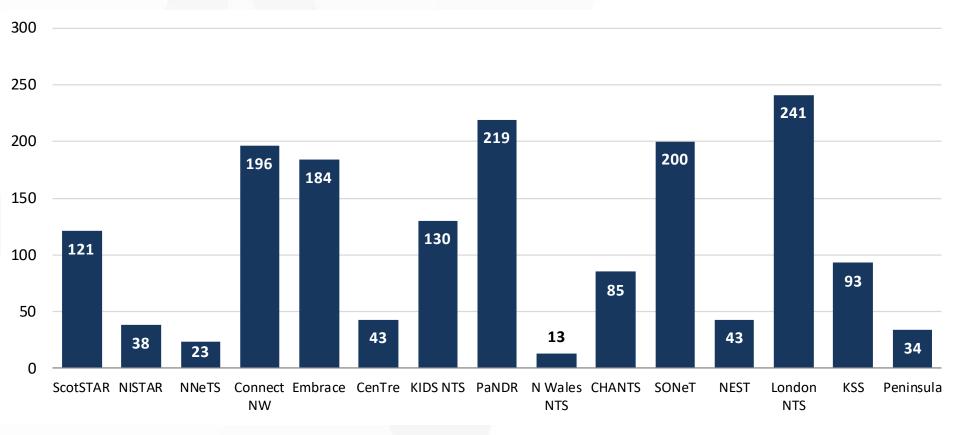




High Flow Humidified Nasal Cannula support

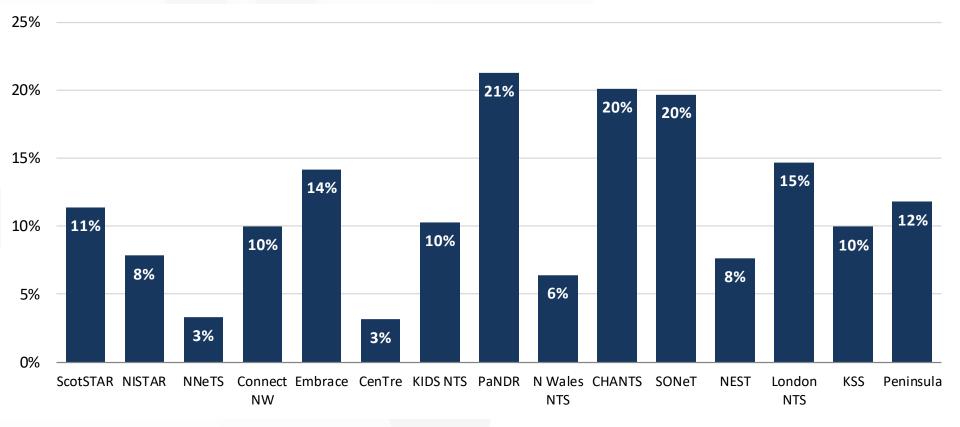






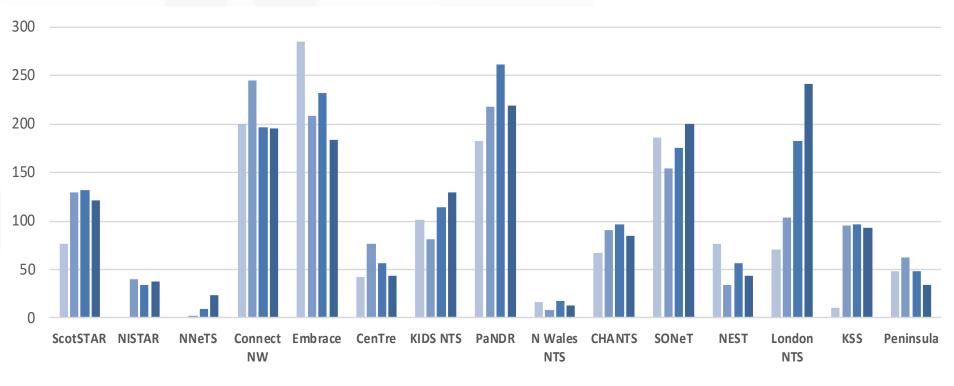
SCOTSTAR

High-flow Transfers as a percentage of total transfers, by team Apr 2020 to Mar 2021



SCOTST R Critical care, anywhere

Trends in numbers on High-flow by team, 2018 to 2020/211

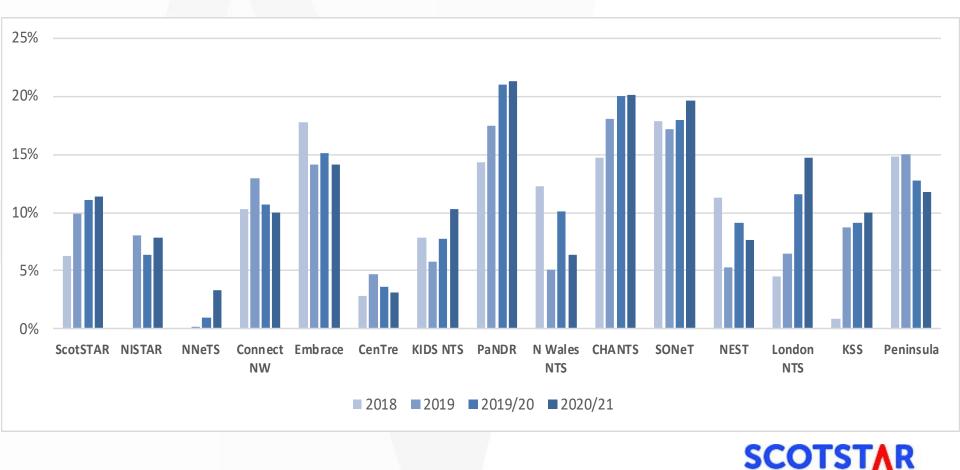


■ 2018 ■ 2019 ■ 2019/20 ■ 2020/21

Scottish Ambulance Service

sking Care to the Patient

Trends in High-flow transfers as a percentage of total transfers by team 2018 to 2020/211





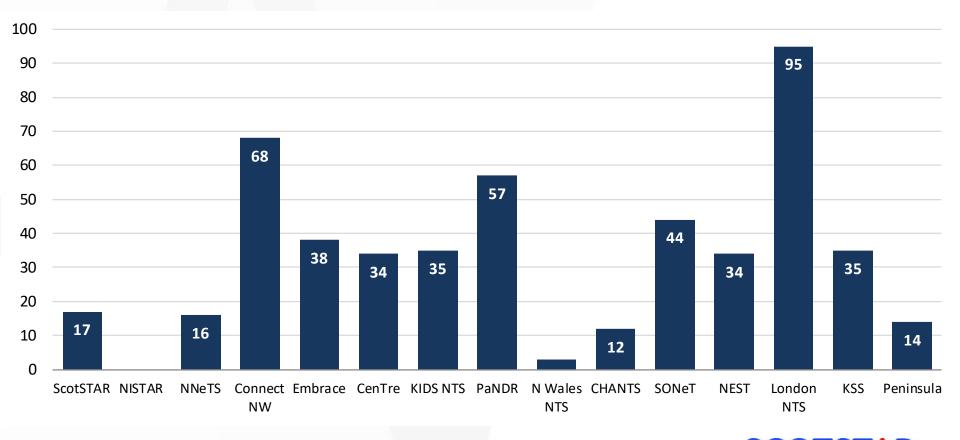
Scottish

Ambulance Service

sking Care to the Patient

Critical care, anywhere

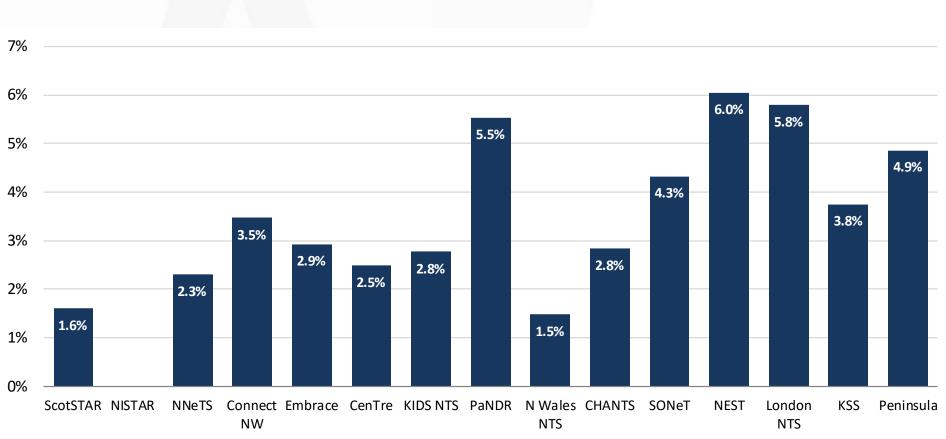
Transfers with therapeutic hypothermia in transit by team Apr 2020 to Mar 2021



SCOTST R

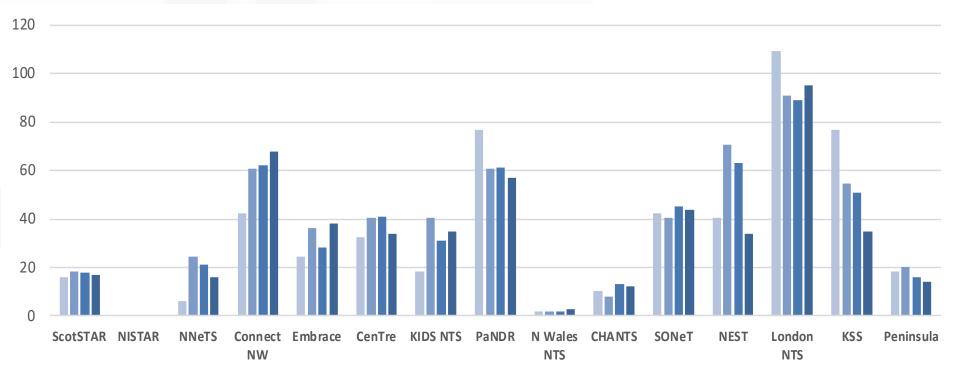
Scottish Ambulance Service

oking Care to the Patient





Trends in numbers of transfers (with therapeutic hypothermia in transit by team, 2018 to 2020/211



■ 2018 ■ 2019 ■ 2019/20 ■ 2020/21

SCOTSTR Critical care, anywhere

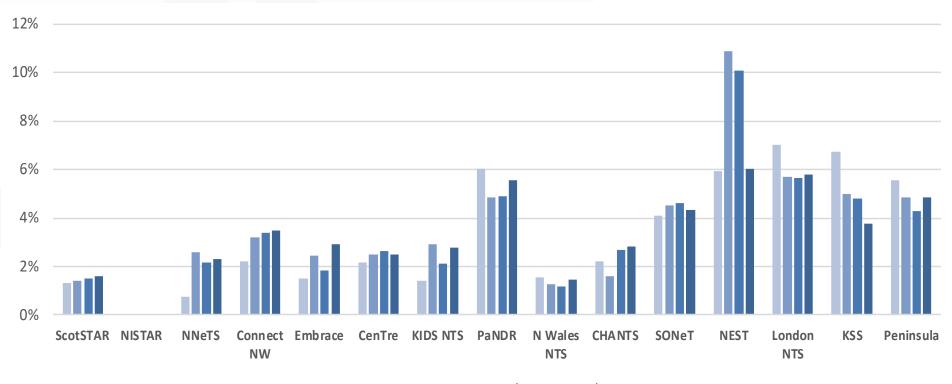
Scottish Ambulance Service

loking Care to the Patient





Trends in transfers with therapeutic hypothermia in transit as a percentage of total transfers by team 2018 to 2020/211



■ 2018 ■ 2019 ■ 2019/20 ■ 2020/21



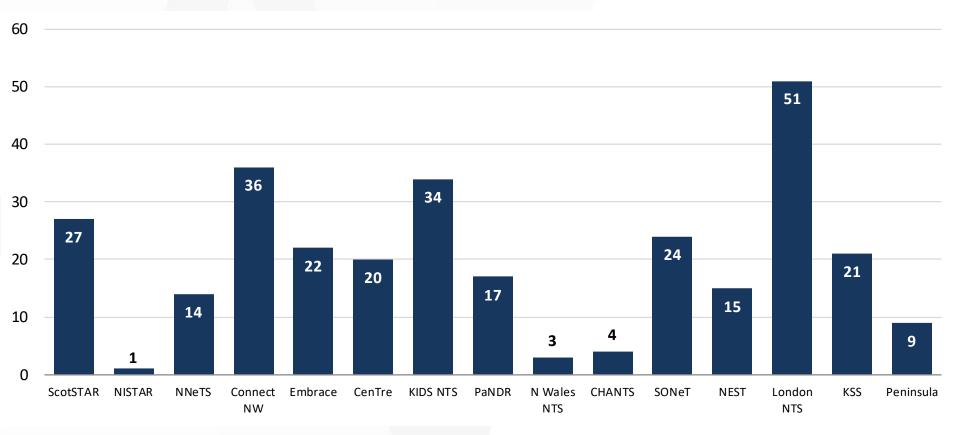




Use of inhaled nitric oxide (iNO) in transfer



Transfers utilising inhaled Nitric Oxide in transit by team, Apr 2020 to Mar 2021

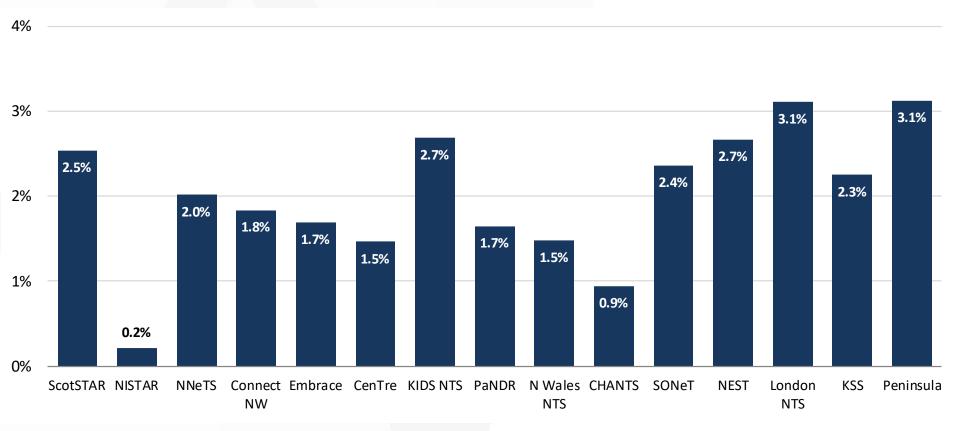


SCOTST R Critical care, anywhere

Scottish Ambulance Service

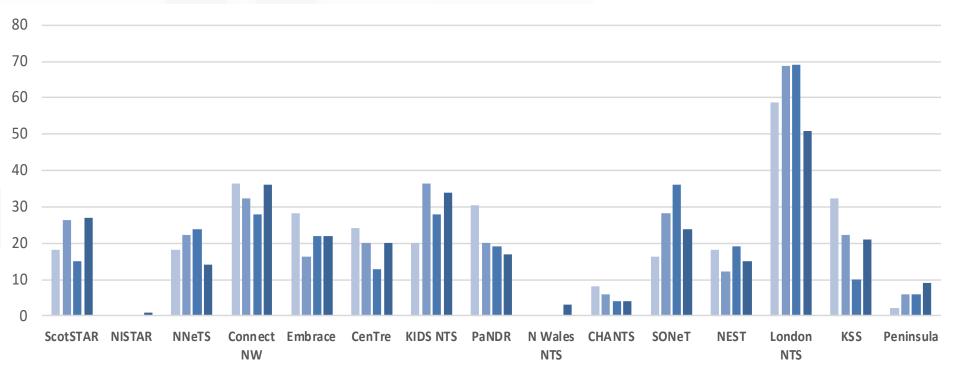
king Care to the Patient

Transfers utilising inhaled Nitric Oxide in transit as a percentage of ventilated transfers, by team Apr 2020 to Mar 2021



SCOTST R

Trends in numbers of transfers utilising inhaled Nitric Oxide in transit by team, 2018 to 2020/211



■ 2018 ■ 2019 ■ 2019/20 ■ 2020/21

Scottish Ambulance Service

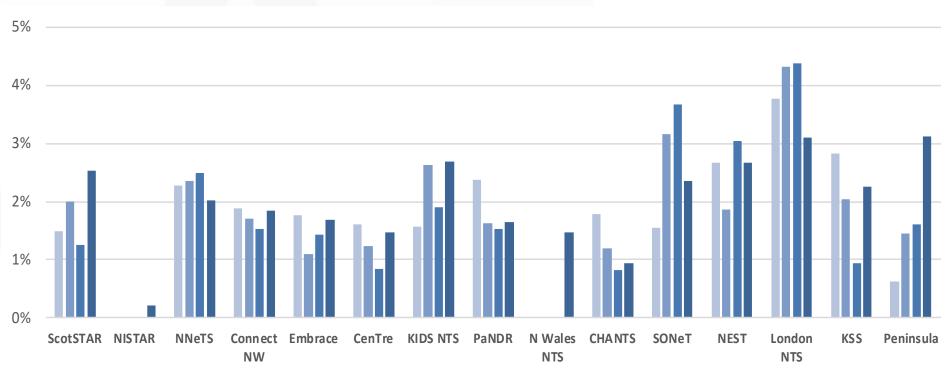
oking Care to the Patient







Nitric Oxide in transit as a percentage of ventilated transfers by team 2018 to 2020/21



■ 2018 ■ 2019 ■ 2019/20 ■ 2020/21







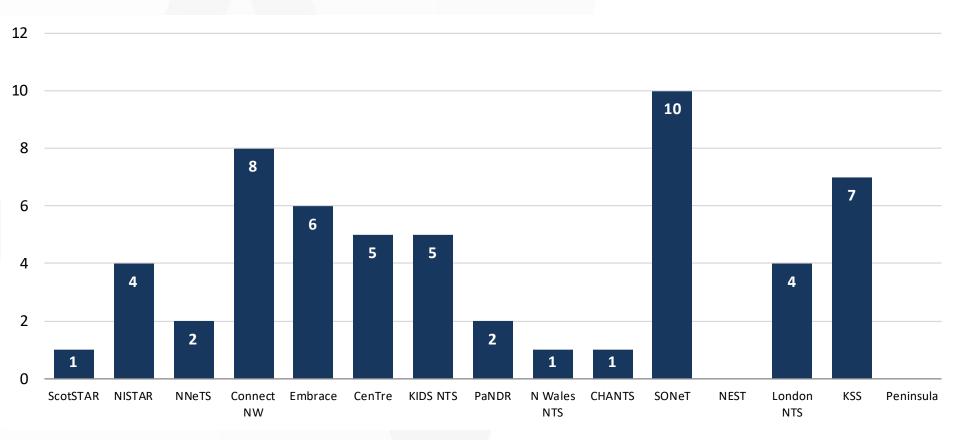
Transfers for palliative care



Numbers of Palliative Transfers by team Apr 2020 to Mar 2021

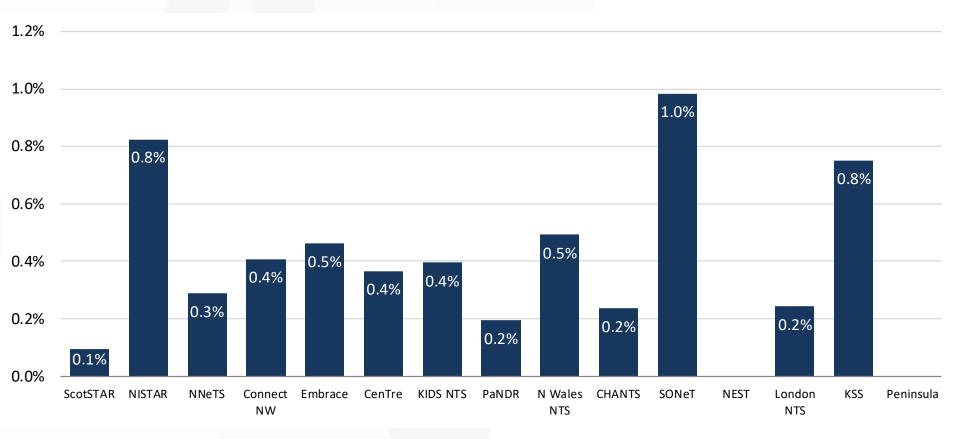






SCOTST R

Palliative Transfers as a percentage of total transfers, by team Apr 2020 to Mar 2021

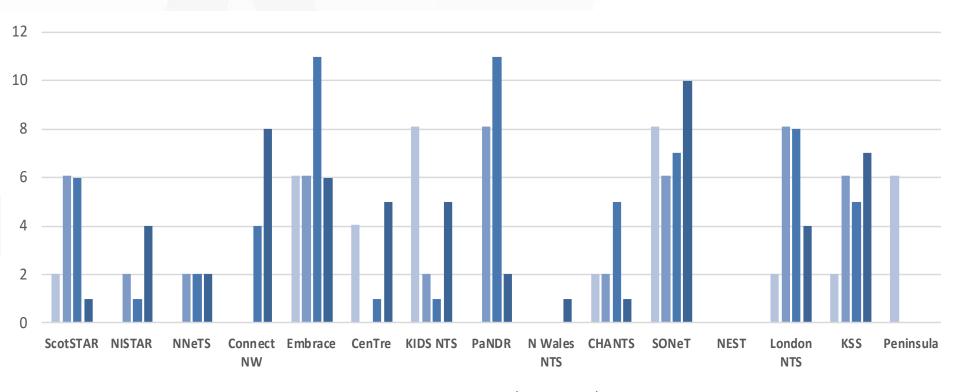


SCOTST R Critical care, anywhere

Scottish Ambulance Service

sking Care to the Patient

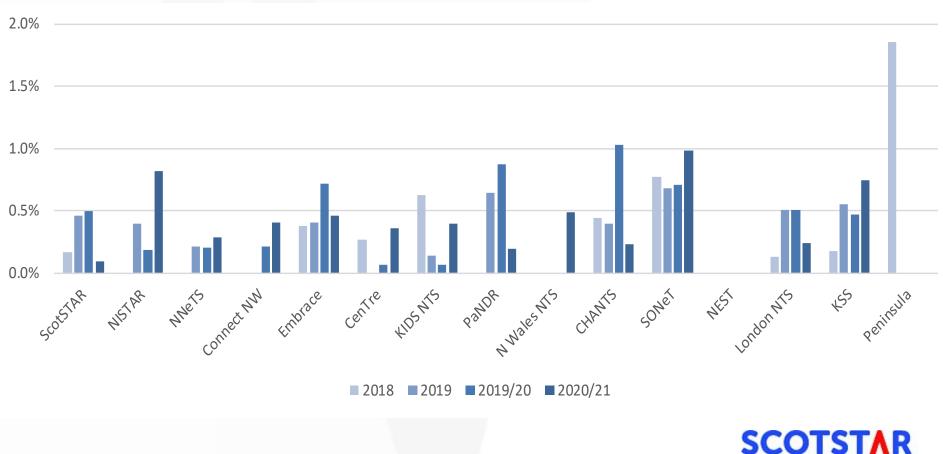
Trends in numbers of Palliative care transfers by team, 2018 to 2020/211



■ 2018 ■ 2019 ■ 2019/20 ■ 2020/21



Trends in Palliative care transfers as (a percentage of total transfers by team 2018 to 2020/211





Scottish Ambulance Service

drives Core to the Detion

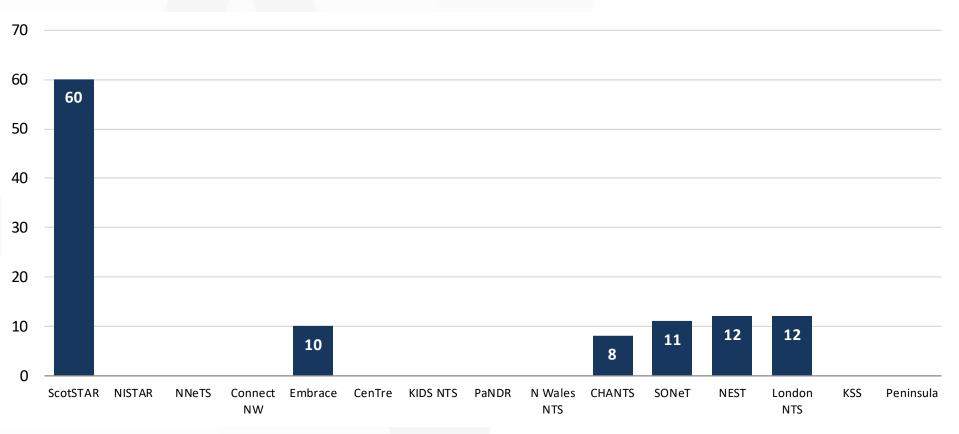




Transfers by air



Air Transfers by team Apr 2020 to Mar 2021

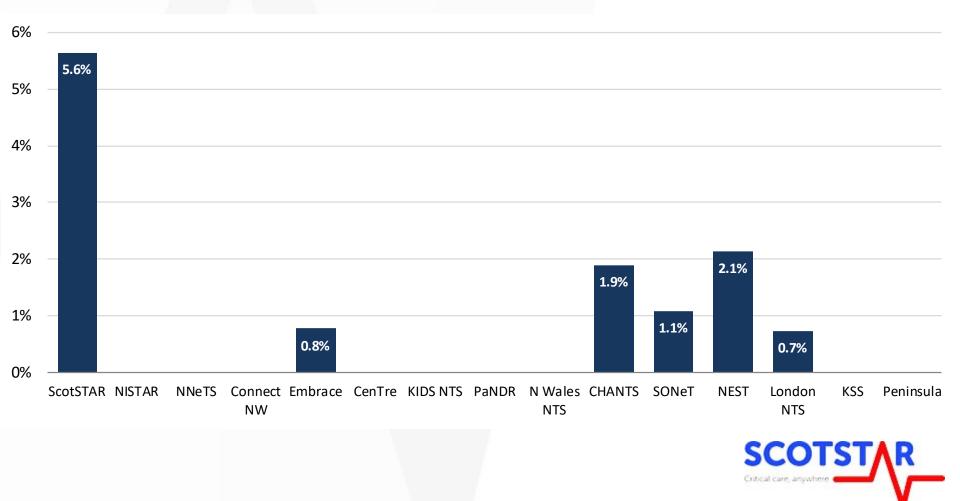




Scottish Ambulance Service

loking Care to the Patient

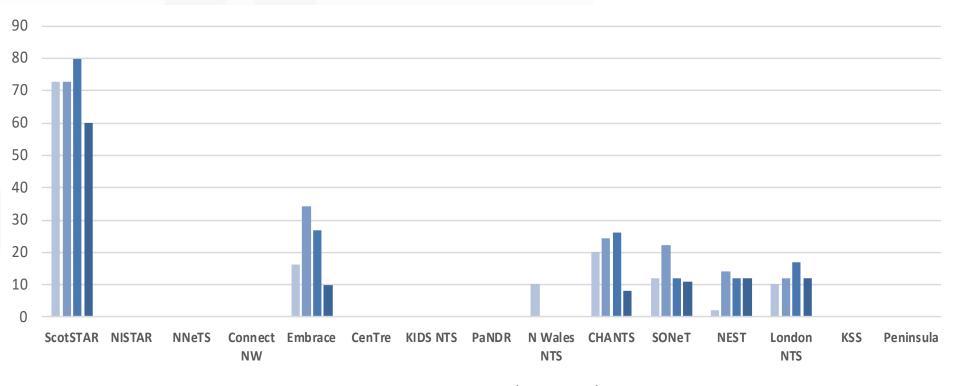
Air Transfers as a percentage of total transfers, by team Apr 2020 to Mar 2021



Scottish Ambulance Service

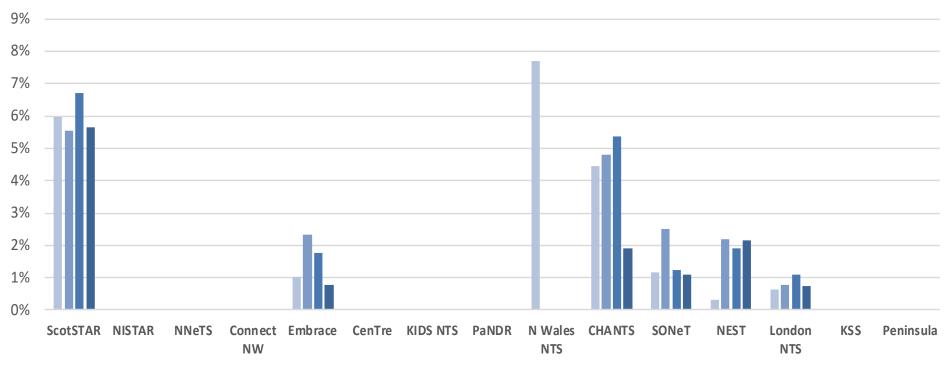
in Contacts the Bolian





■ 2018 ■ 2019 ■ 2019/20 ■ 2020/21

Trends in Air transfers as a percentage of total transfers by team 2018 to 2020/211



■ 2018 ■ 2019 ■ 2019/20 ■ 2020/21





Premature infant workload and indications for transfer



Premature Infant Workload and indications for transfer

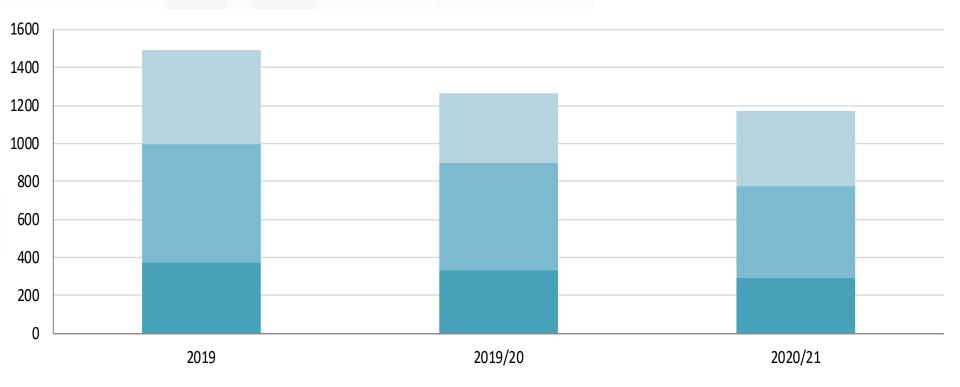


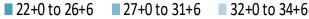


Data on

- Transfer on first 3 days of birth by gestation
 - 22⁺⁰ weeks to 26⁺⁶
 - 27⁺⁰ weeks to 31⁺⁶ weeks
 - 32⁺⁰ weeks to 36⁺⁶ weeks
- Operational reason for transfer
 - Uplift (transfer to receive a higher level of care than is available at the referring centre)
 - Capacity (transfer due to lack of capacity in the referring centre)
 - Repatriation (transfer back to the infant's base unit)





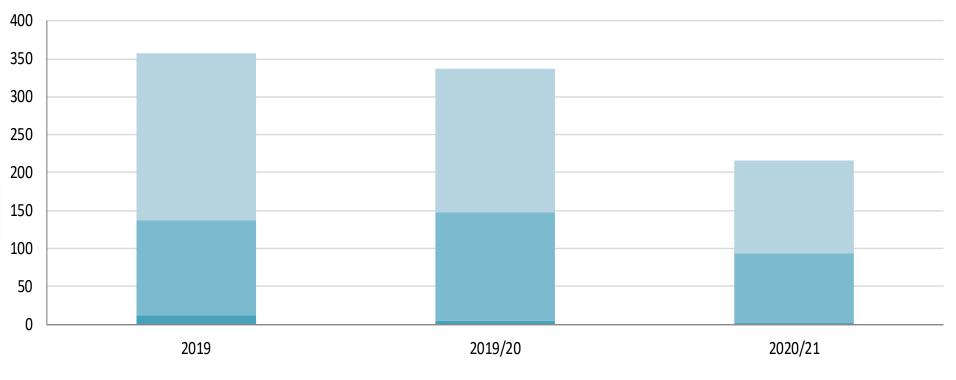


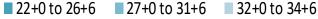




NHS

Operational reason for transfer for premature infants transferred on the first 3 days of life: Capacity 2019- 2020/21



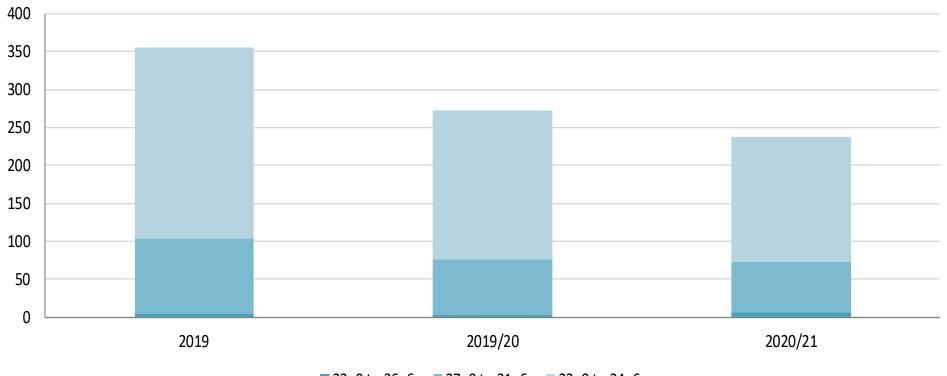






NHS

Operational reason for transfer for premature infants transferred on the first 3 days of life: Repatriation 2019- 2020/21



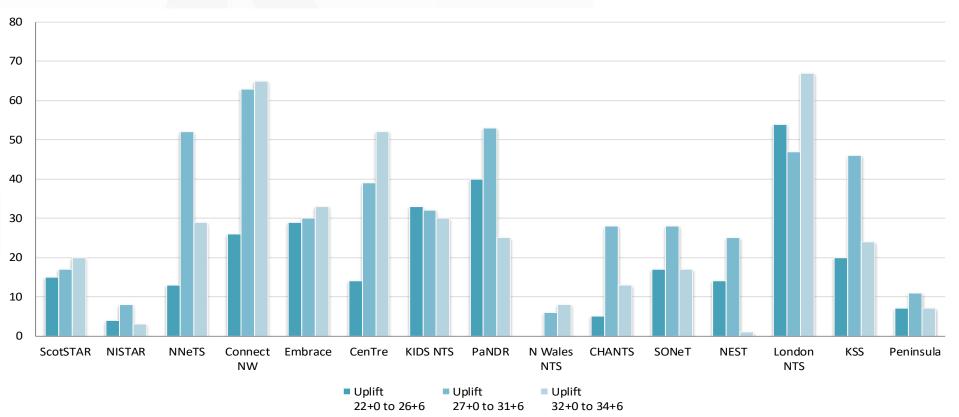
22+0 to 26+6 27+0 to 31+6 32+0 to 34+6





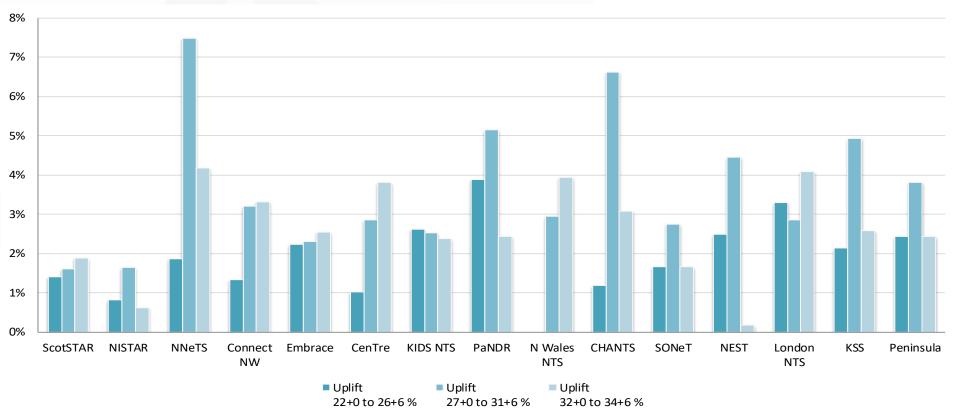


2020/21 Uplift transfers by team, & 1st 3 days of life, by gestation- 22-31⁺⁶ week infants



Critical care anywh

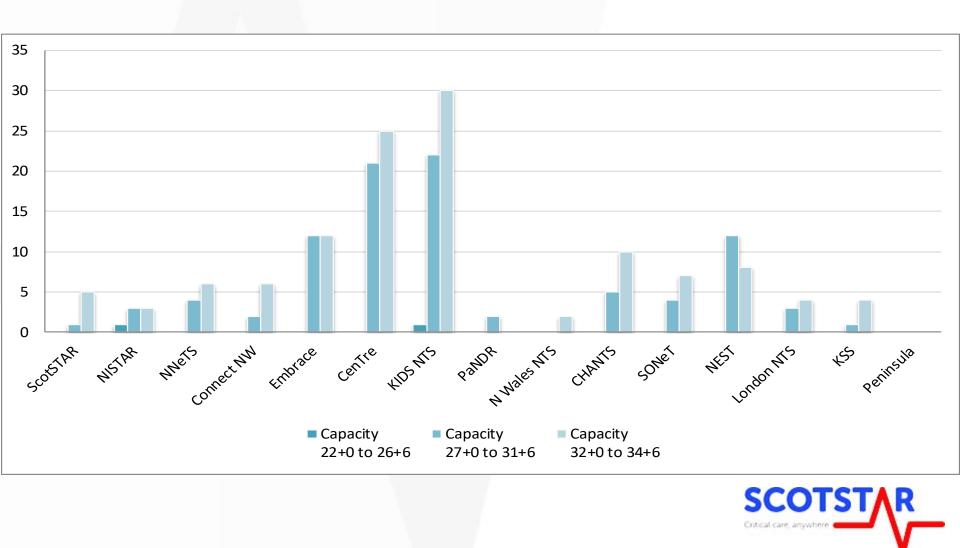




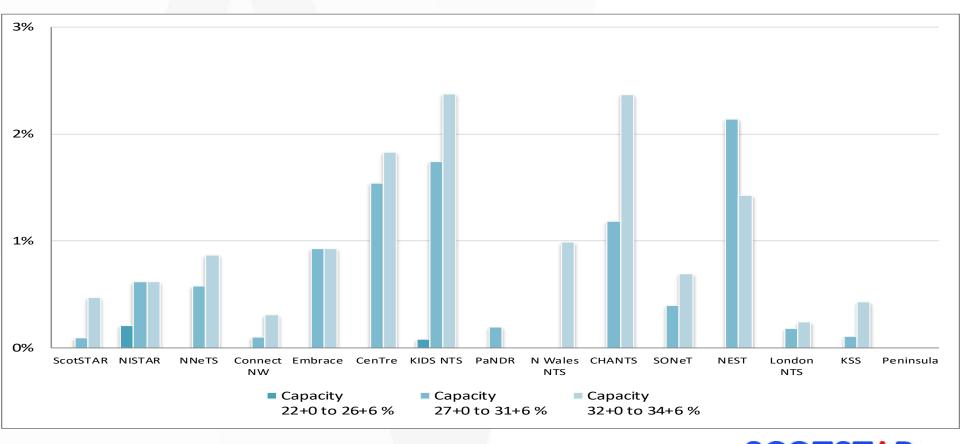
SCOTST R Critical care, anywhere



2020/21 Capacity transfers by team, 1st 3 days of life, by gestation- 22-31⁺⁶ week infants

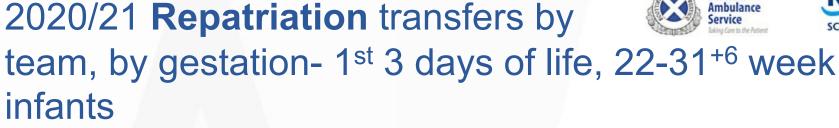


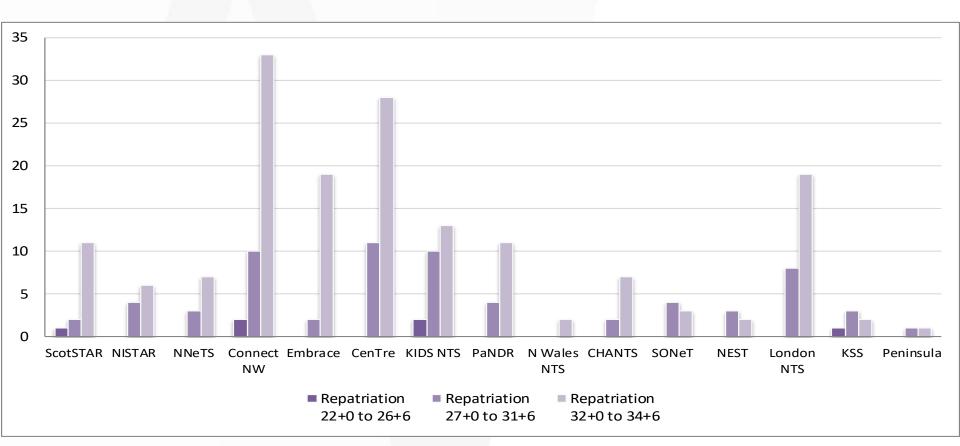




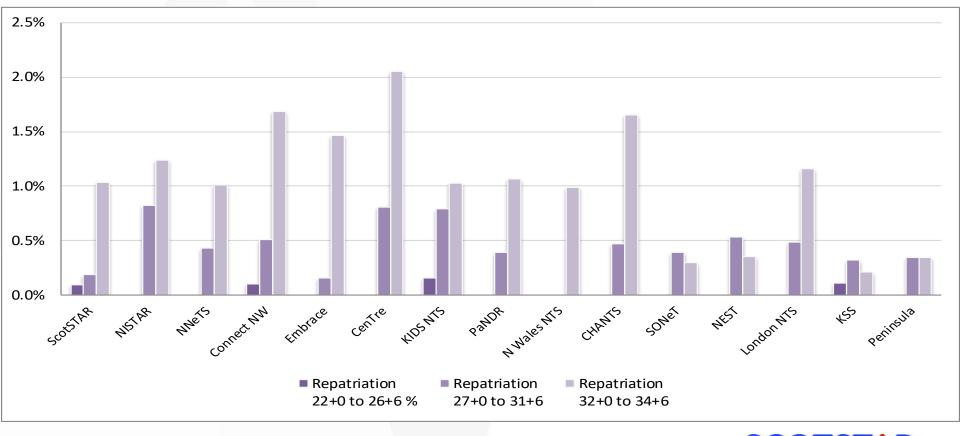
SCOTSTR Critical care, anywhere











SCOTST R





Temperature on first assessment and on completion of transfer

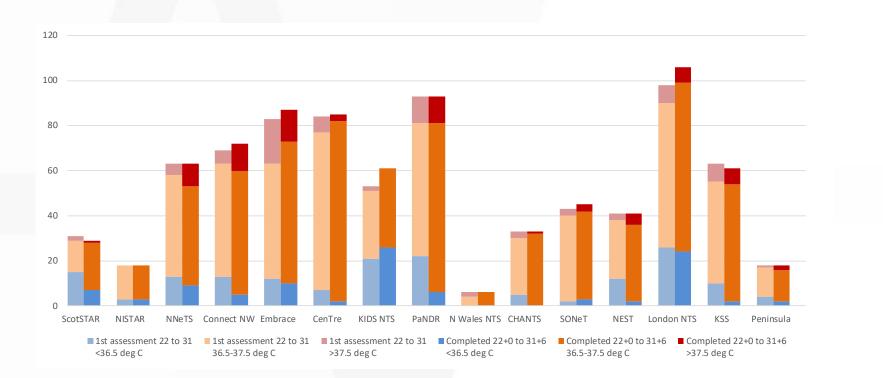


Premature Infants 22 to 32⁺⁶ weeks in

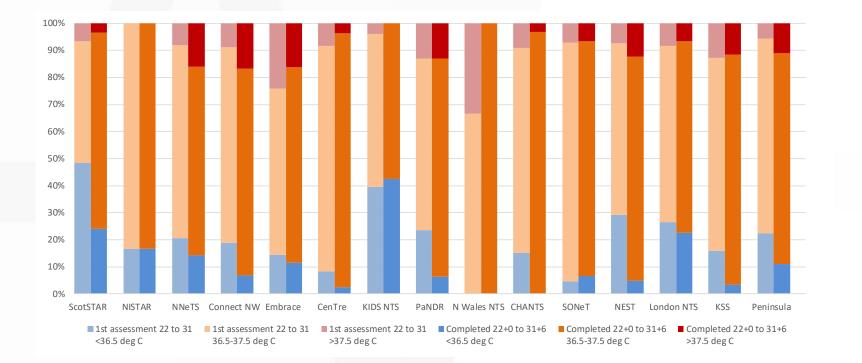




the first 3 days of life: temperatures on first assessment and on completion of transfer Apr 2020 to Mar 2021, by team



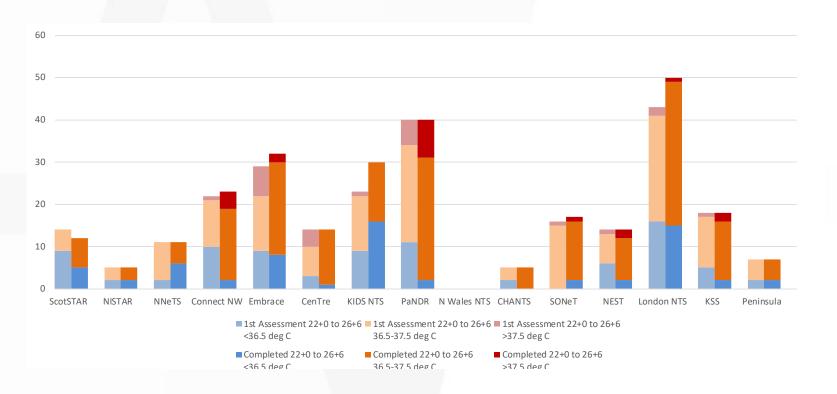
Premature Infants 22 to 32⁺⁶ weeks in the first three days of life- temperature on first assessment and on completion of transfer scaled to 100% Apr 2020 to Mar 2021







Premature Infants in the first three days of life, 22 to 26⁺⁶ weeks gestation. Temperature on first assessment and on completion of transfer. Apr 2020 to Mar 2021



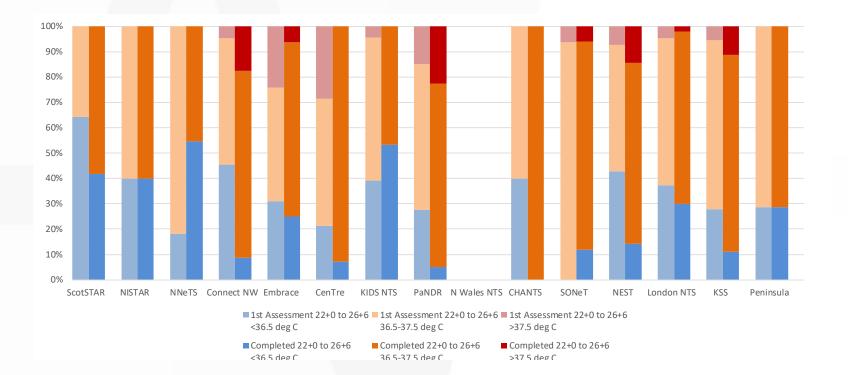


Premature Infants in the first three days of



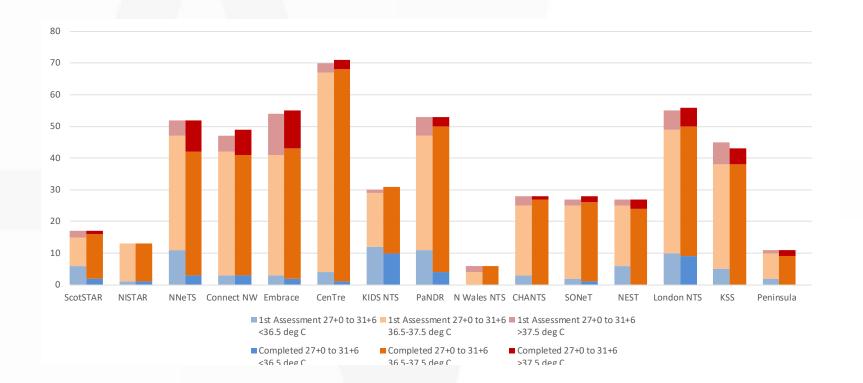


life, 22 to 26⁺⁶ weeks gestation. Temperature on first assessment and on completion of transfer scaled to 100% Apr 2020 to Mar 2021





Premature Infants in the first three days of life, 27 to 32⁺⁶ weeks gestation. Temperature on first assessment and on completion of transfer. Apr 2020 to Mar 2021



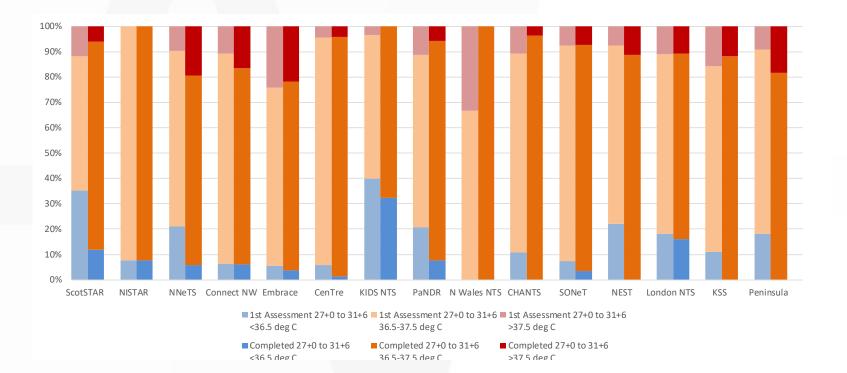


Premature Infants in the first three days of





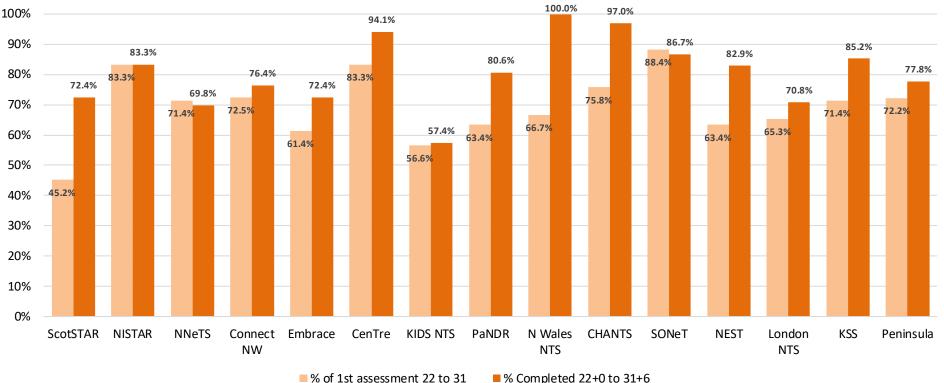
life, 27 to 32⁺⁶ weeks gestation. Temperature on first assessment and on completion of transfer scaled to 100% Apr 2020 to Mar 2021







1.3 Premature infants in the first three SCOTLAND days of life, 22 to 32⁺⁶ weeks. Proportions normothermic on first assessment and completion of transfer. Apr 2020 to Mar 2021



36.5-37.5 deg C

36.5-37.5 deg C

SCOTS Critical care anywh





Parents travelling with their baby







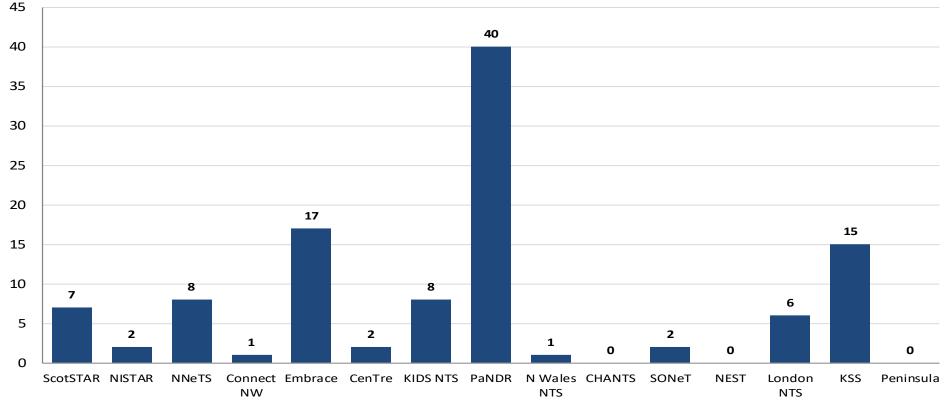


Data on

Parents travelling with the baby simplified from last year



Numbers of parents travelling with their baby by team, Apr 2020 to Mar 2021



All teams significantly restricted parental presence in transfer due to COVID-19 pandemic requirements for social distancing

SCOTLAND

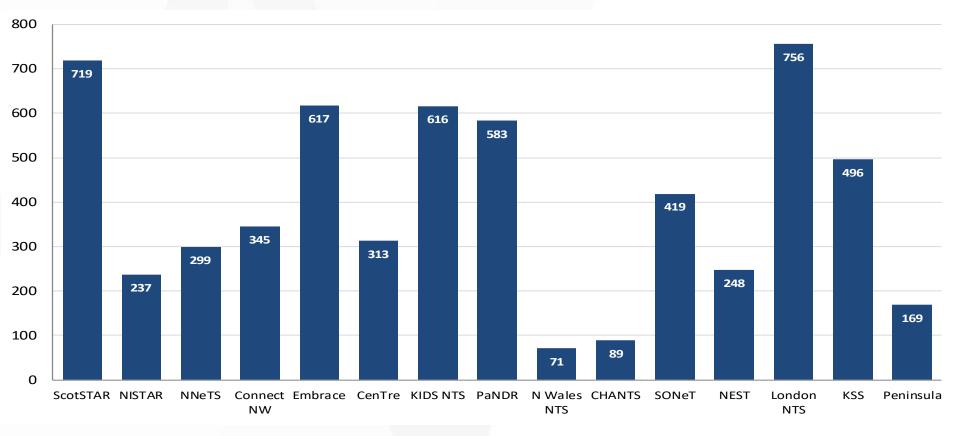
Scottish Ambulance Service

Taking Care to the Patient





Numbers of parents travelling with their baby by team Apr 2019 to Mar 2020



2019-20 data included for context

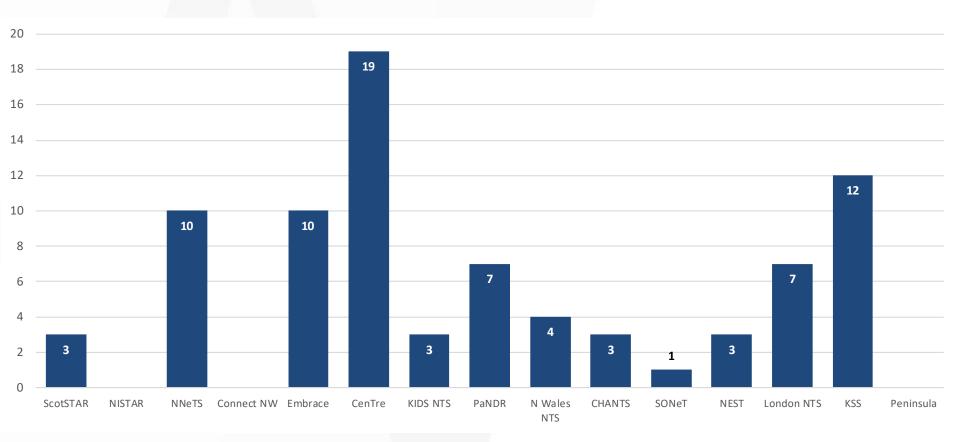




COVID-19 workload

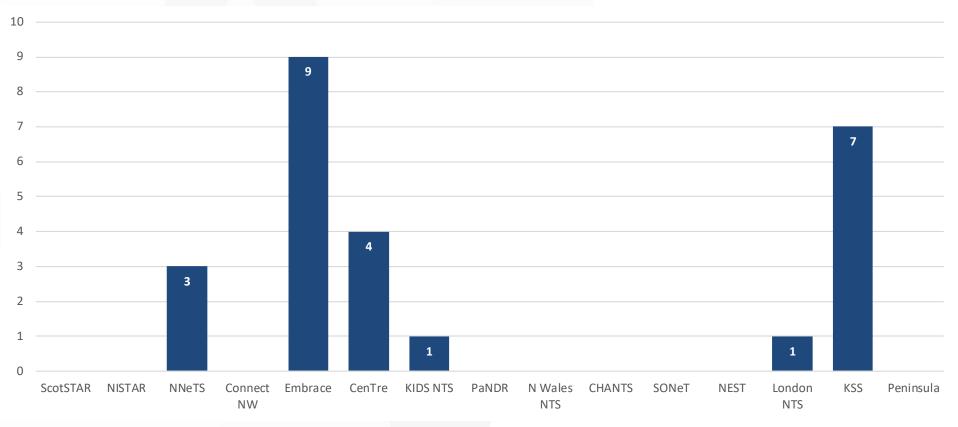


Number of transfers of babies born to Service Service





Number of transfers of babies suspected of having COVID-19 by team 2020/21





Scottish

Ambulance Service

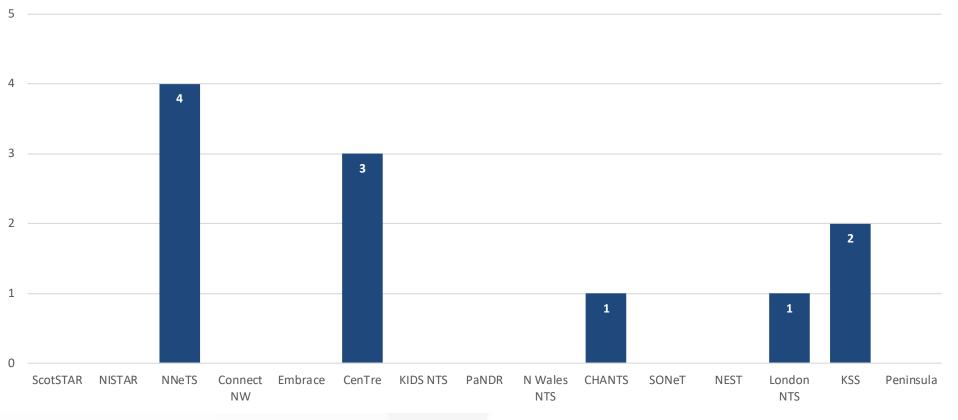
loking Care to the Patient

SCOTLAND

Number of transfers of babies confirmed as having COVID-19, by team 2020/21







SCOTST R Critical care, anywhere





Other workload



Other workload

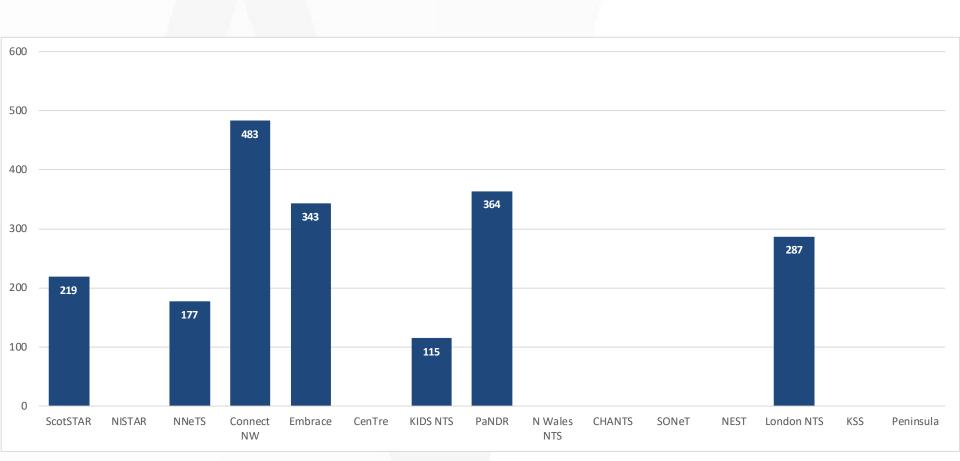




- In Utero transfer coordination workload
- Advice call workload
- Bilious Vomiting workload
- Prolonged transfer workload



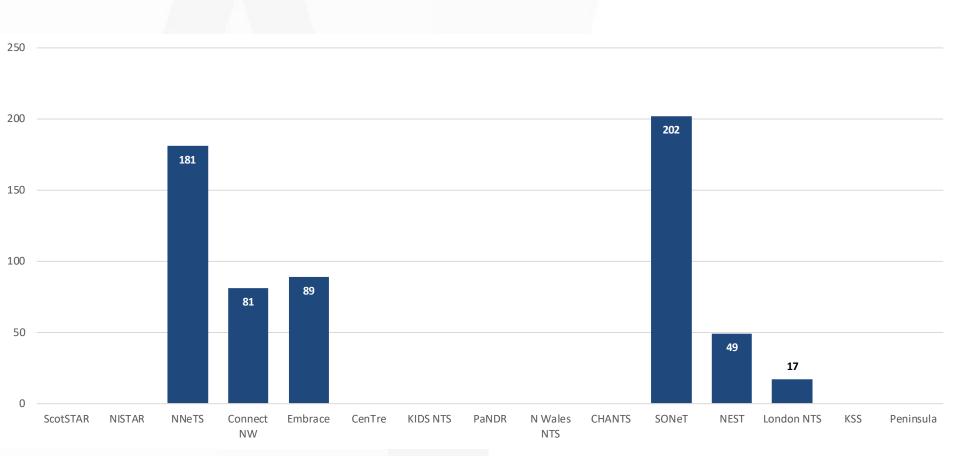




Only those commissioned to provide this service provided data



Numbers of Advice Calls recorded by teams 2020/21



Only those commissioned to provide this service provided data



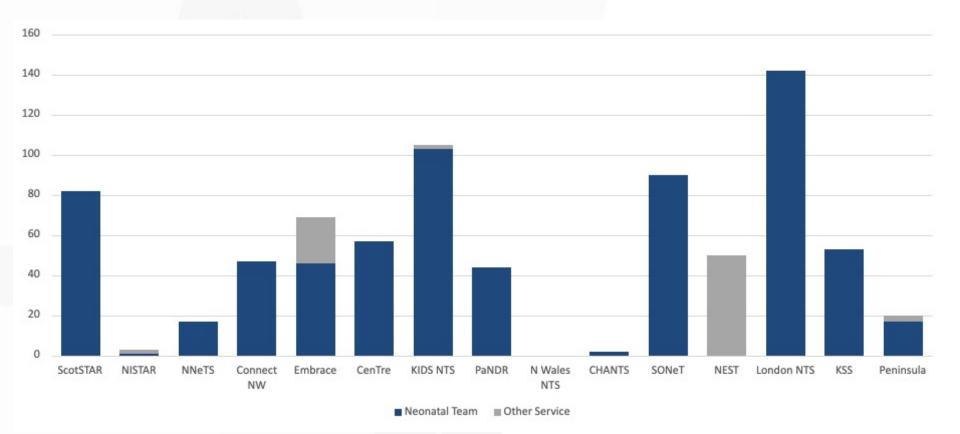
Scottish

Ambulance Service

ing Care to the Patient

SCOTLAND

Number of transfers of babies with Bilious Vomiting by team, 2020/21

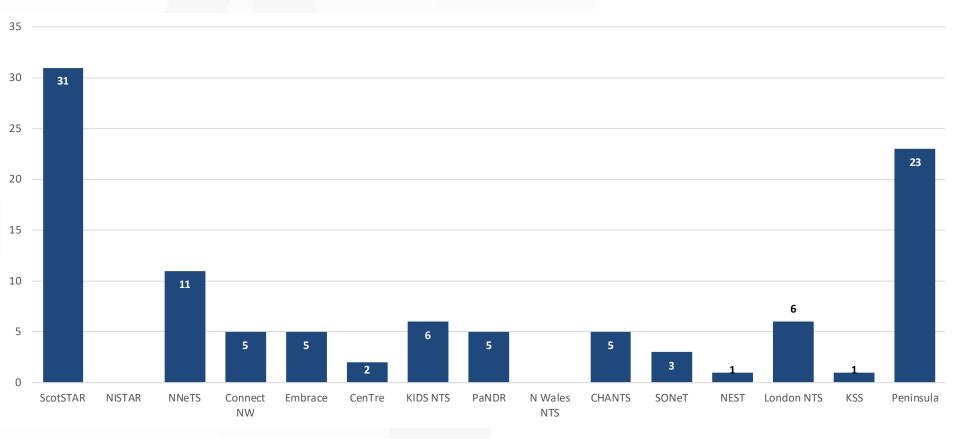


781 transfers in total, representing 5% of total neonatal transport workload





Prolonged Transfers- baby in transit for 3 hours or more, by team 2020/21





Scottish

Ambulance Service

loking Care to the Patient

NHS

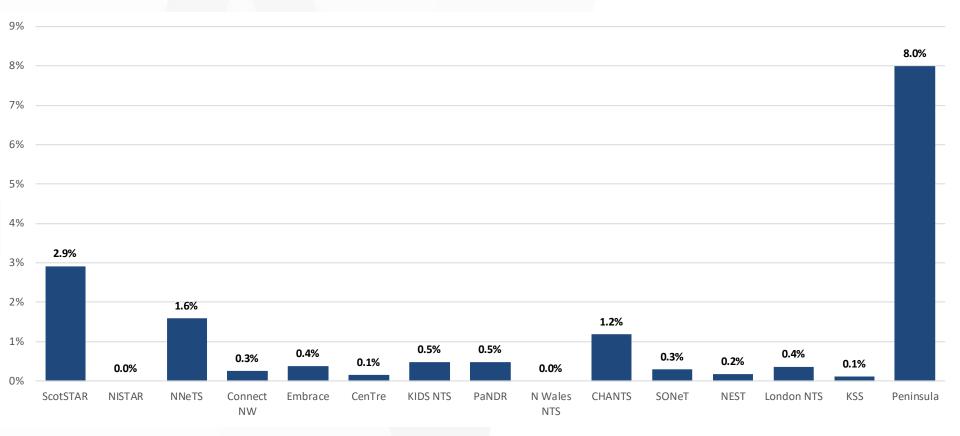
SCOTLAND





Prolonged Transfers (baby in transit for 🐼

3 hours or more) as a percentage of total transfers, by team 2020/21







Response standards



Response Standards





Data on

- Immediate response
 - where the team deploys within 60 minutes of receiving a referral for selected transfers:
 - 1. Gastroschisis
 - 2. Ventilated infant with Tracheo-oesophageal fistula +/atresia
 - 3. Intestinal perforation
 - 4. Suspected duct-dependent cardiac lesion not responding to prostin
 - 5. Unstable respiratory or cardiovascular failure not responding to appropriate management:

Response standards continued





- Referral response time for ICU uplift transfers from level 1 and 2 units in the first 3 days of life- standard 3.5 hours
 - The time taken from referral to arrival at the cotside in the referring centre
- The proportion of Uplift transfers performed in the transport service's designated region



Immediate dispatch

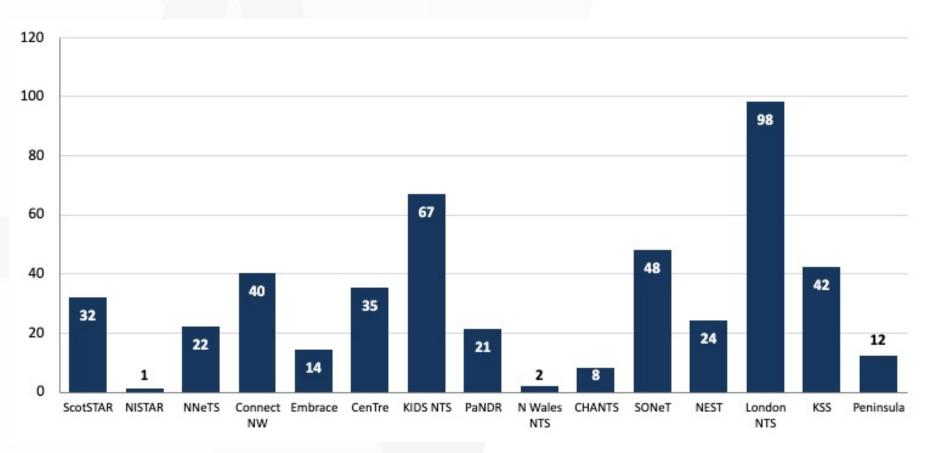




- Benchmark :
 - Immediate dispatch (previously known as Timecritical) transfers are where the team should depart from base within one hour from the start of the referring call, for the following situations/diagnoses:
 - 1. Gastroschisis
 - 2. Ventilated infant with Tracheo-oesophageal fistula +/atresia
 - 3. Intestinal perforation
 - 4. Suspected duct-dependent cardiac lesion not responding to prostin
 - 5. Unstable respiratory or cardiovascular failure not responding to appropriate management:



Immediate dispatch transfers/team Apr 2020 to Mar 2021

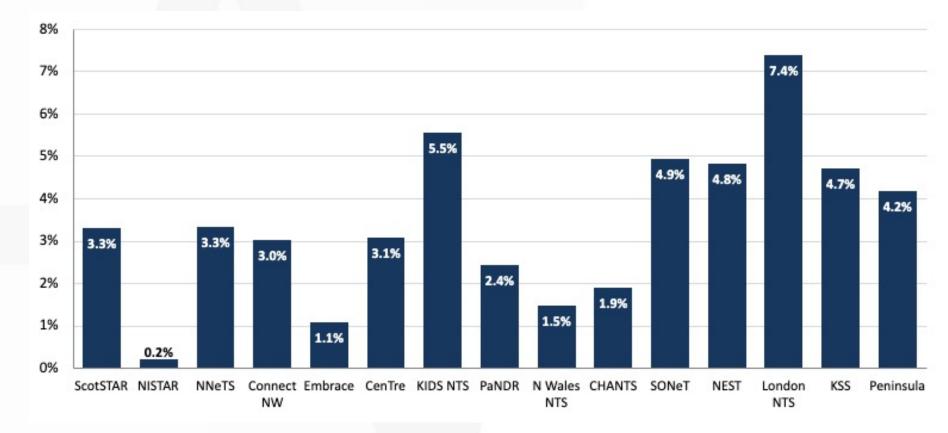


N.b. this is benchmarking data on response for a defined group of transfers, this does not represent overall "emergency workload"





Immediate dispatch transfers by team as a percentage of total transfers 2019-20



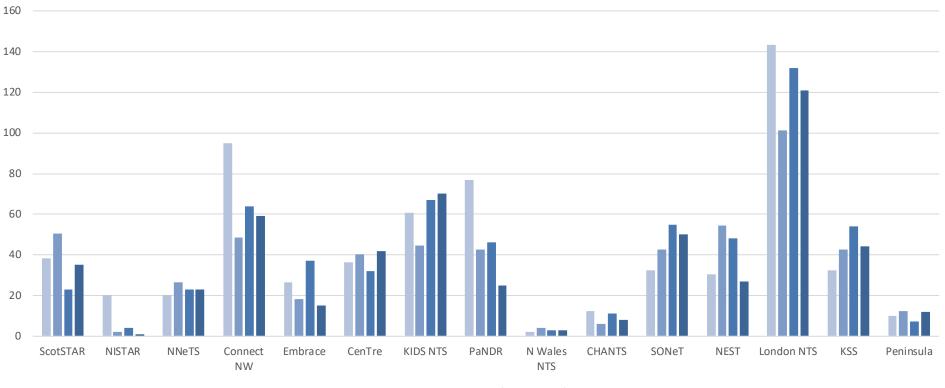






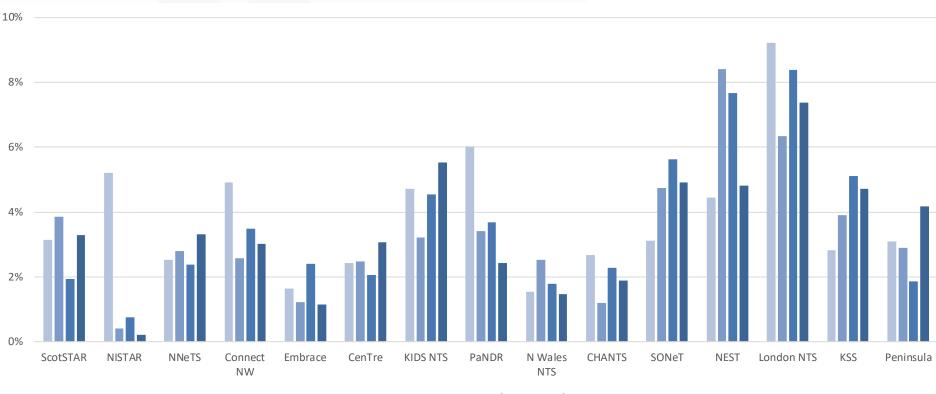






2018 2019 2019/20 2020/21

Immediate dispatch transfers as a percentage of total transfers, by team, 2018 to 2020/21



■ 2018 ■ 2019 ■ 2019/20 ■ 2020/21

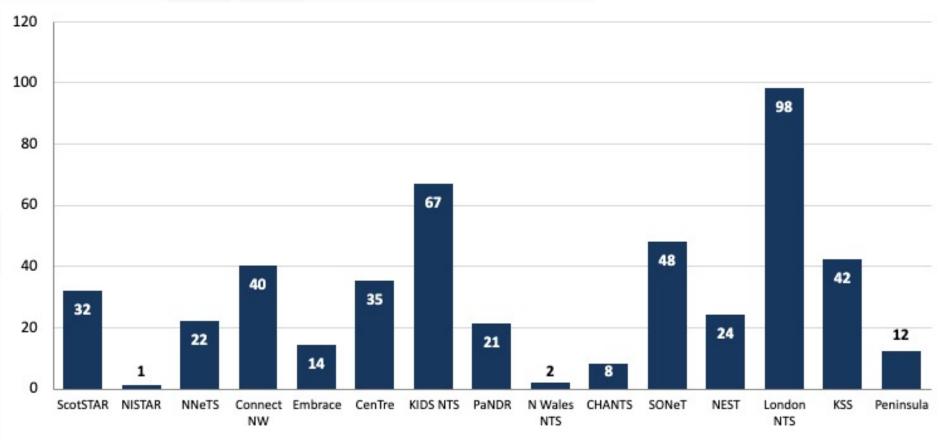
Critical care, anywher



Scottish

Service

Immediate dispatch transfers dispatched within 60 minutes/team Apr 2020 to Mar 2021



SCOTST R Critical care, anywhere

Scottish

Ambulance Service

loking Care to the Patient

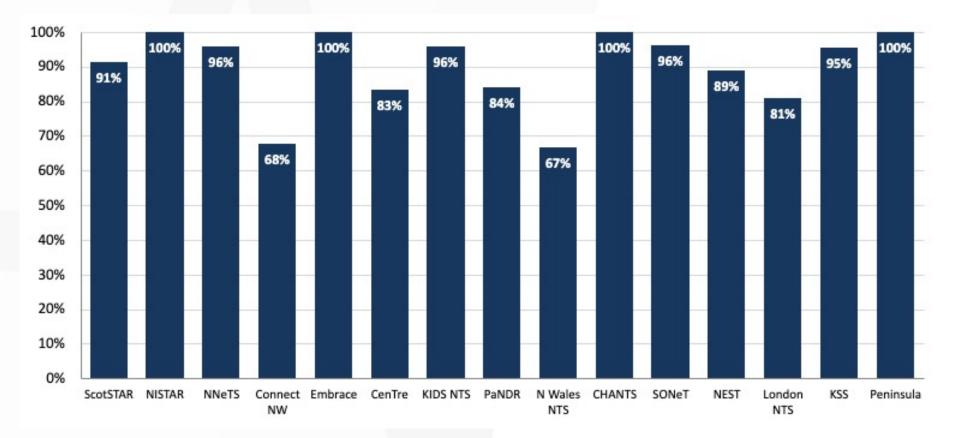
NHS

SCOTLAND





Immediate dispatch transfers dispatched within 60 minutes, as a percentage of total immediate dispatch transfers, by team. Apr 2020 to Mar 2021

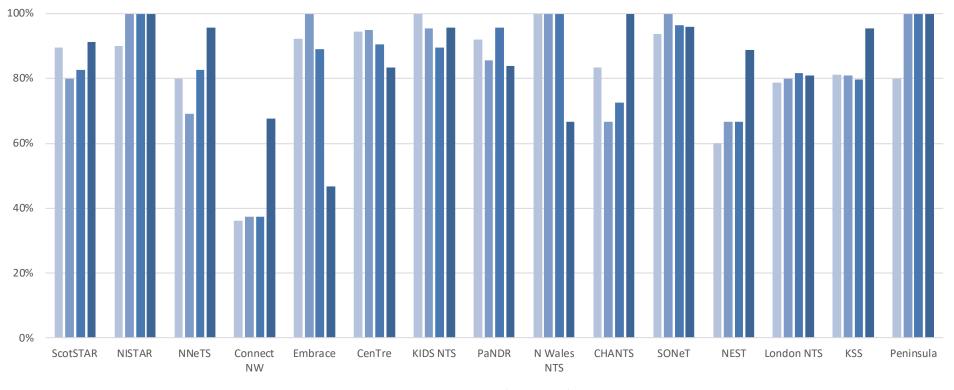


Critical care anywh





Trends in percentage of Immediate dispatch transfers dispatched within 60 minutes by team, 2018 to 2020/21



2018 2019 2019/20 2020/21



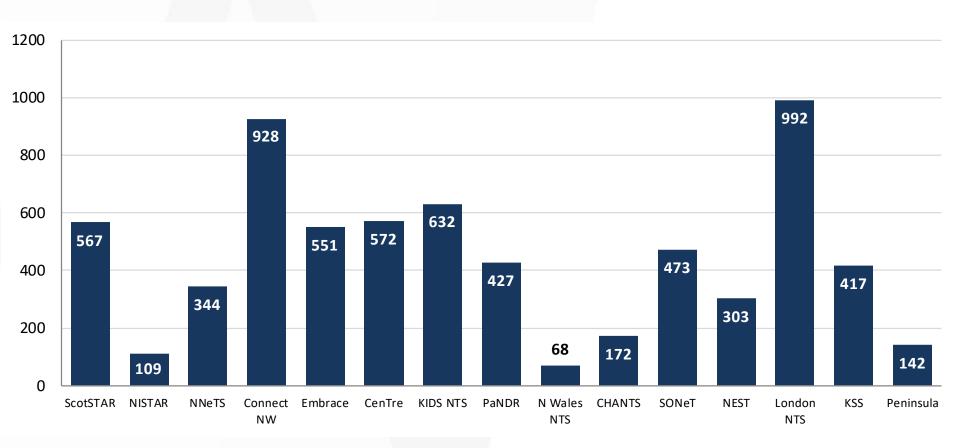


Uplift transfers within a dedicated transport service's own area

- Benchmark 2:
 - Dedicated Neonatal Transport Services transfer at least 95% of patients requiring transfer for uplift within its defined catchment area.



Numbers of Uplift transfers in dedicated area 2020/21



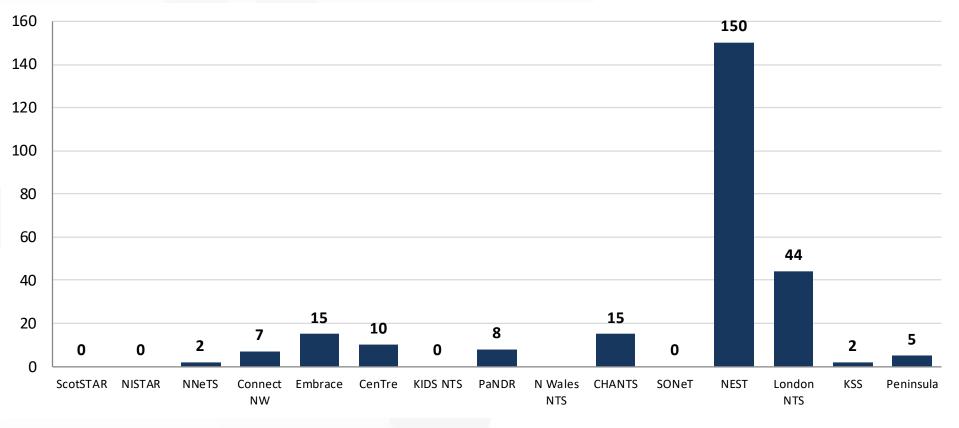




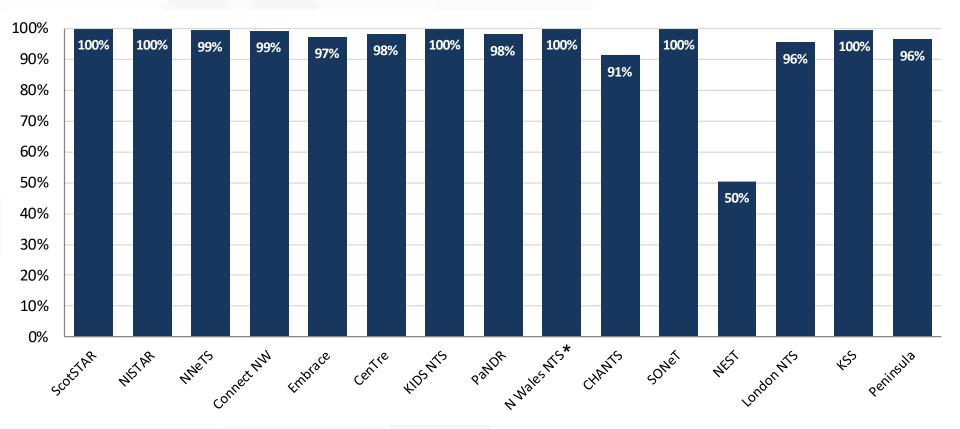




Numbers of Uplift transfers conducted by other teams in dedicated area

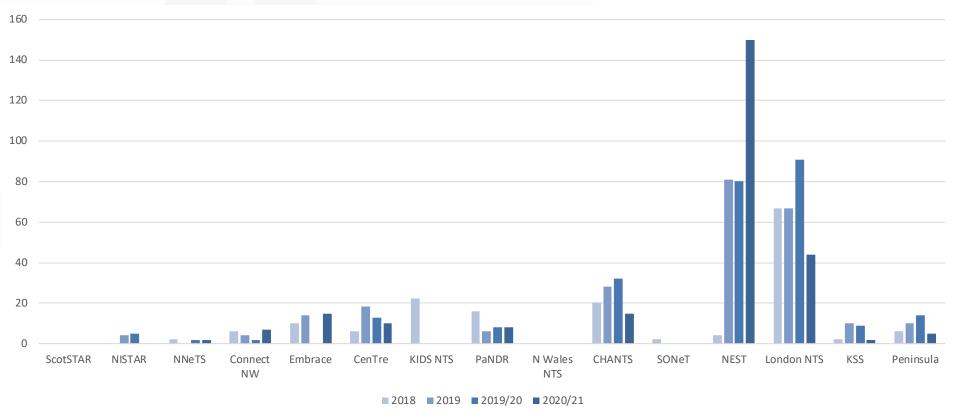






* As a proportion of uplift transfers during operational hours SCOTST R





Scottish Ambulance Service Jung Care to the Facters

Critical care, anywhere

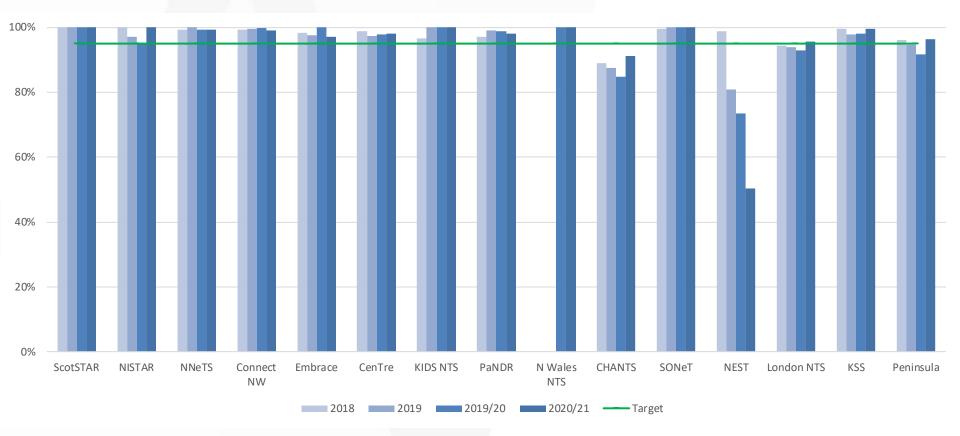








team in their own area, as a percentage of uplift transfers 2018 to 2020/21





Uplift referral response times

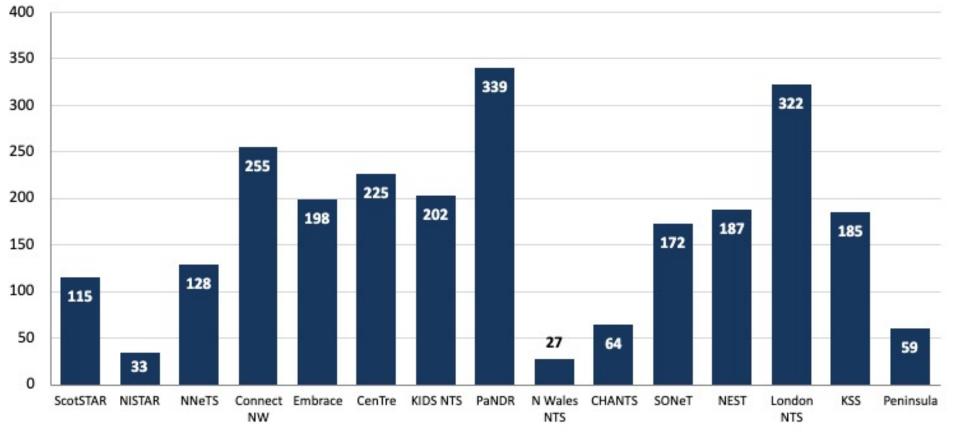




- Benchmark 3:
 - Referral response time & stabilising time: For transfers for uplift of care for intensive care patients in the first 72 hours of life from level 1 and 2 units the transport team will arrive with the patient within 3.5 hours of the referring call.



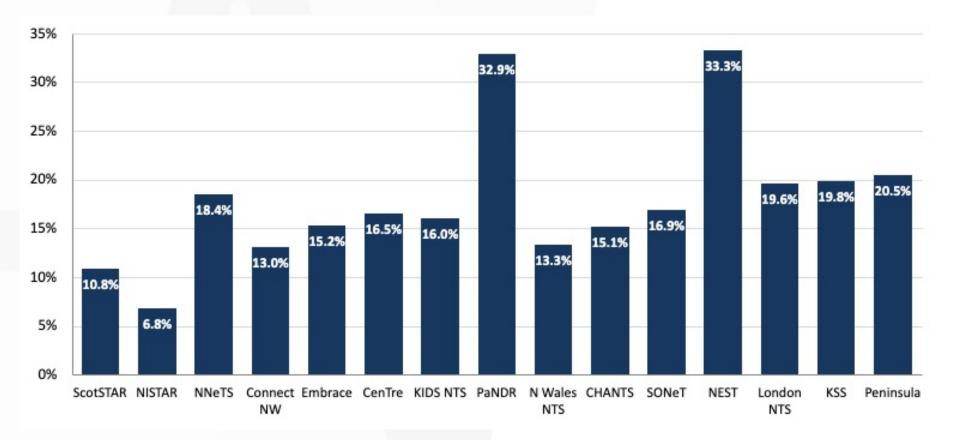
Number of Intensive Care Uplift transfers in the first 3 days of life from level 1 and 2 units 2020/21







Intensive care uplift transfers in the first 3 days of life from level 1 and 2 units, as a percentage of total transfers 2020/21

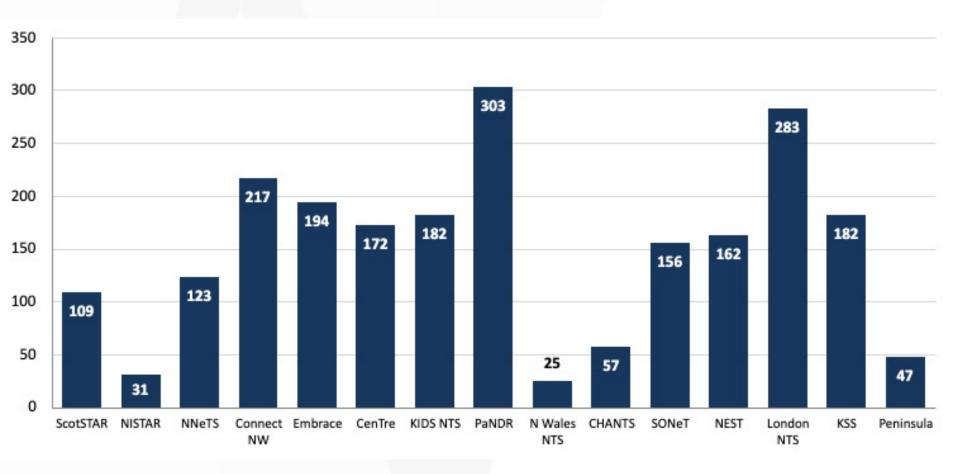


Numbers where the team arrived with the patient





within 3.5 hours of the start of the referring call (ITU uplift transfers in the first 3 days of life from level 1 and 2 units), 2020/21

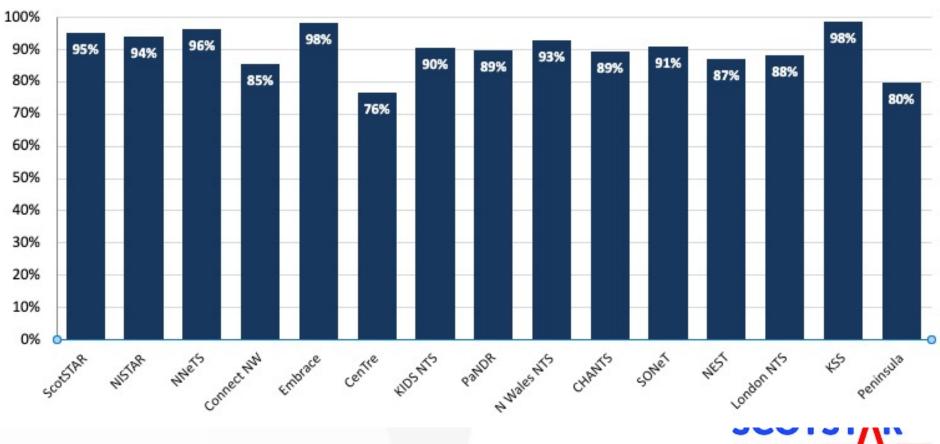


Team arrived with the patient within 3.5 hours of the start of the referring call as a percentage of ICU



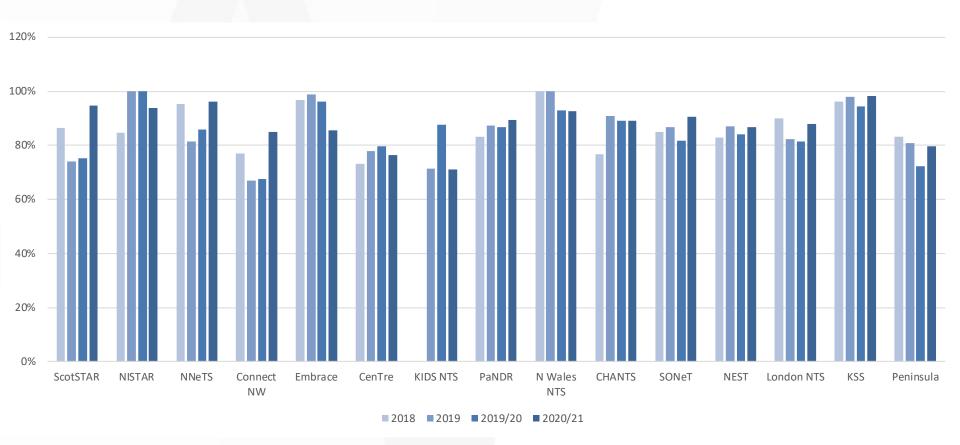


uplift transfers in the first 3 days of life from level 1 and 2 units 2020/21



itical care, anywhere

Trends in team arrived with the patient within 3.5 hours of the start of the referring call as a percentage of ICU uplift transfers by team 2018 to 2020/21



Note that this benchmark was made more specific for the 2020-21 data, being restricted to ICU uplift transfers in the first 3 days of life from level 1 and 2 units, whereas previously all ICU uplift transfers were included



Scottish

Ambulance Service

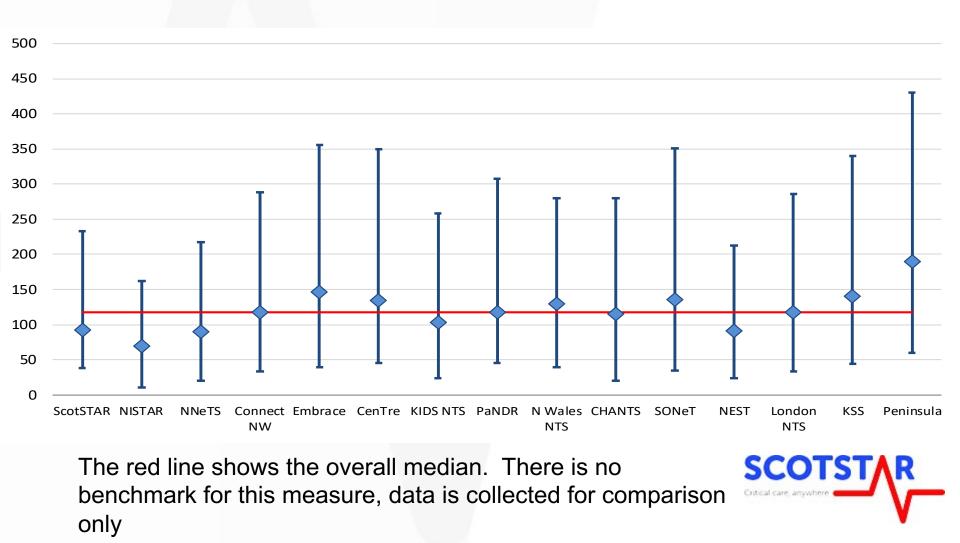
sking Care to the Patient

SCOTLAND



Stabilising time (minutes), 2020/21

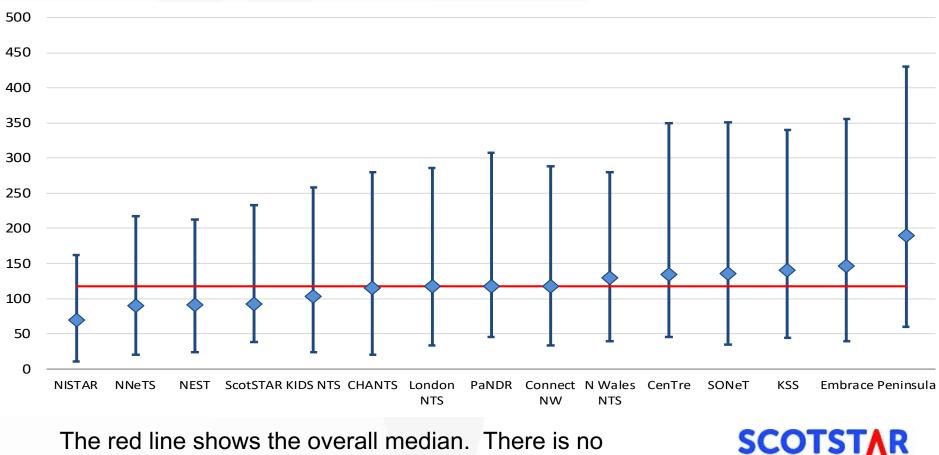
Median (25th & 75th centiles), uplift/ICU transfers, first 3 days of life, level 1 and 2 units





Stabilising time (minutes), 2020/21

Median (25th & 75th centiles), uplift/ICU transfers first 3 days of life, level 1 and 2 units- ranked



benchmark for this measure, data is collected for comparison only

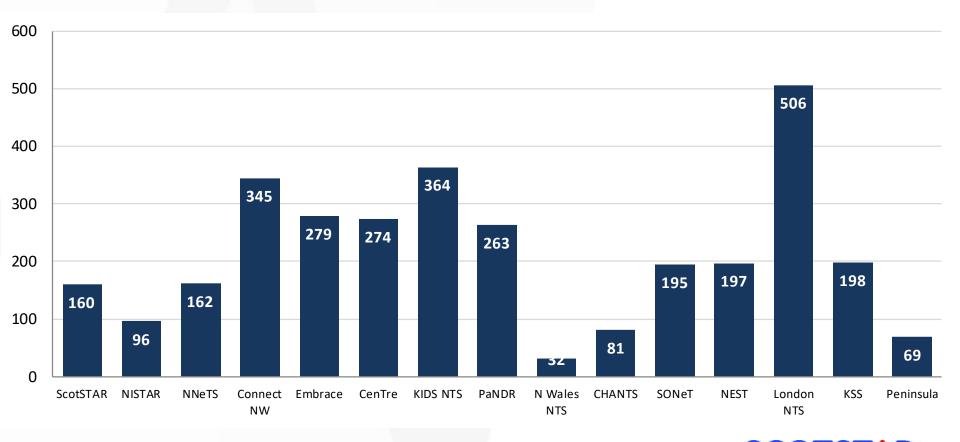




Benchmark 4: Overventilation and Underventilation



Number of infants who are ventilated in transit by team Apr 2020 to Mar 2021

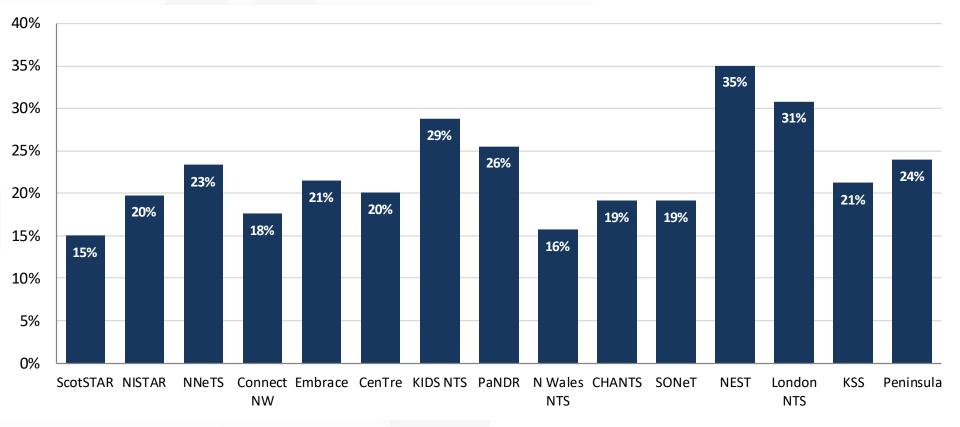


SCOTST R Critical care, anywhere





Infants who are ventilated in transit as a percentage of total transfers, by team Apr 2020 to Mar 2021



SCOTST R Critical care, anywhere

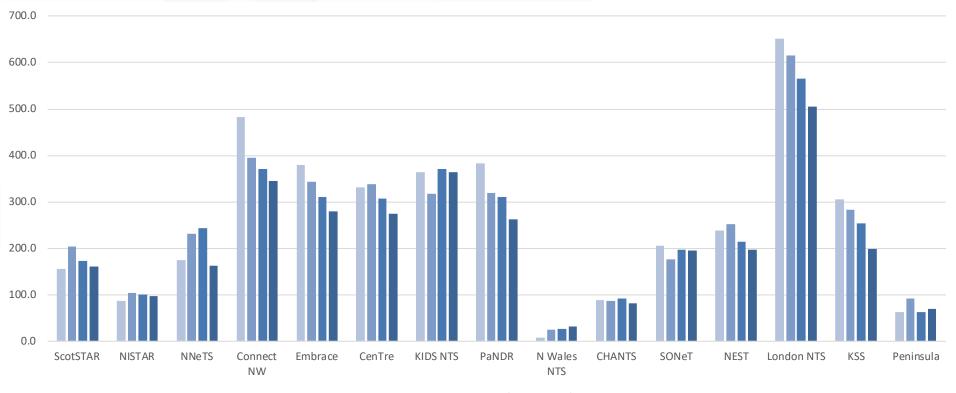
Scottish

Ambulance Service

loking Care to the Patient

SCOTLAND

Trends in numbers of infants ventilated in transit by team, 2018 to 2020/21

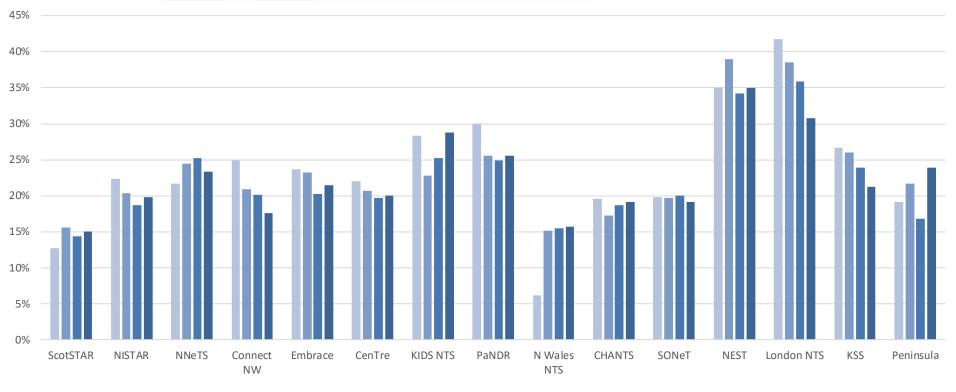


2018 2019 2019/20 2020/21





Trends in infants ventilated in transit as a percentage of total transfers, by team 2018 to 2020/21



2018 2019 2019/20 2020/21

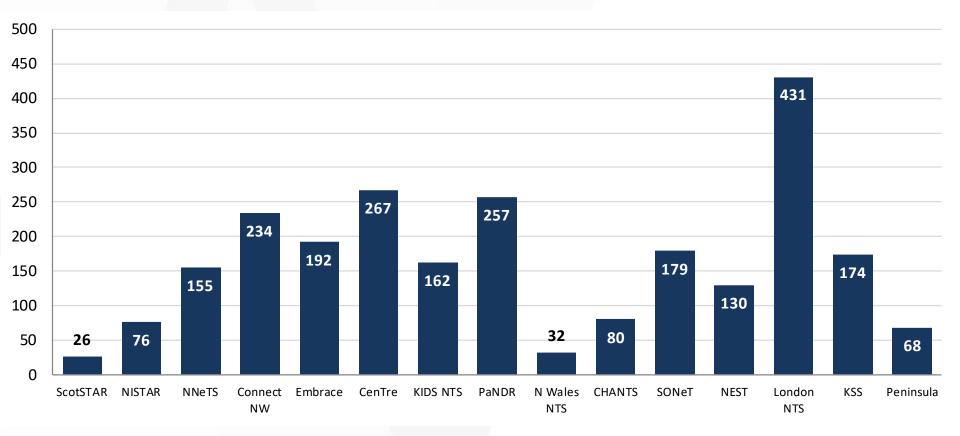
Scottish

Ambulance Service

loking Care to the Patient

SCOTLAND



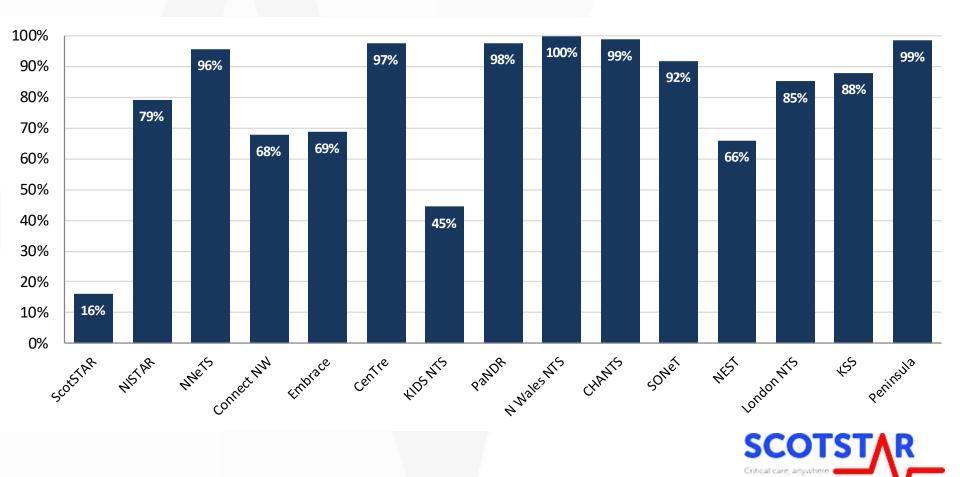


SCOTST R

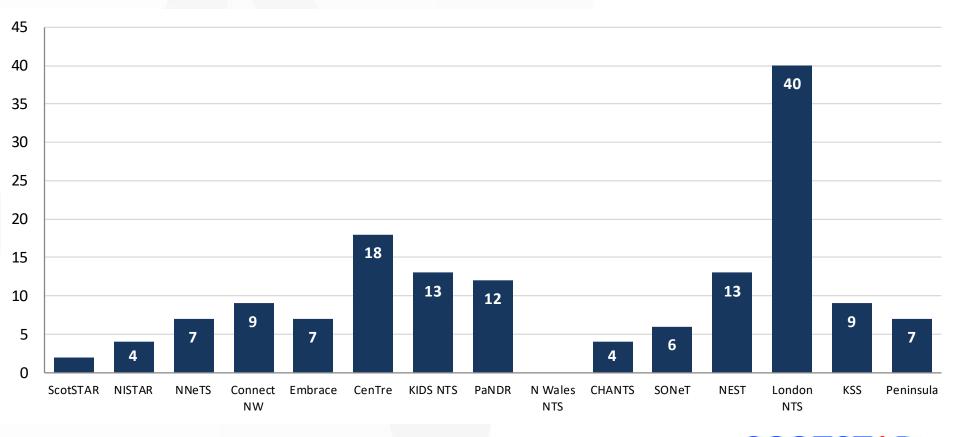
Ventilated patients with a pCO₂



recorded on completion of transfer, as a percentage of ventilated transfers by team, Apr 2020 to Mar 2021



Numbers of ventilated patients with a pCO2 <4 kPa by team Apr 2019 to Mar 2020



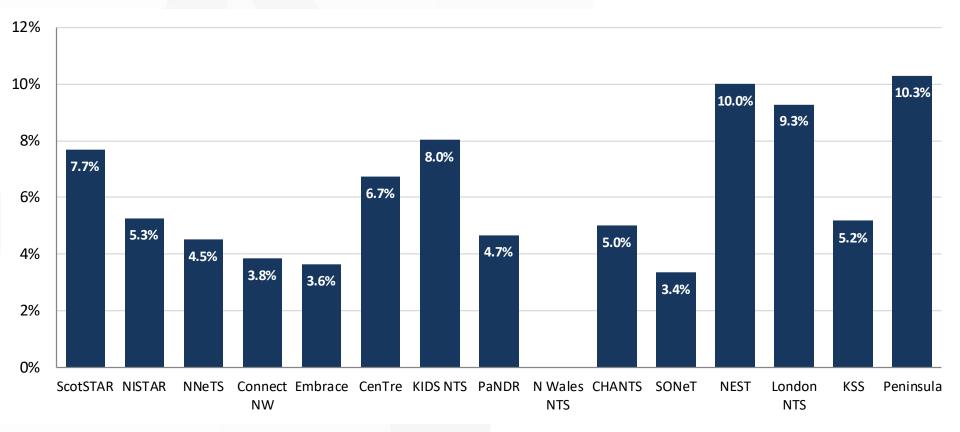
Critical care, anywhere





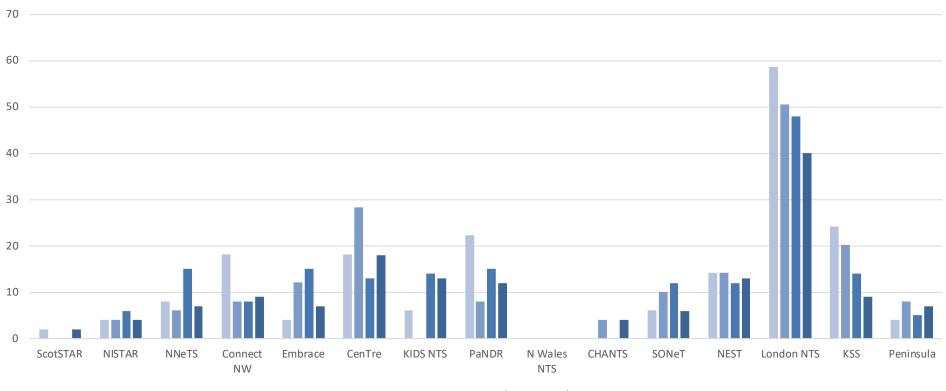


pCO2 <4 on completion of transfer as a percentage of ventilated transfers with CO2 data recorded by team, 2020/21



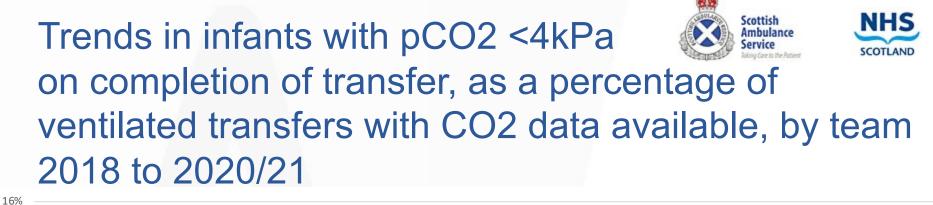


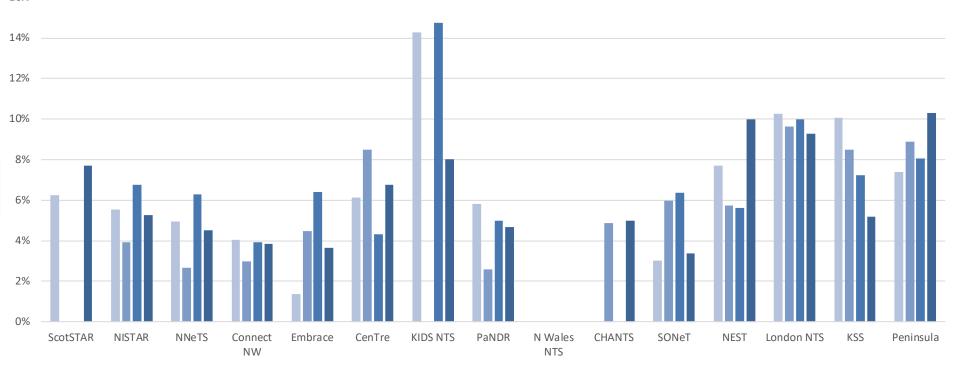




2018 2019 2019/20 2020/21

Critical care, anywhe



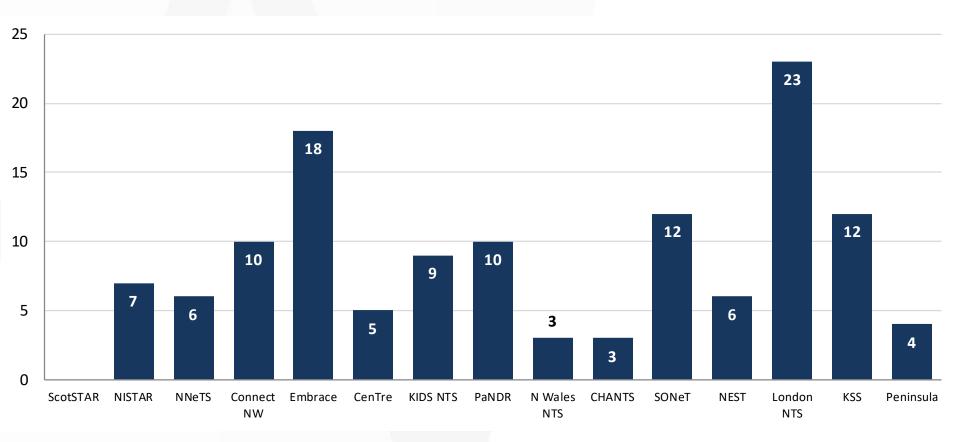


2018 2019 2019/20 2020/21



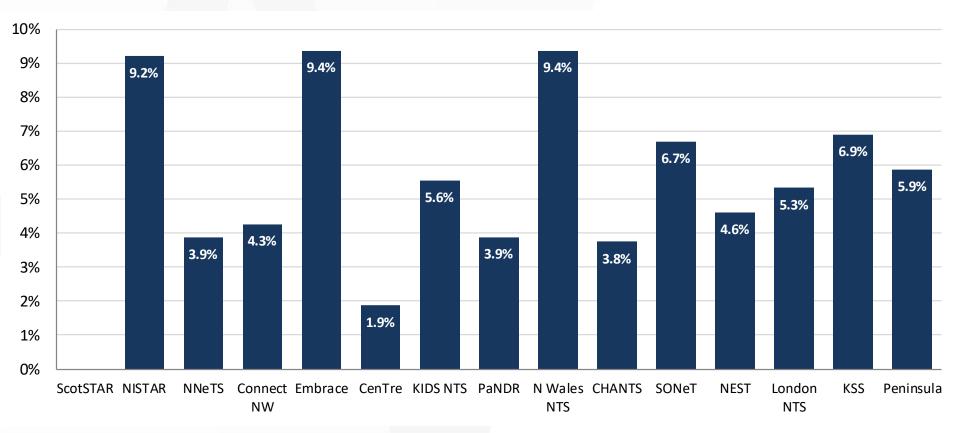


Numbers where the pCO₂ was >7 kPa and the pH <7.2 in ventilated infants on completion of transfer by team, 2020/21





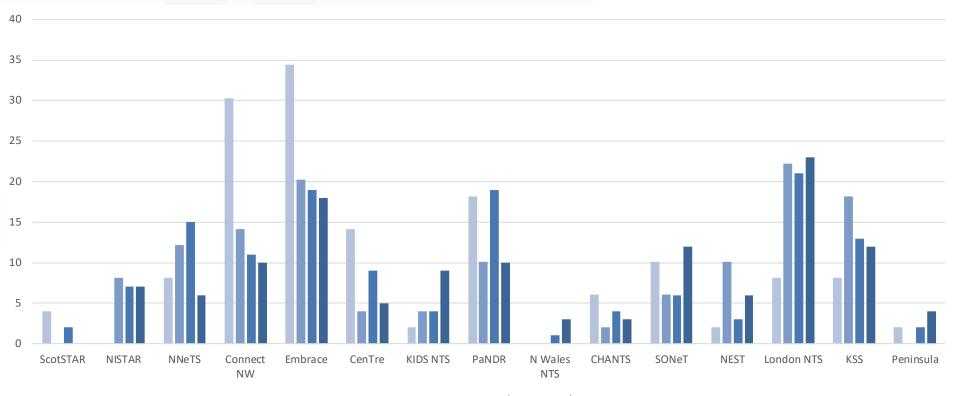
$pCO_2 > 7$ kPa and pH < 7.2 on completion of transfer as a percentage of ventilated transfers with CO2 data available by team 2020/21







Trends in numbers with $pCO_2 > 7 kPa$ and pH < 7.2 in ventilated transfers by team 2018 to 2020/21



2018 2019 2019/20 2020/21

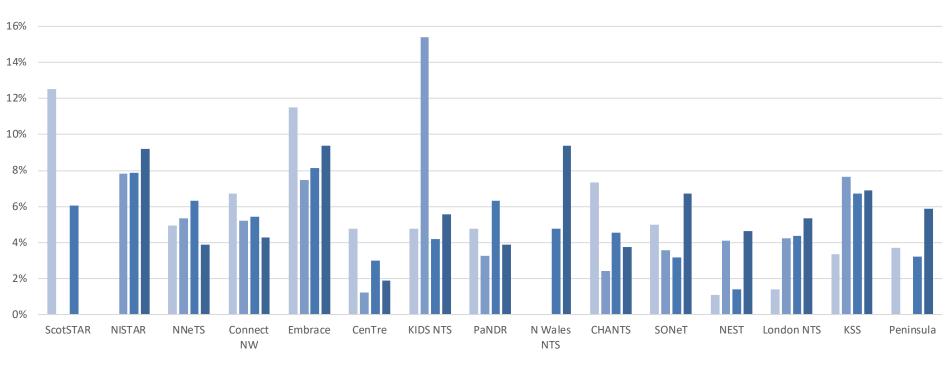
Trends in pCO₂ >7 kPa and pH <7.2

18%





on completion of transfer as a percentage of ventilated transfers with CO2 data available by team 2018 to 2020/21



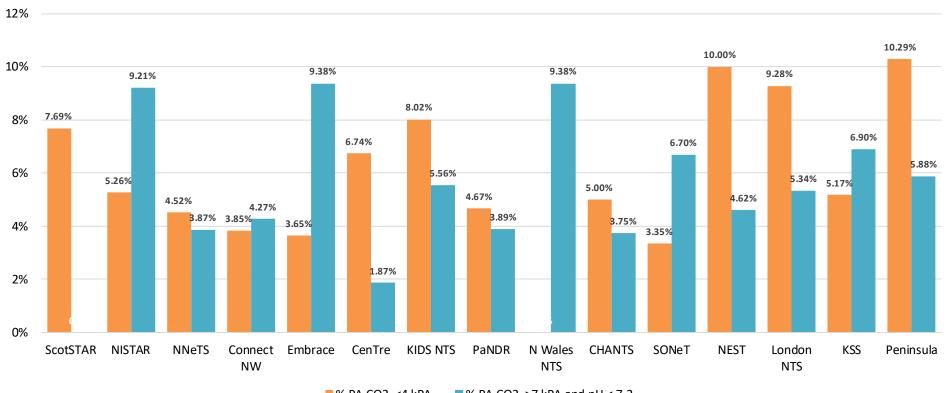
2018 2019 2019/20 2020/21

$pCO_2 < 4 kPa \text{ or } pCO_2 > 7 kPa \text{ and}$





pH <7.2 on completion of ventilated transfers by team as a percentage of ventilated transfers 2020/21



% PA CO2 <4 kPA % PA CO2 >7 kPA and pH < 7.2</p>

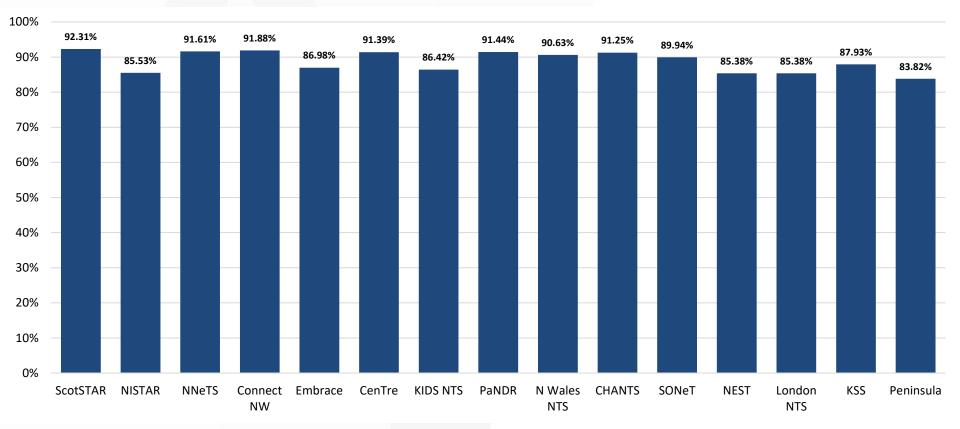
SCOTST

pCO_2 not > 4 kPa or pCO_2 <7 kPa and





pH >7.2 on completion of ventilated transfers, as a percentage of ventilated transfers with data available, by team 2020/21







Team service characteristics

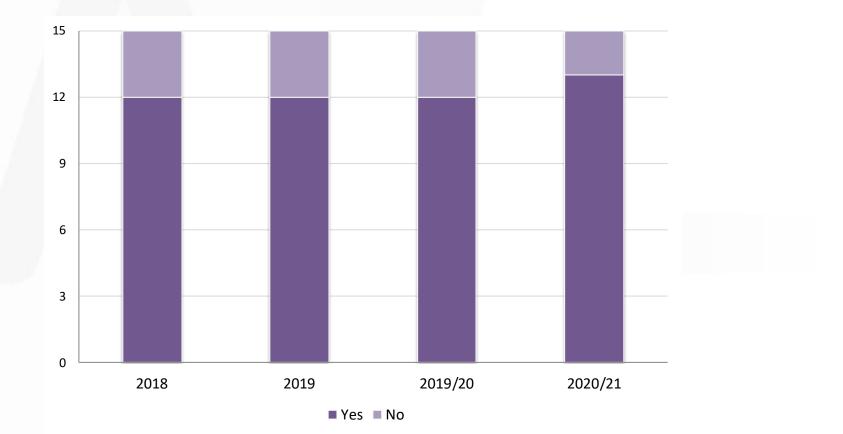
- 24 hour service
- Cot Bureau for ex utero transfers
- Conference calling available
- Local process in place for reviewing extreme preterm deliveries outwith level 3 NICUs
- Whether bilious vomiting transfers are treated as 'time critical"
- Does your service offer support in locating neonatal and maternal beds for in utero transfers
- High Frequency Oscillation Ventilation available in transit
- Servo Controlled active cooling available in transit
- Dedicated vehicles for neonatal transport
- Consultant availability
- Use of transcutaneous CO2 monitoring
- Use of ET CO2 monitoring
- Volume targeted ventilation available in transit



Service Characteristics 2020/21 24 hour service





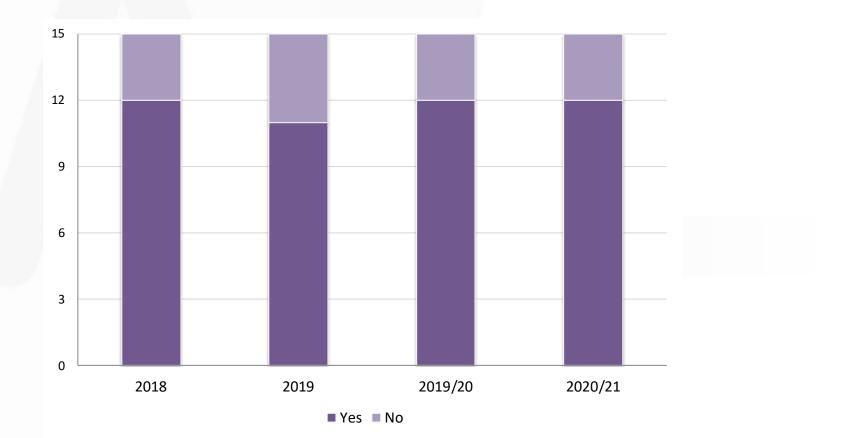




Service Characteristics 2020/21 Run a cot bureau



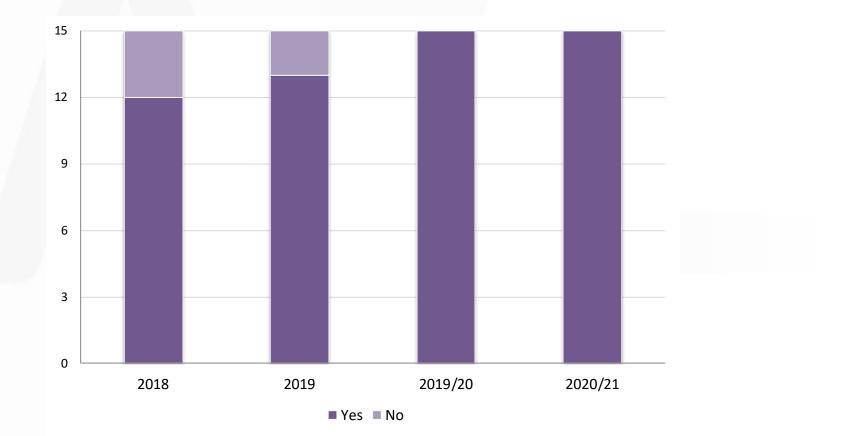




Service Characteristics 2020/21 Conference Calling





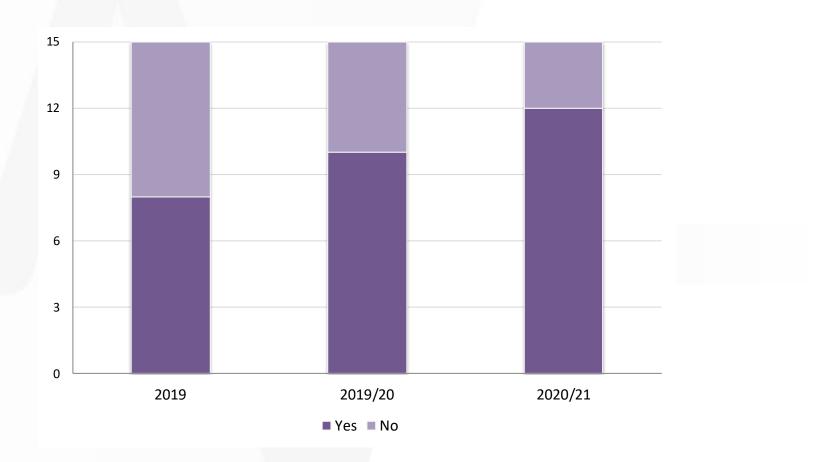




Service Characteristics 2020/21 Local network "wrong place" review

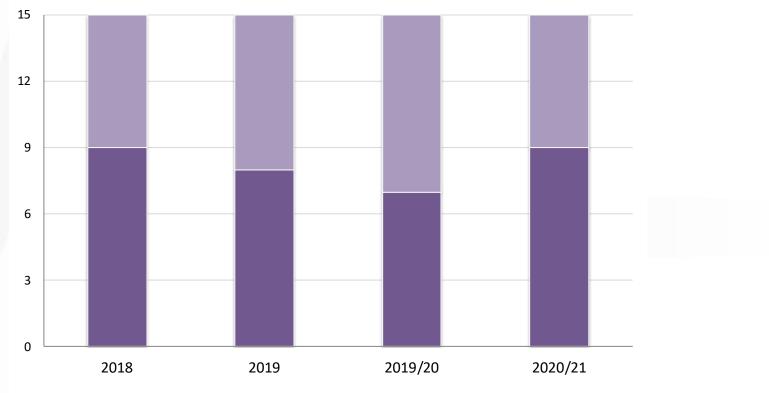






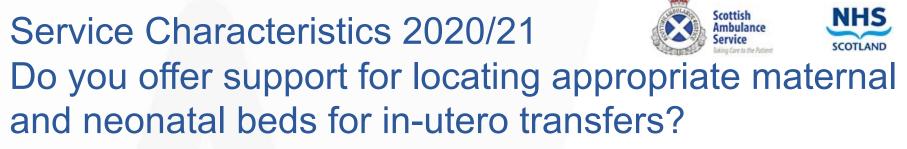


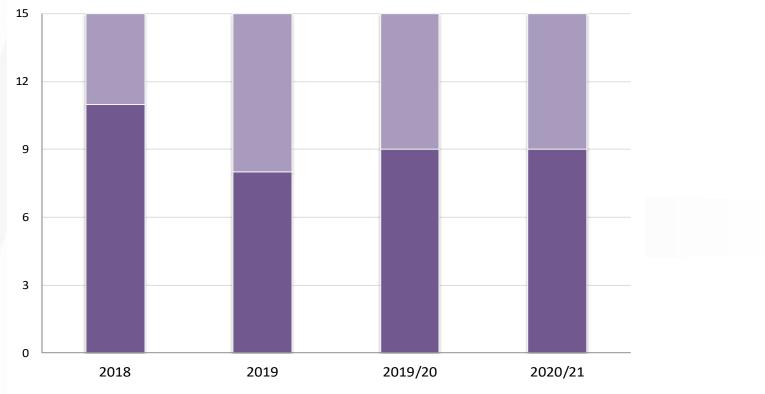
Service Characteristics 2020/21



■ Yes ■ No





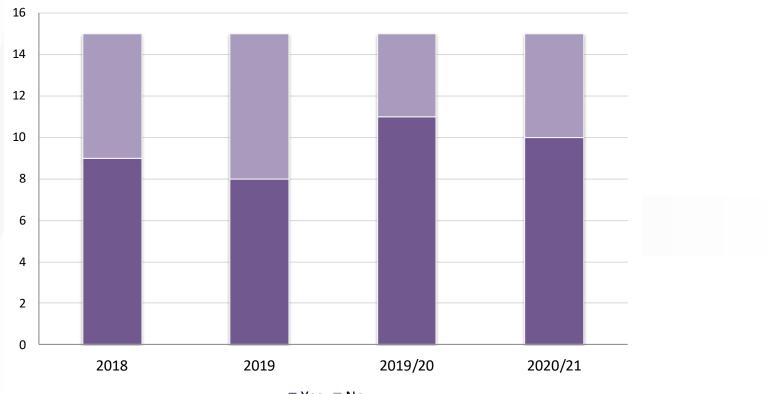




Service Characteristics 2020/21 HFO offered in Transit







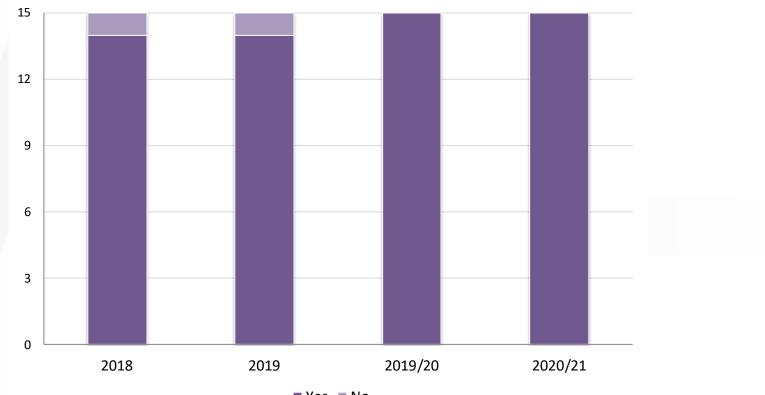
■ Yes ■ No







Service Characteristics 2020/21 Provide servo-controlled active cooling in transit



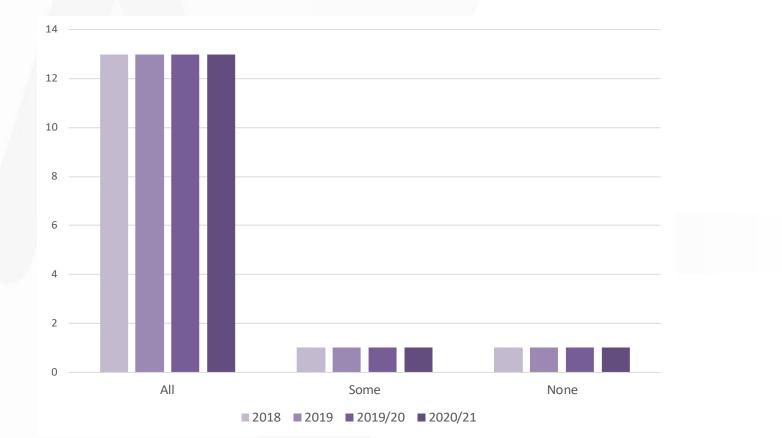
■ Yes ■ No



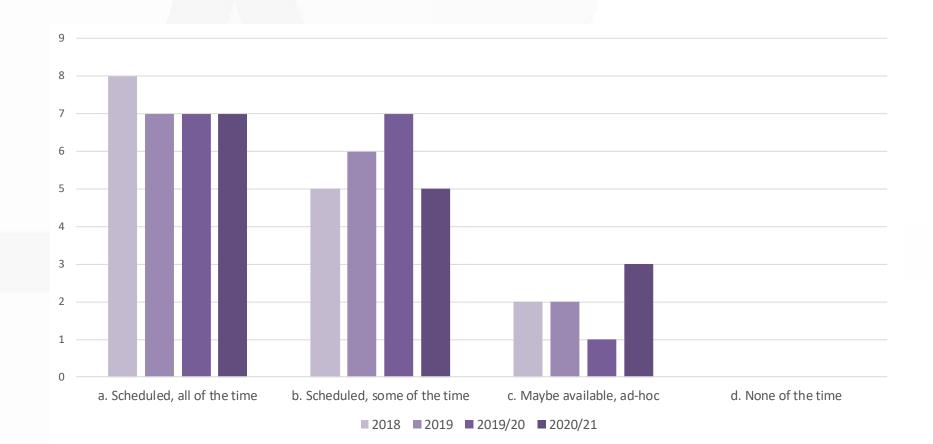
Service Characteristics 2020/21 Dedicated Vehicles







Service Characteristics 2020/21 Consultants



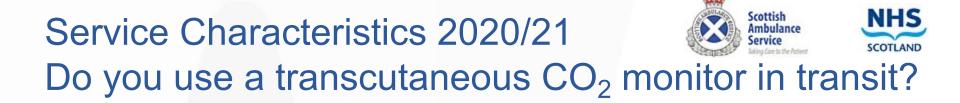
Scottish

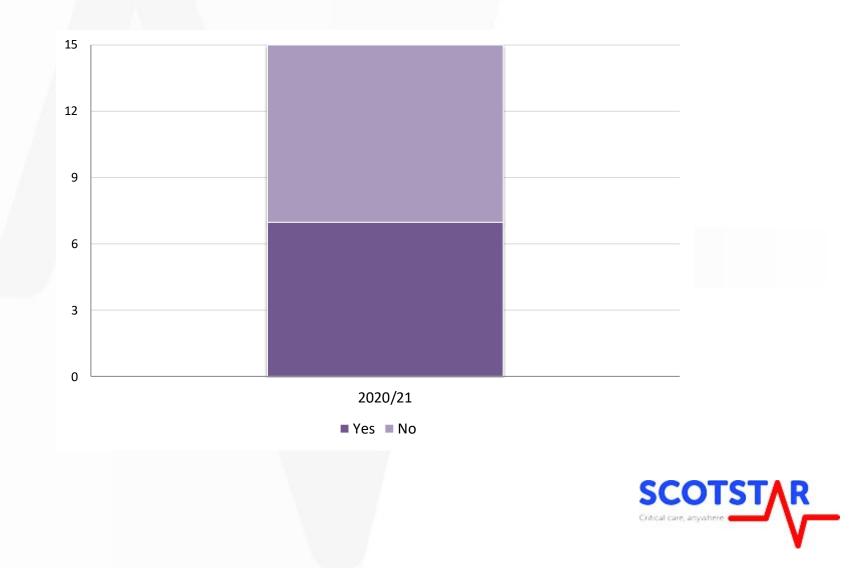
Ambulance

loking Care to the Patient

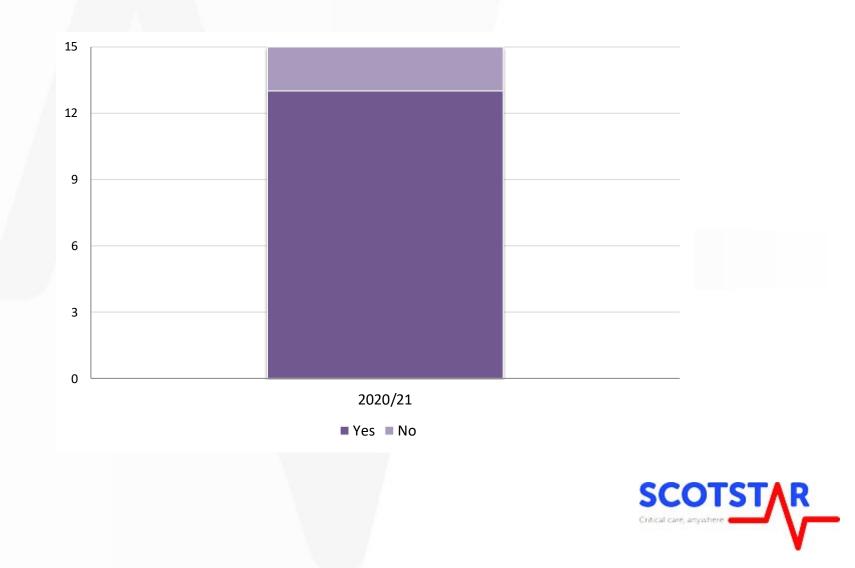
NIE

SCOTLAND





Service Characteristics 2020/21 Do you use ET CO₂ monitoring in transit?



Scottish

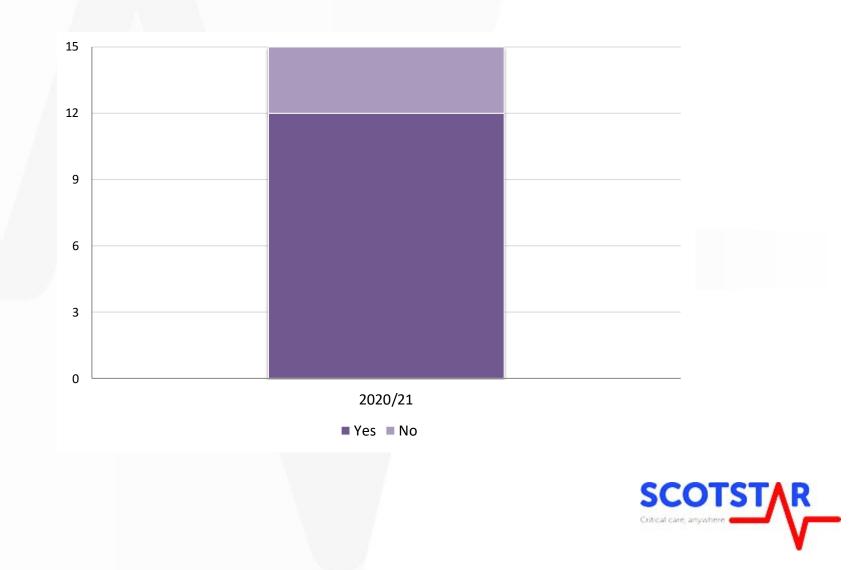
Ambulance Service

Taking Care to the Patient

NHS

SCOTLAND





Conclusions/Trends 2020/21





- We are in a period of relative stability in terms of service configuration and modes of support available in transfer
- Challenges around thermal care prior to and during transfer persist and require concerted cross network/transport focus
- The more focused criteria for assessing response and stabilisation times appear to be more relevant for comparison between teams
- Information from the new data points- bilious vomiting transfers, prolonged journeys etc provide a valuable insight into practice around the country







and finally, a thought on COVID.....

 The drop in the number of transfers over 2020-2021, and the small numbers of COVID transfers do not convey the huge challenges faced through this period by all services. It is a credit to all that excellent care continued to be provided over this time.









- All the team and data leads
- Colin Devon, ScotSTAR data analyst

