



NTG Annual Transport Data 2021/22

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



Method

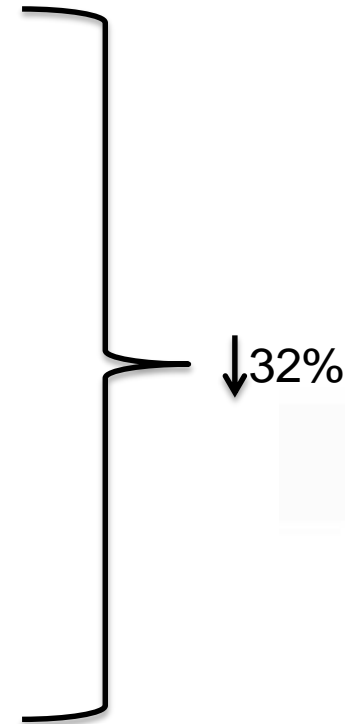


- Email to transport services medical and nursing leads requesting activity data and service information from 1st April 2021 to 31st March 2022
 - Requests before 2019/2020 covered first 6 months of calendar year only

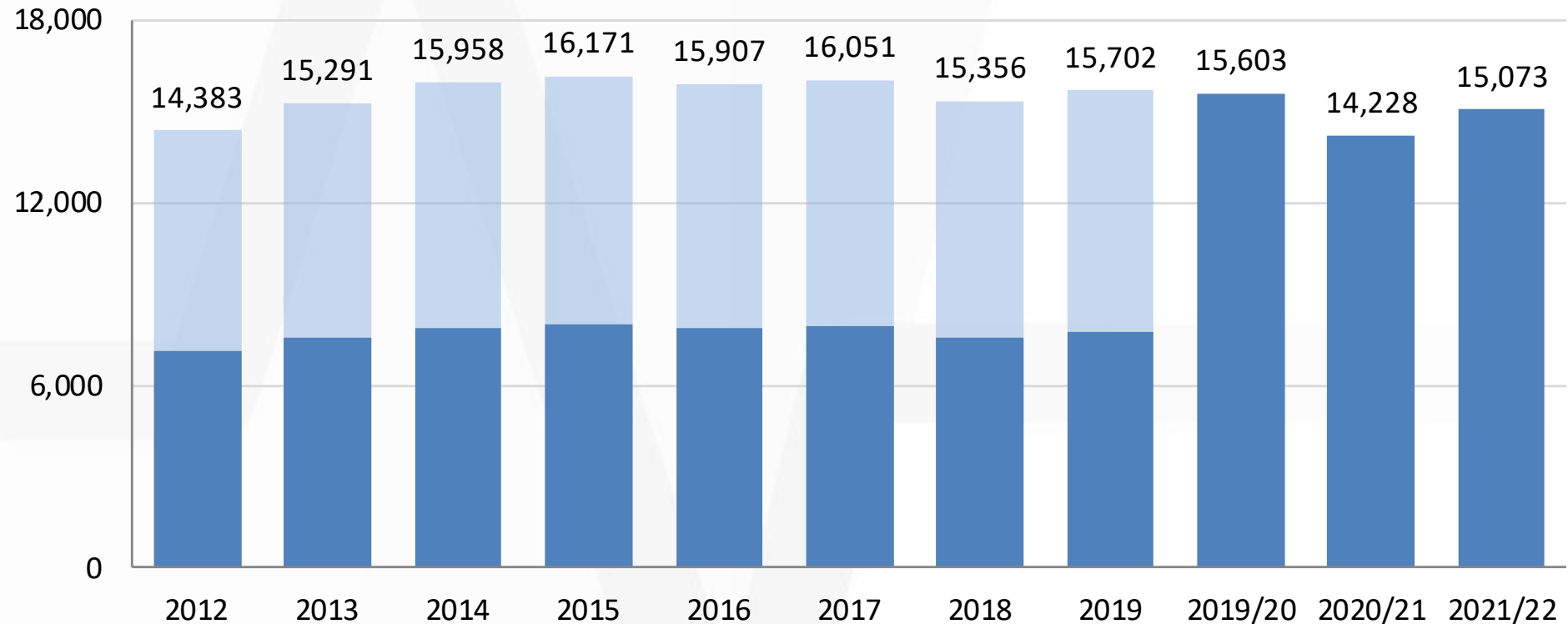
Number of Services, UK



- 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



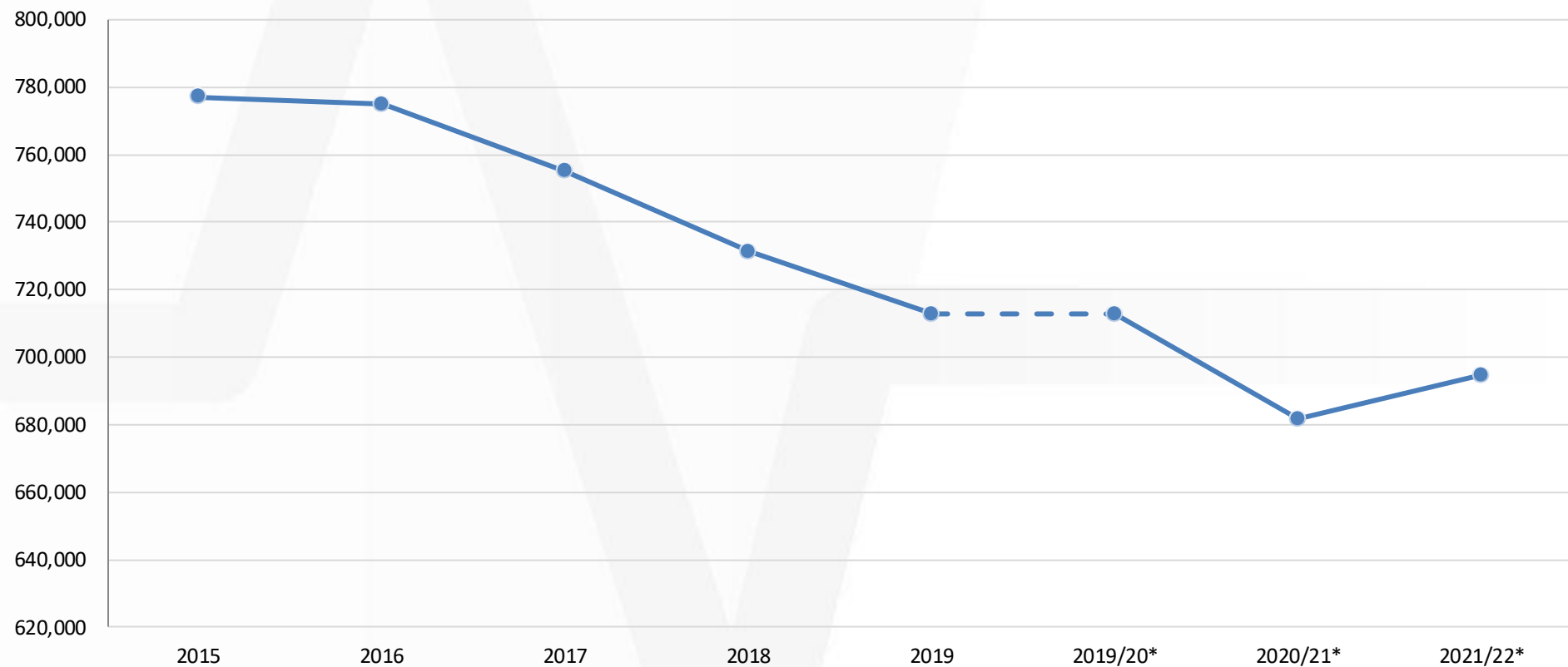
2019-20 onwards data 12-month collection period, prior to that 6 months used



Yearly birth rate



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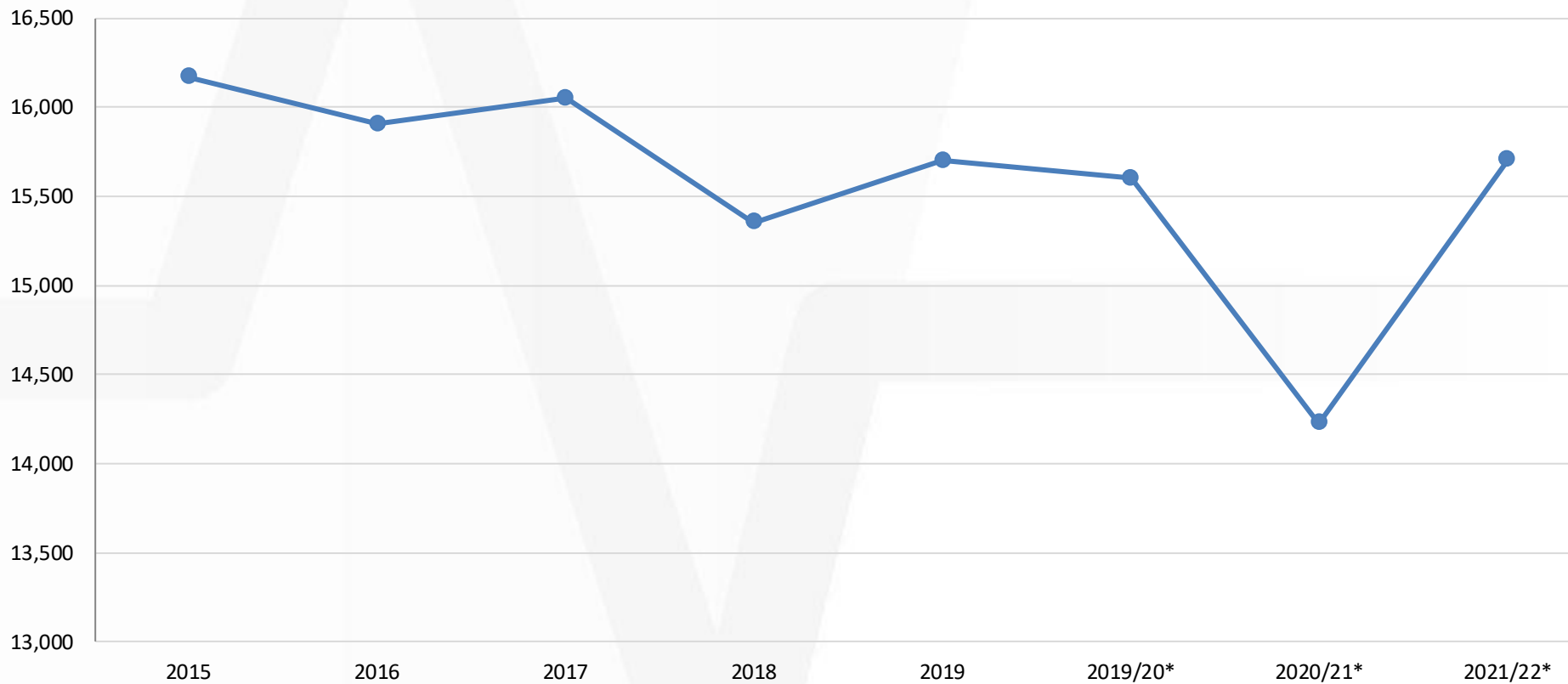
Birth data from relevant national bodies. The birth data is yearly so only for indication of possible change.
2019/20 using 2019 figures, 2021/22 using 2021 figures etc.



UK neonatal transport activity

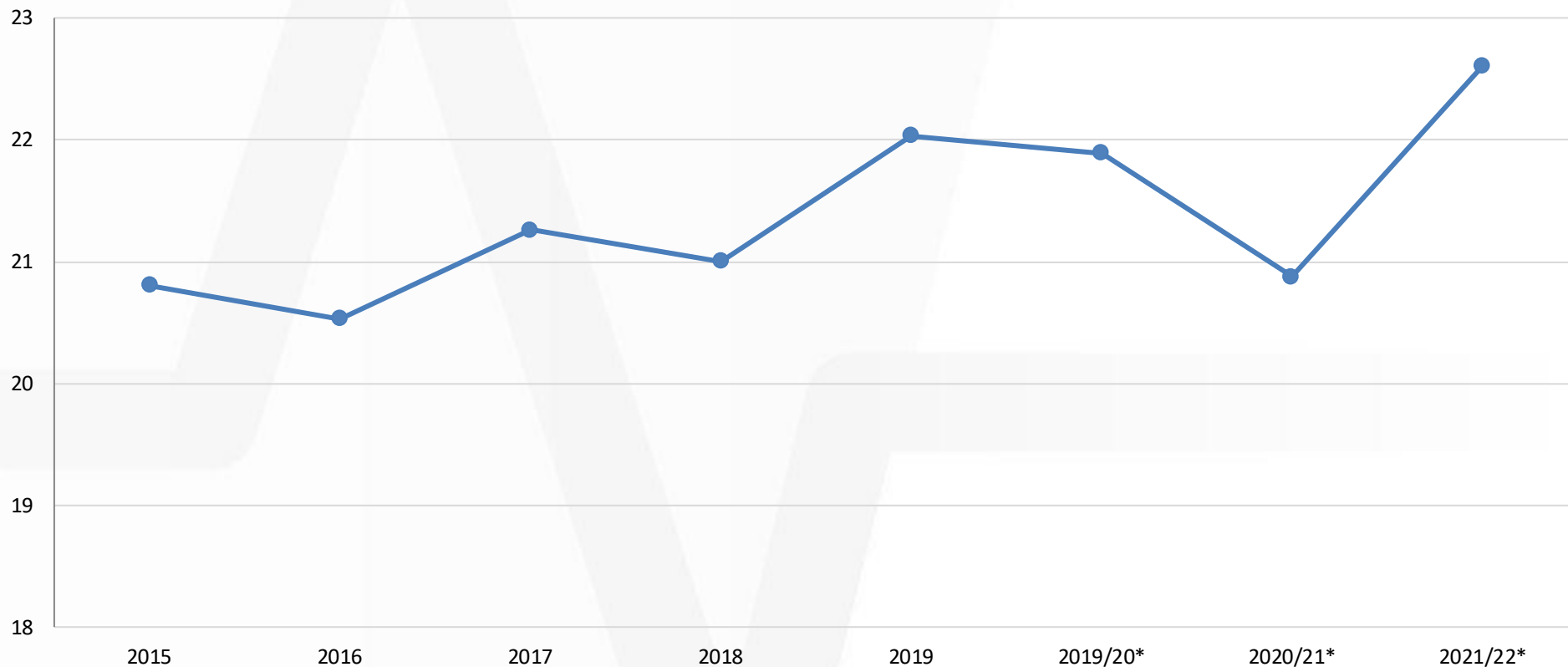


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UK neonatal transport

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

Apr 2021 to Mar 2022



	2012	2013	2014	2015	2016	2017	2018	2019	2019/20	2020/21	2021/22
Total transfers	7152	7562	7892	7997	7910	7938	7594	7765	15603	14228	15073
Ventilated	1889 (26.4%)	1961 (25.9%)	1949 (24.7%)	2155 (26.9%)	2000 (25.3%)	1913 (24.1%)	1939 (25.5%)	1868 (24.1%)	3677 (23.6%)	3217 (22.6%)	3387 (22.5%)
HFOV				16 (0.7%)	16 (0.8%)	39 (2.04%)	48 (2.5%)	54 (2.9%)	102 (2.8%)	112 (3.5%)	98 (2.9%)
CPAP	847 (11.8%)	906 (12%)	811 (10.3%)	790 (9.9%)	737 (9.3%)		621 (8.2%)	529 (6.8%)	1070 (6.9%)	871 (6.1%)	1029 (6.8%)
High-flow				452 (5.7%)	496 (6.3%)		674 (8.9%)	766 (9.9%)	1712 (11%)	1663 (11.7%)	1824 (12.1%)
Cooling	247 (3.5%)	288 (3.8%)	249 (3.2%)	274 (3.4%)	288 (3.6%)	245 (3.1%)	255 (3.4%)	281 (3.6%)	541 (3.5%)	502 (3.5%)	496 (3.3%)
iNO	99 (1.4%)	111 (1.5%)	117 (1.5%)	138 (1.7%)	148 (1.9%)		154 (2%)	157 (2%)	293 (1.9%)	298 (2.1%)	292 (1.9%)
Palliative	22 (0.3%)		19 (0.2%)	19 (0.2%)	33 (0.4%)	33 (0.4%)	20 (0.3%)	24 (0.3%)	62 (0.4%)	56 (0.4%)	53 (0.4%)

UK Summary Data

Apr 2021 to Mar 2022 Adjusted



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	Adjusted 2012	Adjusted 2013	Adjusted 2014	Adjusted 2015	Adjusted 2016	Adjusted 2017	Adjusted 2018	Adjusted 2019	2019/20	2020/21	2021/22
Total transfers	14383	15291	15958	16171	15907	16051	15356	15702	15603	14228	15073
Ventilated	3799 (26.4%)	3965 (25.9%)	3941 (24.7%)	4358 (26.9%)	4022 (25.3%)	3868 (24.1%)	3921 (25.5%)	3777 (24.1%)	3677 (23.6%)	3217 (22.6%)	3387 (22.5%)
HFOV				32 (0.7%)	32 (0.8%)	79 (2.04%)	97 (2.5%)	109 (2.9%)	102 (2.8%)	112 (3.5%)	98 (2.9%)
CPAP	1703 (11.8%)	1832 (12%)	1640 (10.3%)	1597 (9.9%)	1482 (9.3%)		1256 (8.2%)	1070 (6.8%)	1070 (6.9%)	871 (6.1%)	1029 (6.8%)
High-flow				904 (5.7%)	992 (6.3%)		1348 (8.9%)	1532 (9.9%)	1712 (11.0%)	541 (3.8%)	541 (3.6%)
Cooling	497 (3.5%)	582 (3.8%)	504 (3.2%)	554 (3.4%)	579 (3.6%)	495 (3.1%)	516 (3.4%)	568 (3.6%)	541 (3.5%)	502 (3.5%)	496 (3.3%)
iNO	198 (1.4%)	222 (1.5%)	234 (1.5%)	276 (1.7%)	296 (1.9%)		308 (2%)	314 (2%)	293 (1.9%)	62 (0.4%)	62 (0.4%)
Palliative	44 (0.3%)		38 (0.2%)	38 (0.2%)	66 (0.4%)	67 (0.4%)	40 (0.3%)	49 (0.3%)	62 (0.4%)	56 (0.4%)	53 (0.4%)

UK Summary Data

Apr 2021 to Mar 2022



	2012-2019 Ave	2019/20	2020/21	2021/22
Total transfers	7,726	15,603	14,228	15,073
Ventilated	1,959 (25.4%)	3,677 (23.6%)	3,217 (22.6%)	3,387 (22.5%)
HFOV	35 (1.8%)	102 (2.8%)	112 (3.5%)	98 (2.9%)
CPAP	749 (9.7%)	1,070 (6.9%)	871 (6.1%)	1,029 (6.8%)
High-flow	597 (7.7%)	1,712 (11%)	1,663 (11.7%)	1,824 (12.1%)
Cooling	266 (3.4%)	541 (3.5%)	502 (3.5%)	496 (3.3%)
iNO	132 (1.7%)	293 (1.9%)	298 (2.1%)	292 (1.9%)
Palliative	24 (0.3%)	62 (0.4%)	56 (0.4%)	53 (0.4%)



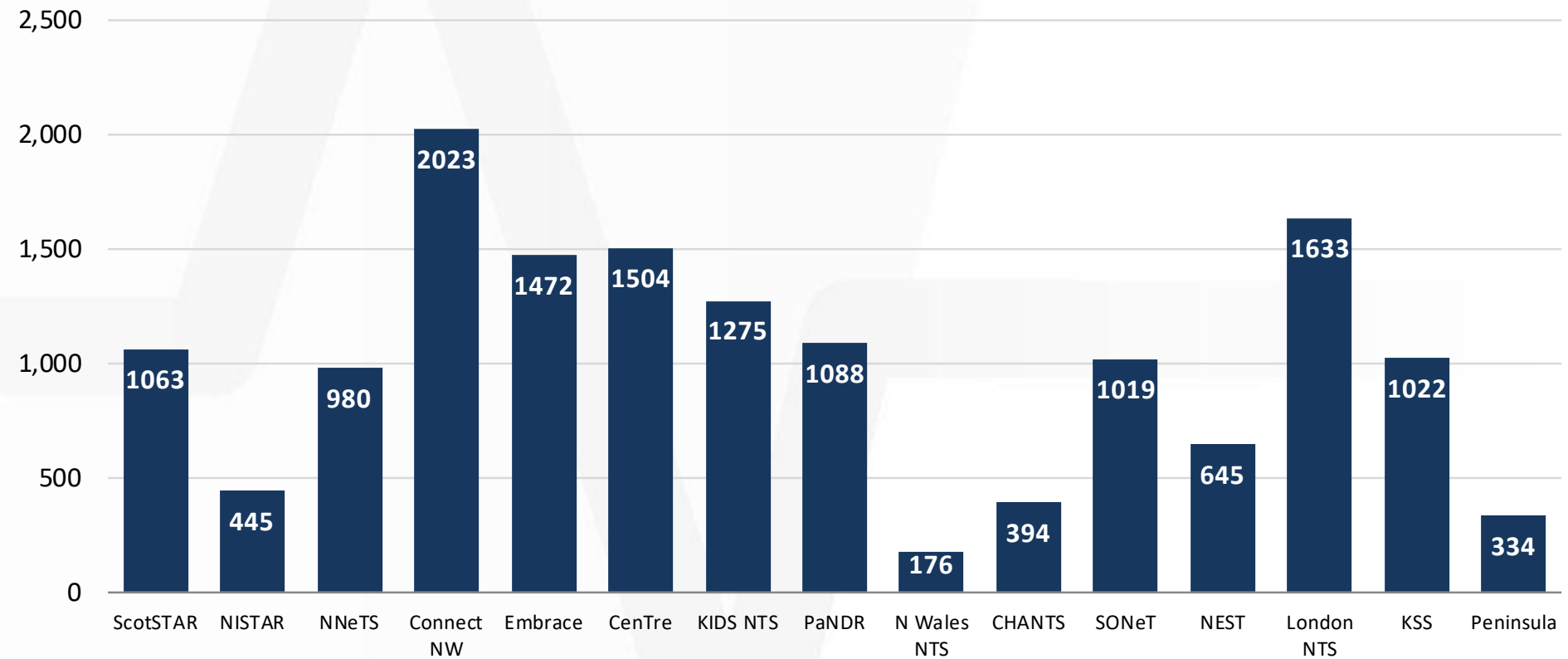
UK Summary Data

Apr 2021 to Mar 2022 Adjusted

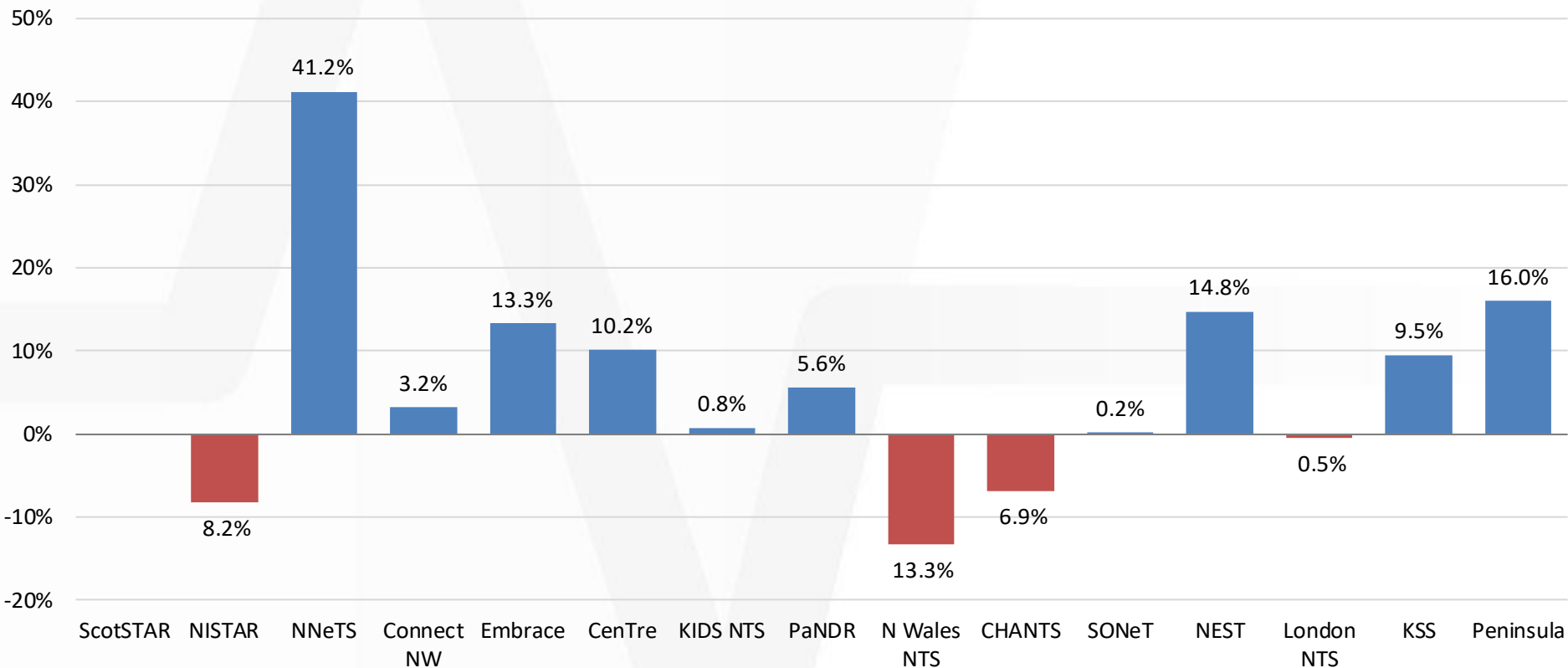


	Adjusted 2012-2019 Ave	2019/20	2020/21	2021/22
Total transfers	15,623	15,603	14,228	15,073
Ventilated	3,962 (25.4%)	3,677 (23.6%)	3,217 (22.6%)	3,387 (22.5%)
HFOV	70 (1.8%)	102 (2.8%)	112 (3.5%)	98 (2.9%)
CPAP	1,514 (9.7%)	1,070 (6.9%)	871 (6.1%)	1,029 (6.8%)
High-flow	1,194 (7.7%)	1,712 (11.0%)	541 (3.8%)	541 (3.6%)
Cooling	538 (3.4%)	541 (3.5%)	502 (3.5%)	496 (3.3%)
iNO	264 (1.7%)	293 (1.9%)	62 (0.4%)	62 (0.4%)
Palliative	49 (0.3%)	62 (0.4%)	56 (0.4%)	53 (0.4%)

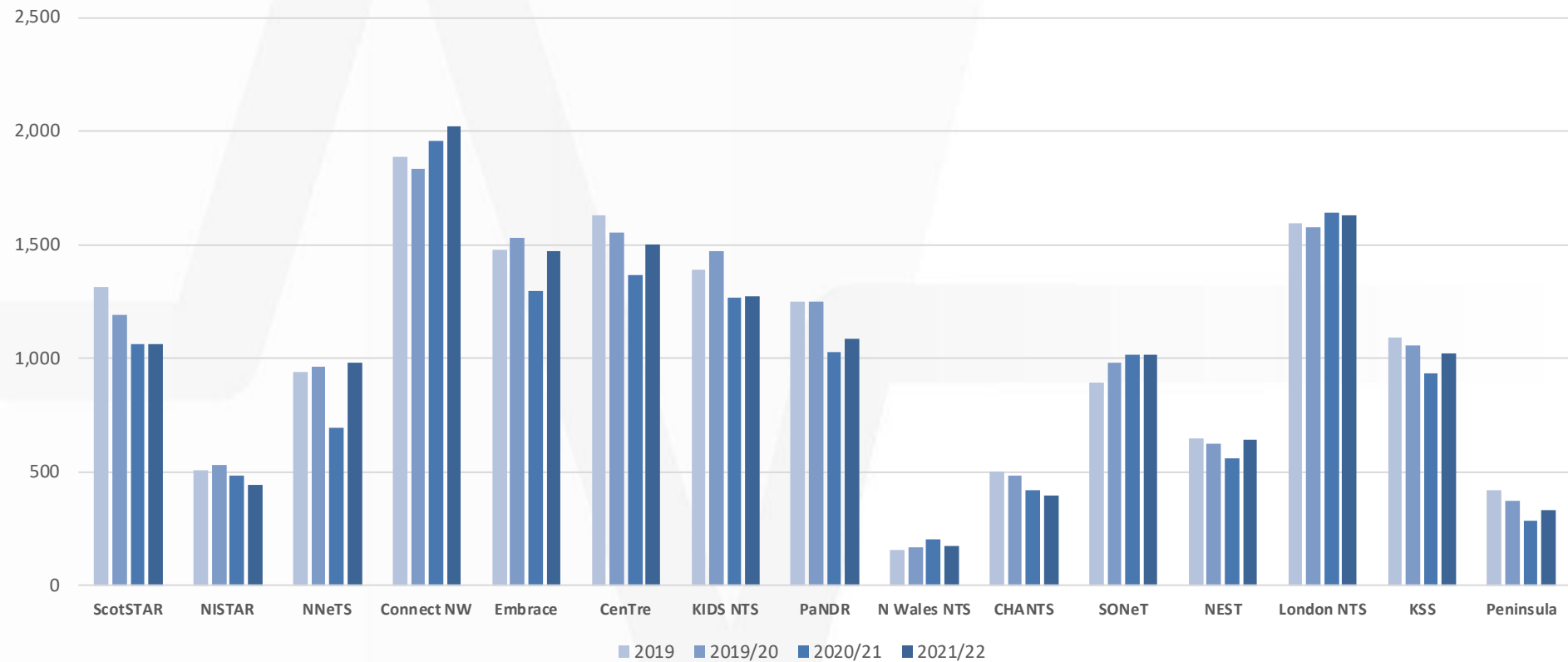
Total Transfers/team Apr 2021 to Mar 2022



Changes in activity by team, 2021/22 v 2021/22



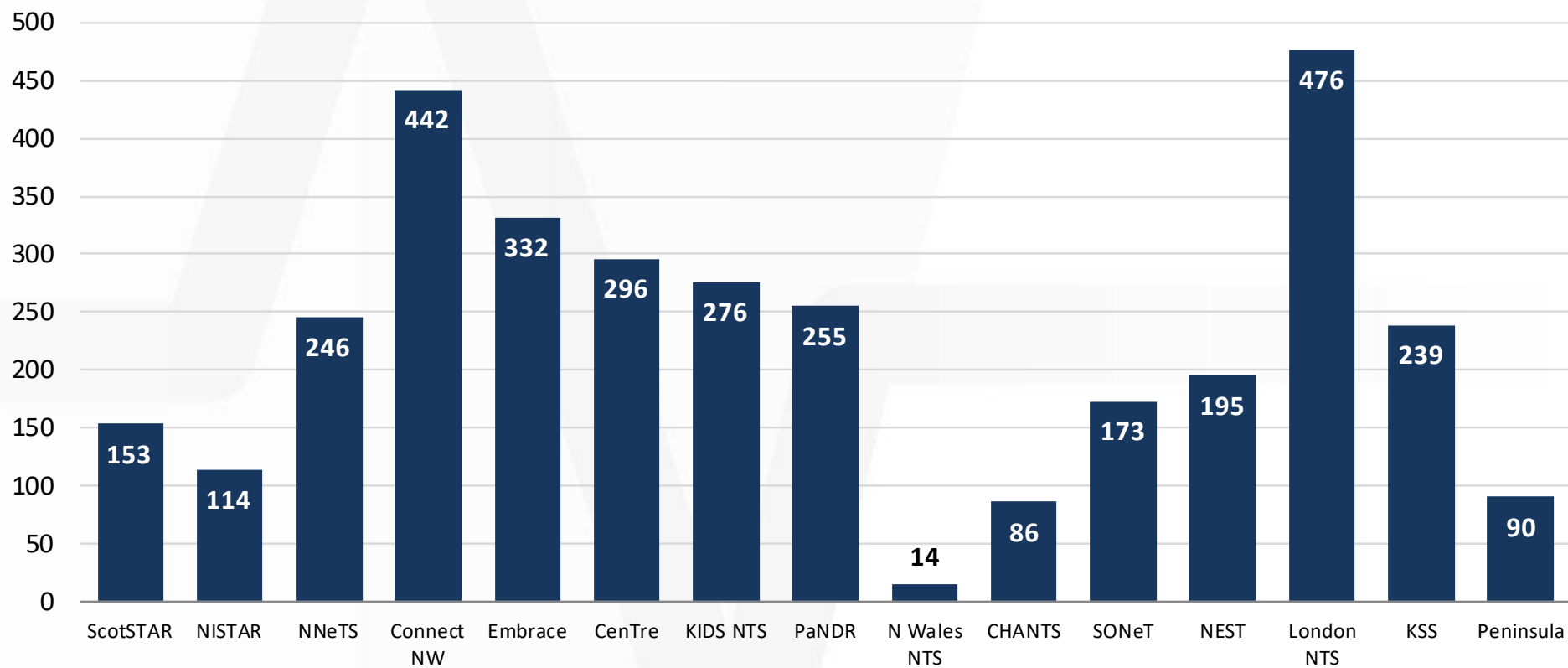
Trends in transfer number by team, 2019 to 2021/22



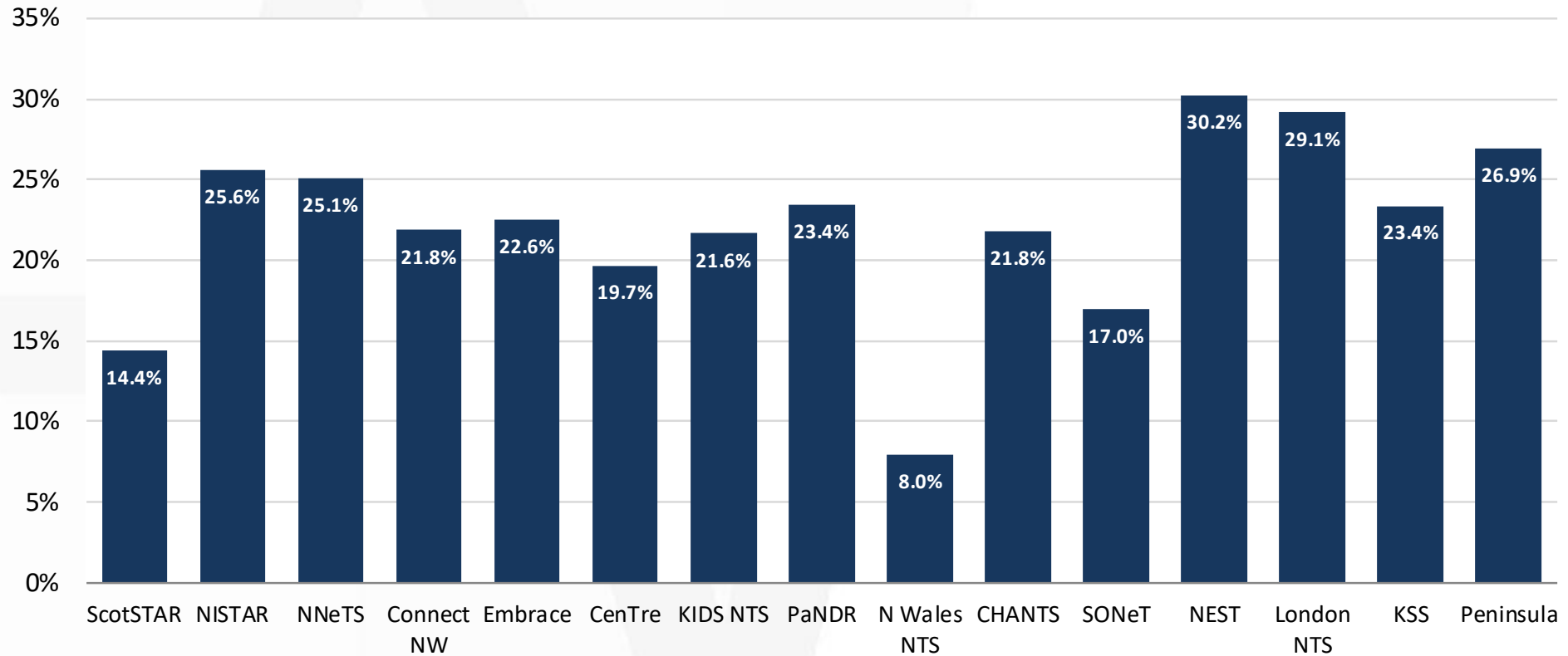
2019-20 onwards data 12-month collection period, prior to that 6 months used , adjusted for comparison



Ventilated Transfers/team Apr 2021 to Mar 2022



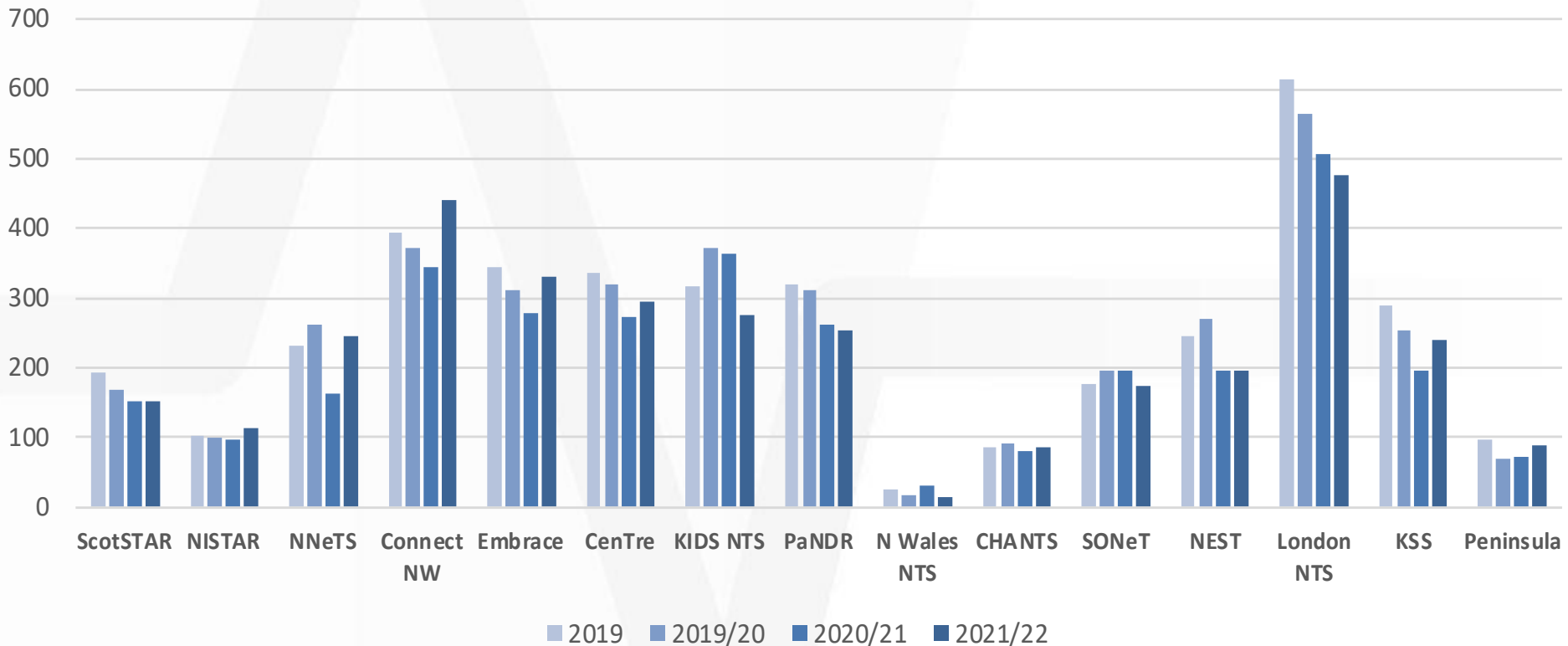
Ventilated Transfers as a percentage of total transfer, by team Apr 2021 to Mar 2022



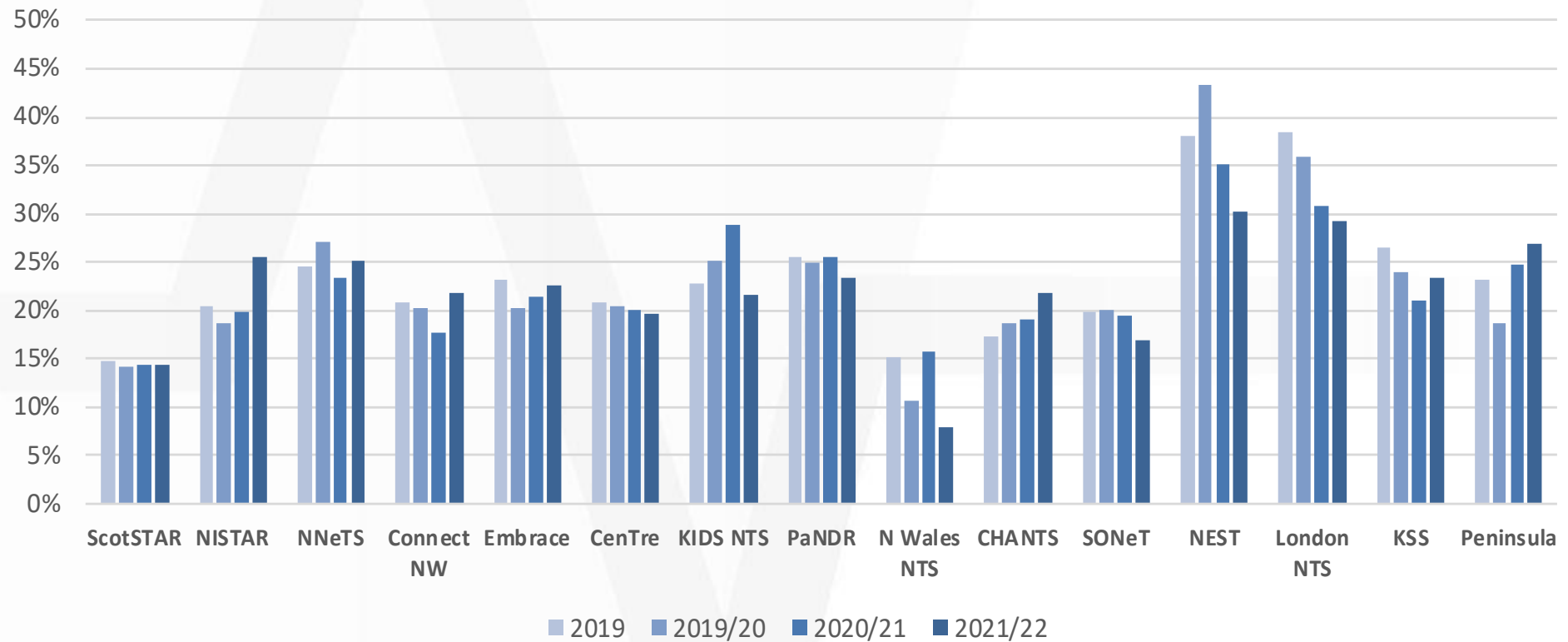
Trends in numbers of ventilated transfer by team 2019 to 2021/22



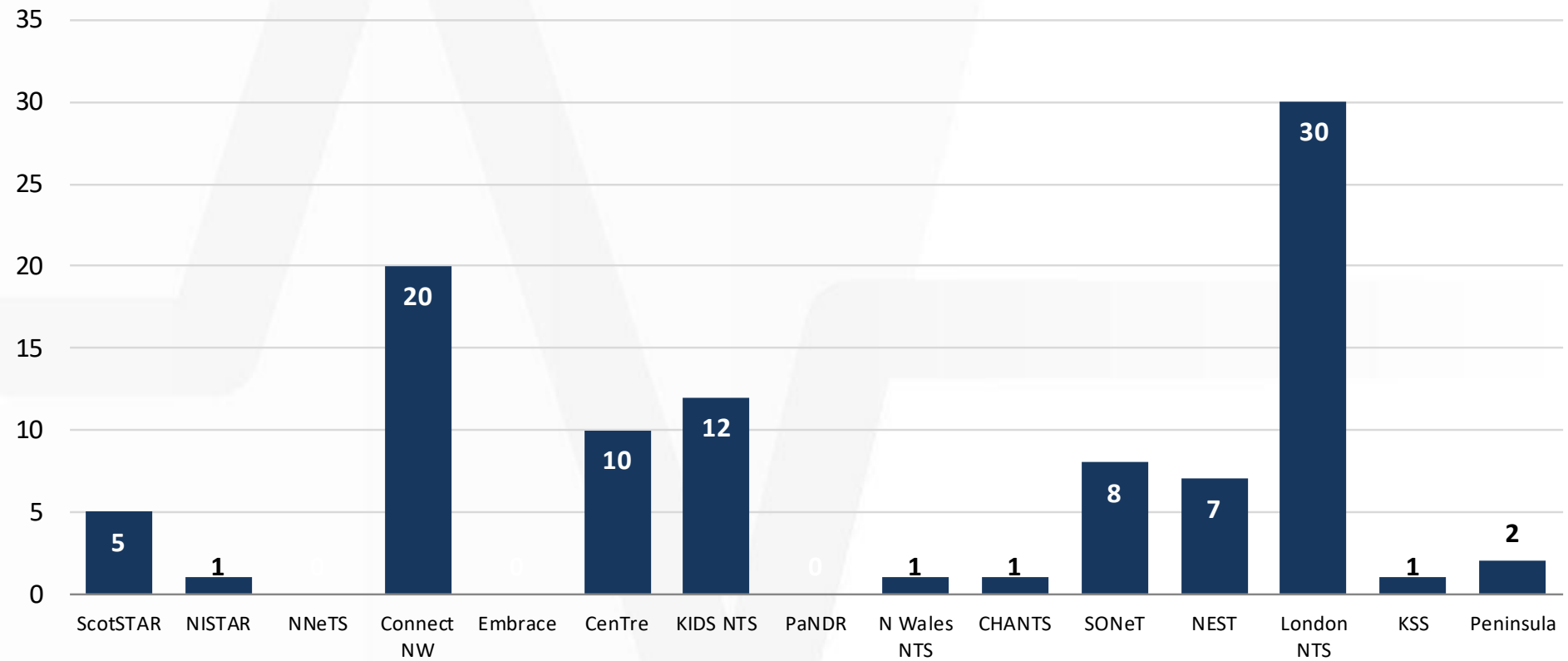
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Ventilated transfers as percentage of total transfers, by team 2019 to 2021/22



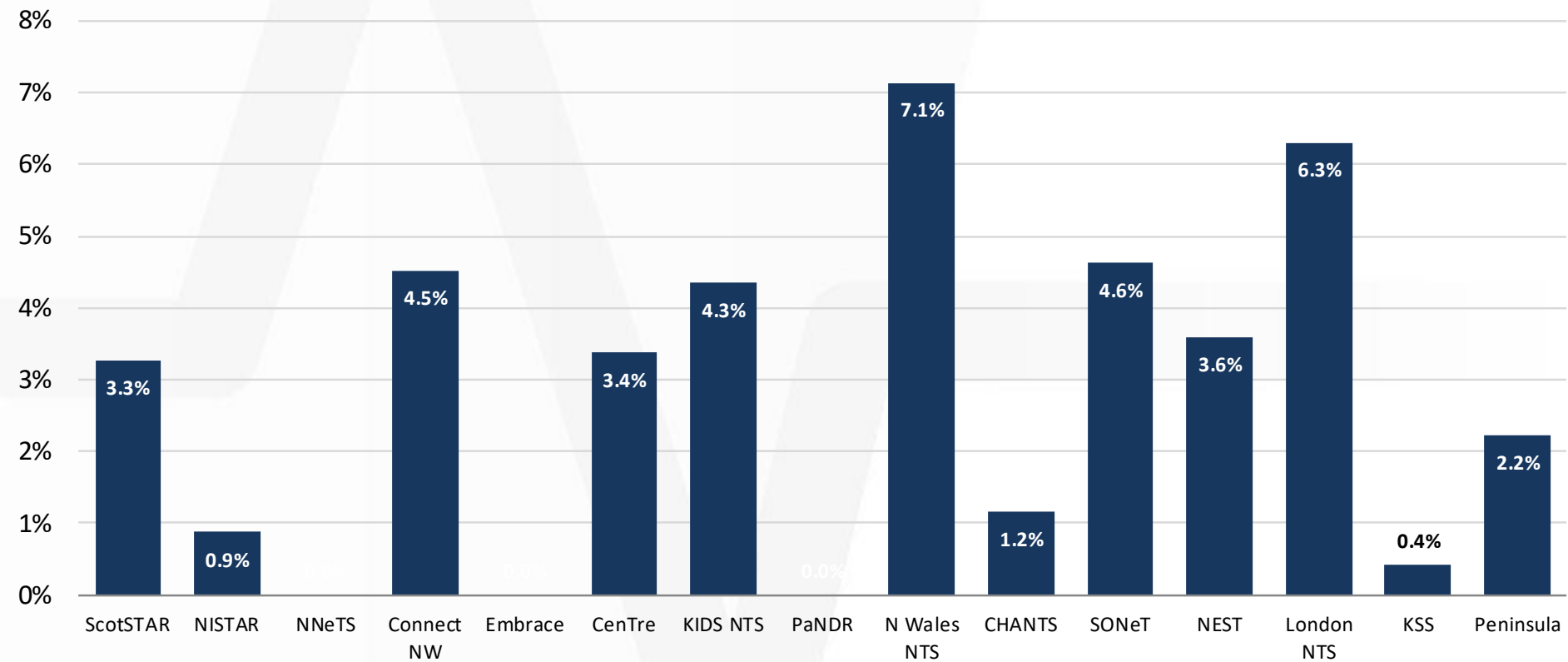
HFOV Transfers/team Apr 2021 to Mar 2022



HFOV Transfers as a percentage of ventilated transfers, by team Apr 2021 to Mar 2022



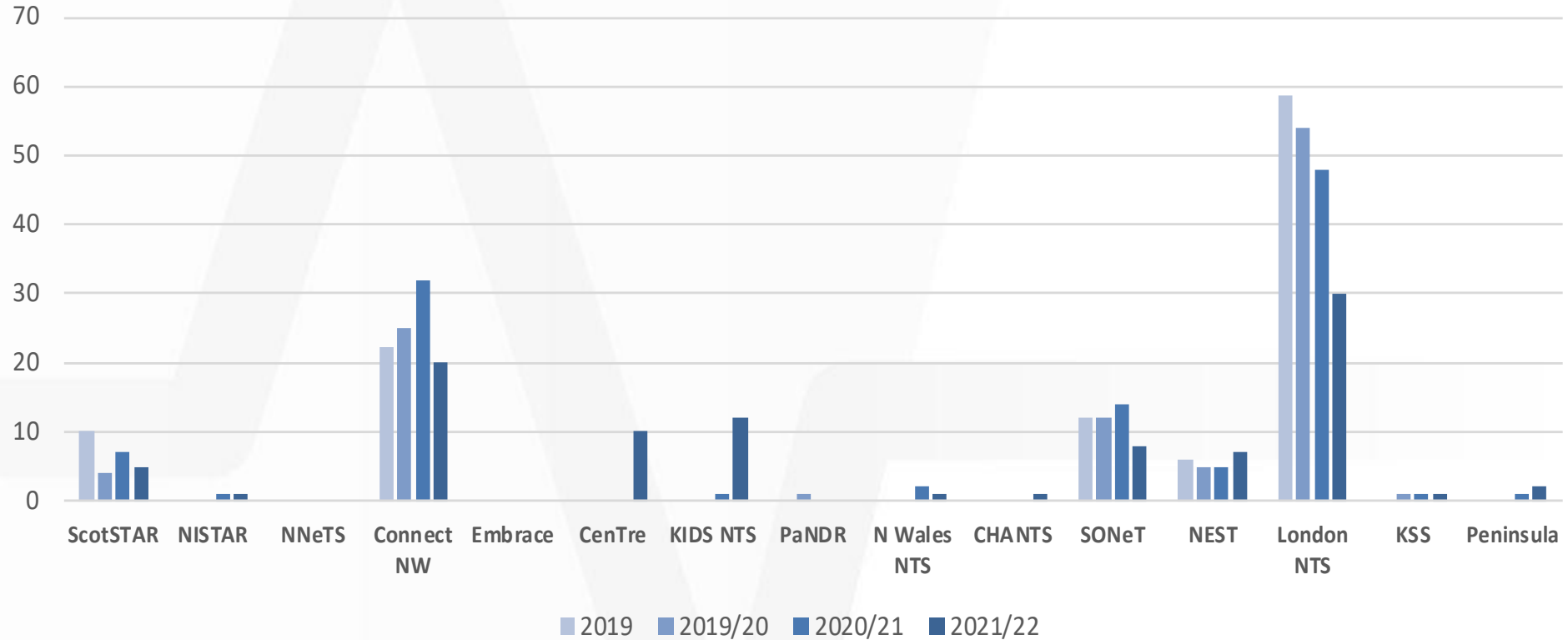
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Trends in numbers on HF0V by team, 2019 to 2021/22



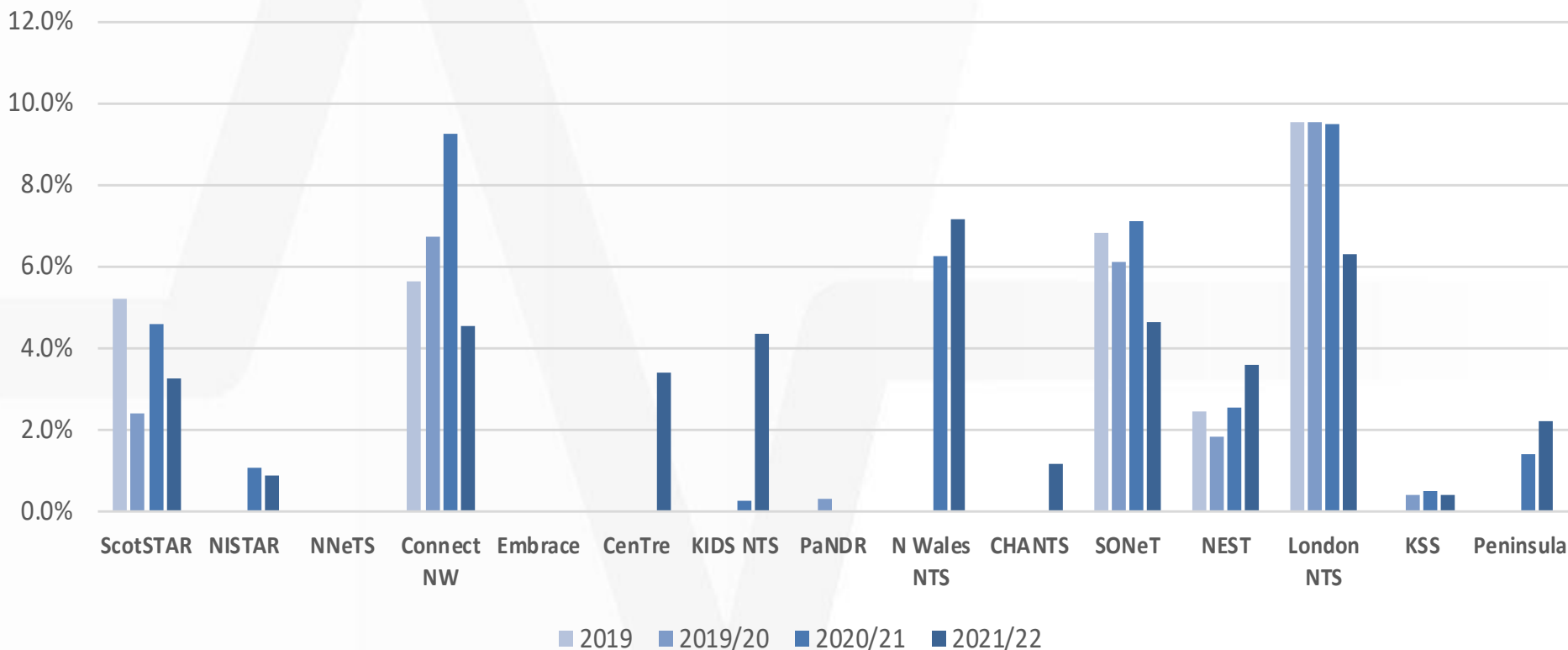
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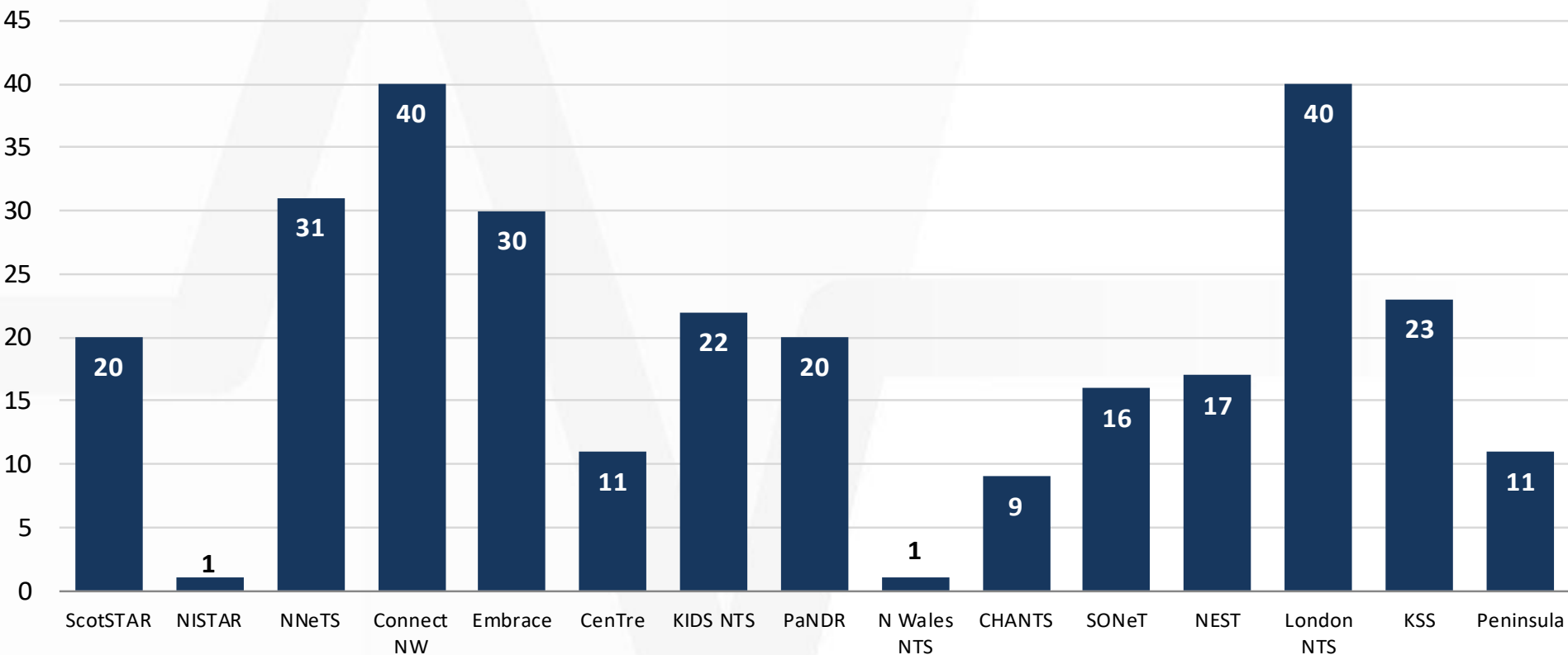
Trends in HFOV transfers as a percentage of ventilated transfers by team 2019 to 2021/22



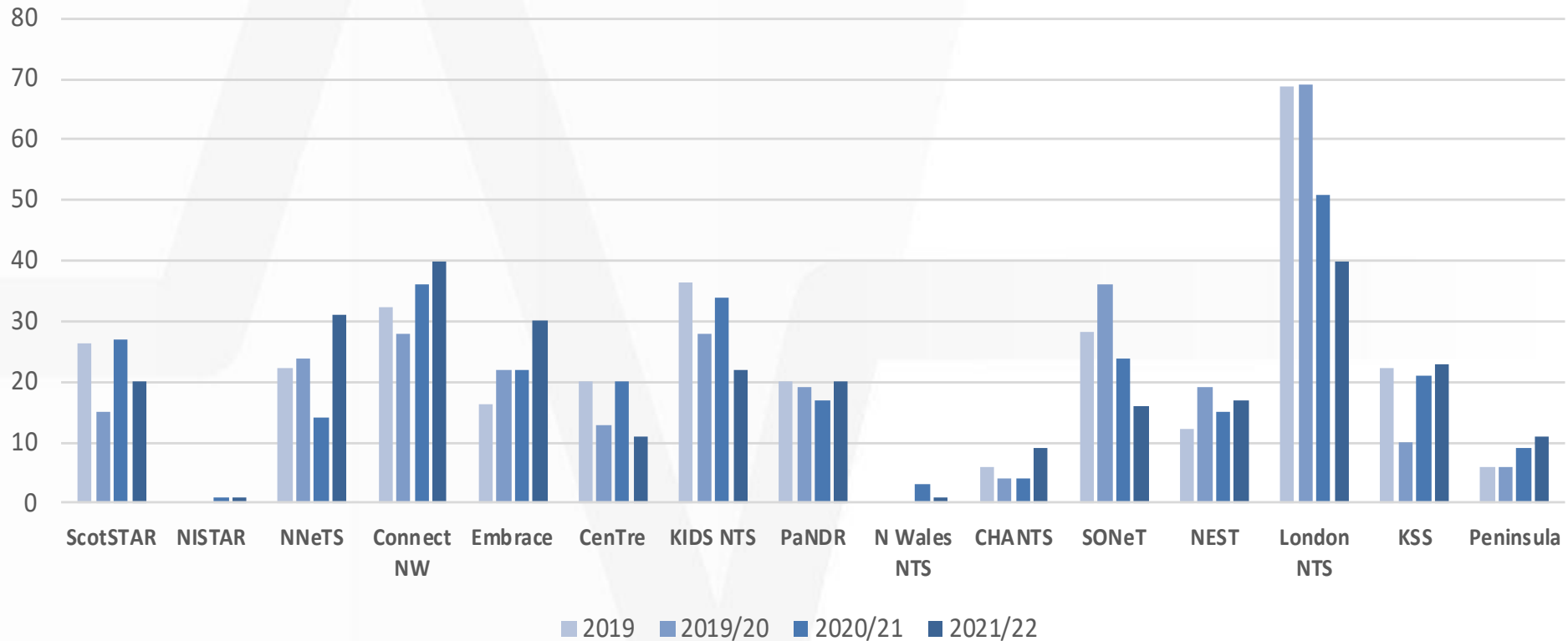
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Nitric Oxide Transfers/team Apr 2021 to Mar 2022



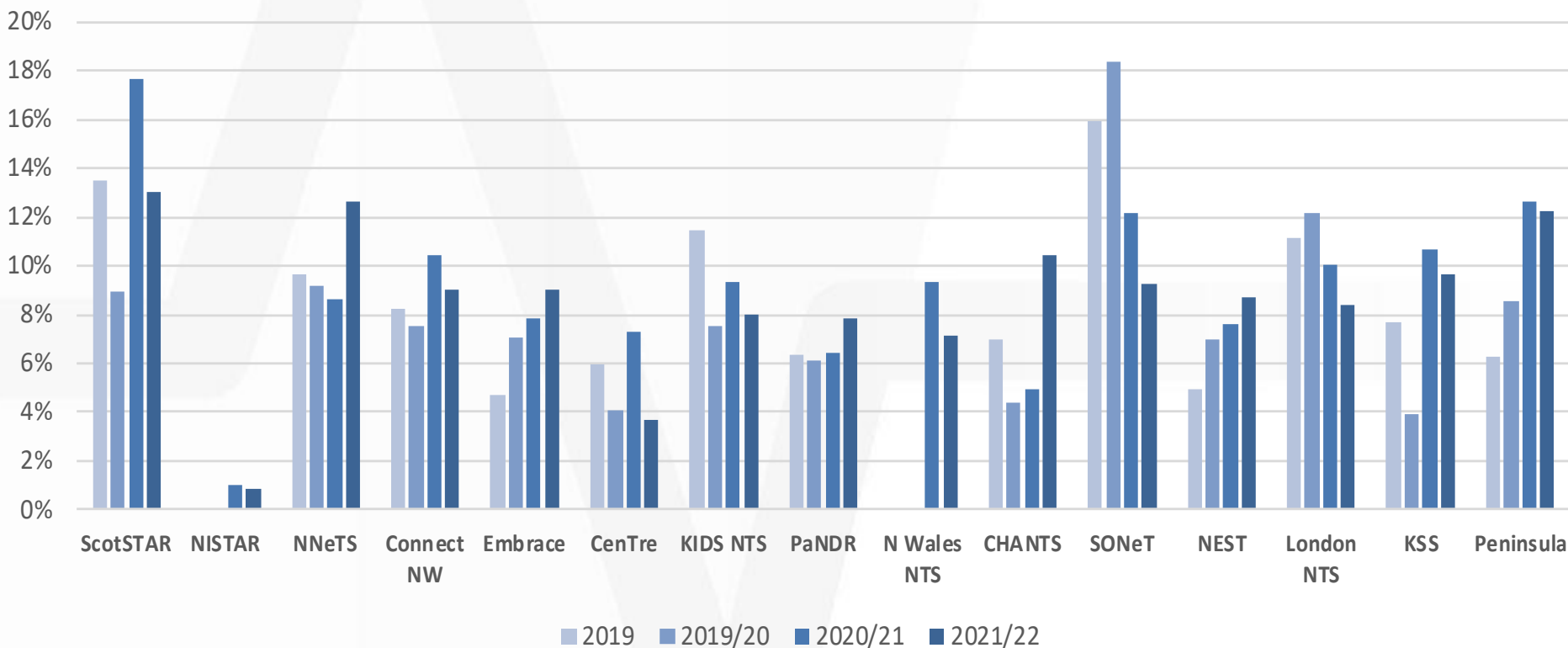
Trends in numbers on Nitric Oxide by team, 2019 to 2021/22



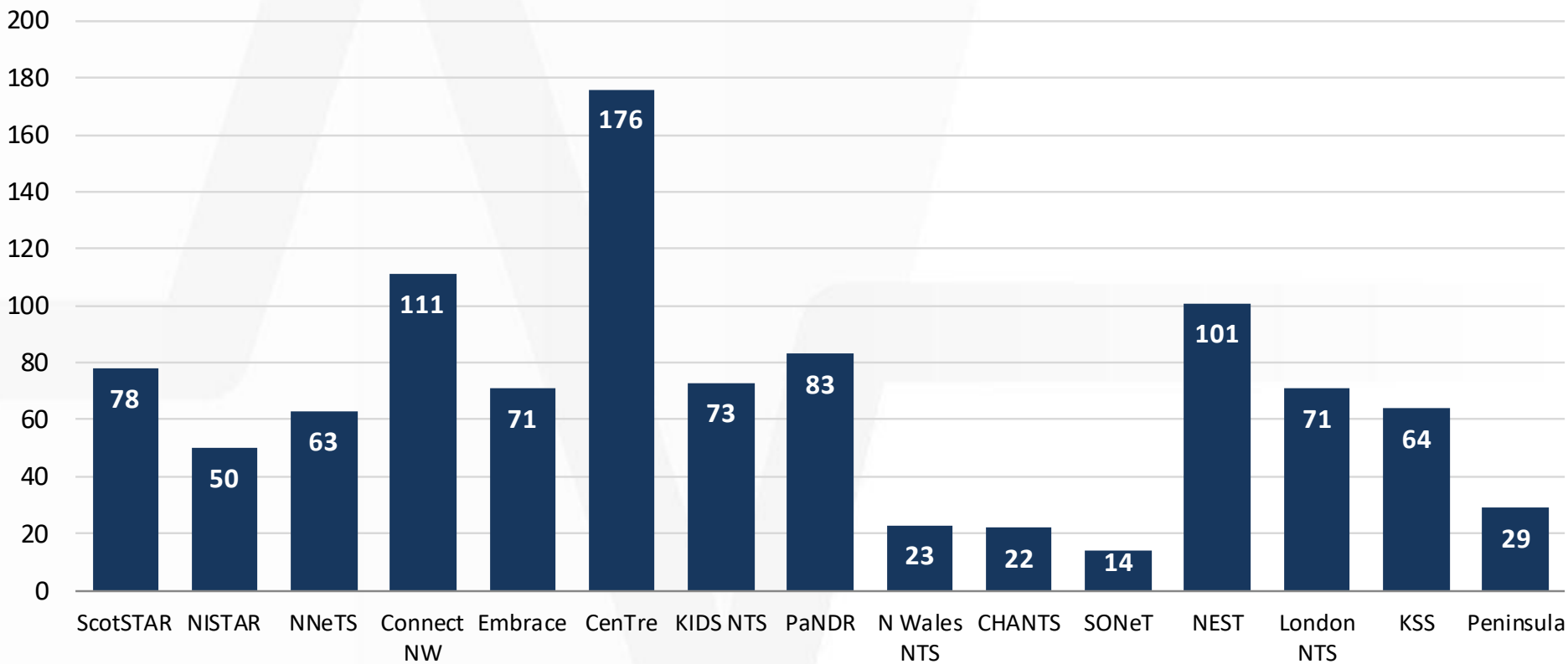
Trends in Nitric Oxide transfers as a percentage of ventilated transfers by team 2019 to 2021/22



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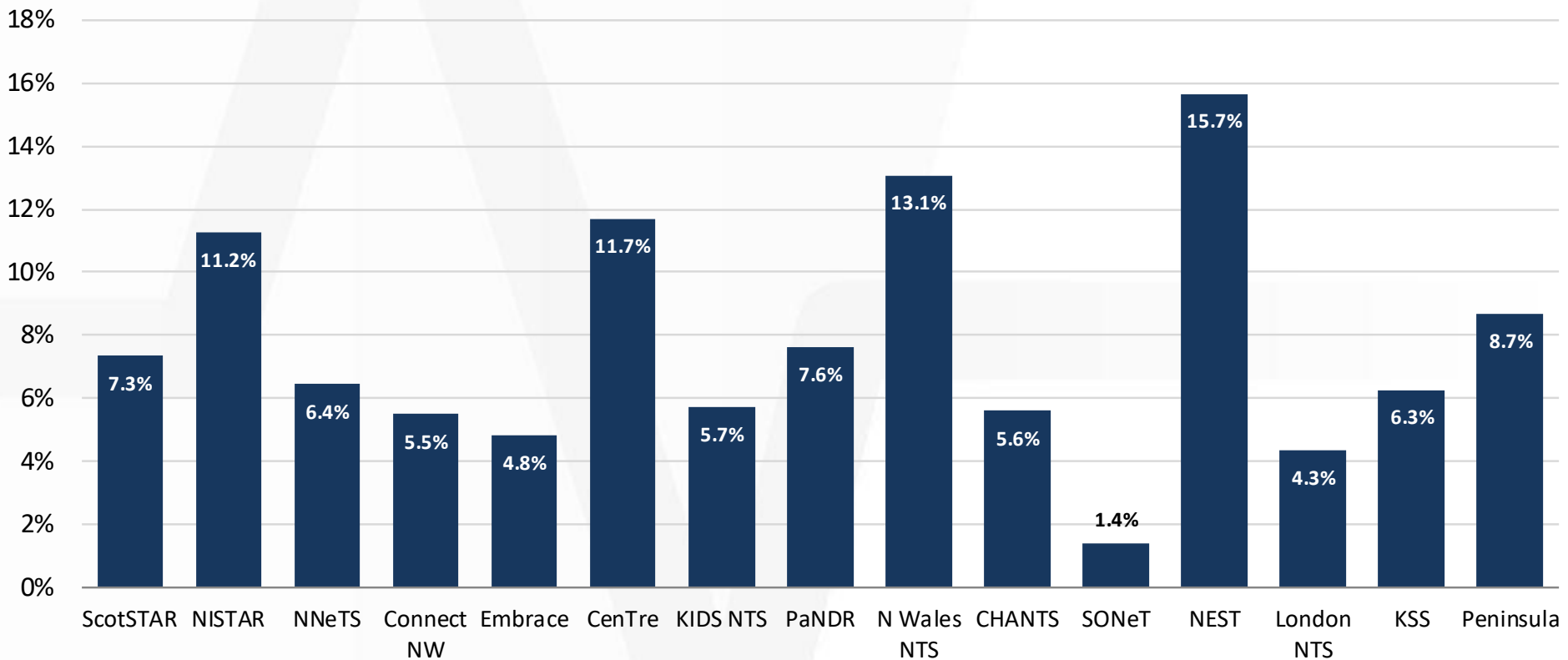
CPAP Transfers/team Apr 2021 to Mar 2022



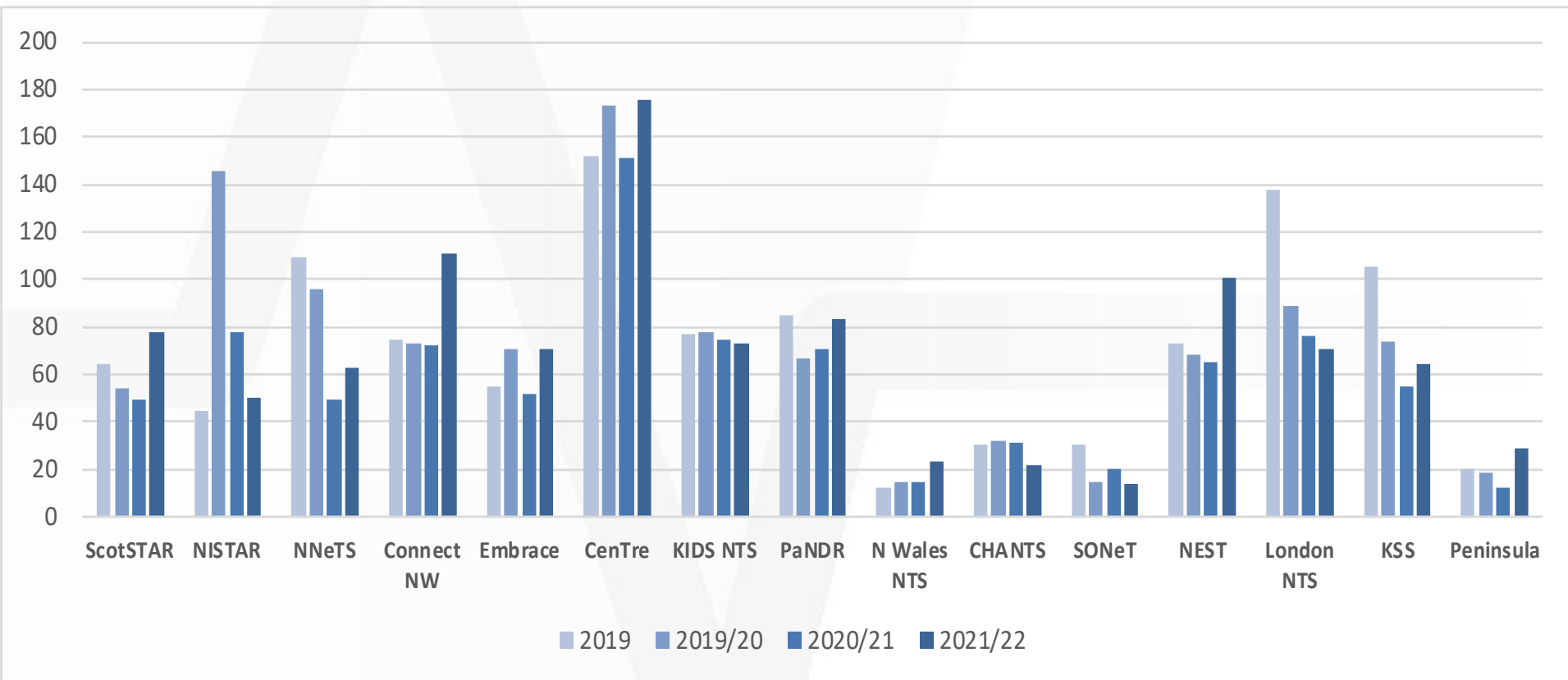
CPAP Transfers as a percentage of total transfers, by team Apr 2021 to Mar 2022



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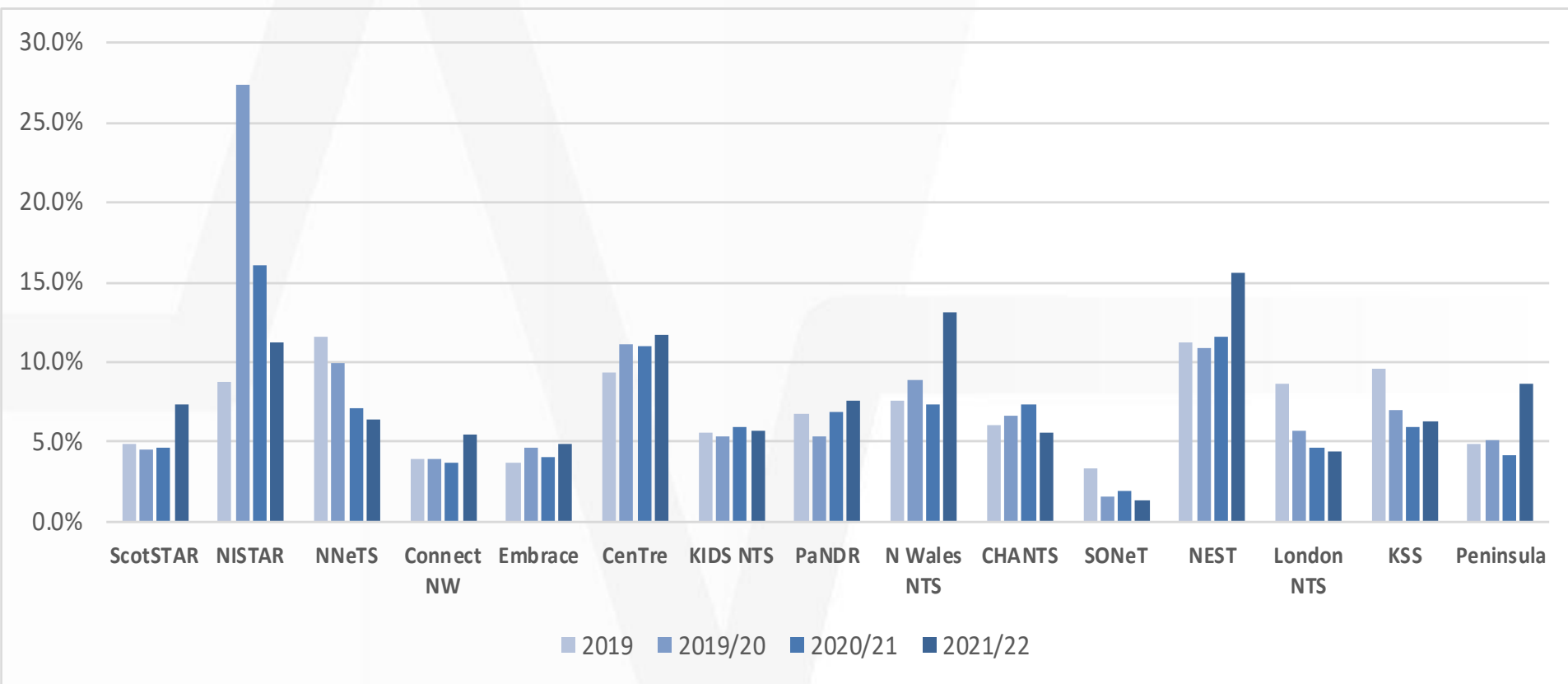
Trends in numbers on CPAP by team, 2019 to 2021/22



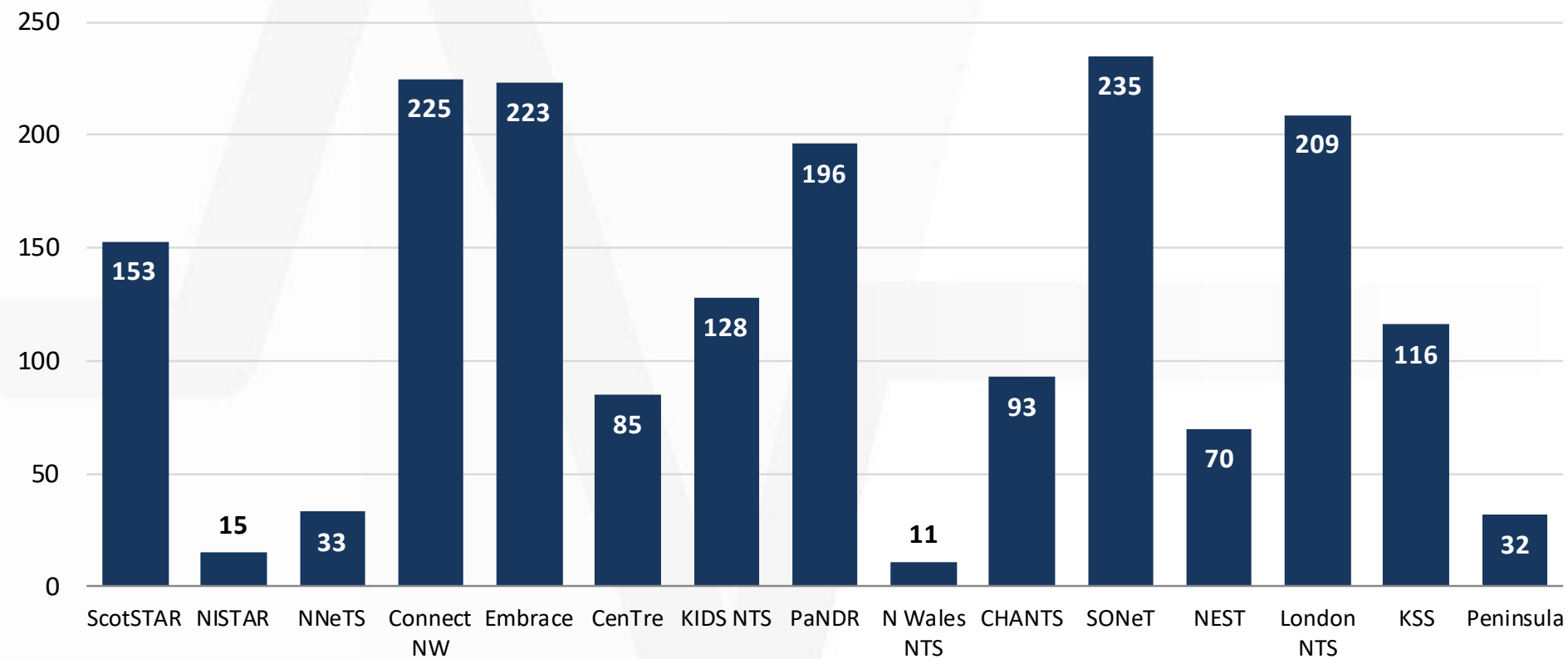
Trends in CPAP transfers as a percentage of total transfers by team 2019 to 2021/22



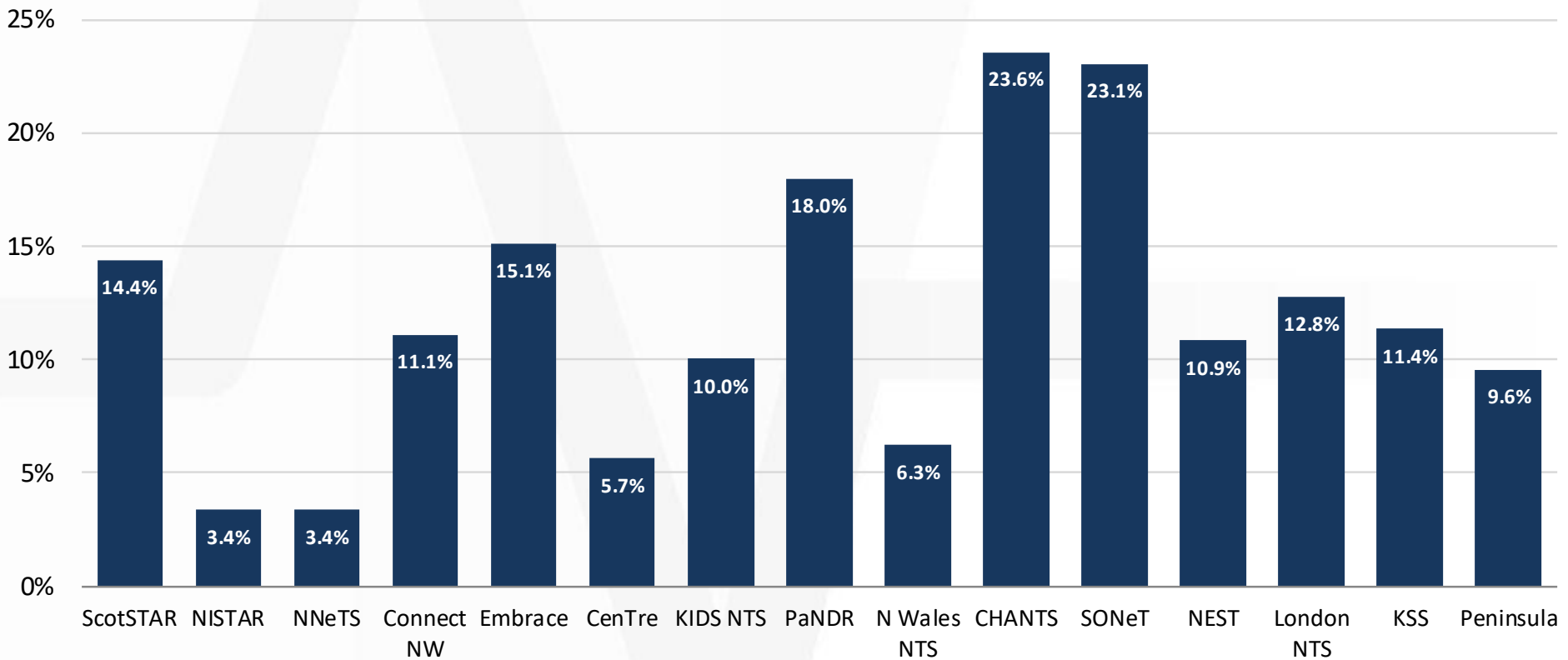
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High-flow Transfers/team Apr 2021 to Mar 2022



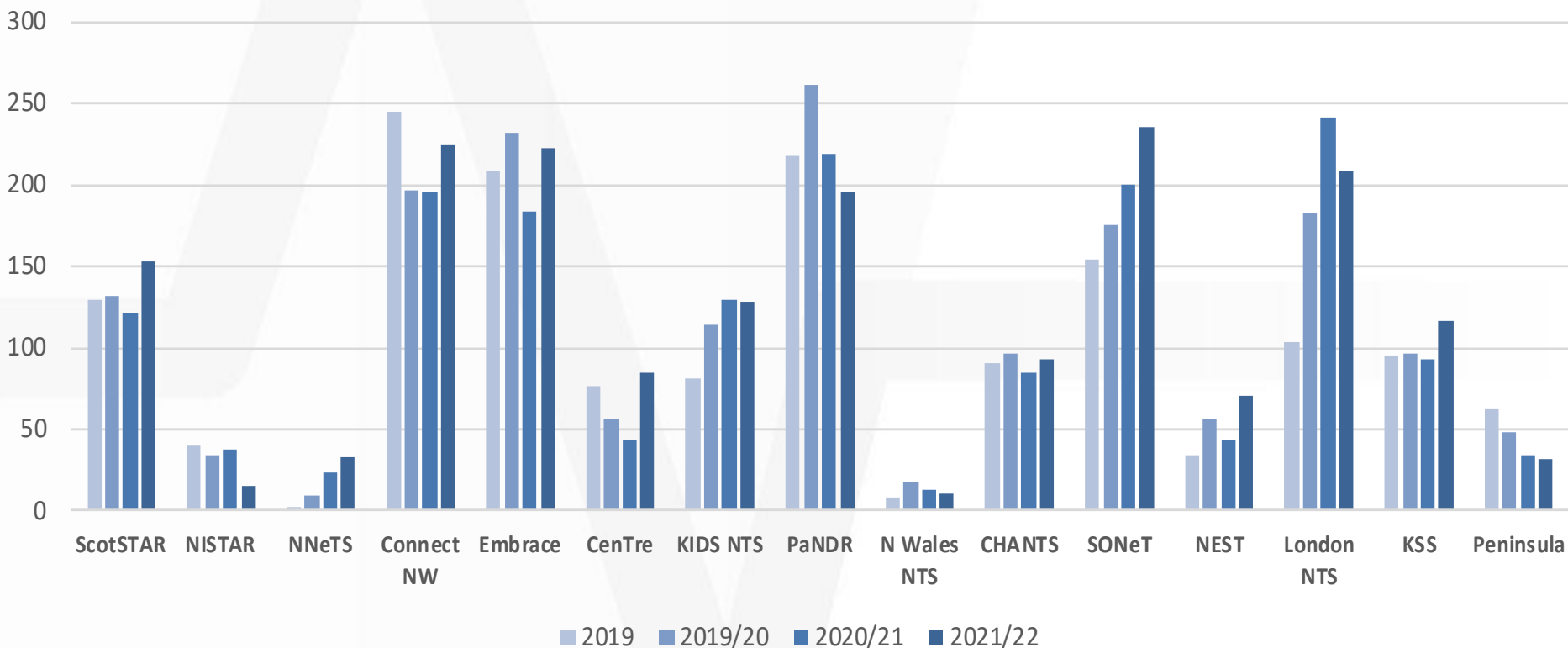
High-flow Transfers as a percentage of total transfers, by team Apr 2021 to Mar 2022



Trends in numbers on High-flow by team, 2019 to 2021/22



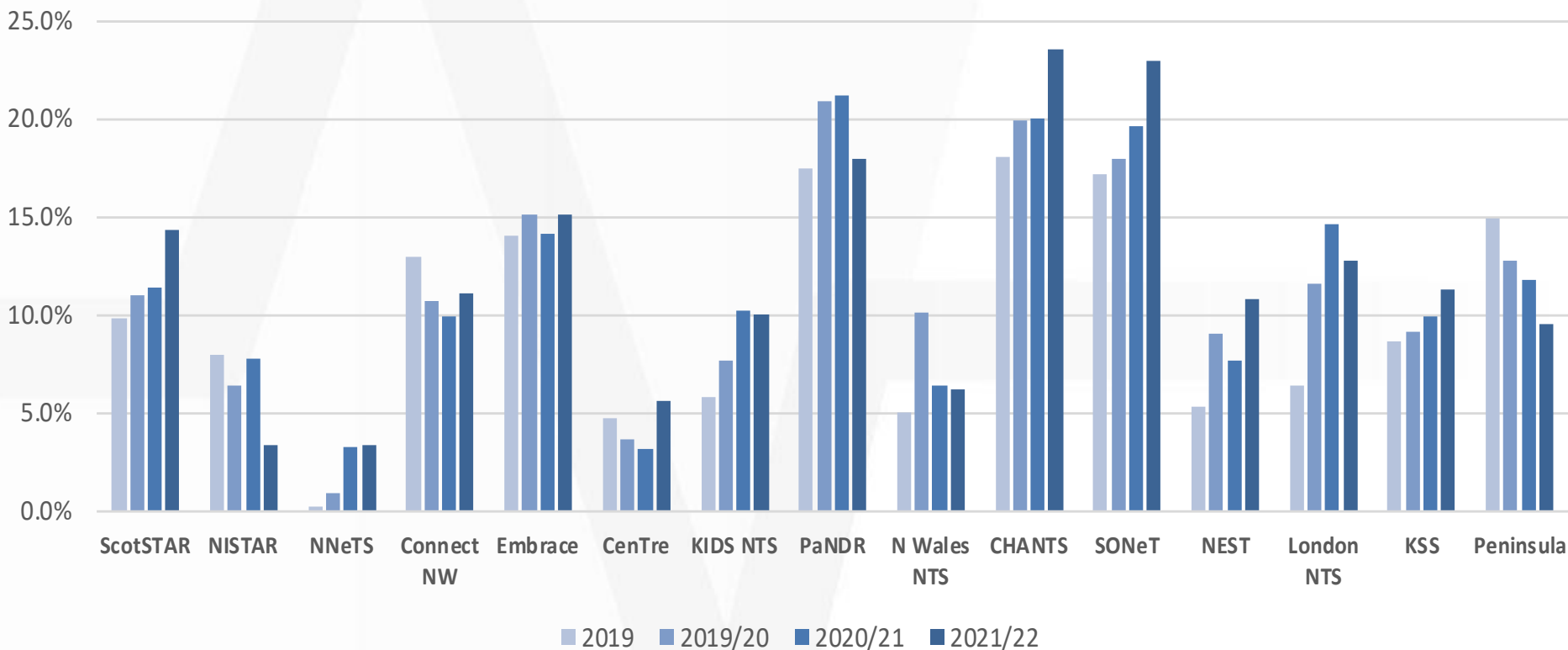
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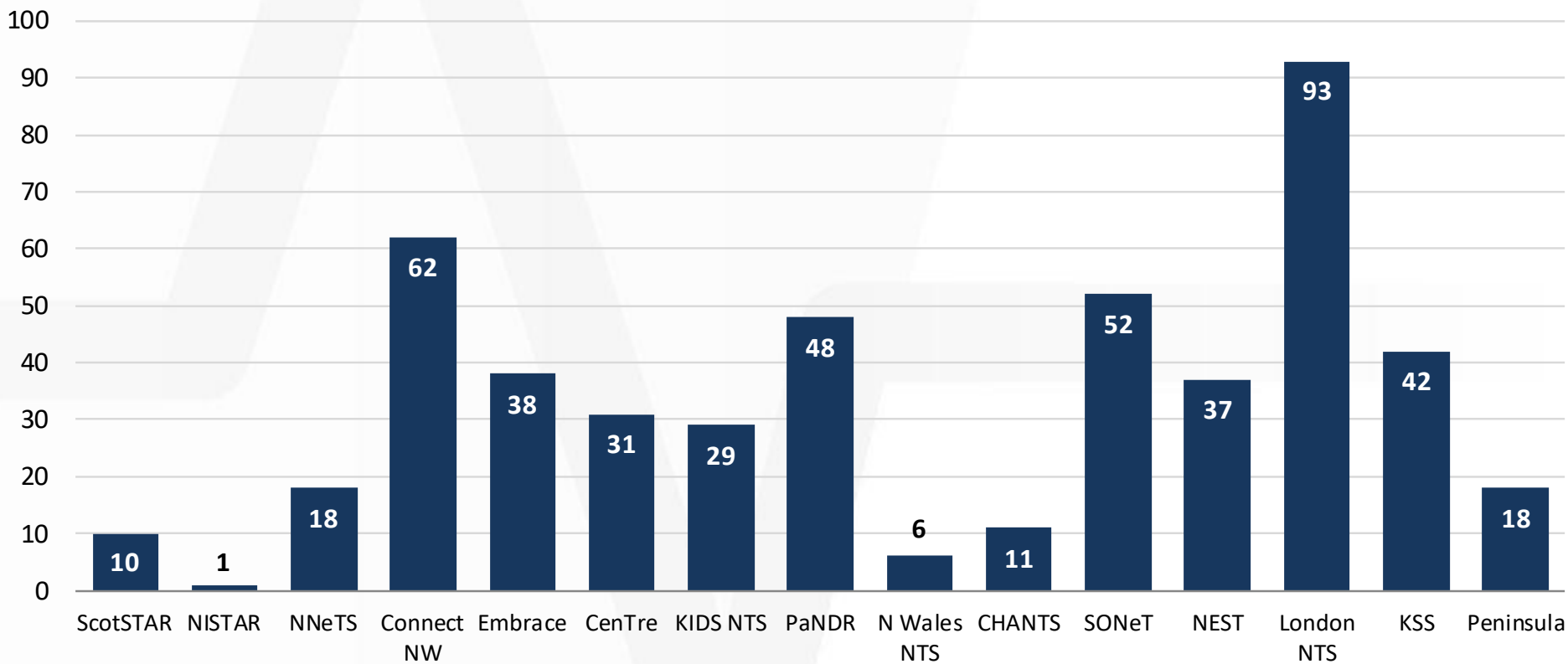
Trends in High-flow transfers as a percentage of total transfers by team 2019 to 2021/22



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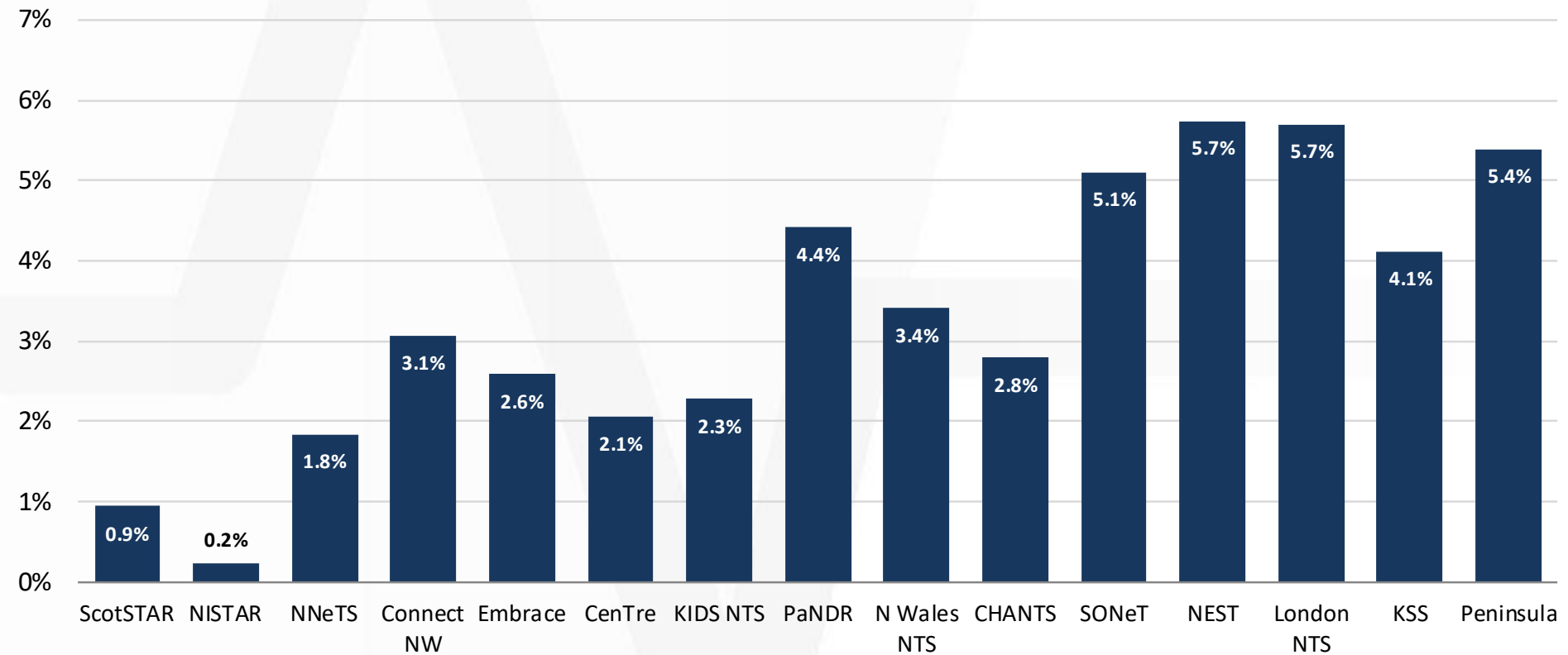
Cooling Transfers/team Apr 2021 to Mar 2022



Cooling Transfers as a percentage of total transfers, by team Apr 2021 to Mar 2022



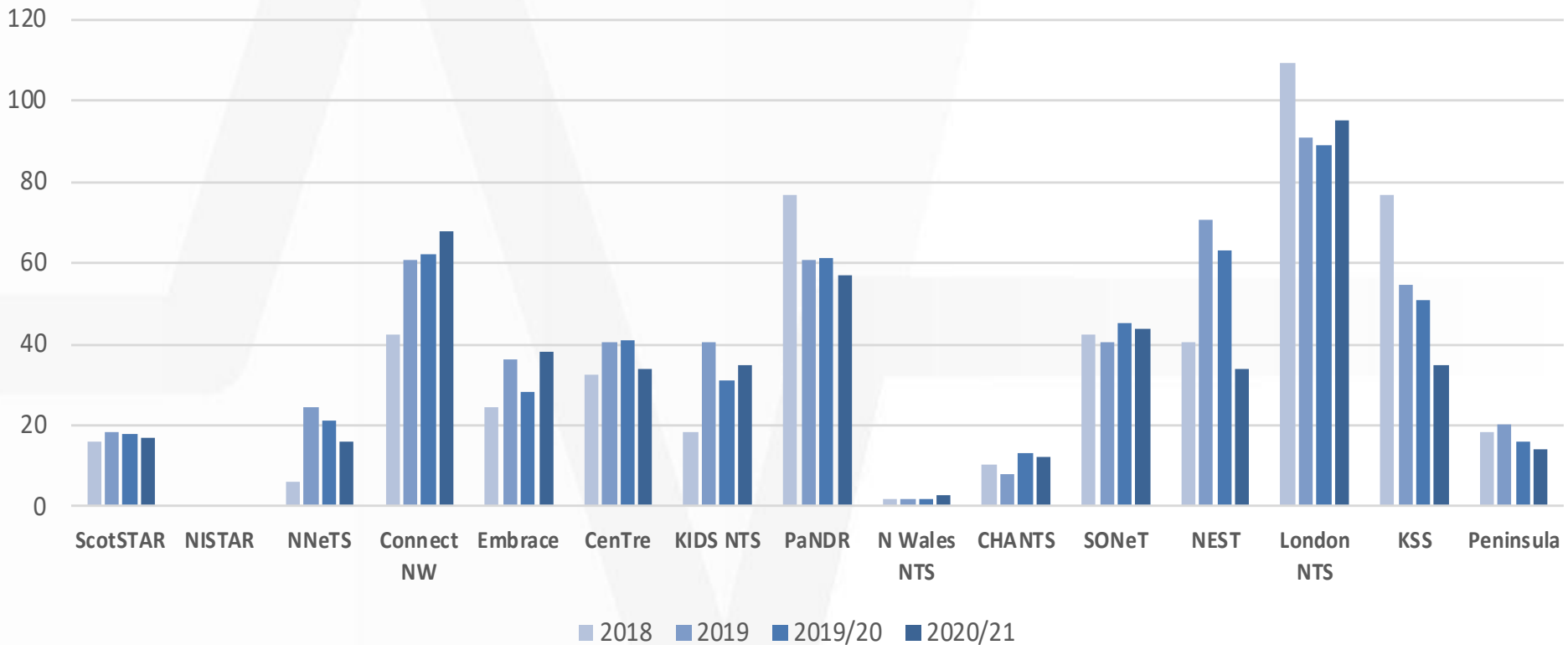
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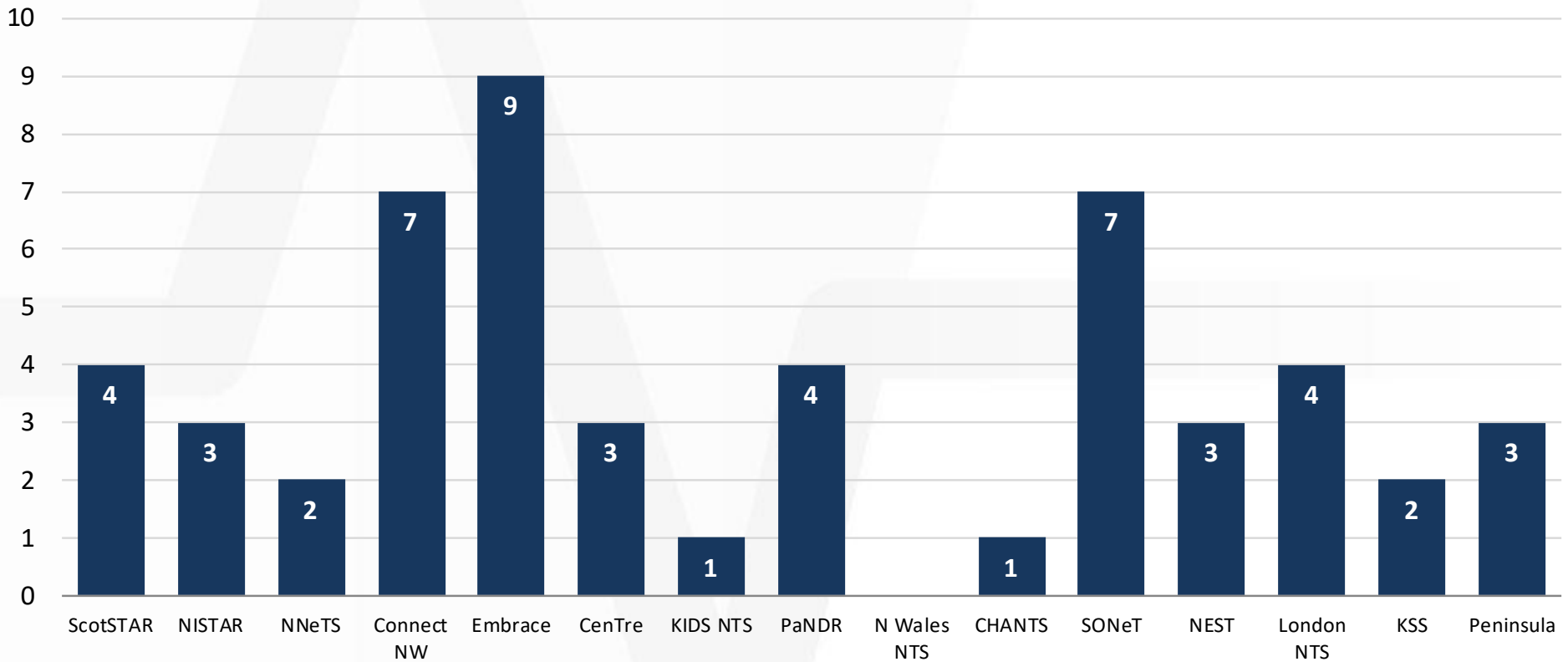
Trends in numbers on Cooling by team, 2019 to 2021/22



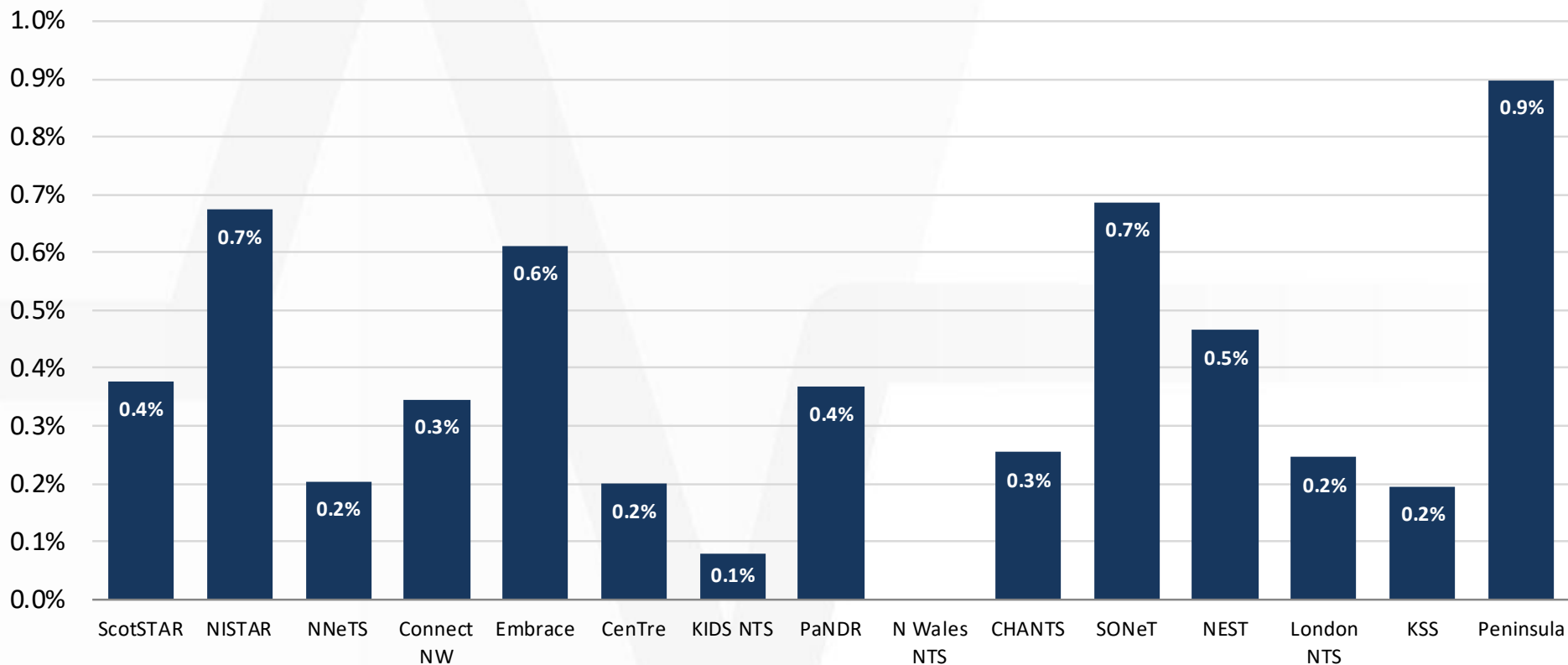
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Transfers for Palliative care by team Apr 2021 to Mar 2022



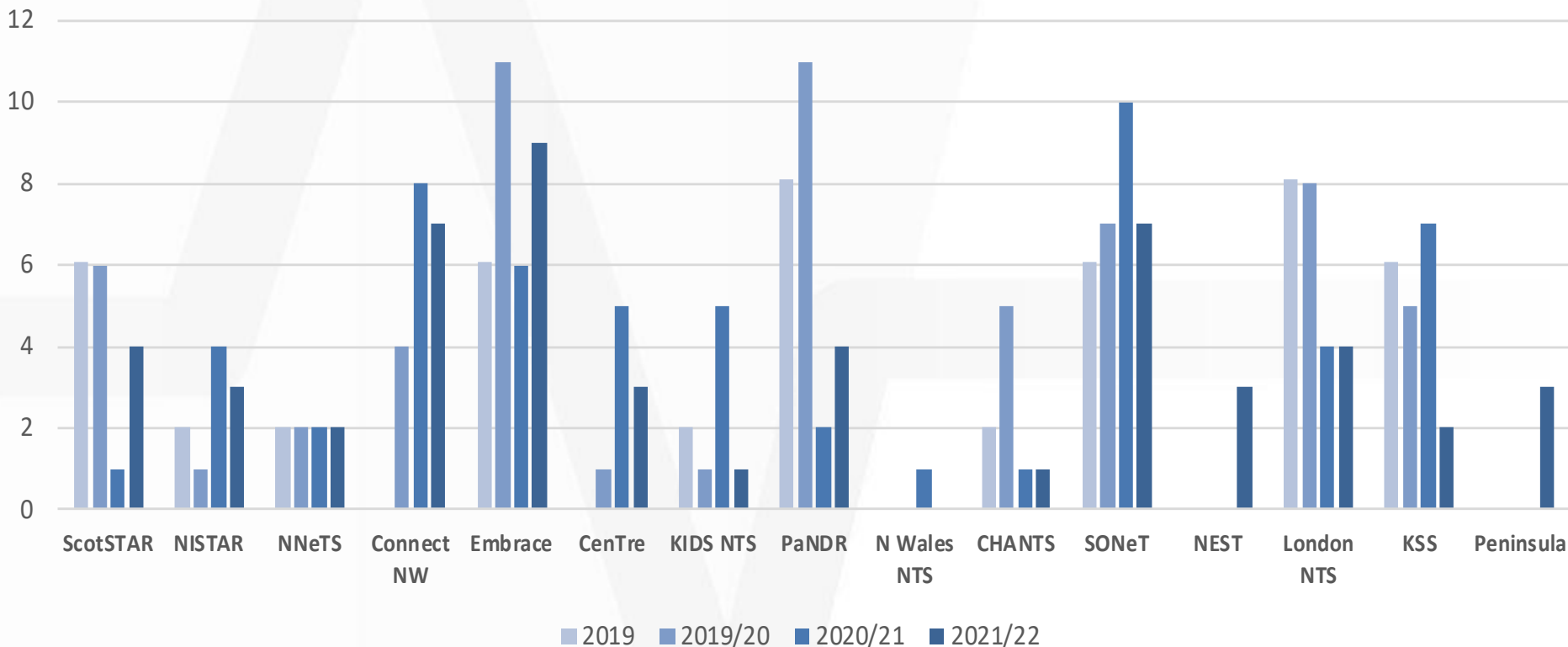
Transfers for Palliative care as a percentage of total transfers, by team Apr 2021 to Mar 2022



Trends in numbers of transfers for Palliative care by team, 2019 to 2021/22



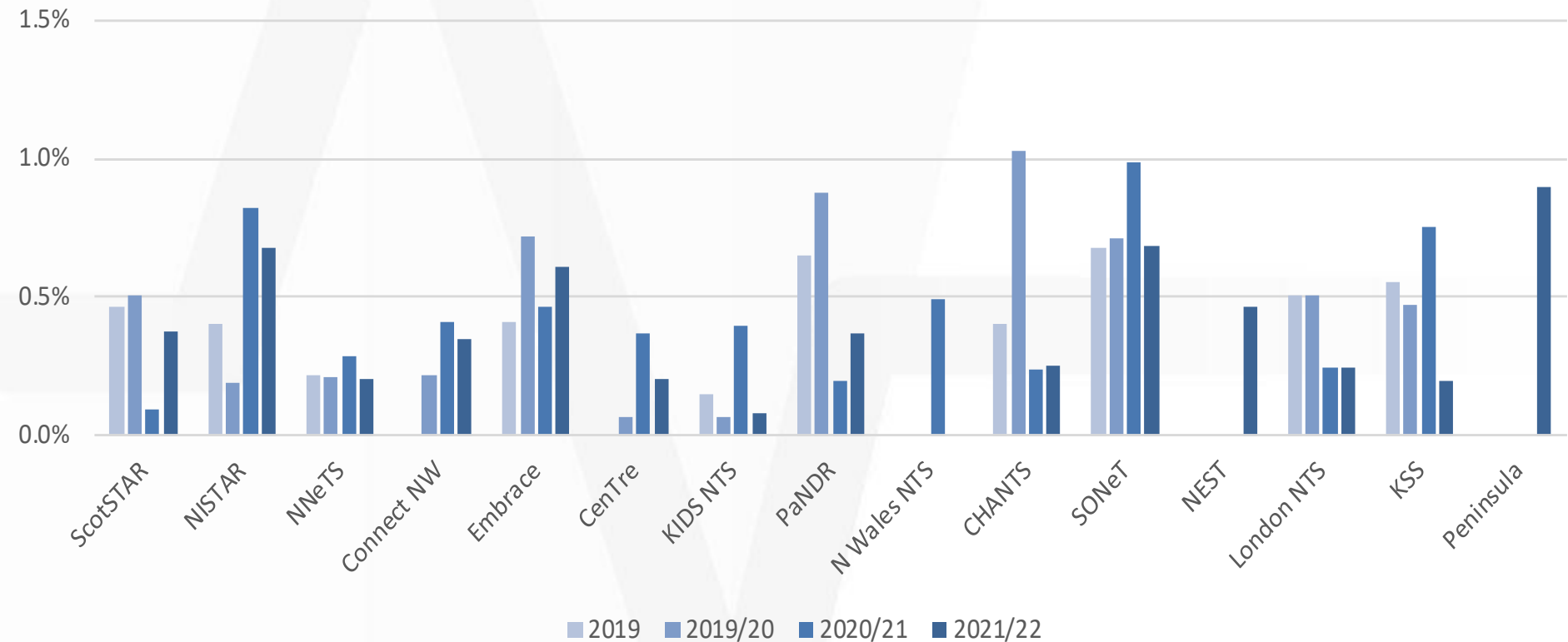
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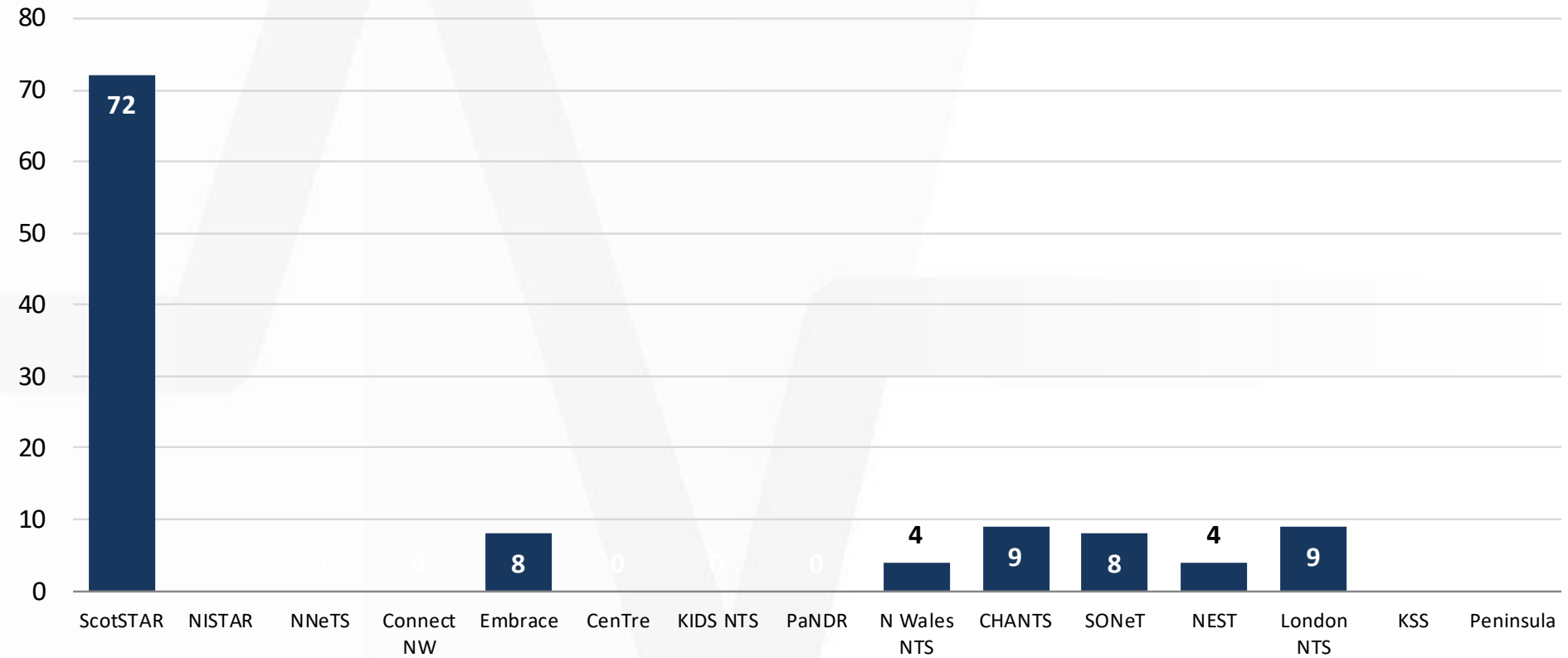
Trends in Palliative transfers as a percentage of total transfers by team 2019 to 2021/22



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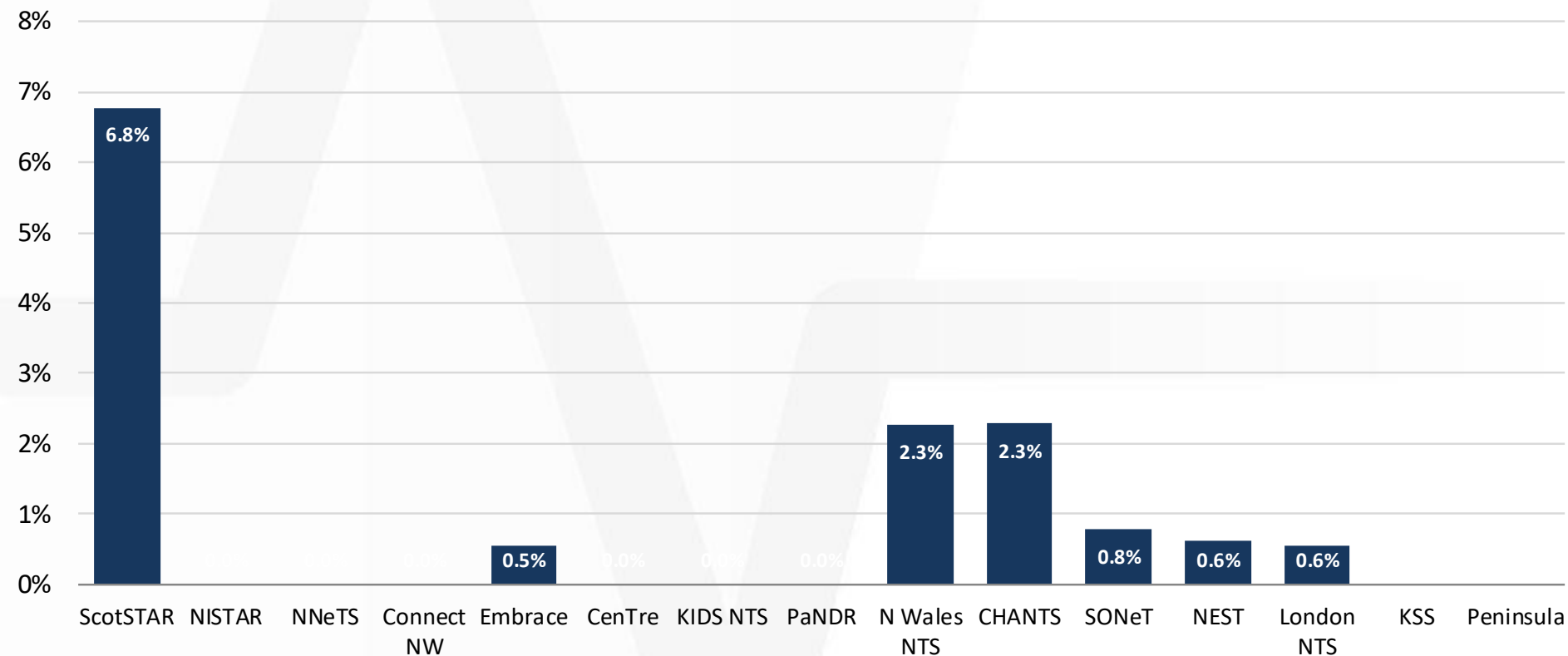
Air Transfers/team Apr 2021 to Mar 2022



Air Transfers as a percentage of total transfers, by team Apr 2021 to Mar 2022



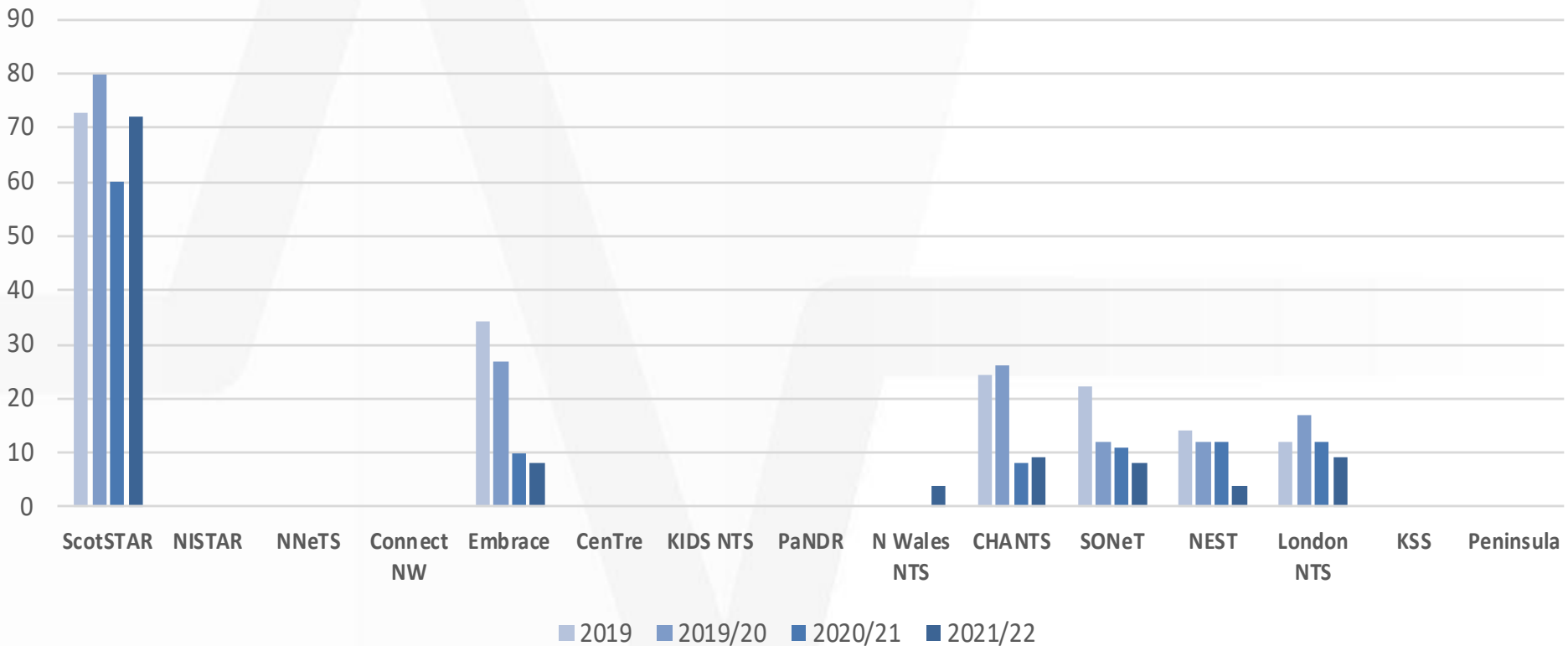
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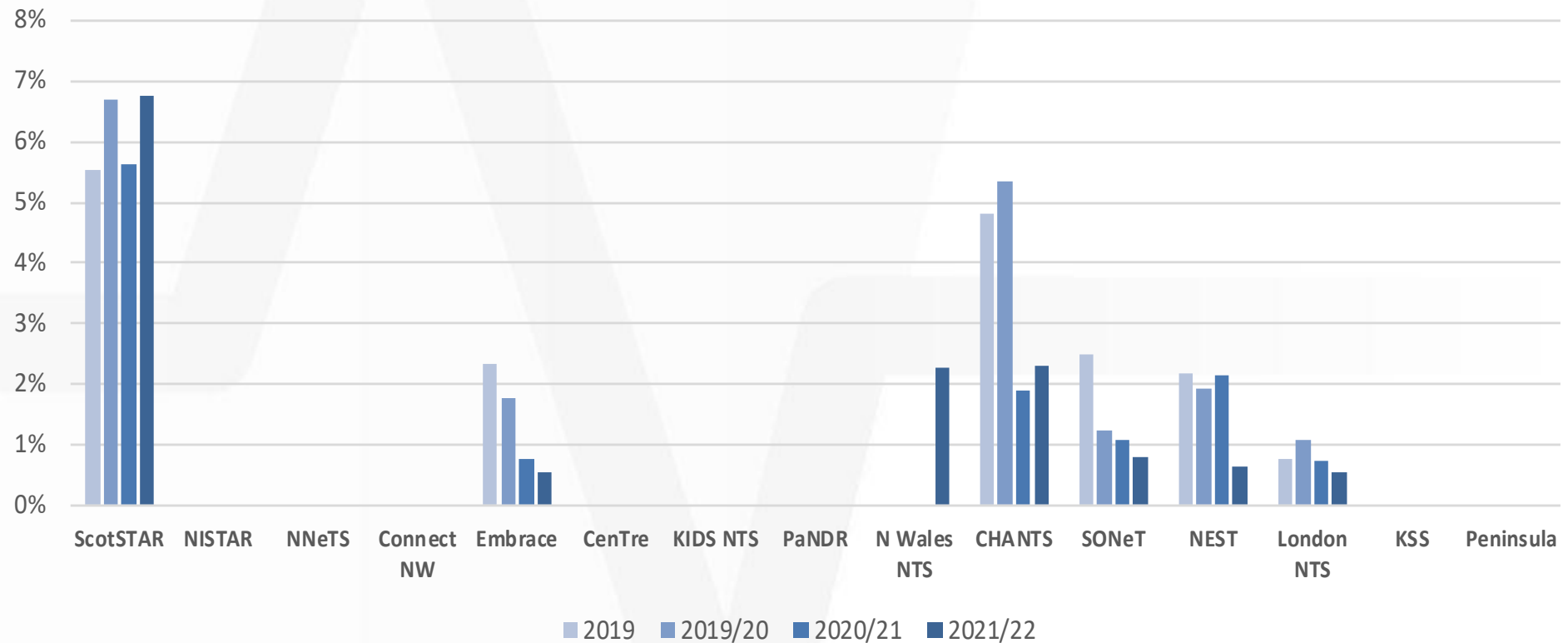
Trends in numbers of Air transfers by team, 2019 to 2021/22



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Trends in Air transfers as a percentage of total transfers by team 2019 to 2021/22



Premature Newborn Infant Workload



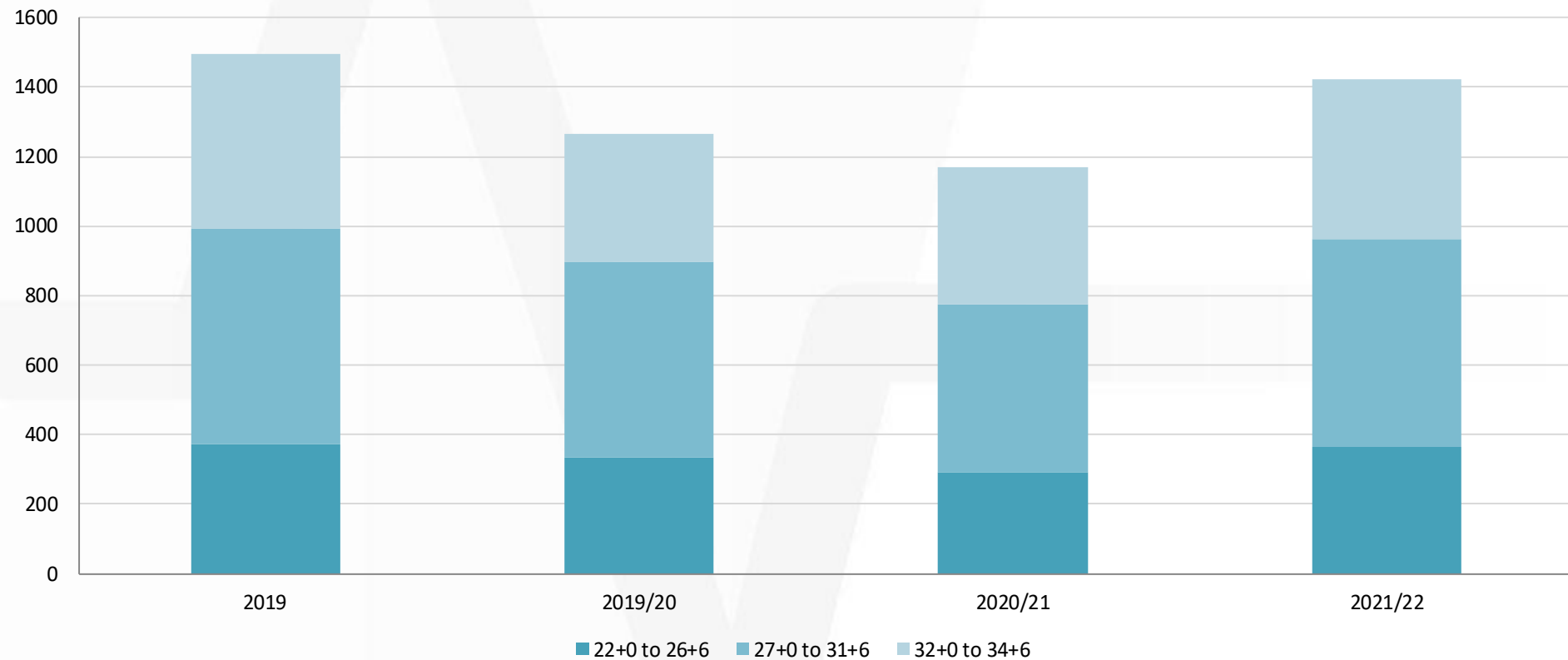
Data on

- Transfers on the first 3 days of birth
 - 22⁺⁰ weeks to 26⁺⁶ weeks (from 2019/20)
 - 27⁺⁰ weeks to 31⁺⁶ weeks
 - 32⁺⁰ weeks to 36⁺⁶ weeks
- Operational reason for transfer
 - Uplift
 - Capacity
 - Repatriation

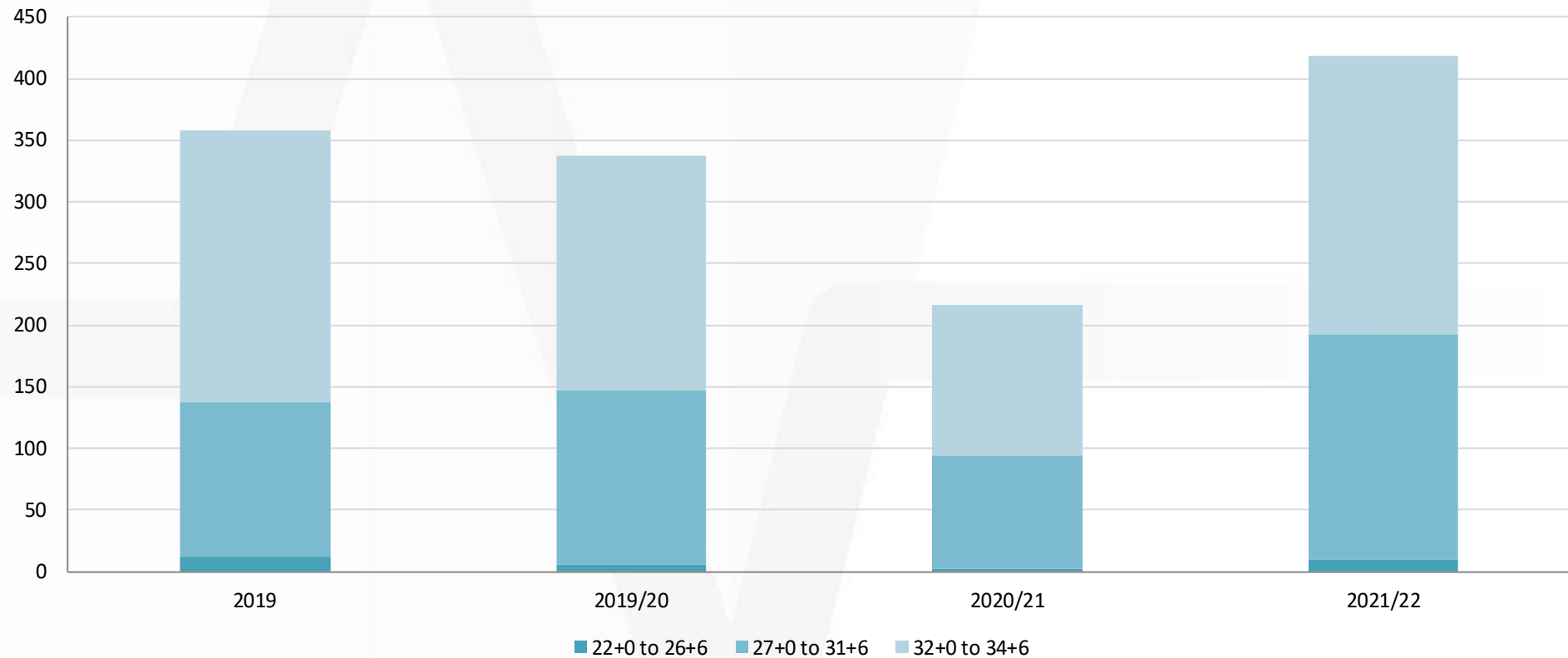
Premature infants transferred on the first 3 days of life for **Uplift of care** 2019 to 2021/22



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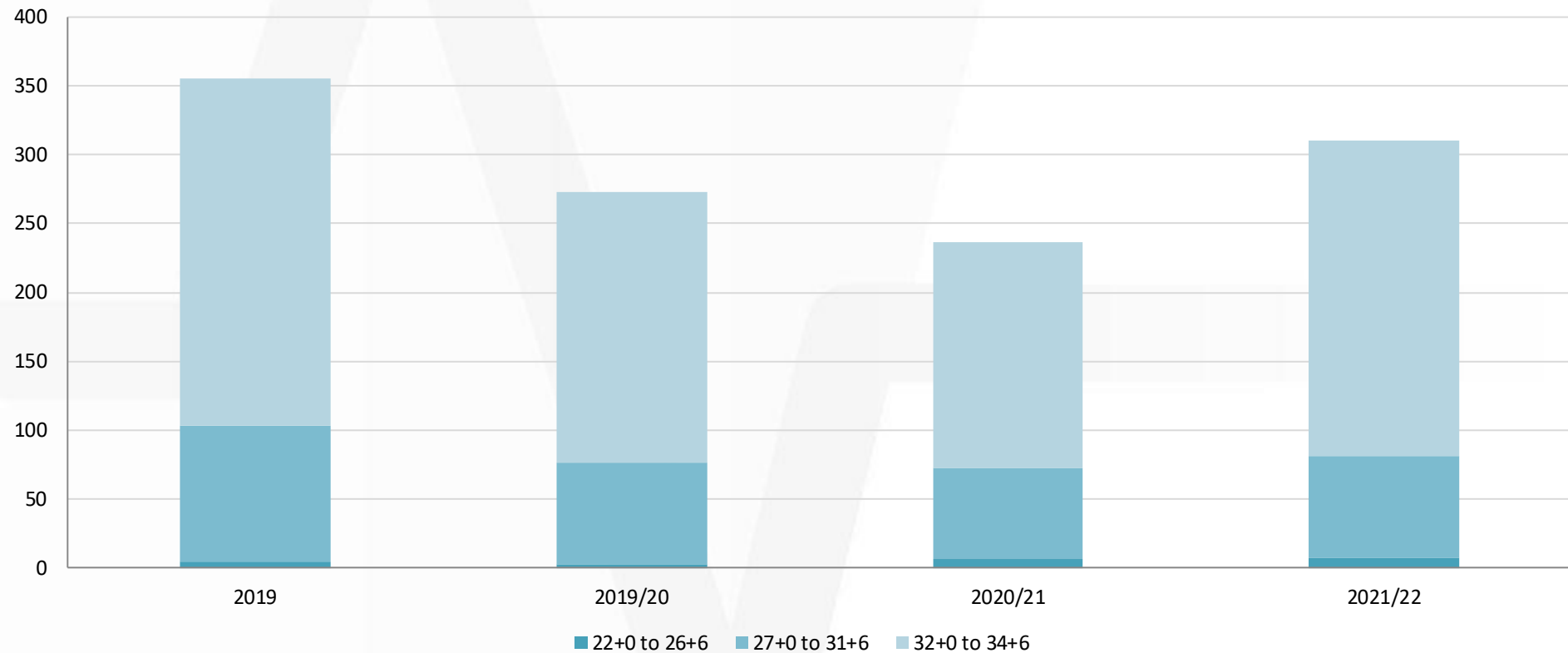
Premature infants transferred on the first 3 days of life for **Capacity** 2019 to 2021/22



Premature infants transferred on the first 3 days of life for **Repatriation** 2019 to 2021/22



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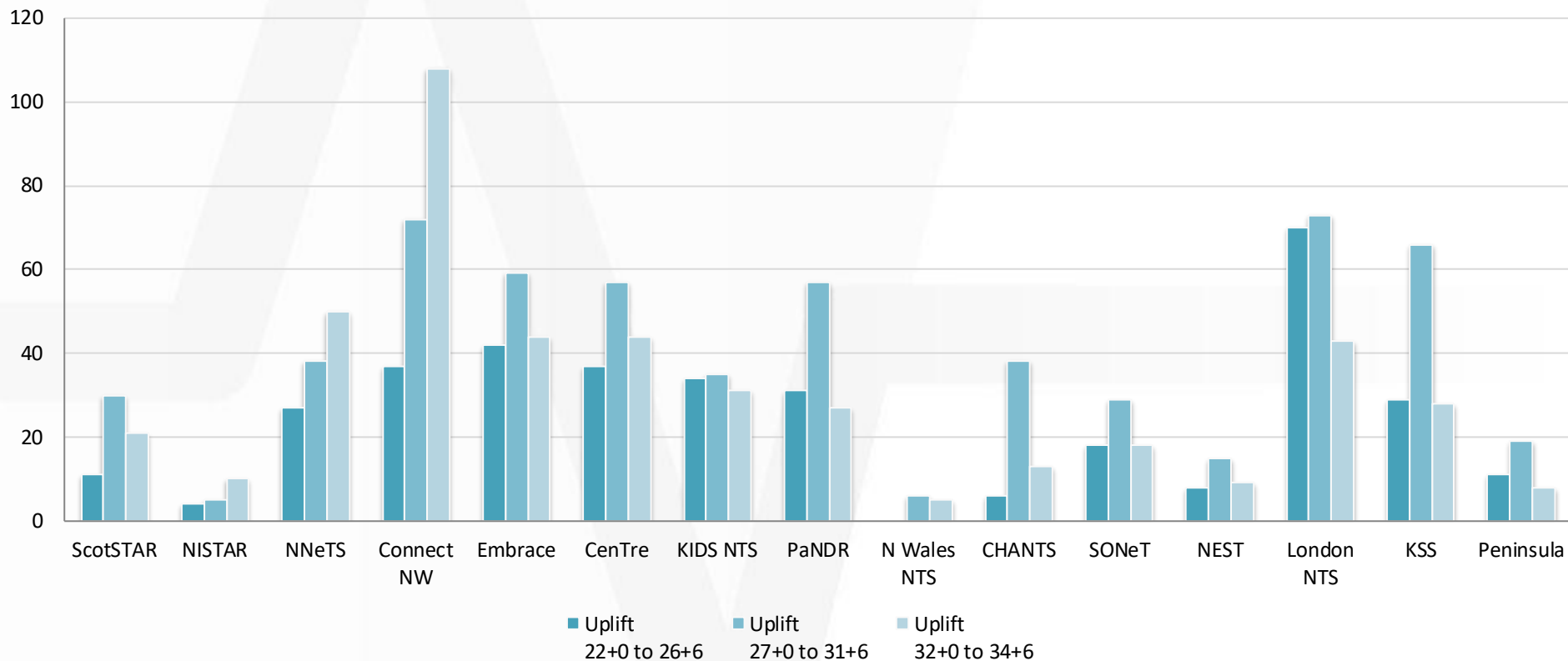
2021/22 Uplift transfers by team



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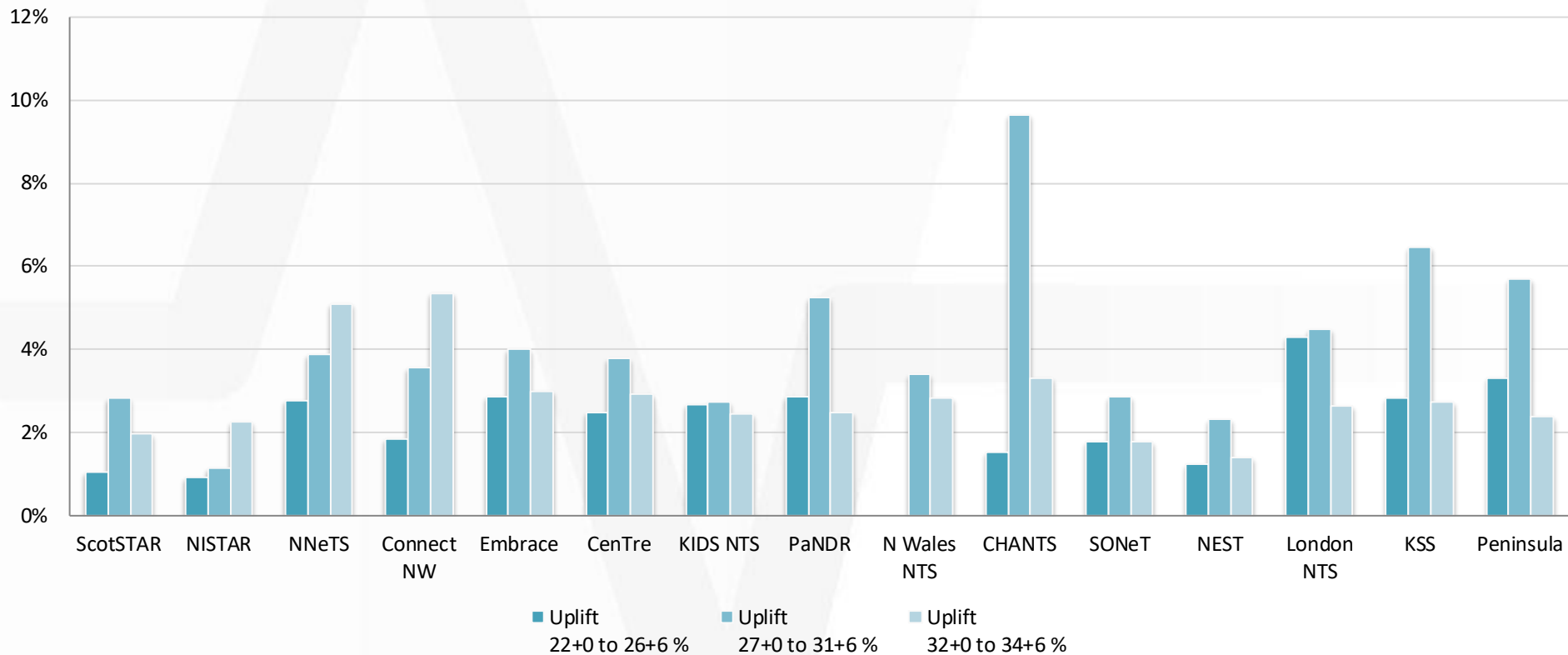


and gestation, 1st 3 days of life, 22-31⁺⁶ week infants



2021/22 Uplift transfers by Team and gestation as a percentage of total transfers

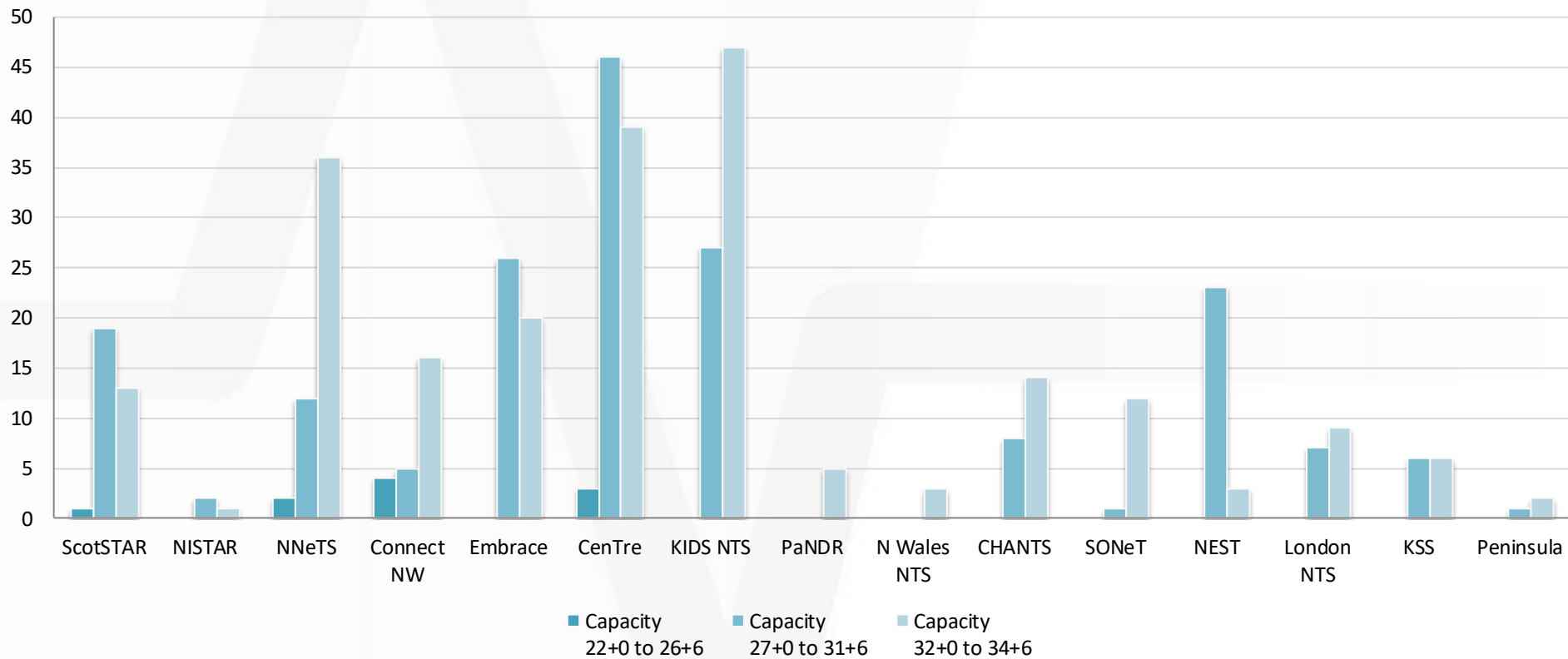
1st 3 days of life, 22-31⁺⁶ weeks



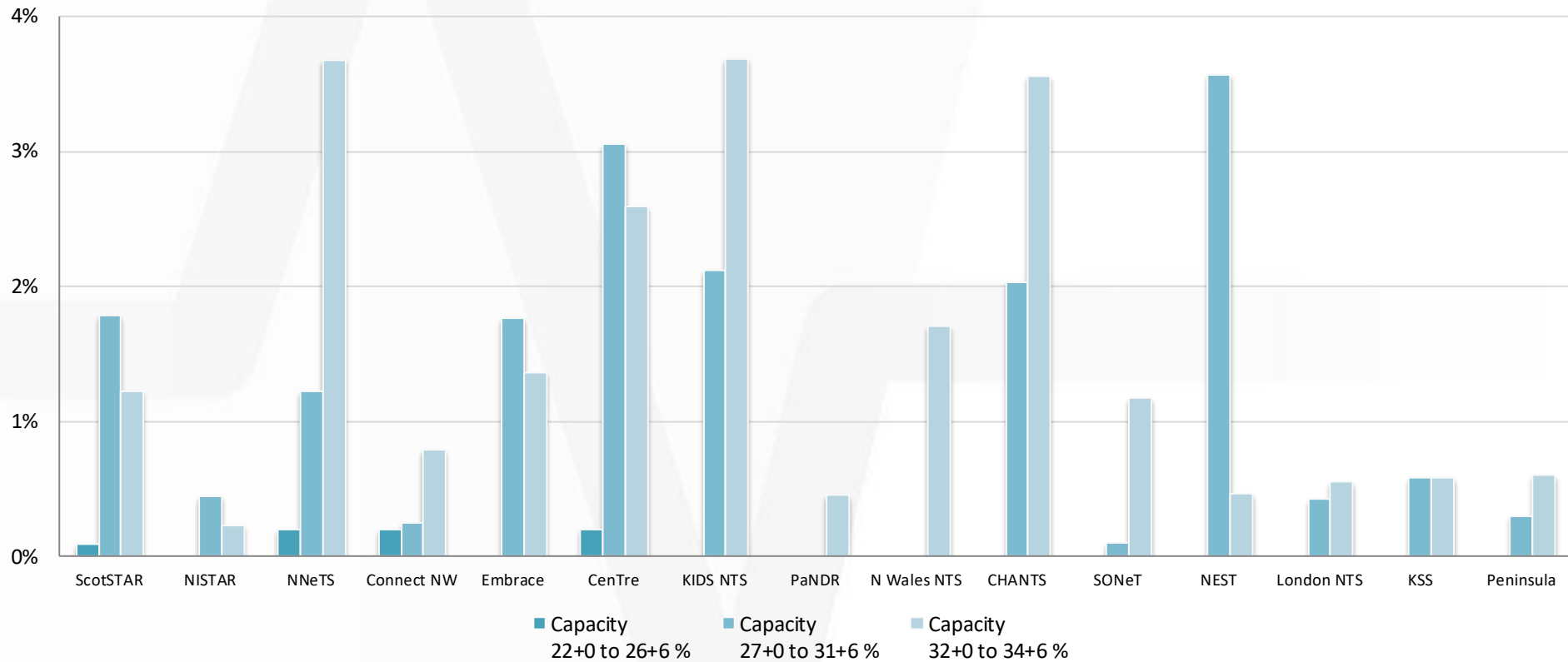
2021/22 Capacity transfers by team, 1st 3 days of life, 22-34⁺⁶ week infants



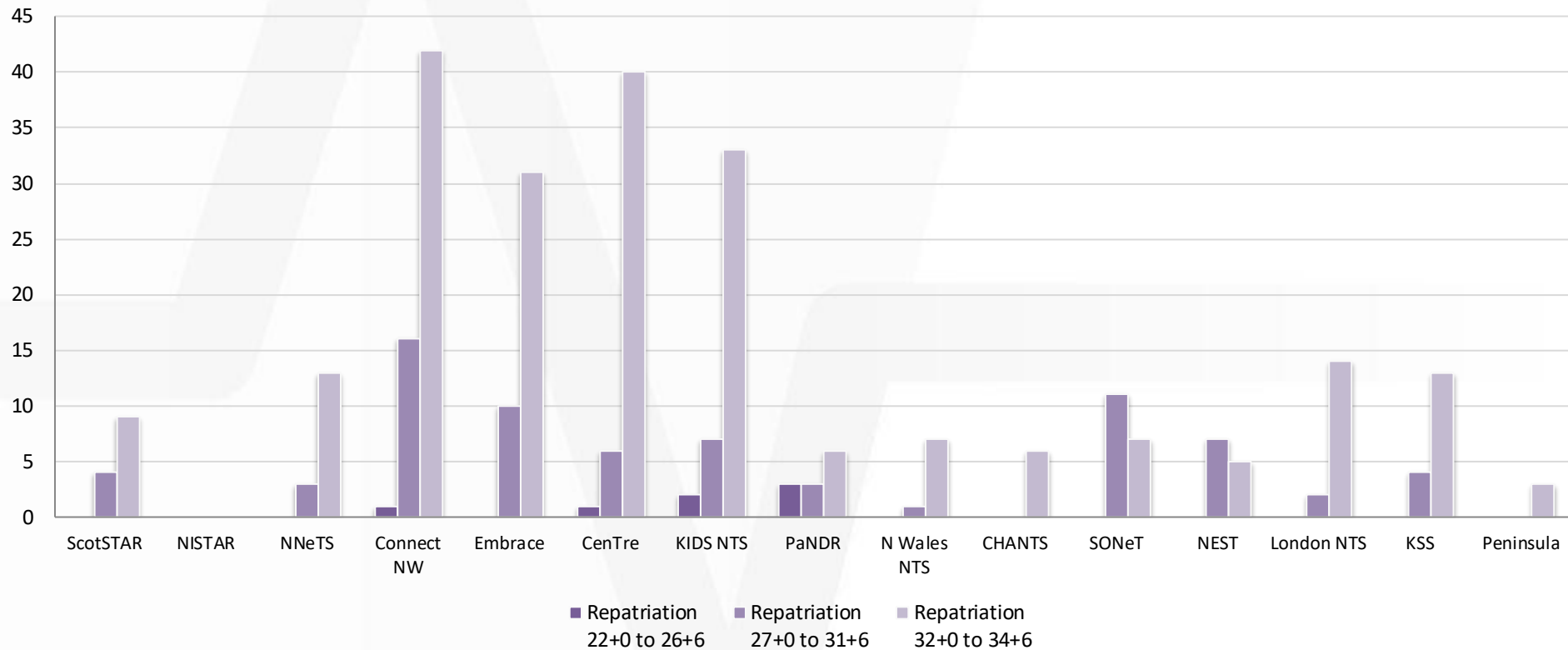
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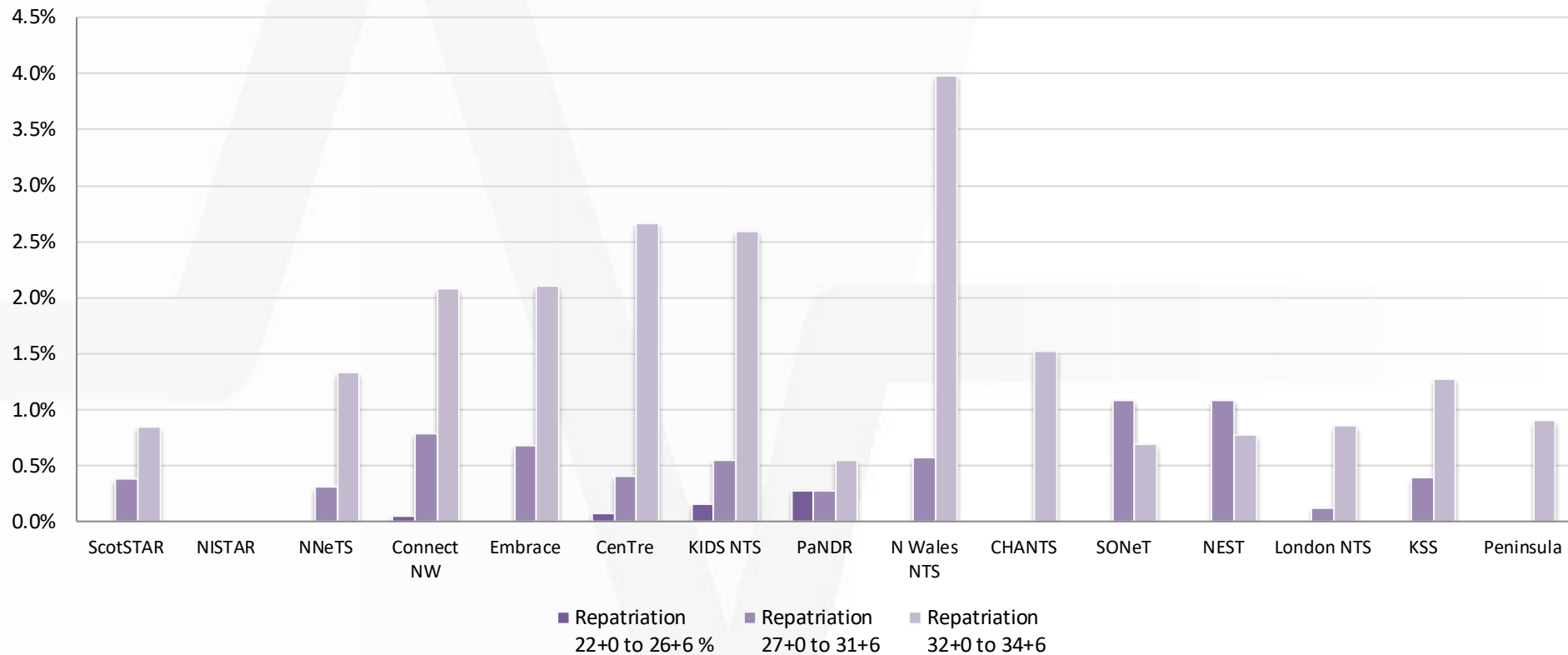
2021/22 Capacity transfers by Team as a percentage of total transfers 1st 3 days of life, 22-34⁺⁶ weeks



2021/22 Repatriation transfers by team and gestation, 1st 3 days of life, 22-34⁺⁶ week infants



2021/22 Repatriation transfers by Team and gestation as a percentage of total transfers 1st 3 days of life, 22-34⁺⁶ weeks



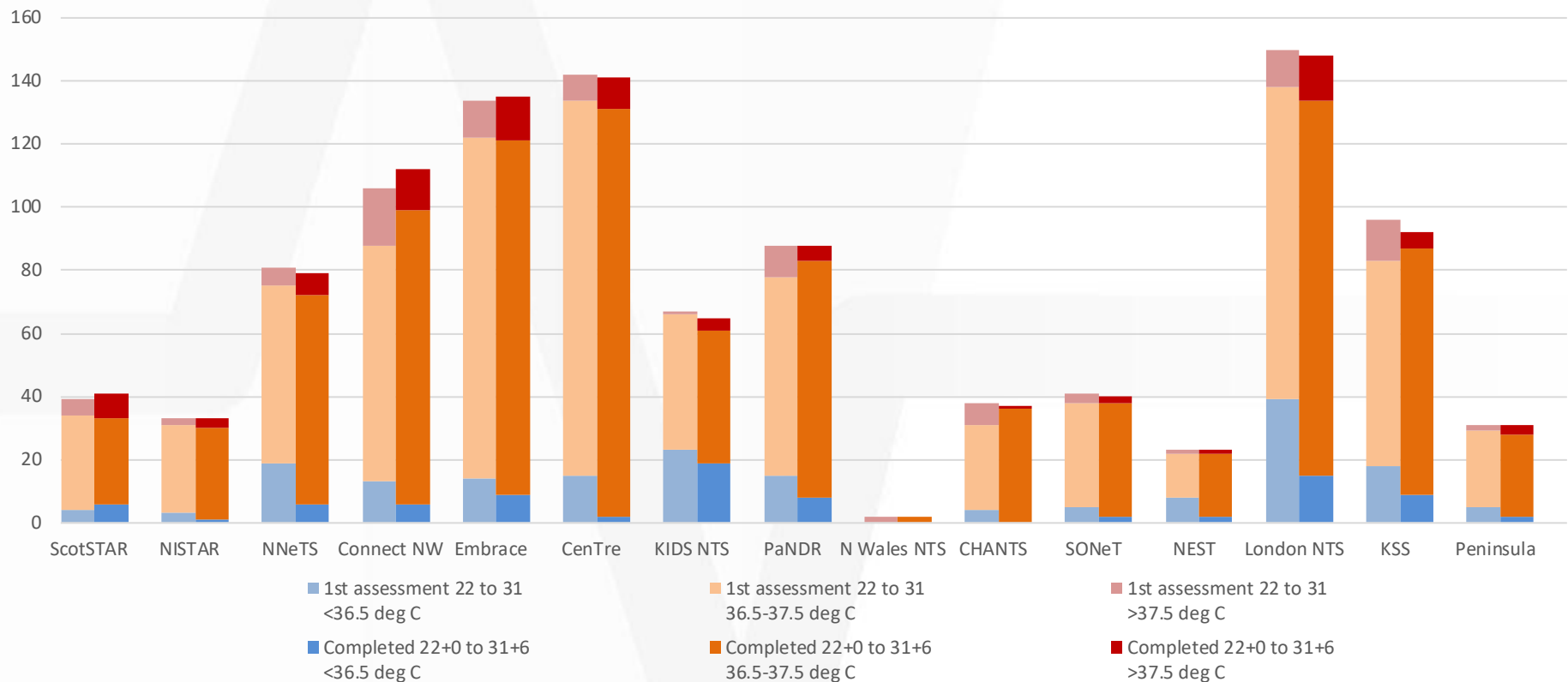
1.3 Newborn Infants 22 to 31⁺⁶ weeks



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Temperatures on arrival and completion of transfer Apr 2021 to Mar 2022

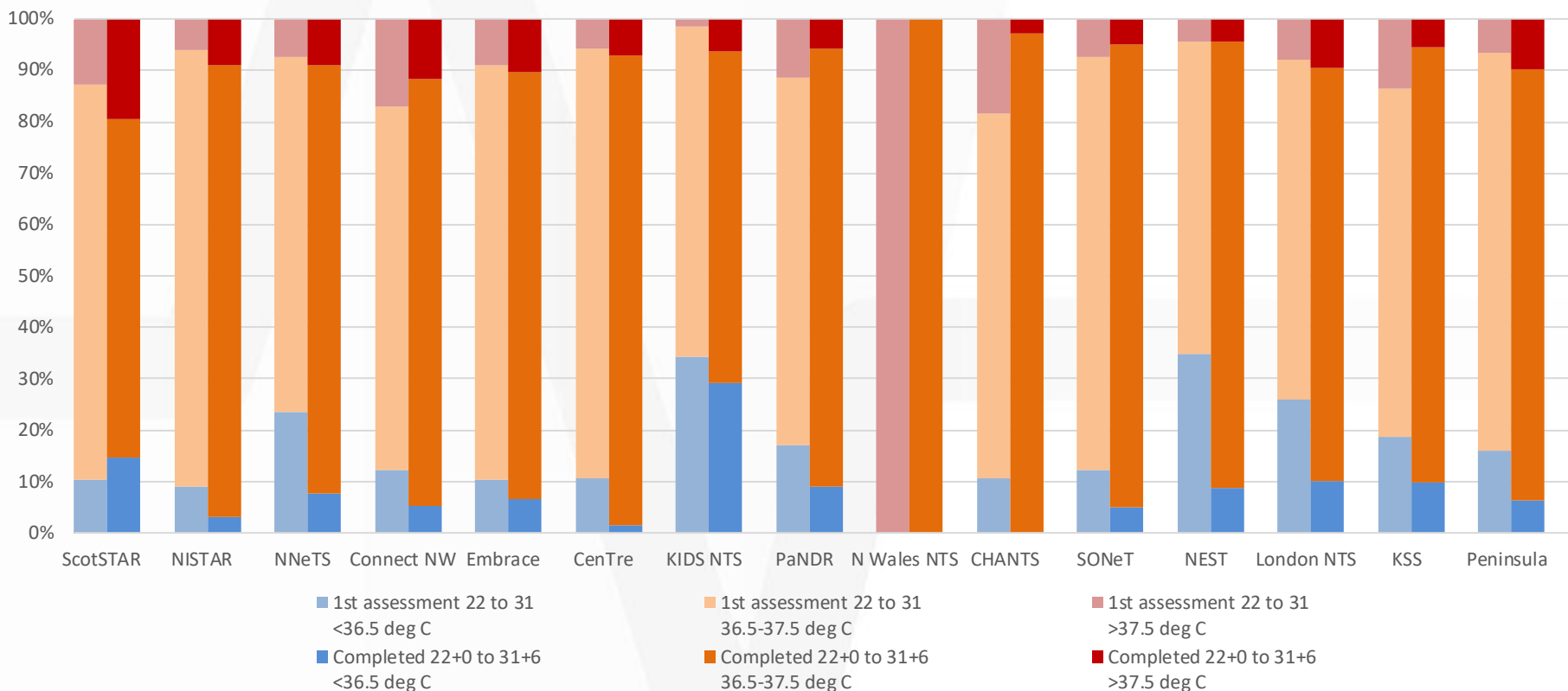


1.3 Newborn Infants 22 to 31⁺⁶ weeks

Temperatures on arrival and completion of transfer as 100% Apr 2021 to Mar 2022



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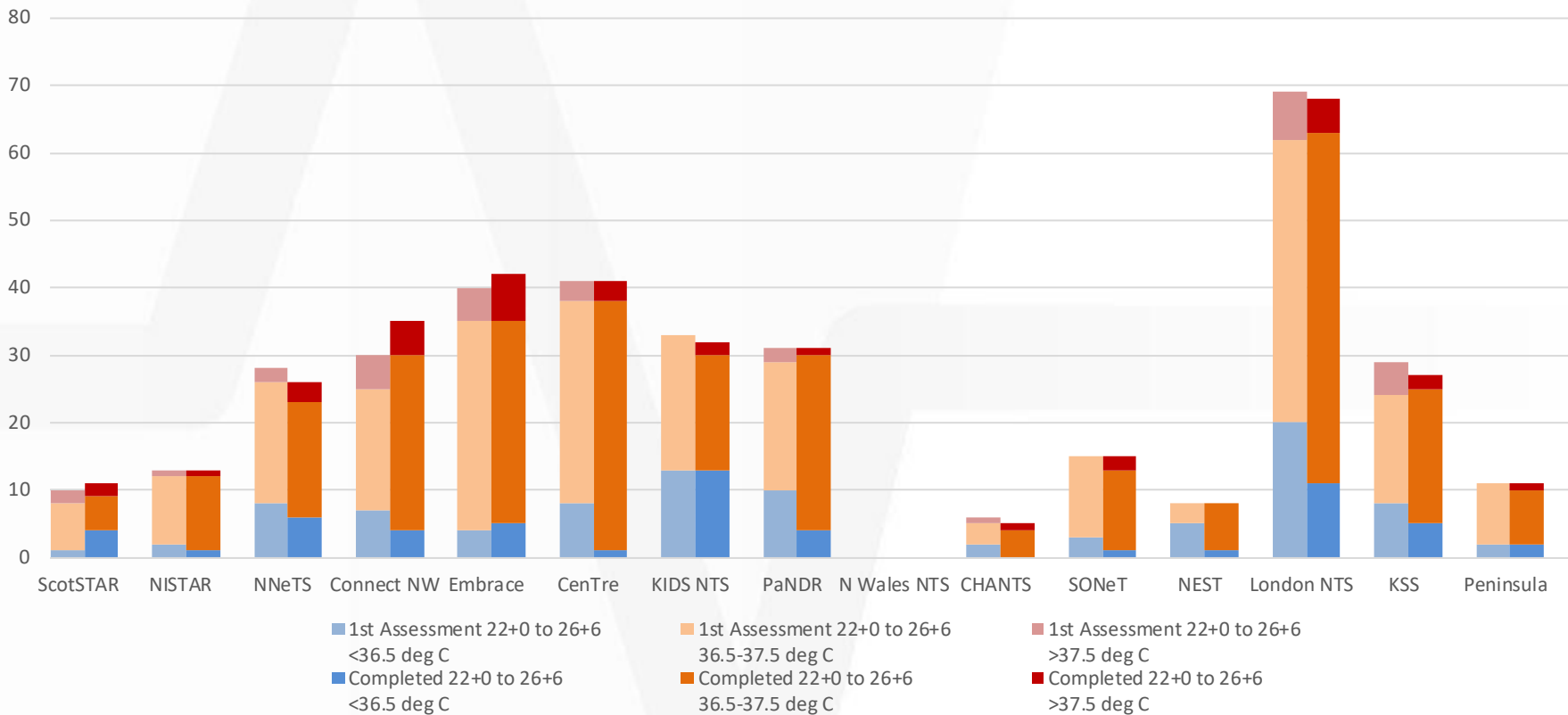


1.3 Newborn Infants 22 to 26⁺⁶ weeks

Temperatures on arrival and completion of transfer Apr 2021 to Mar 2022



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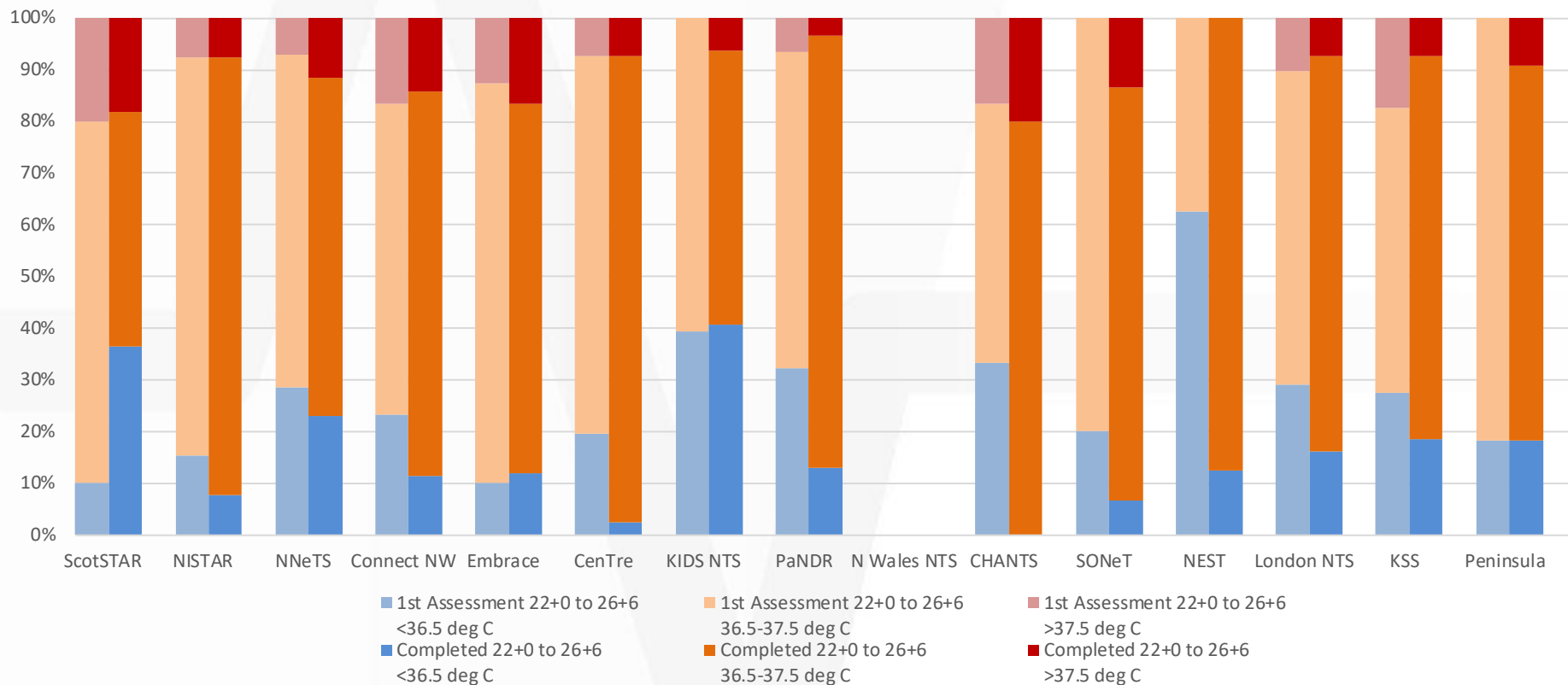


1.3 Newborn Infants 22 to 26⁺⁶ weeks

Temperatures on arrival and completion of transfer as 100% Apr 2021 to Mar 2022



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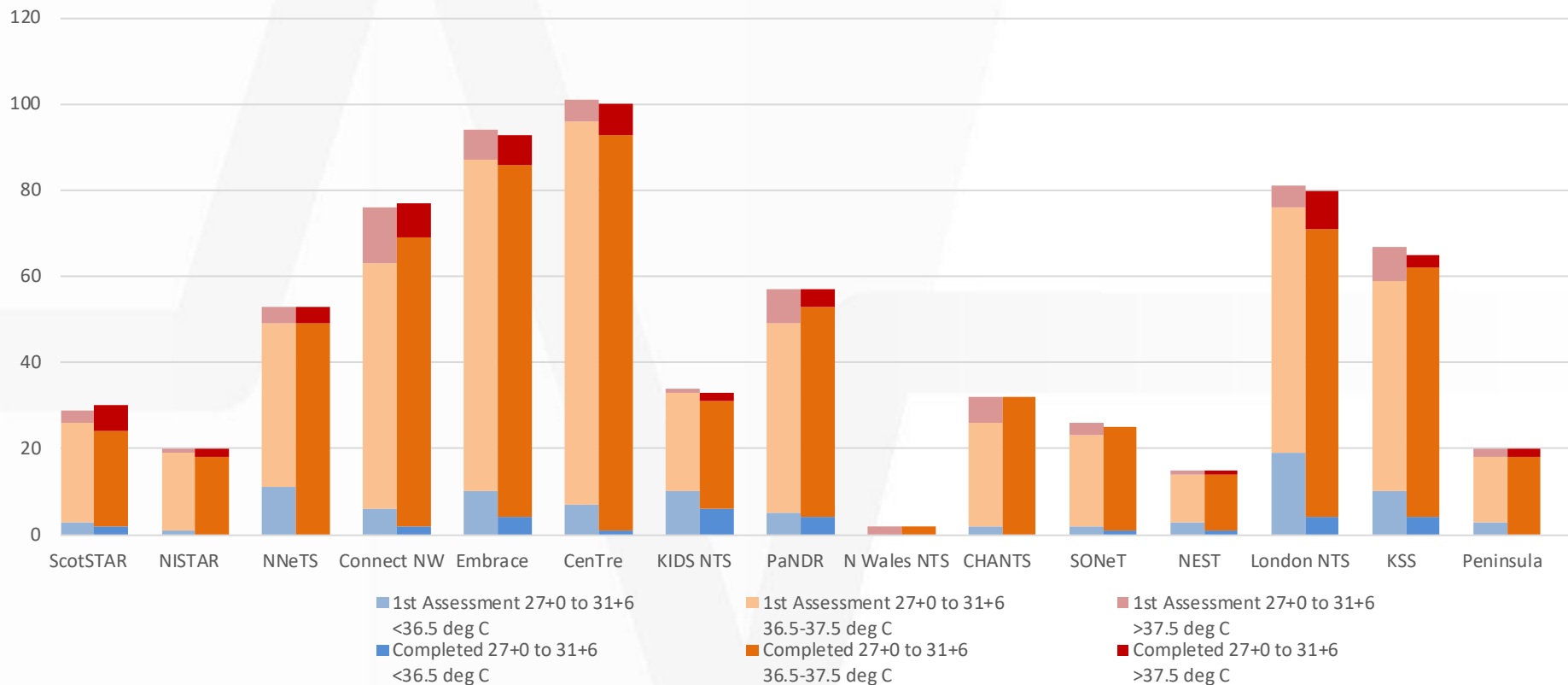


1.3 Newborn Infants 27 to 32⁺⁶ weeks

Temperatures on arrival and completion of transfer Apr 2021 to Mar 2022



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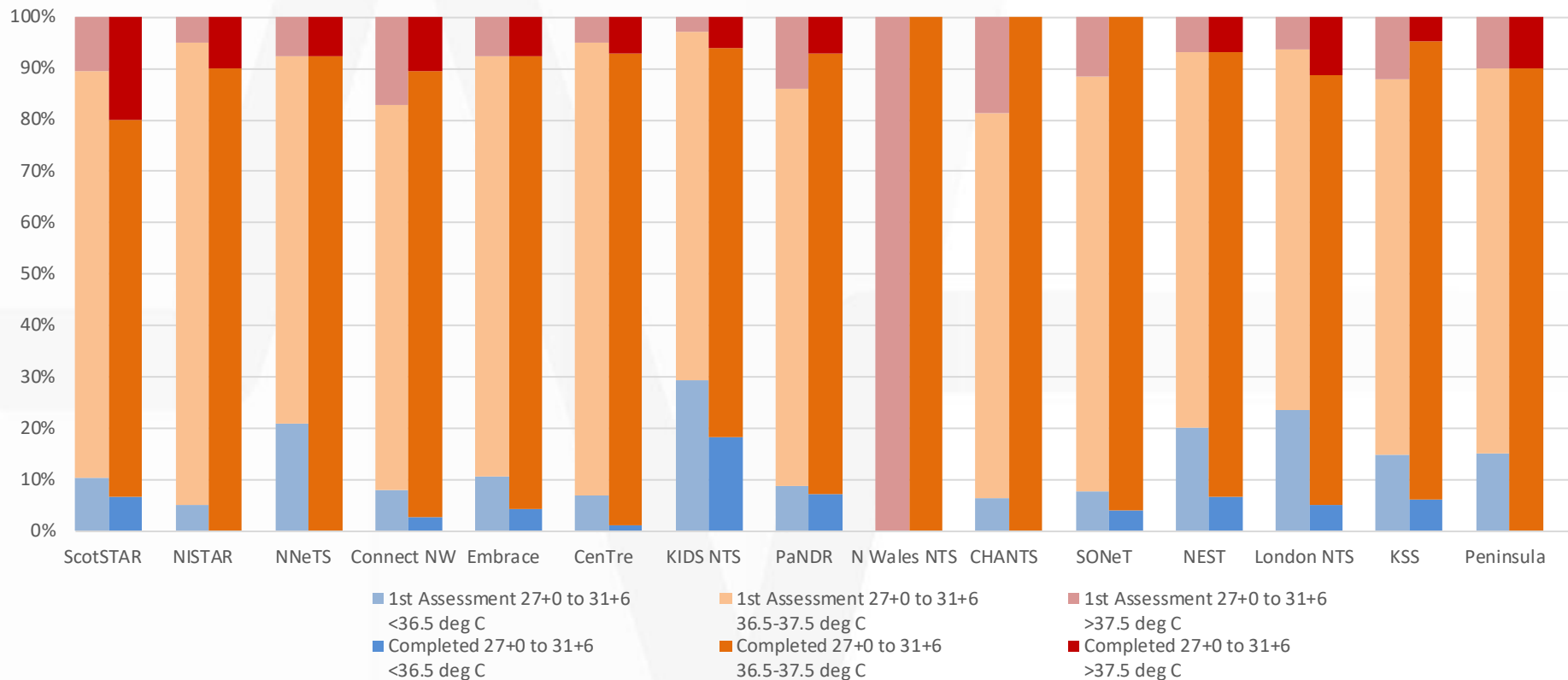


1.3 Newborn Infants 27 to 32⁺⁶ weeks

Temperatures on arrival and completion of transfer as 100% Apr 2021 to Mar 2022



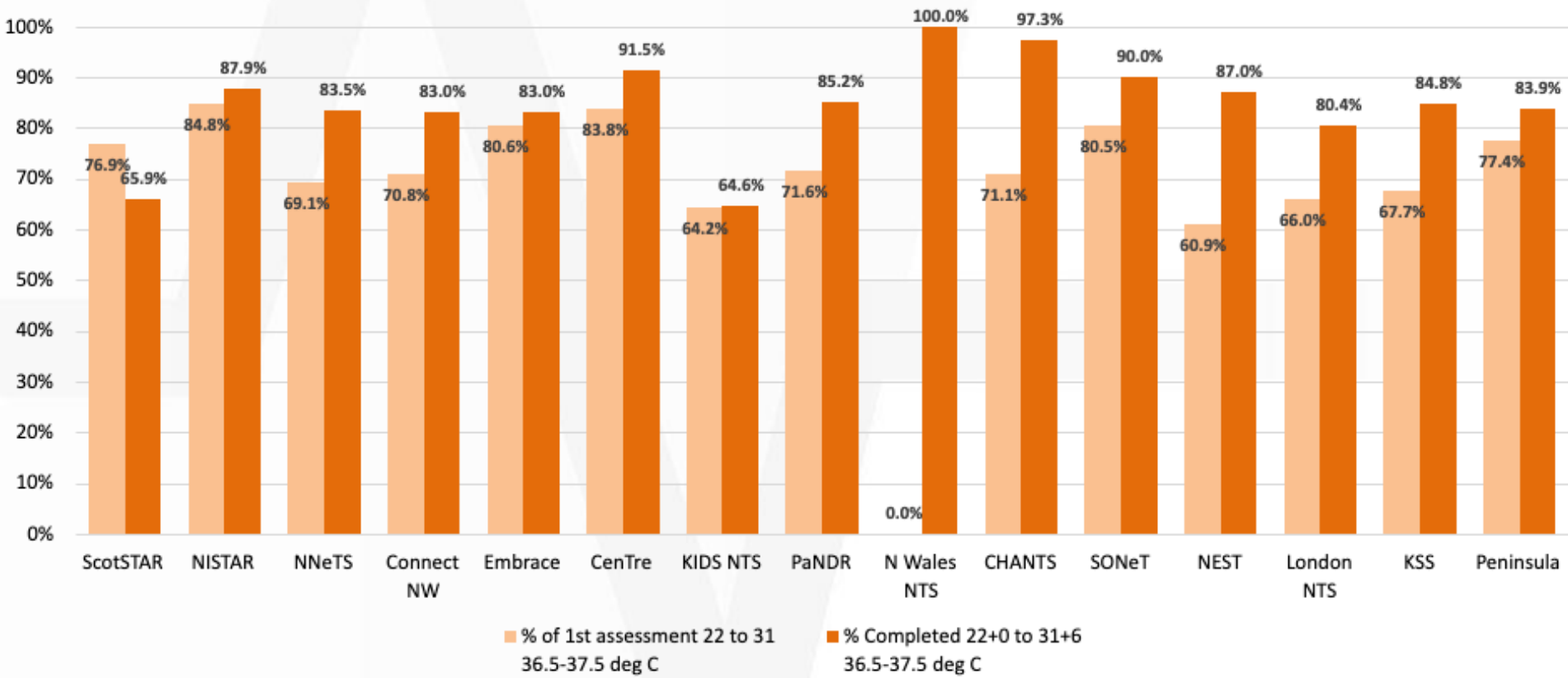
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1.3 Summary- Normothermia (36.5-37.5 °C) at first assessment then on completion of transfer 22-31+6 weeks Apr 2021 to Mar 2022



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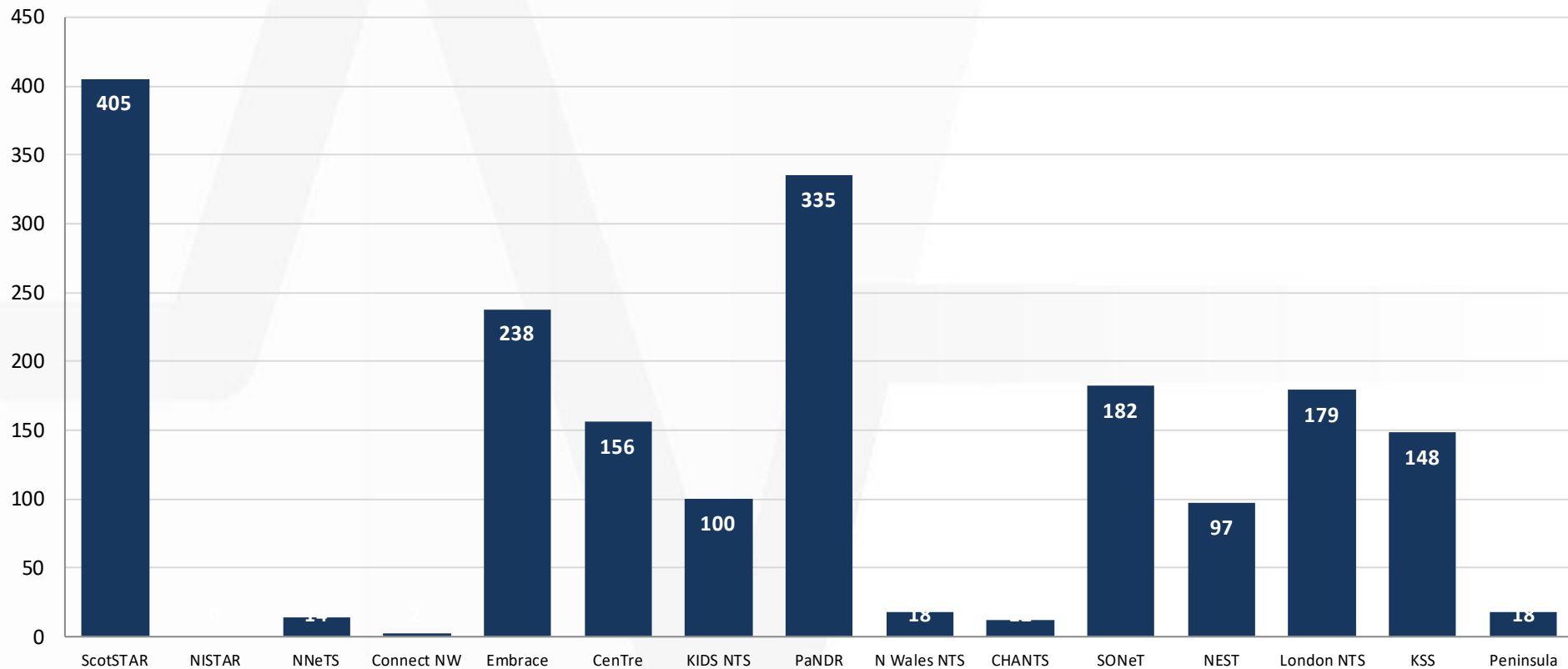




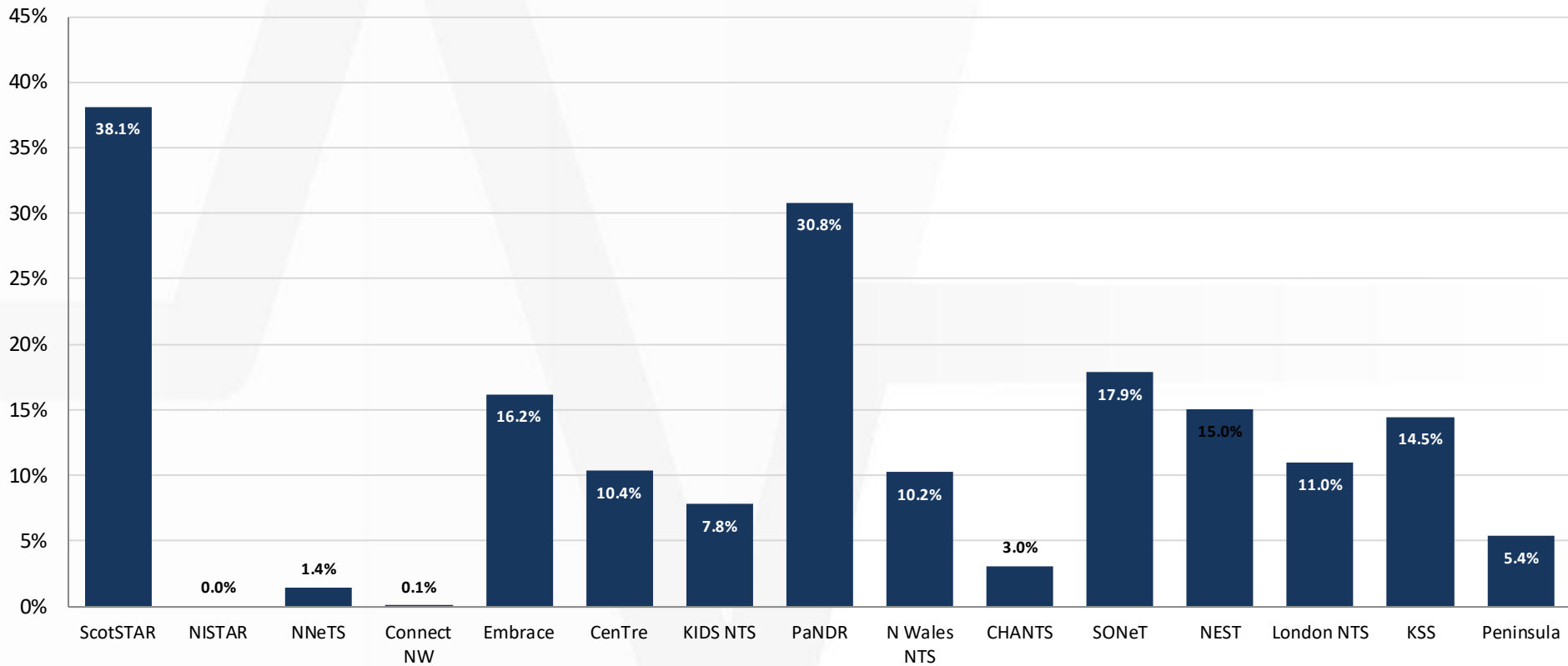
Parents travelling with their baby



Number of parents travelling with their baby by team Apr 2021 to Mar 2022



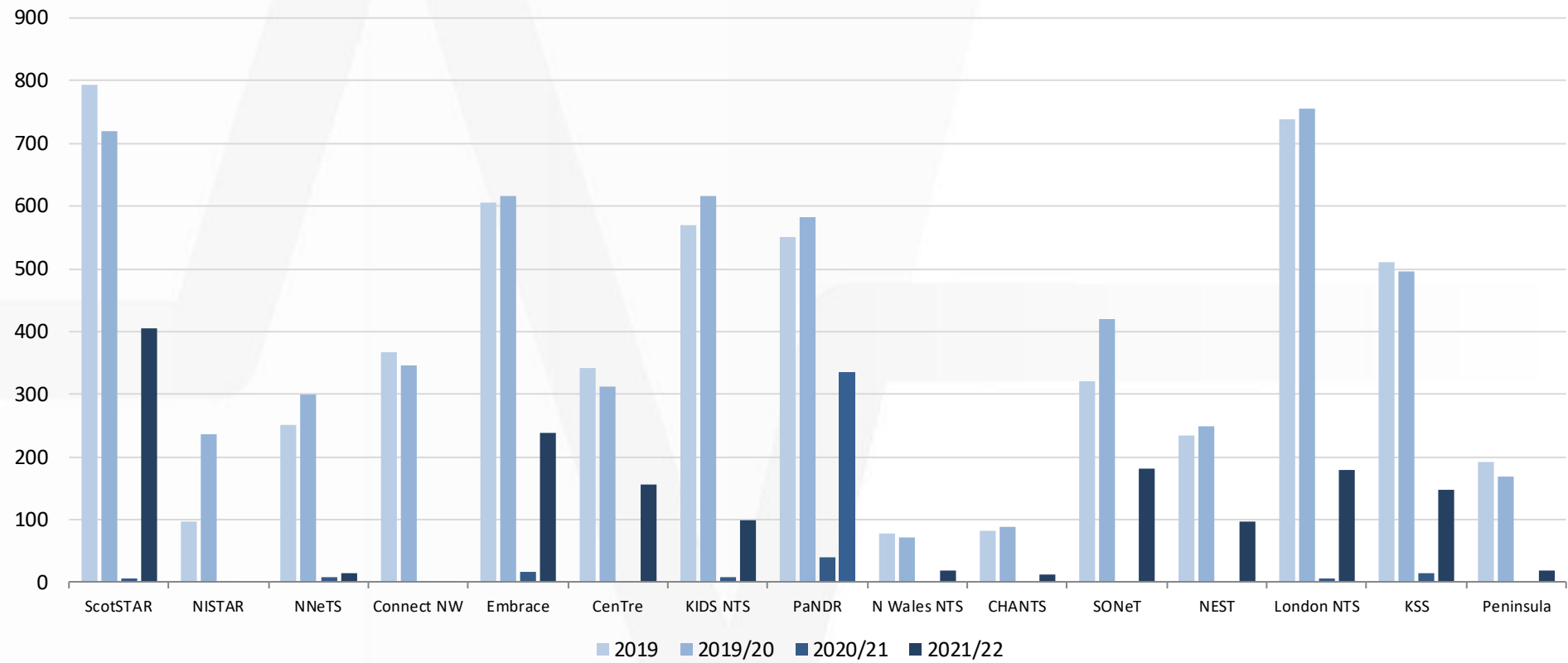
Parents travelling with their baby by team, as a percentage of total transfers Apr 2021 to Mar 2022



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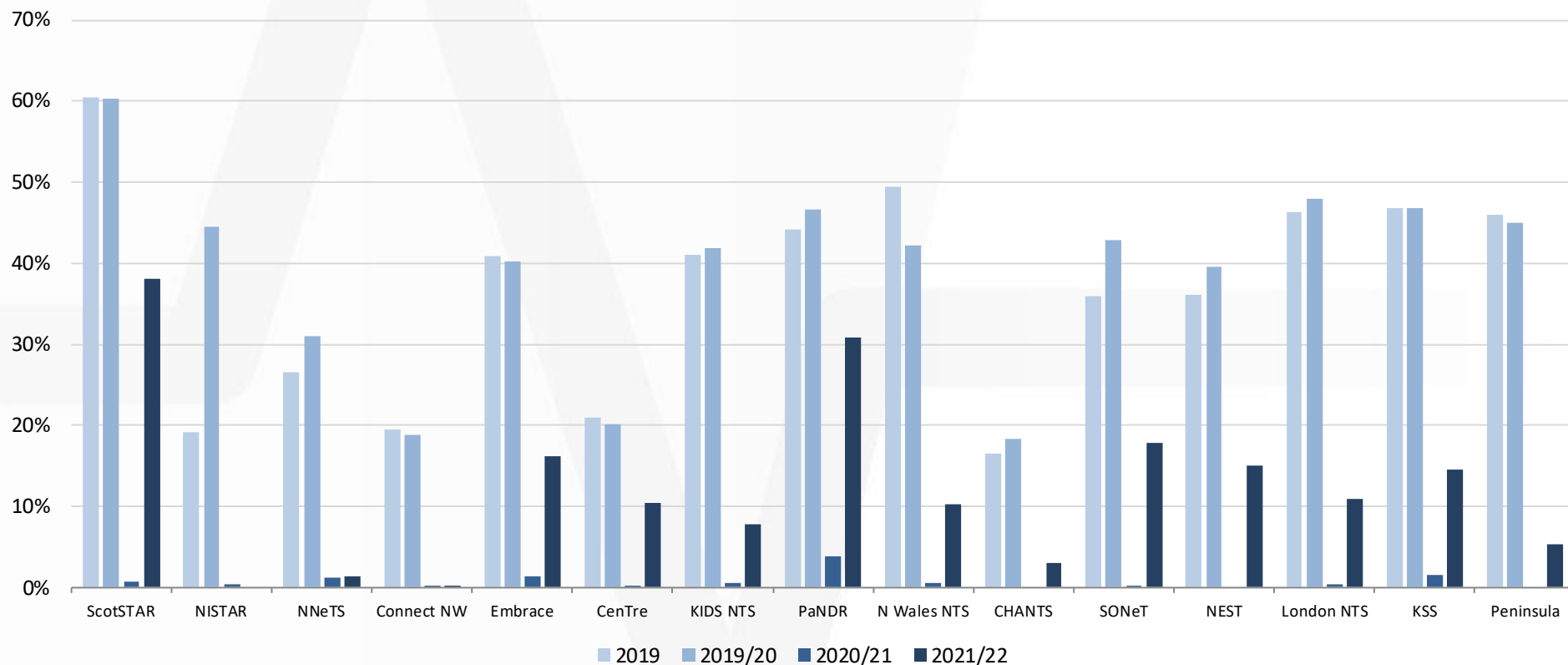
Trends in numbers of parents travelling with their baby



Trends in percentages of total transfers where parents travelled with their baby



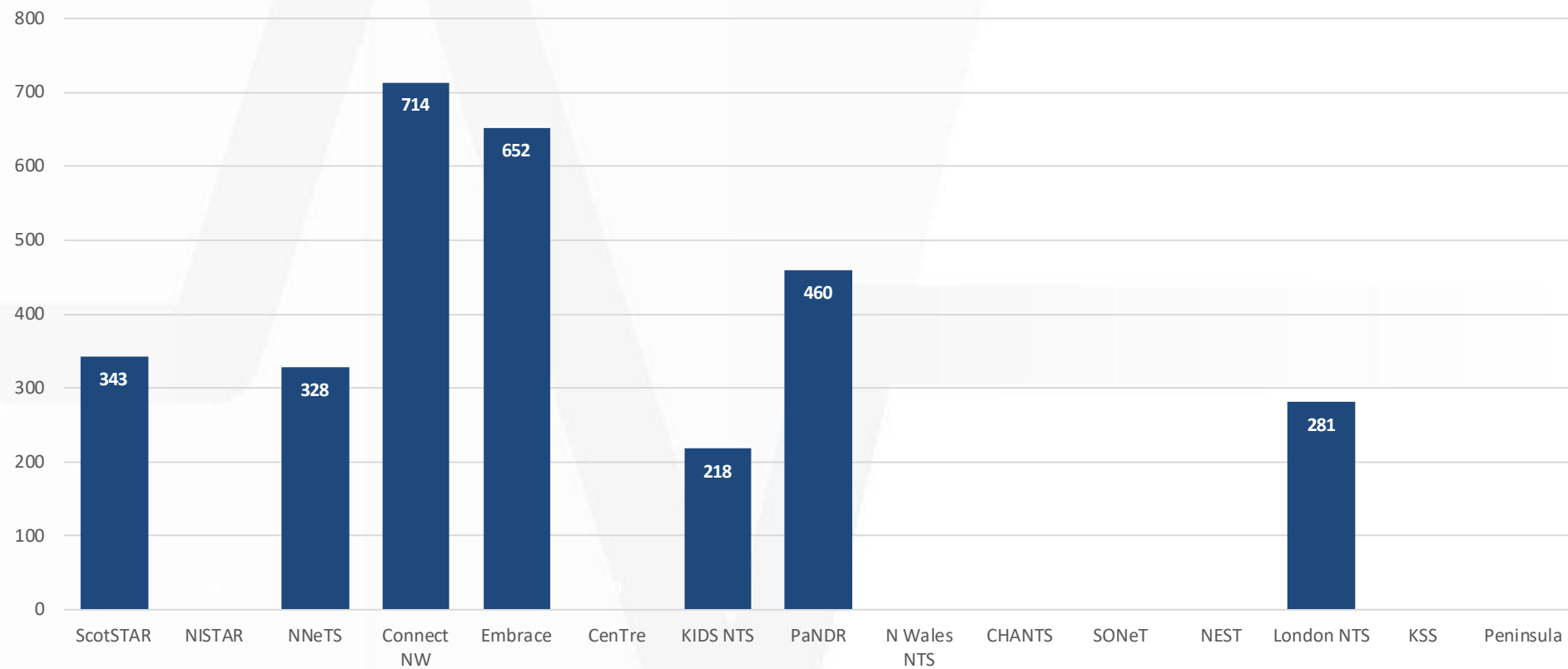
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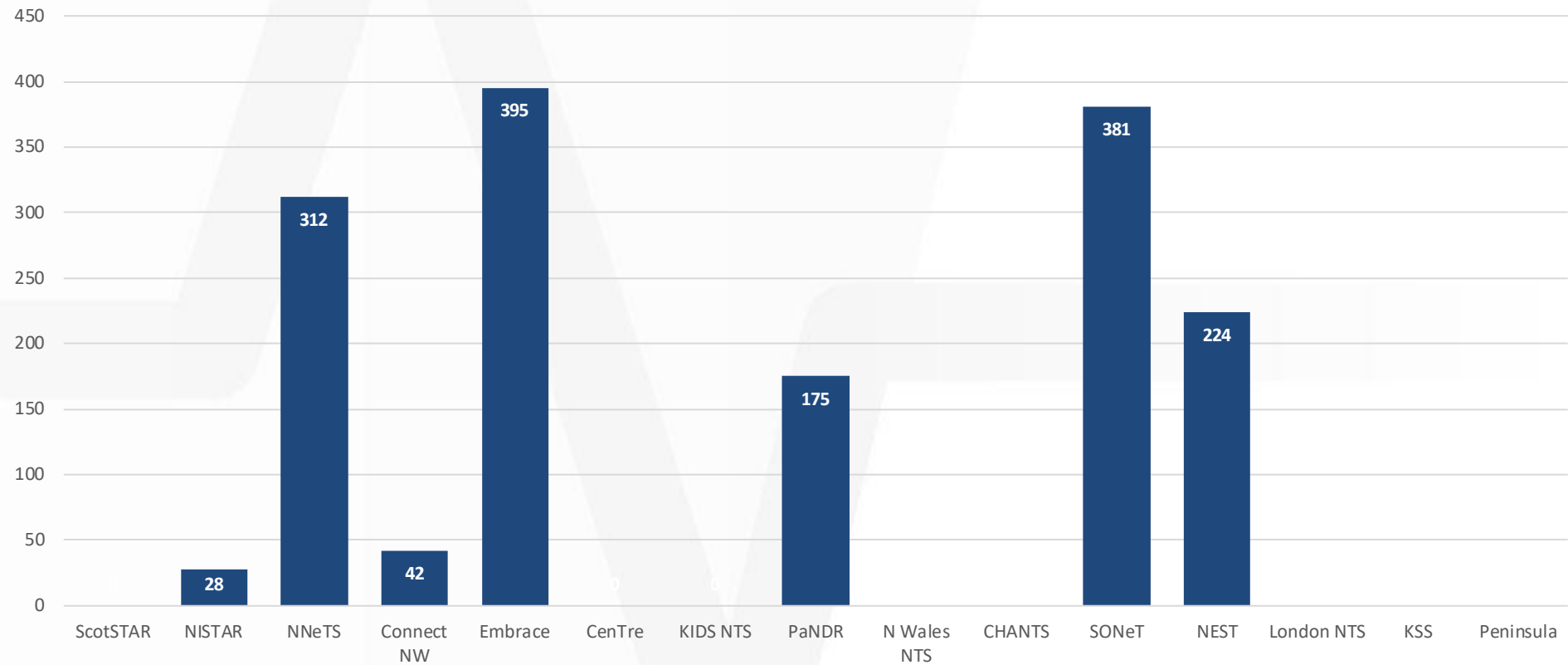
In Utero Transfer Coordination Workload 2021/22: Number of IUTs coordinated by teams offering this service



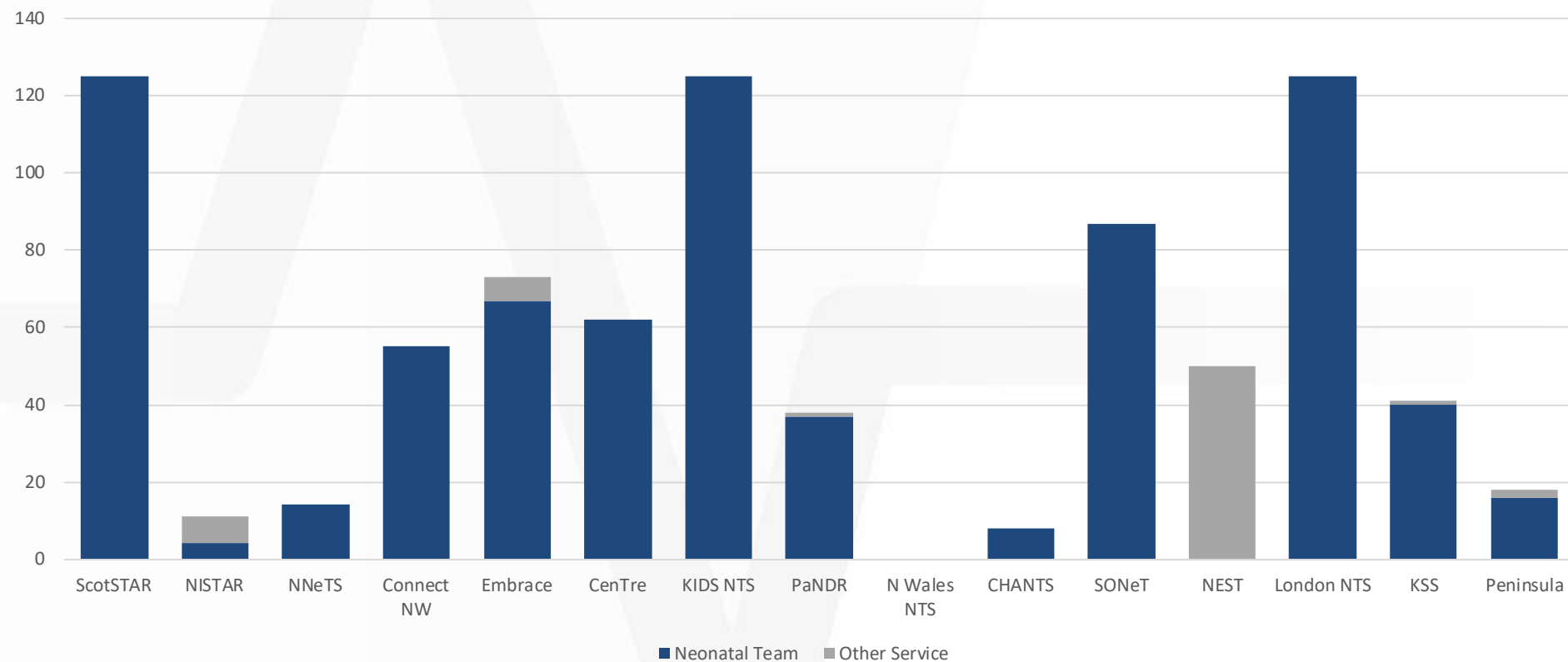
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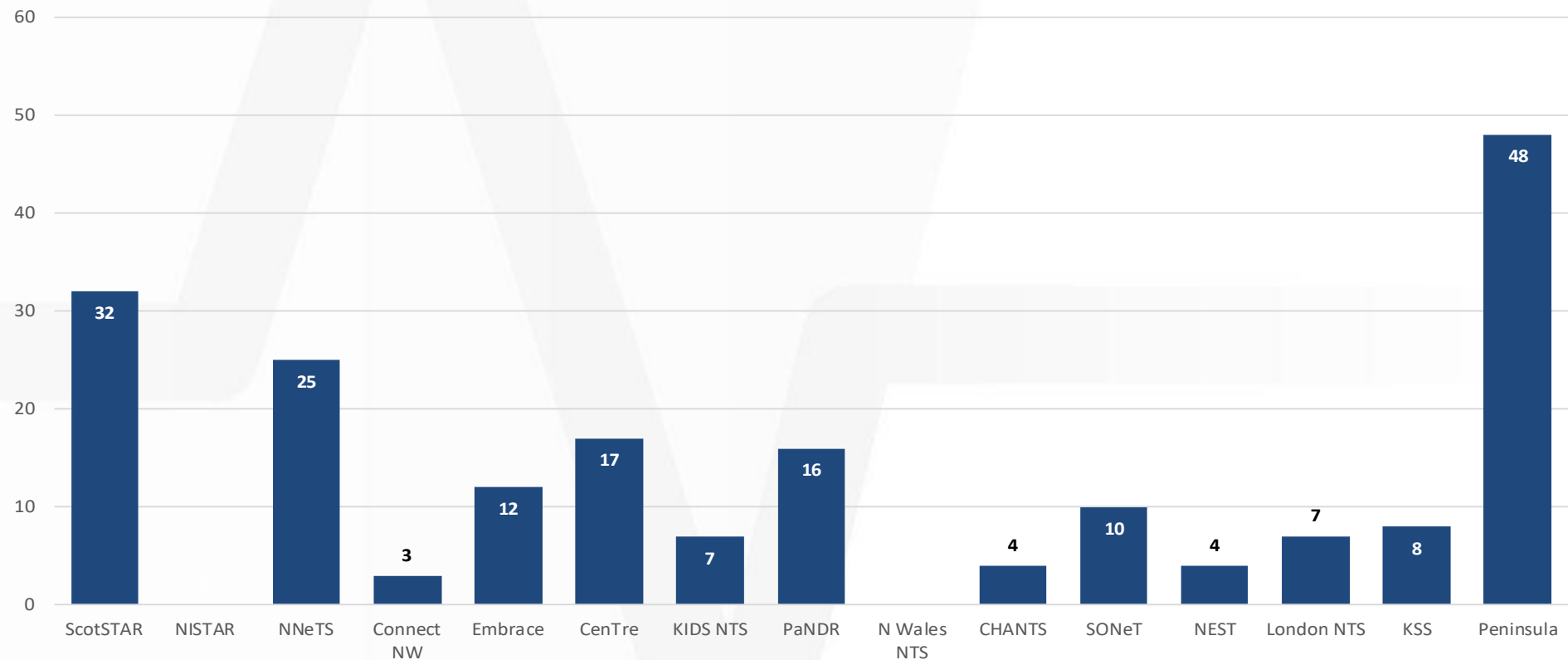
Advice Calls Workload 2021/22: Number of advice calls taken by teams offering this service



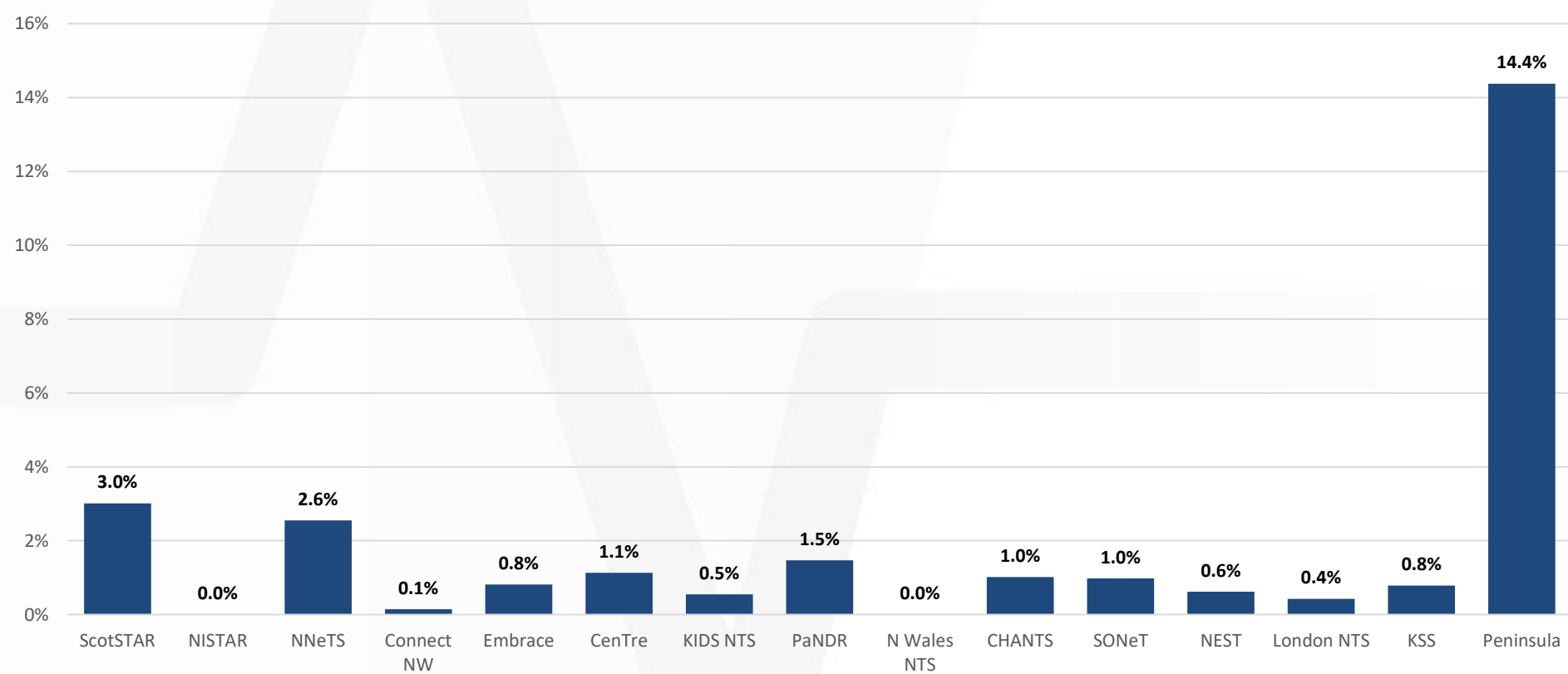
Numbers of Babies transferred for assessment of Bilious Vomiting by team 2021/22



Prolonged Transfers-numbers of transfers by team where the baby was in transit for 3 hours or more 2021/22



Prolonged Transfers (where the baby is in transit for 3 hours or more) as a percentage of total transfers 2021/22



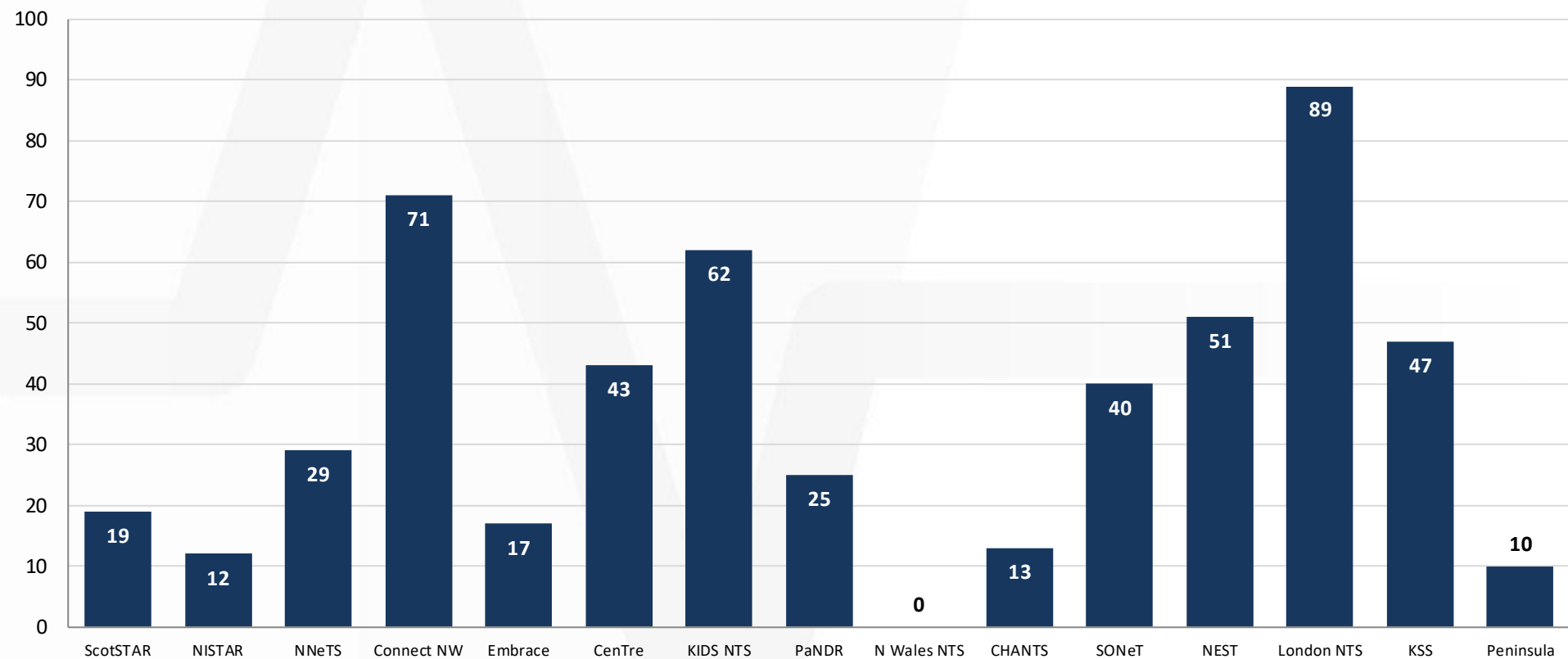
Response Standards



Data on

- Immediate dispatch (% mobile/60 mins)
- Referral response time (for ICU/uplift)
- Uplift transfers performed (%)

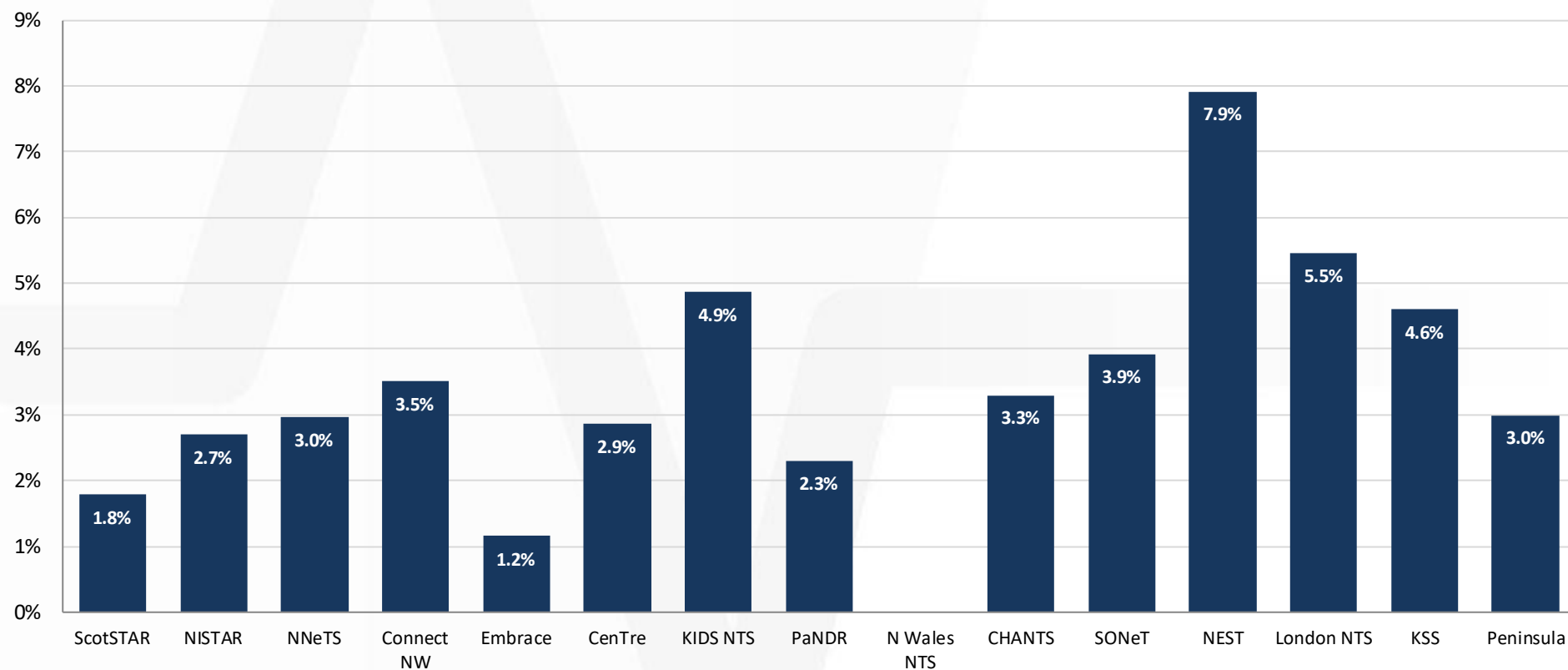
Immediate dispatch transfers/team Apr 2021 to Mar 2022



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

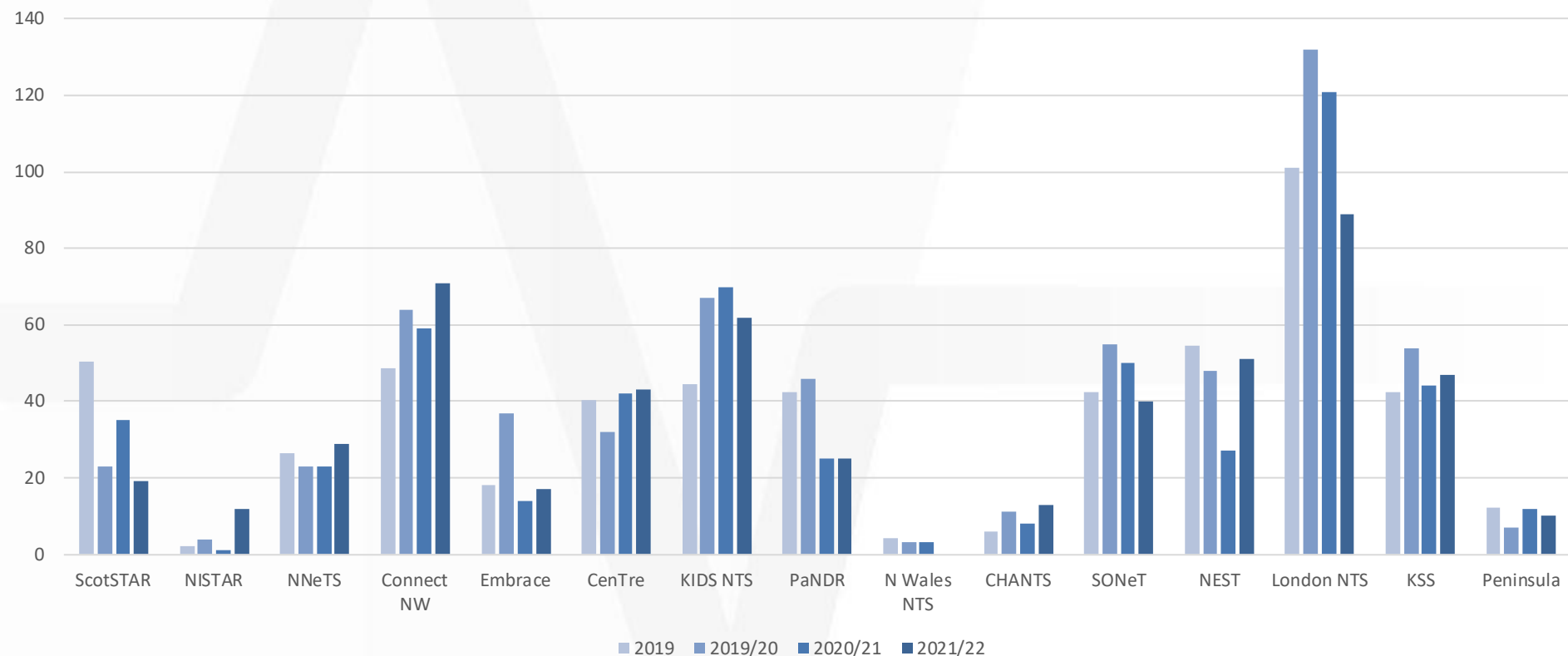


Immediate dispatch transfers by team as a percentage of total transfer 2019-20



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

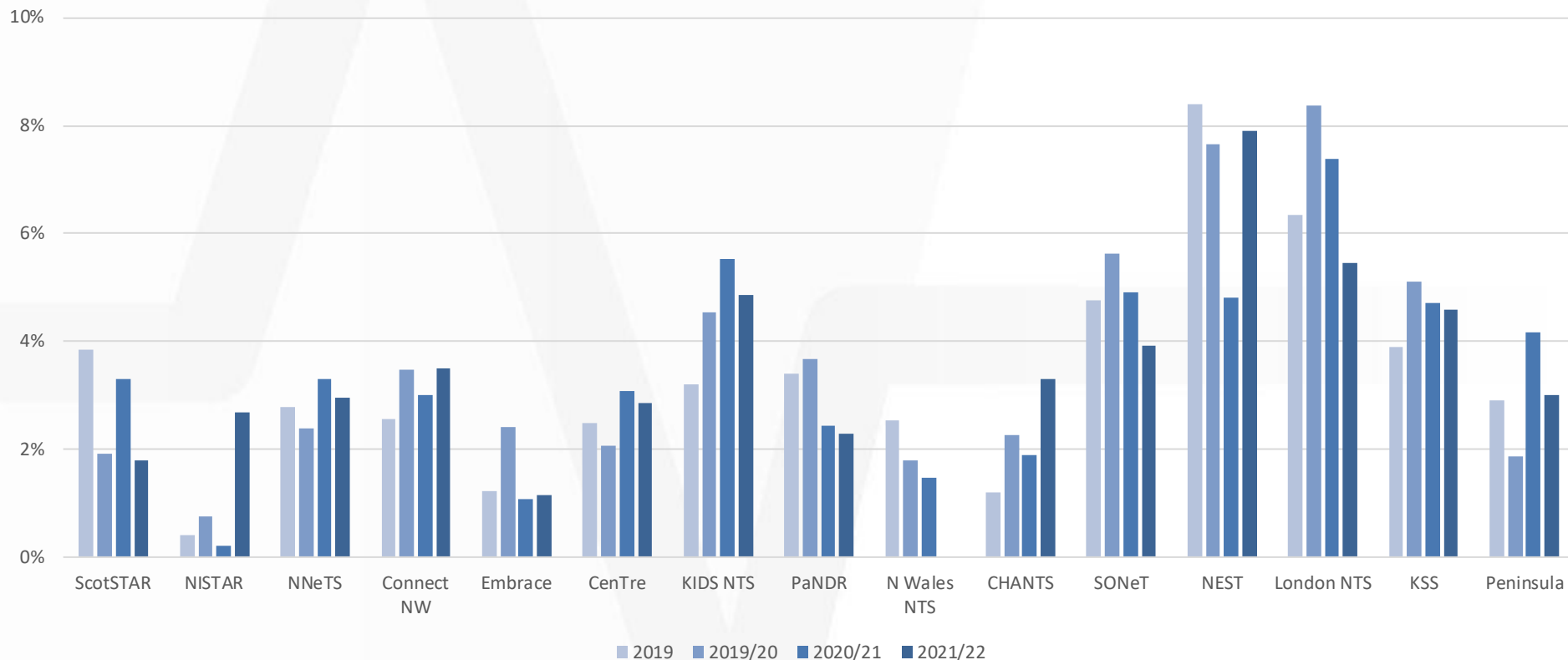
Trends in numbers of immediate dispatch transfers by team, 2019 to 2021/22



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



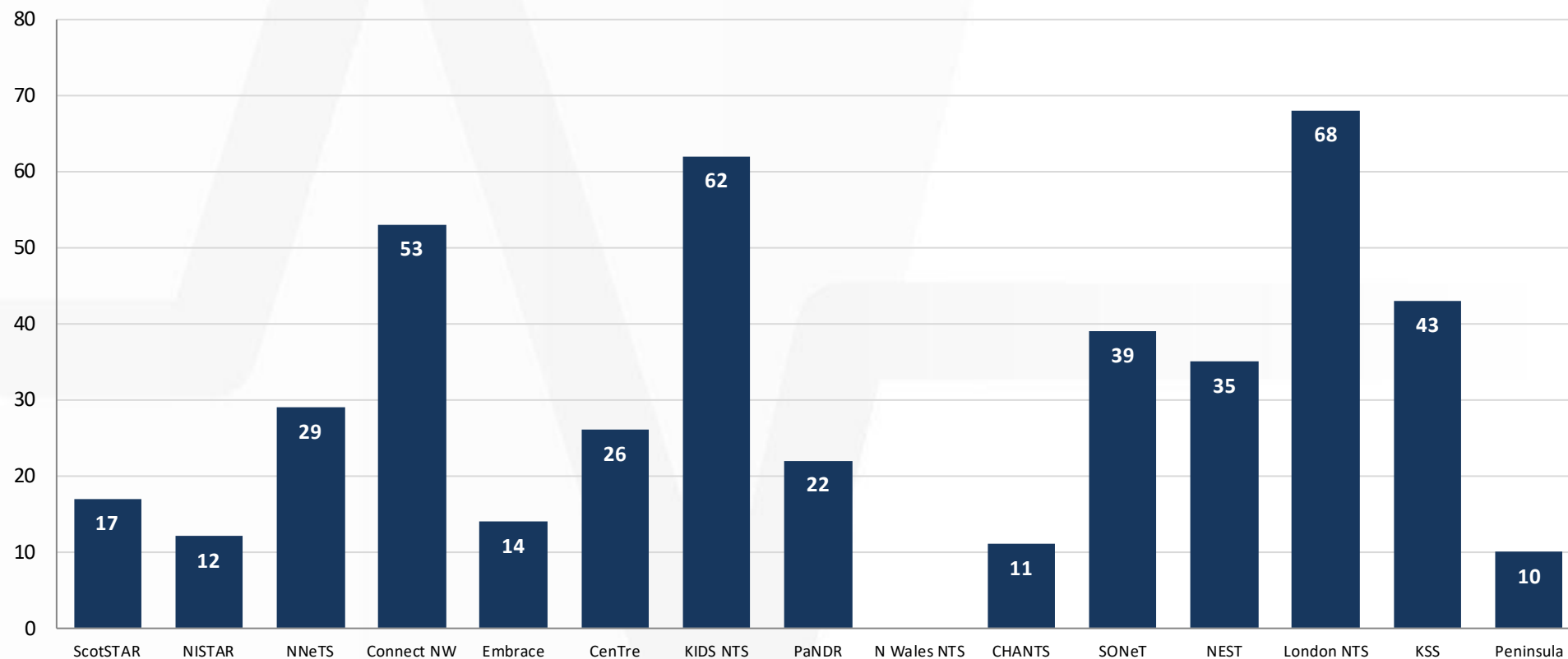
Immediate dispatch transfers as a percentage of total transfers, by team, 2019 to 2021/22



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

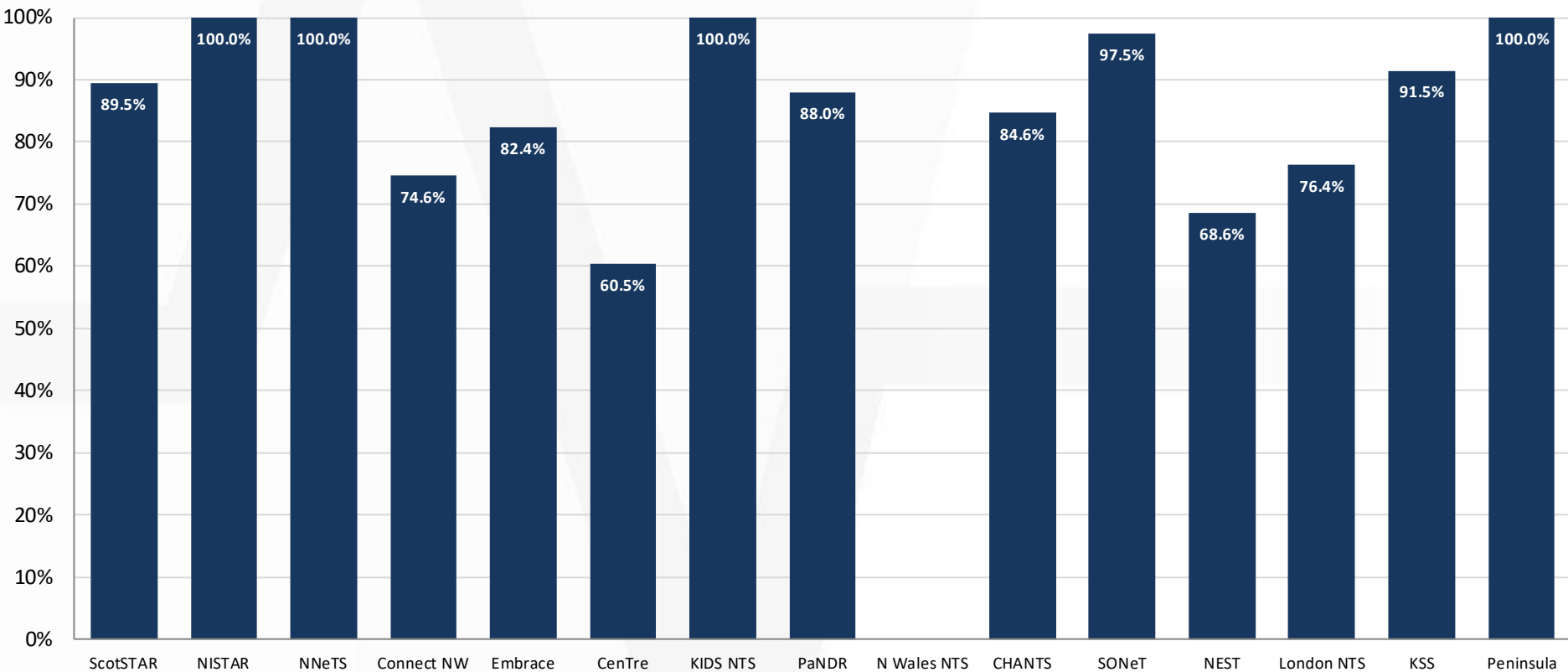


Immediate dispatch transfers dispatched within 60 minutes by team Apr 2021 to Mar 2022



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

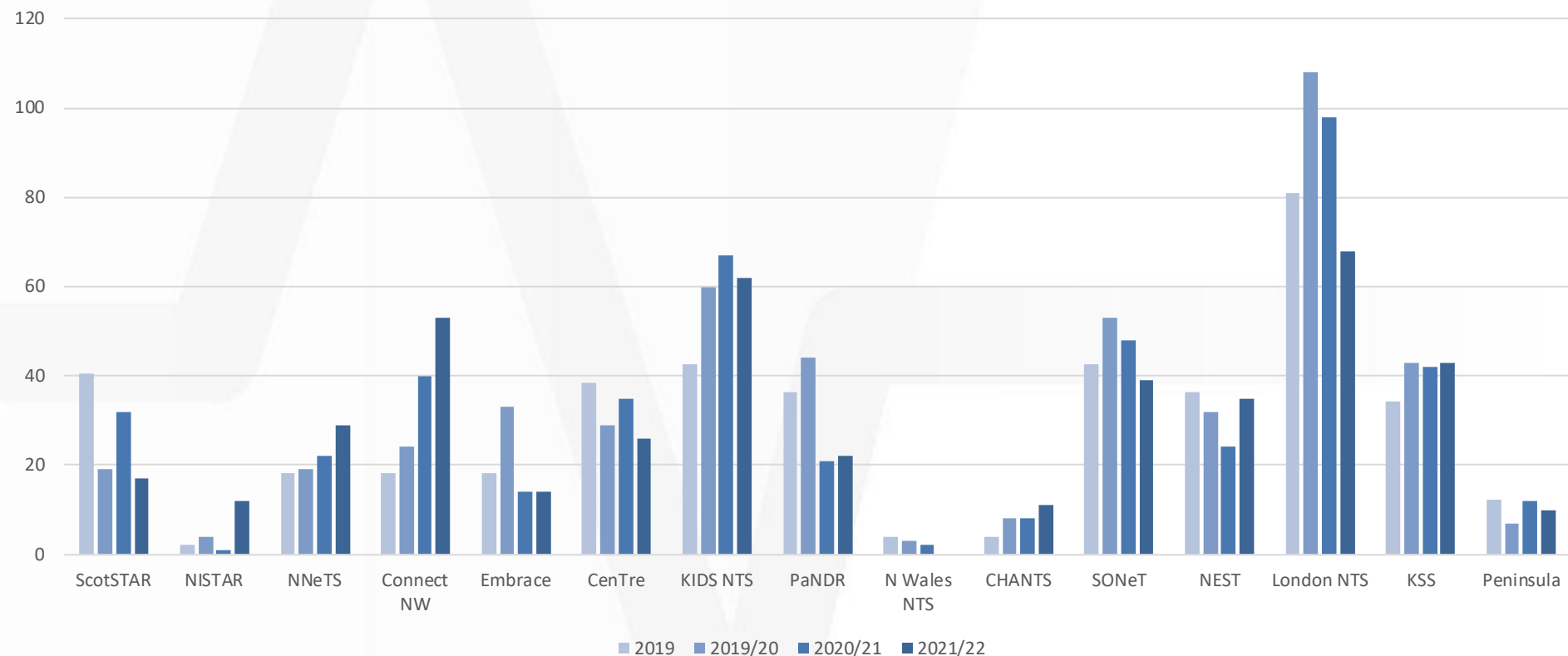
Percentage of Immediate Dispatch transfers dispatched within 60 minutes by team Apr 2021 to Mar 2022



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



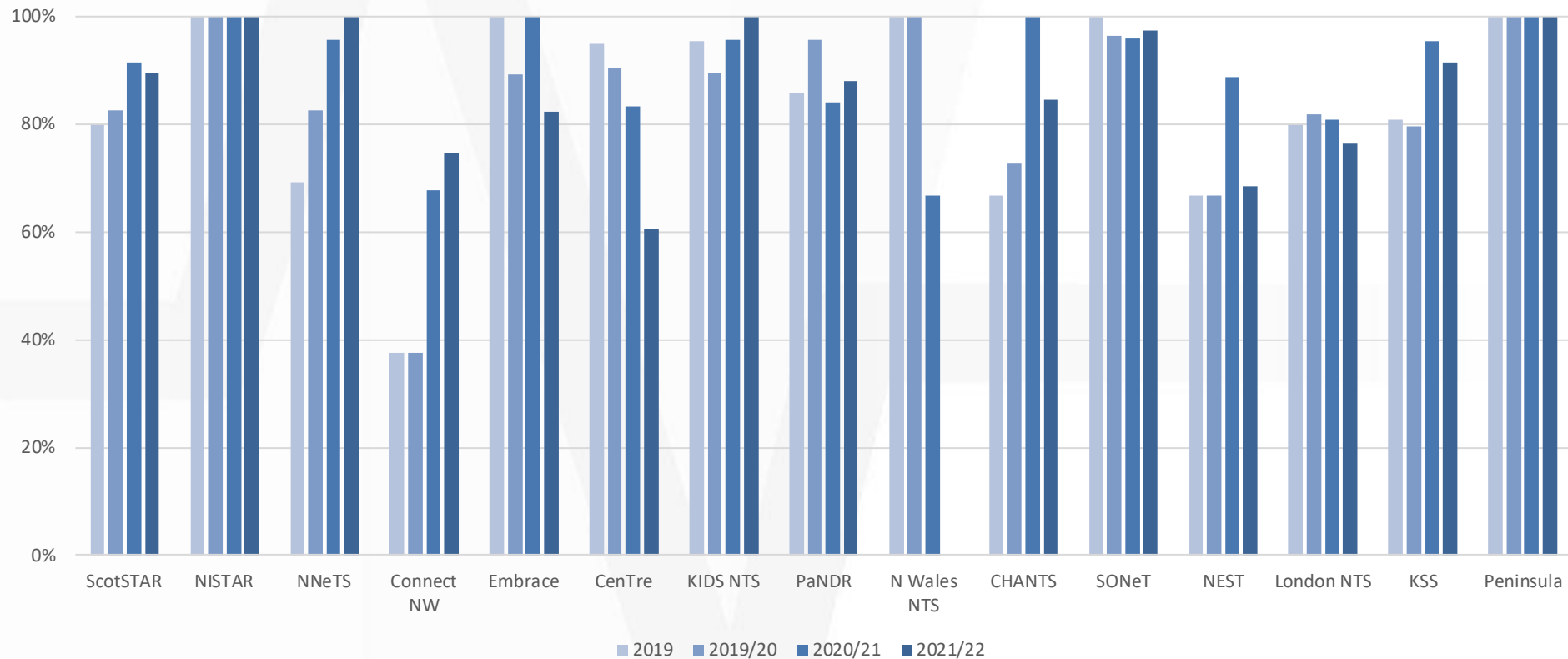
Number of Immediate Dispatch transfers dispatched within 60 minutes by team, 2019 to 2021/22



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 to 2021/22



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

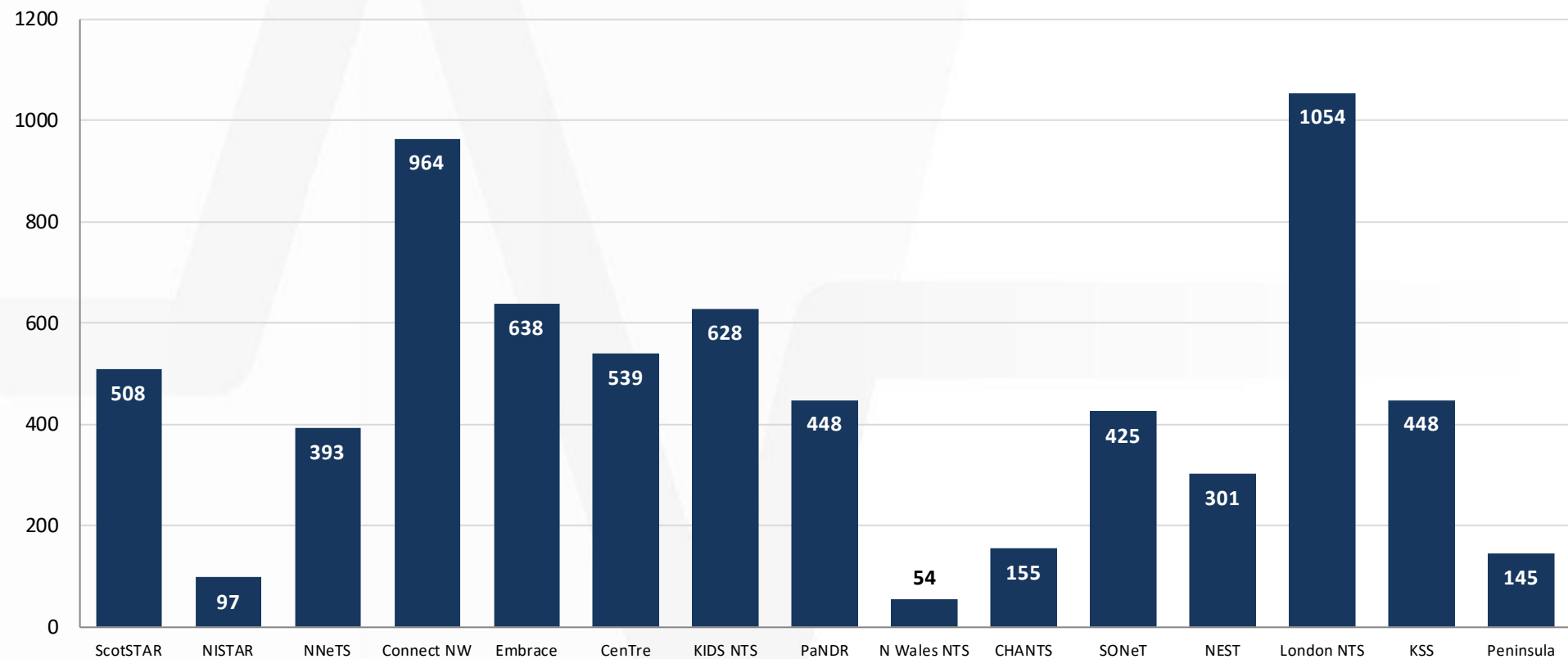


Data on

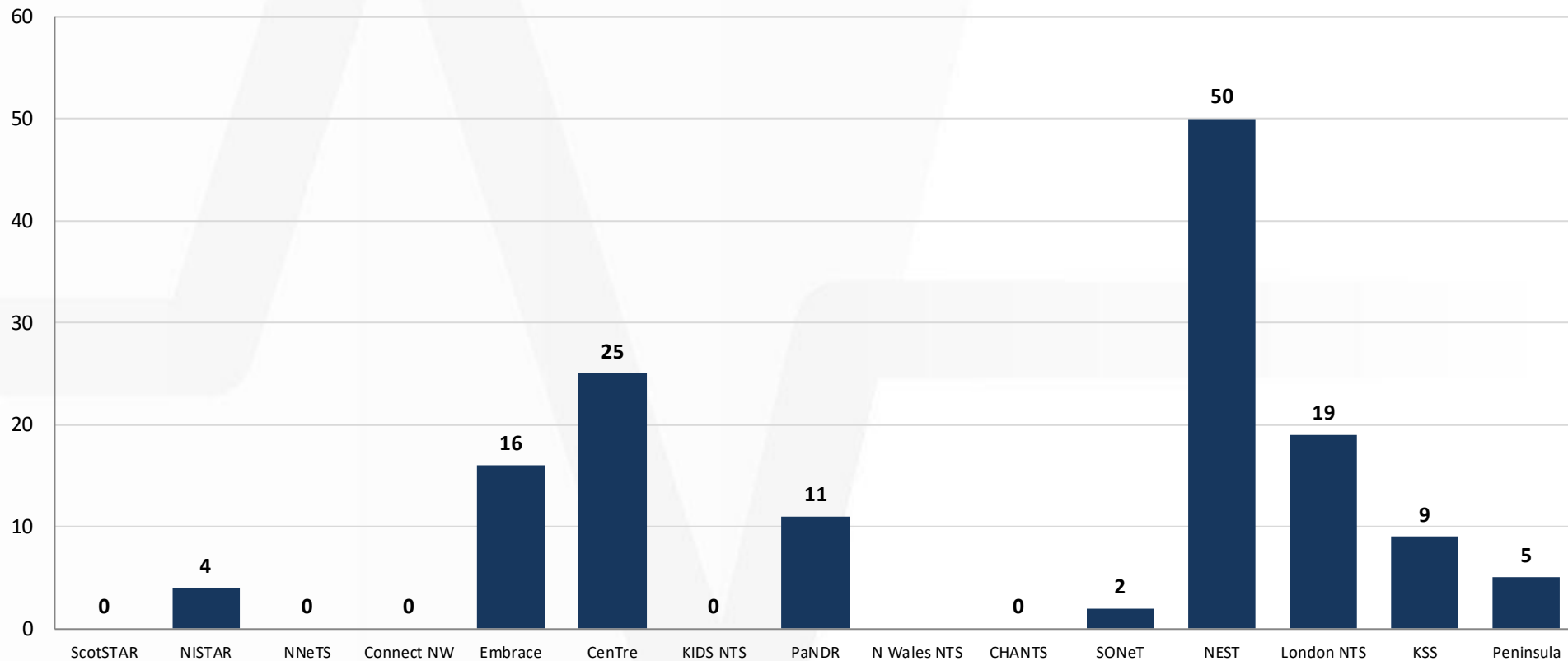
- Dedicated Neonatal Team Transfers in Area
- Uplift Transfers
- 95% of uplift transfers within area by dedicated team



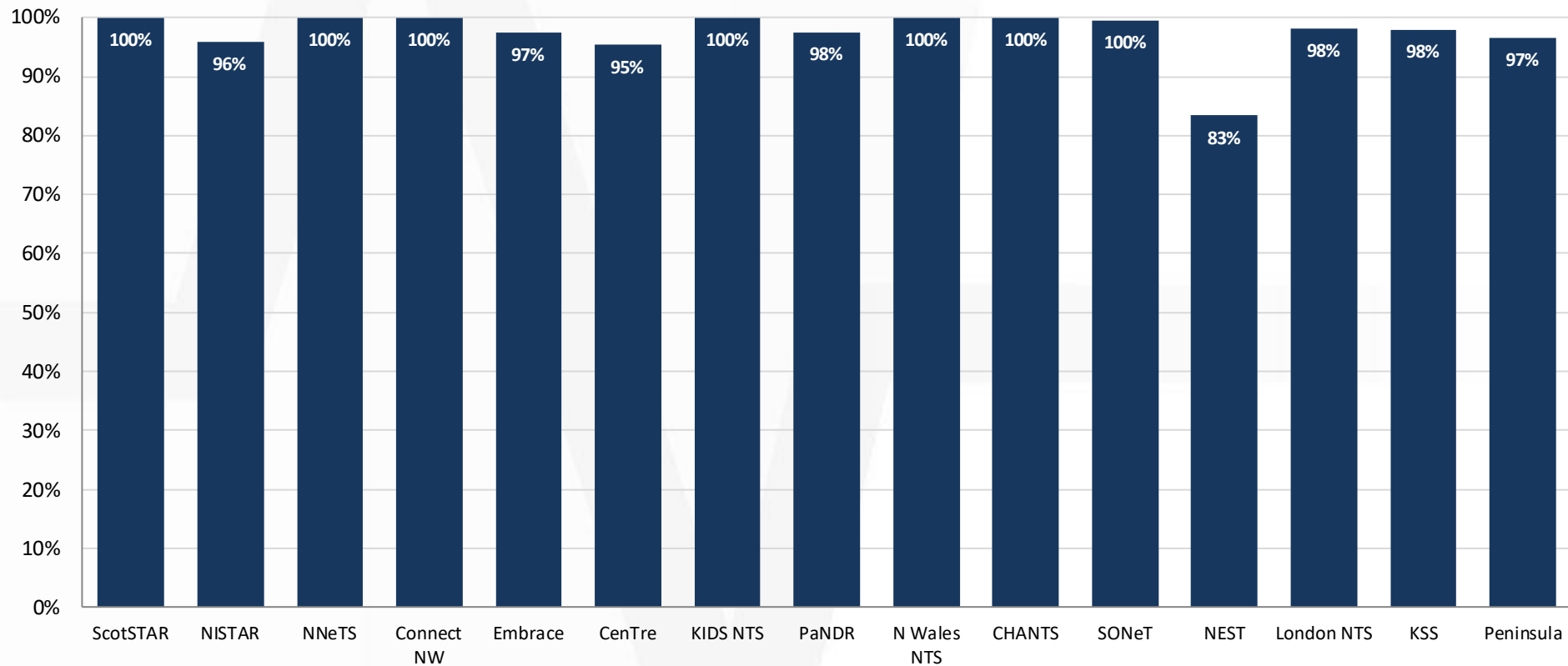
Numbers of Uplift transfers in dedicated area 2021/22



Numbers of Uplift transfers conducted by other teams in dedicated area



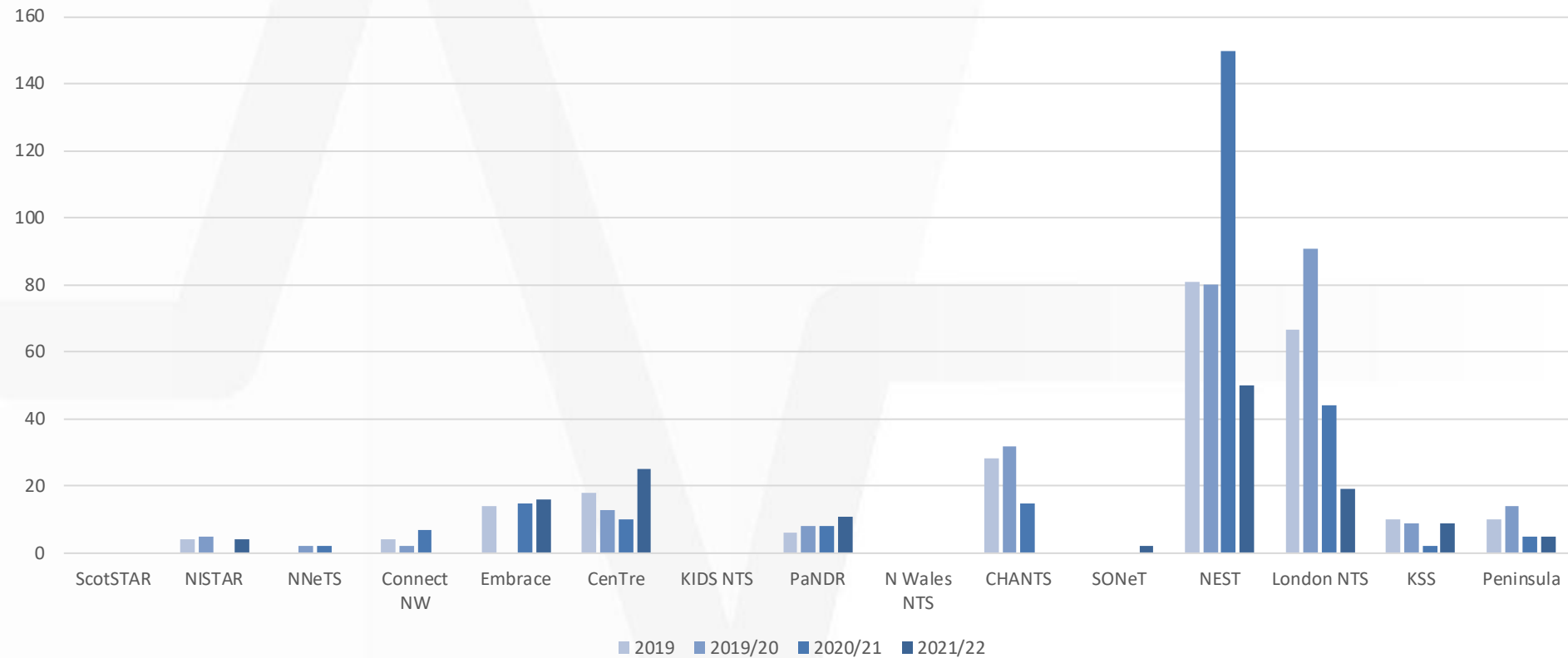
Uplift transfers by Dedicated team in own area as a percentage of total uplift transfers



Number of Uplift transfers by other team in dedicated area 2019 to 2021/22



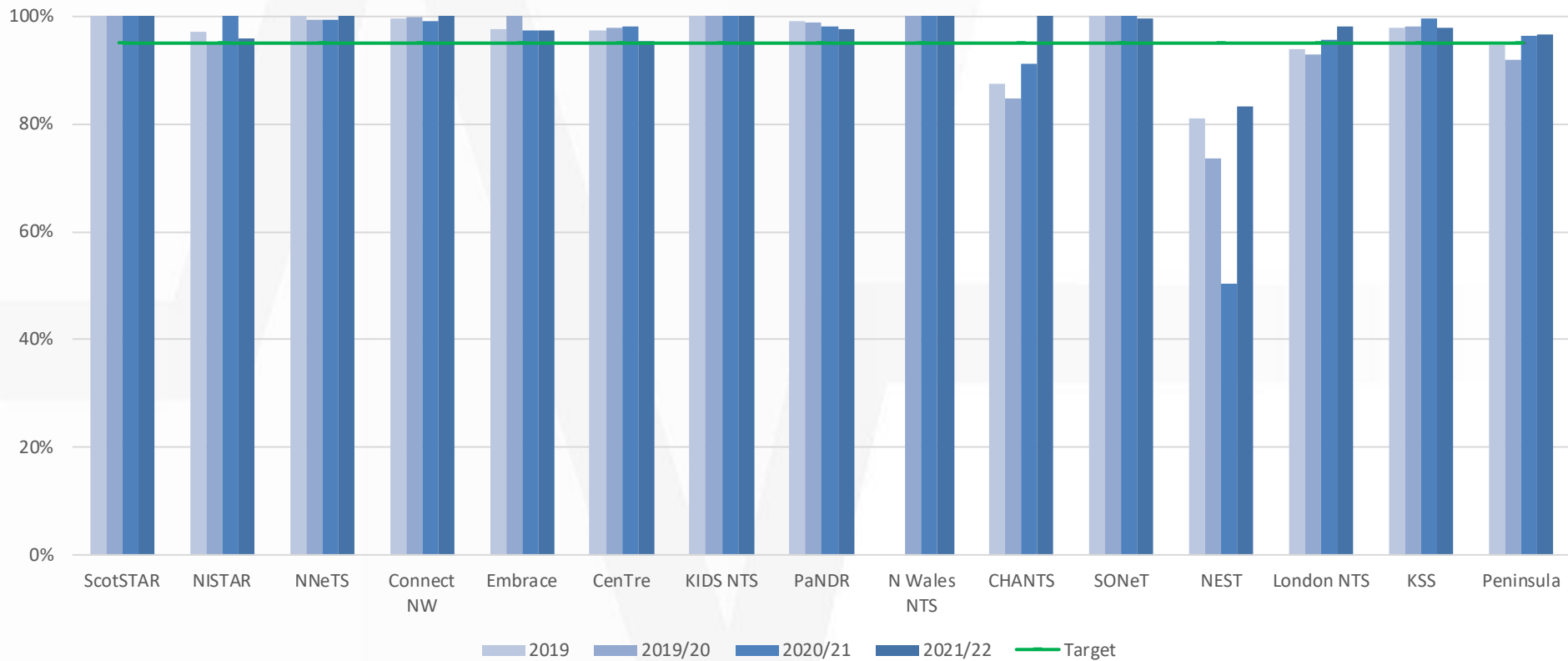
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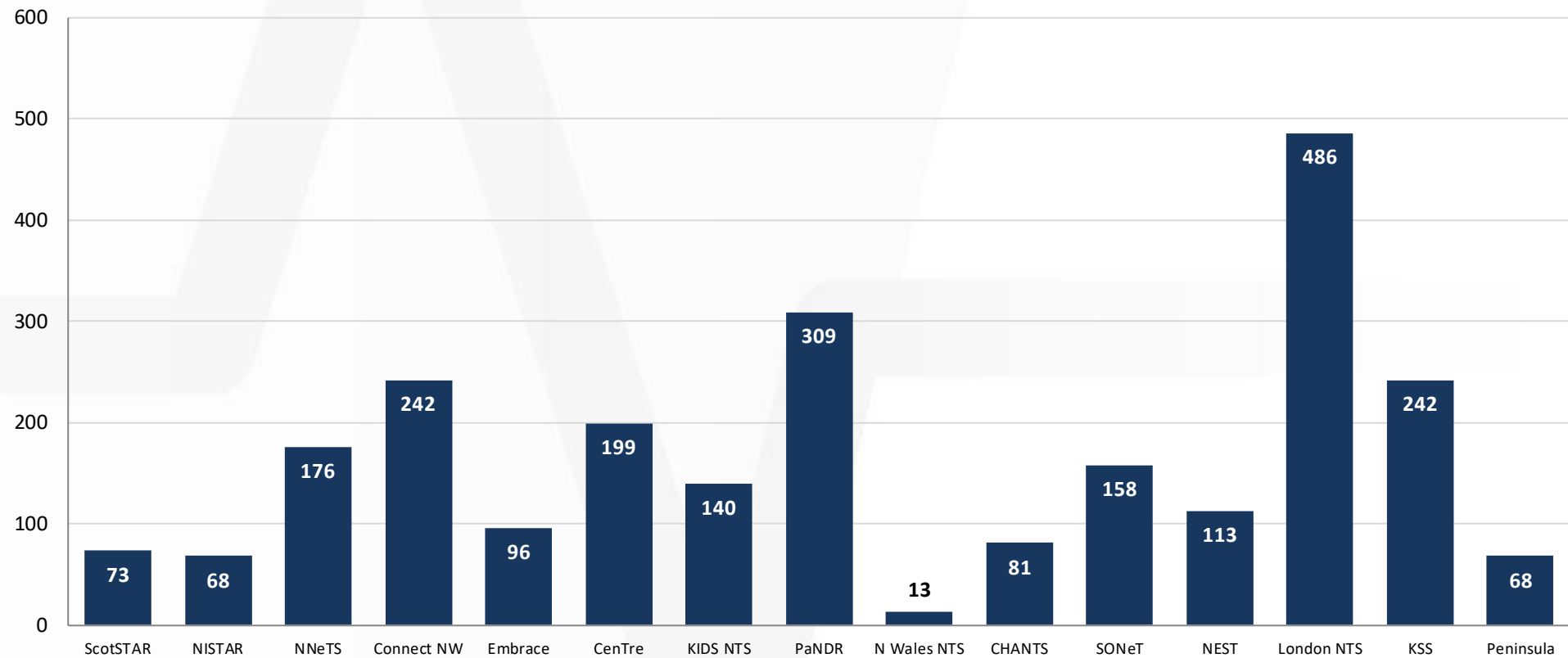
Trends in Uplift transfers by Dedicated team in own area, as a percentage of uplift transfers 2019 to 2021/22



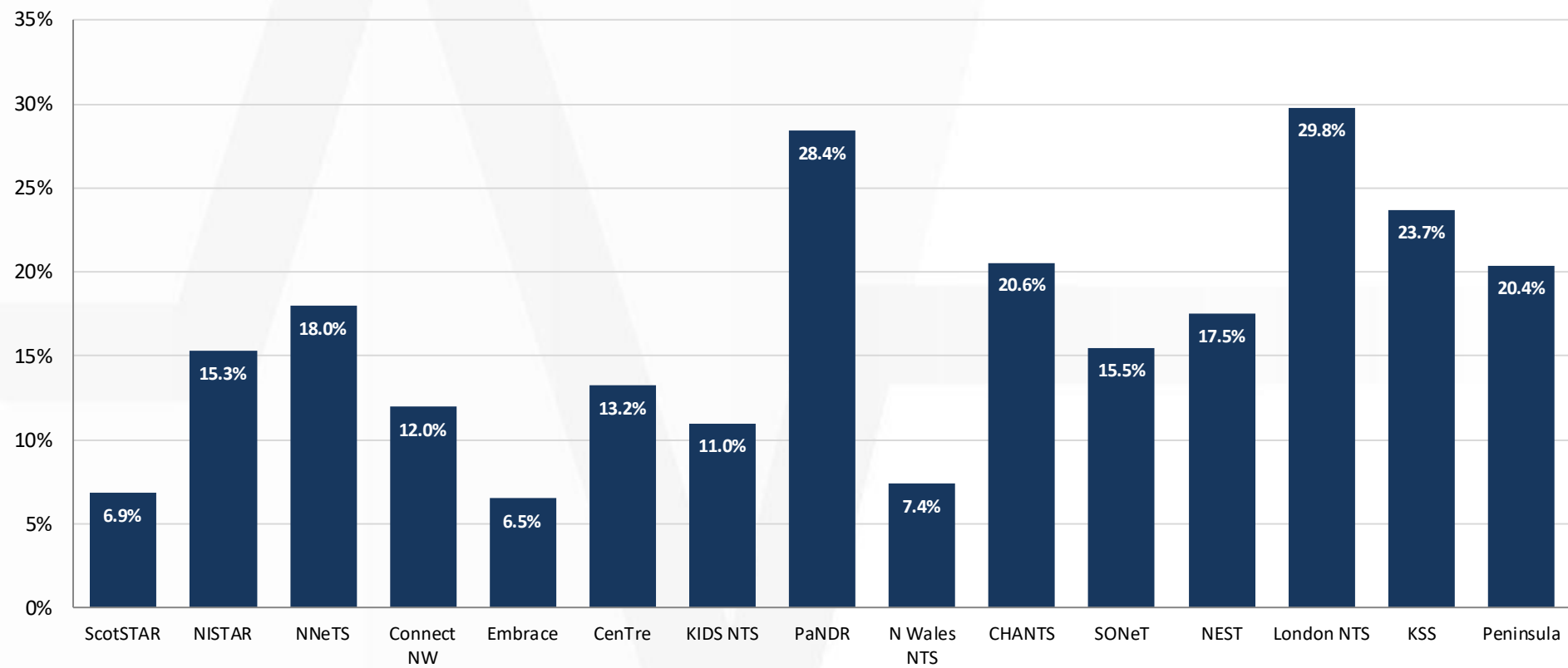
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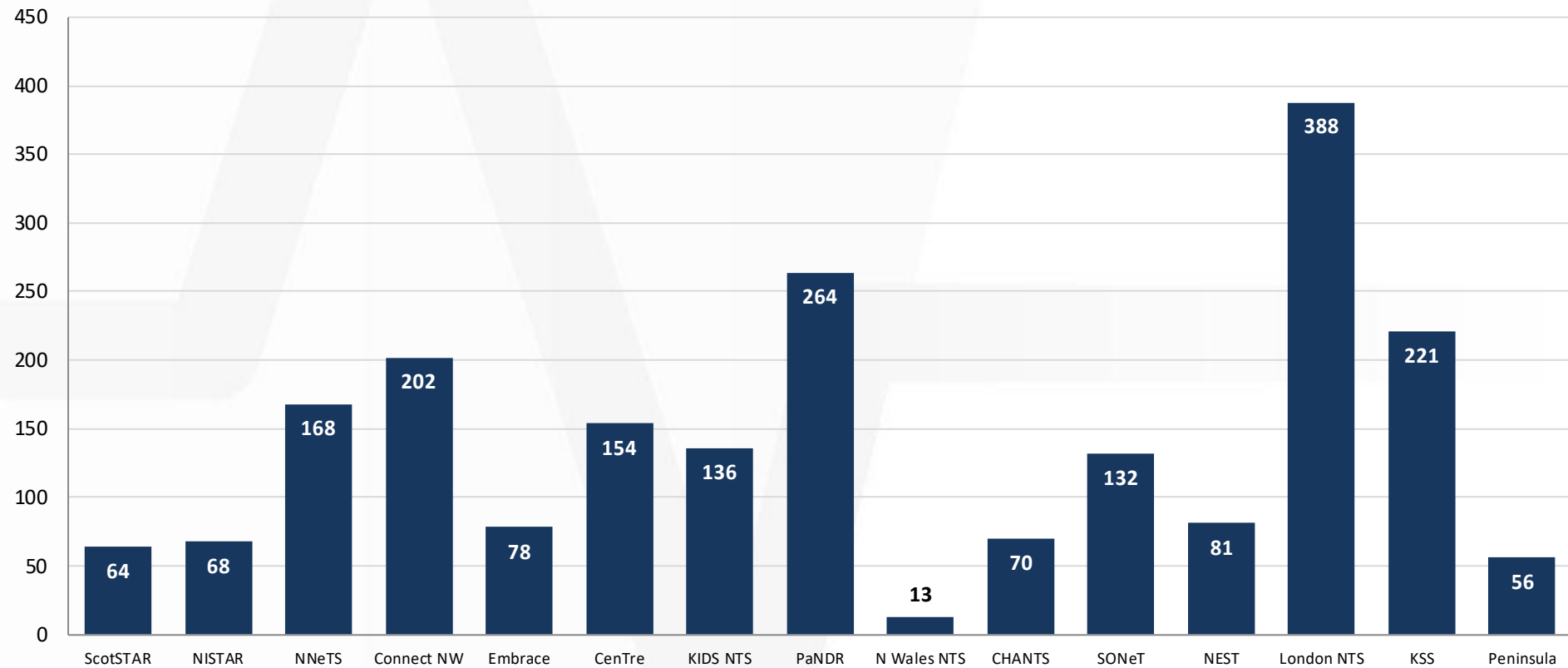
Number of Intensive Care Uplift Transfers 2021/22



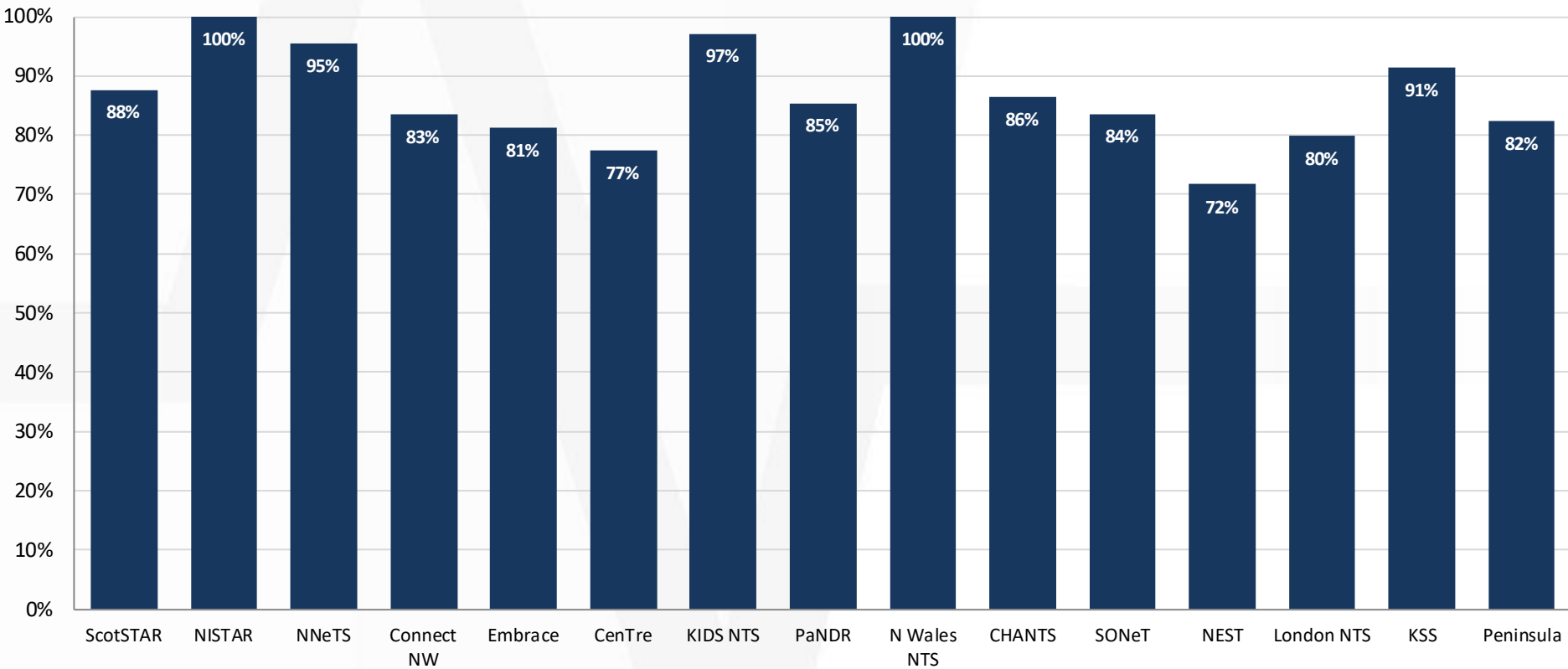
Intensive care Uplift Transfers as a Percentage of total transfers 2021/22



Team arrived with the patient within 3.5 hours of the start of the referring call (Intensive care; uplift), numbers, 2021/22



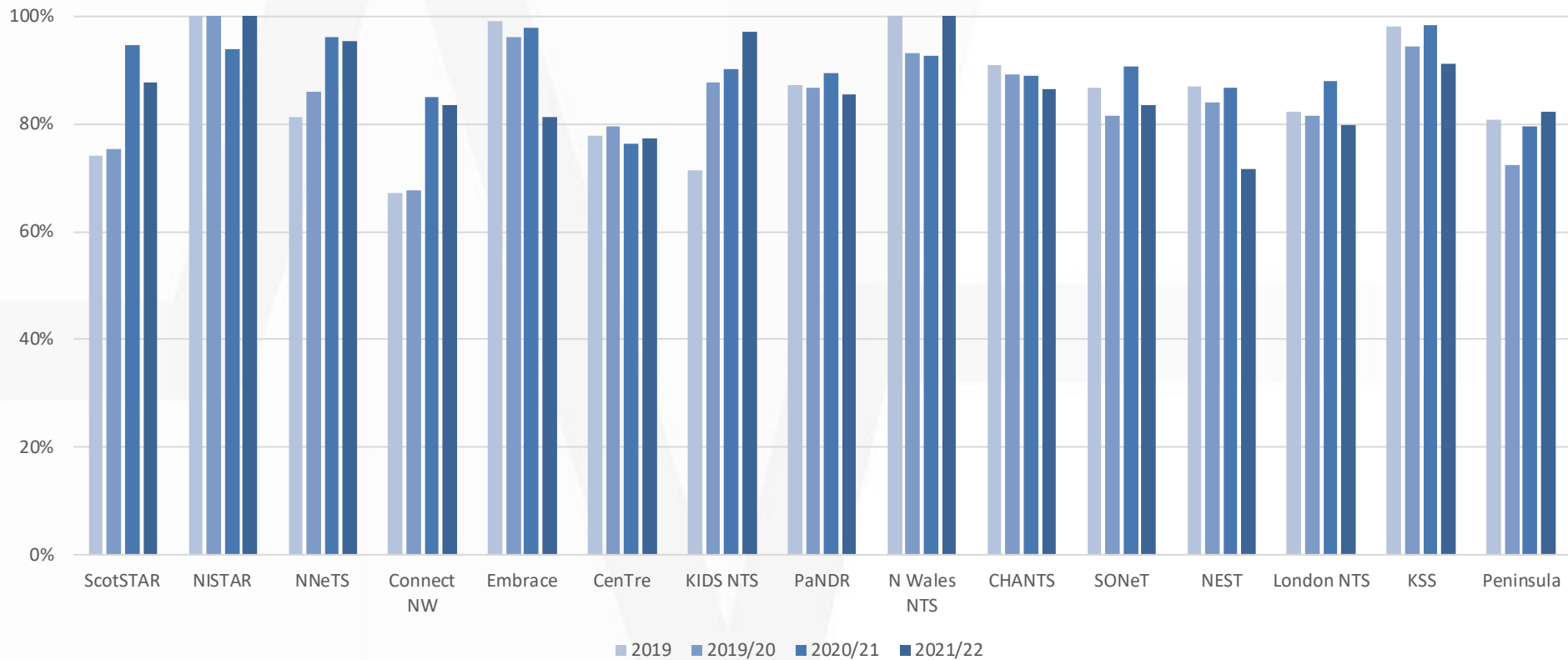
Team arrived with the patient within 3.5 hours of the start of the referring call (Intensive care; uplift) as a percentage of ICU uplift transfers 2021/22



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 2019 to 2021/22



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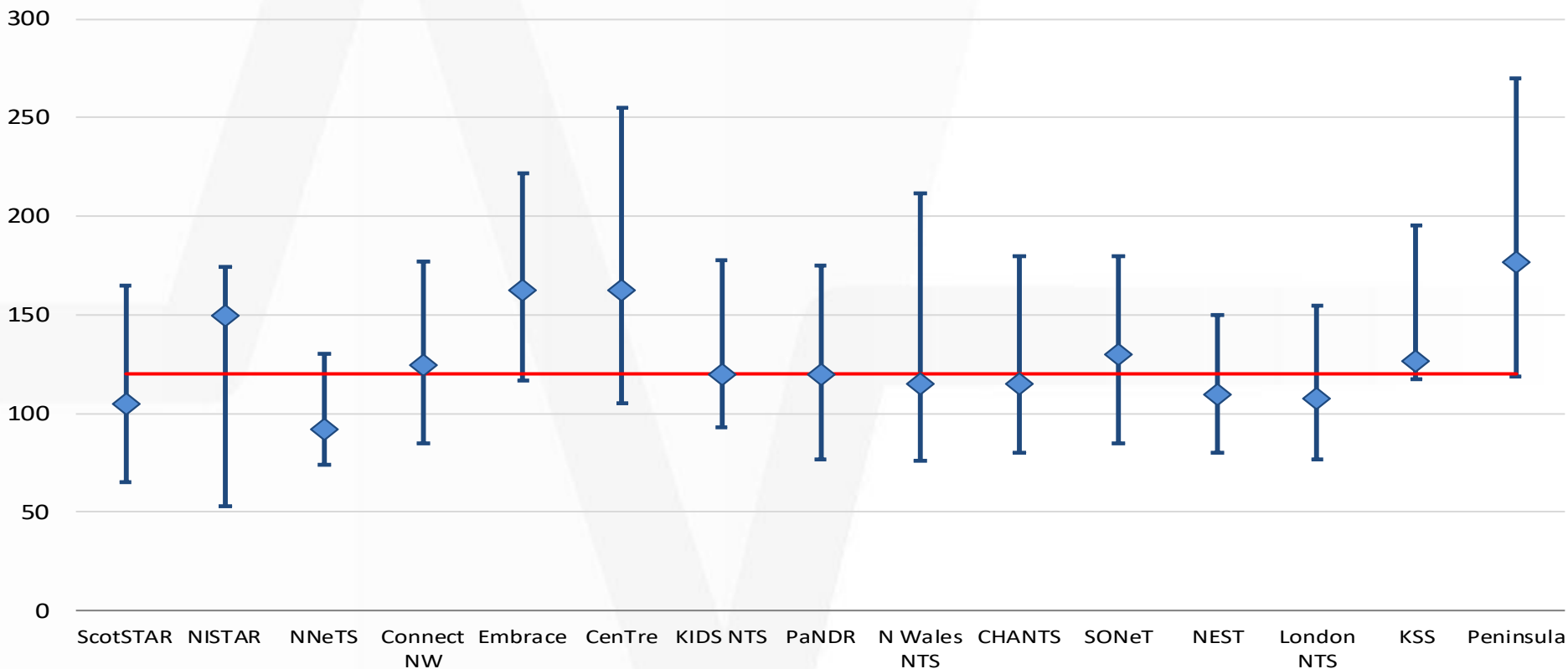


Stabilising time (minutes), 2021/22

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

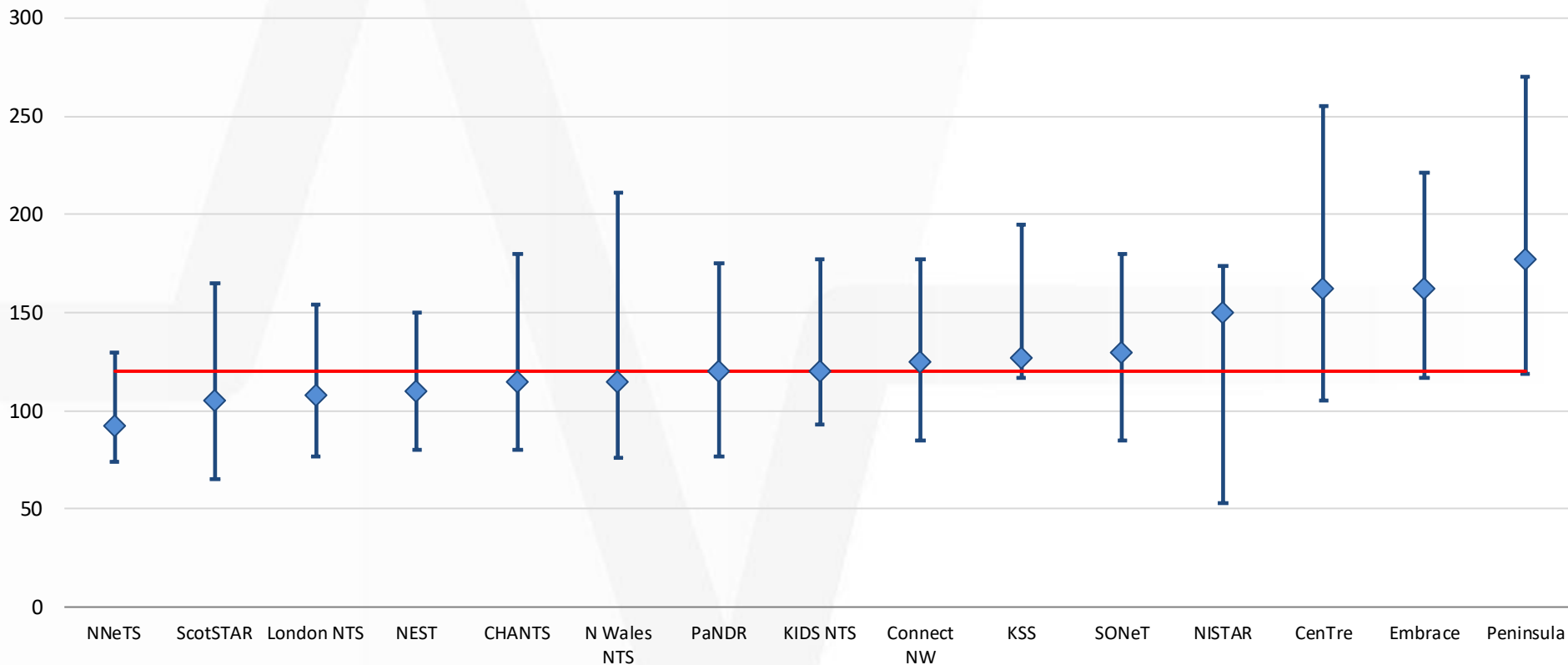


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Stabilising time (minutes), 2021/22

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

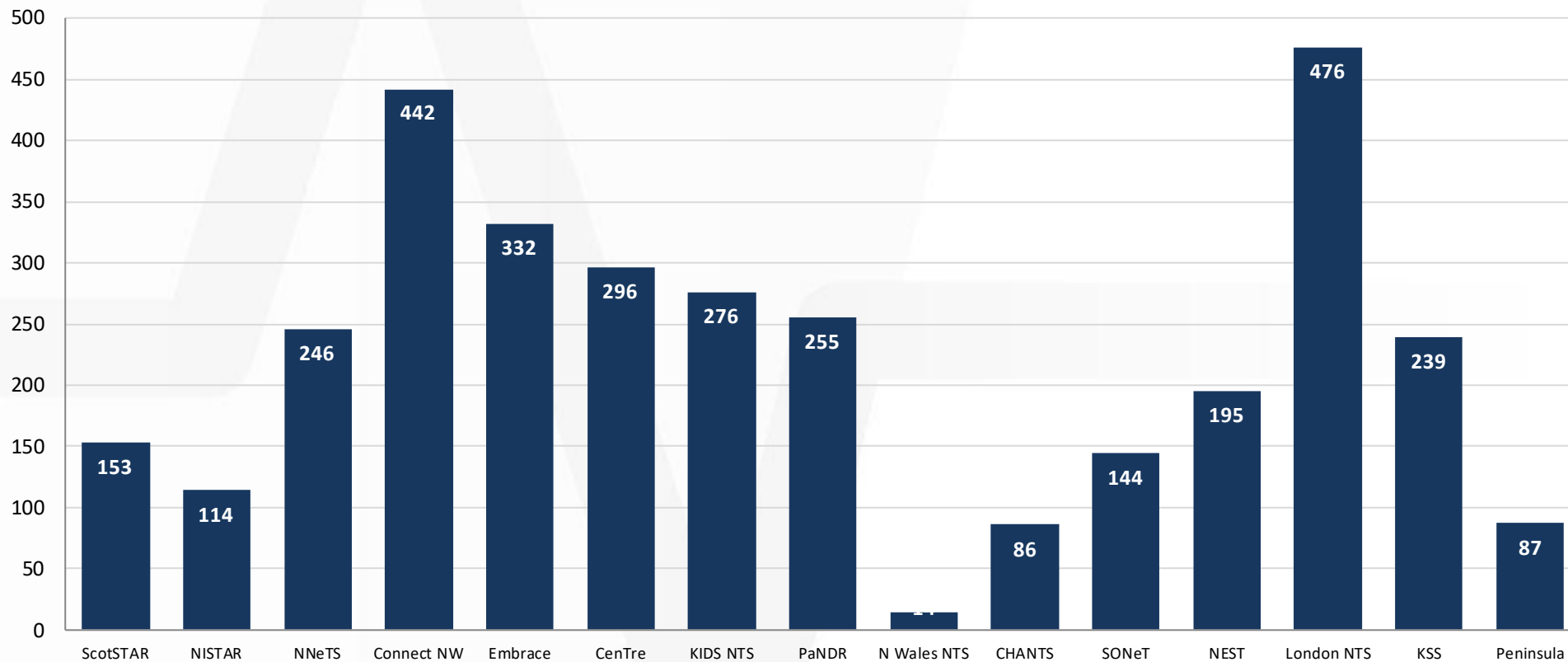




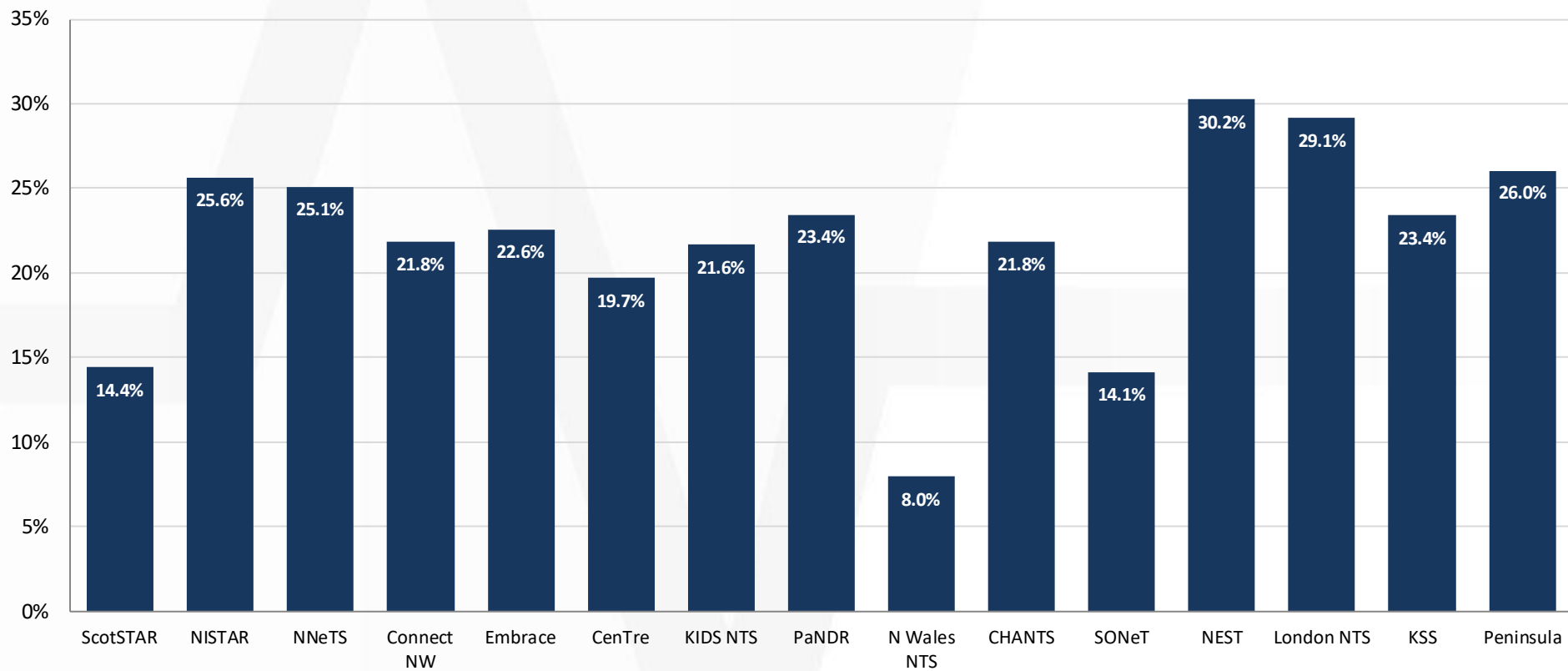
Under and over ventilation



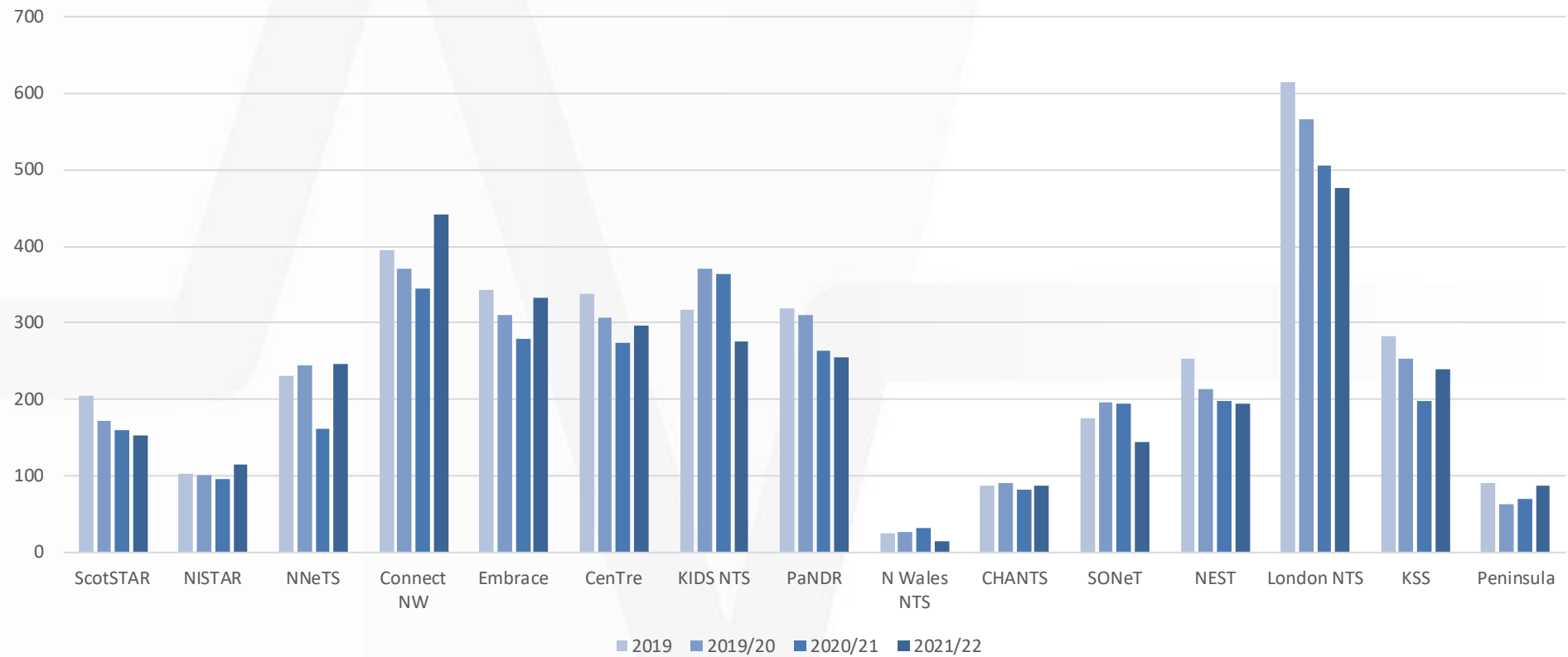
Number of infants who are ventilated in transit by team Apr 2021 to Mar 2022



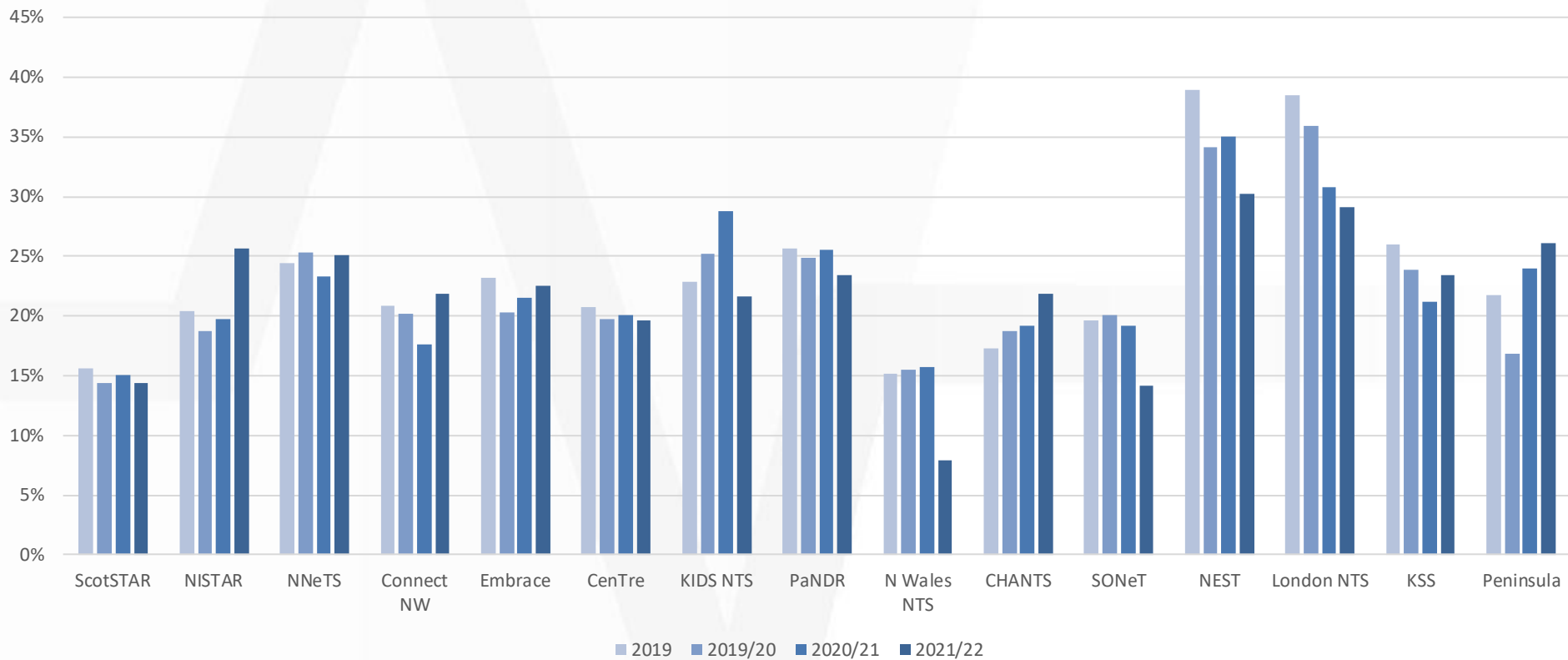
Infants who are ventilated in transit as a percentage of total transfers, by team Apr 2021 to Mar 2022



Trends in numbers of infants ventilated in transit by team, 2019 to 2021/22



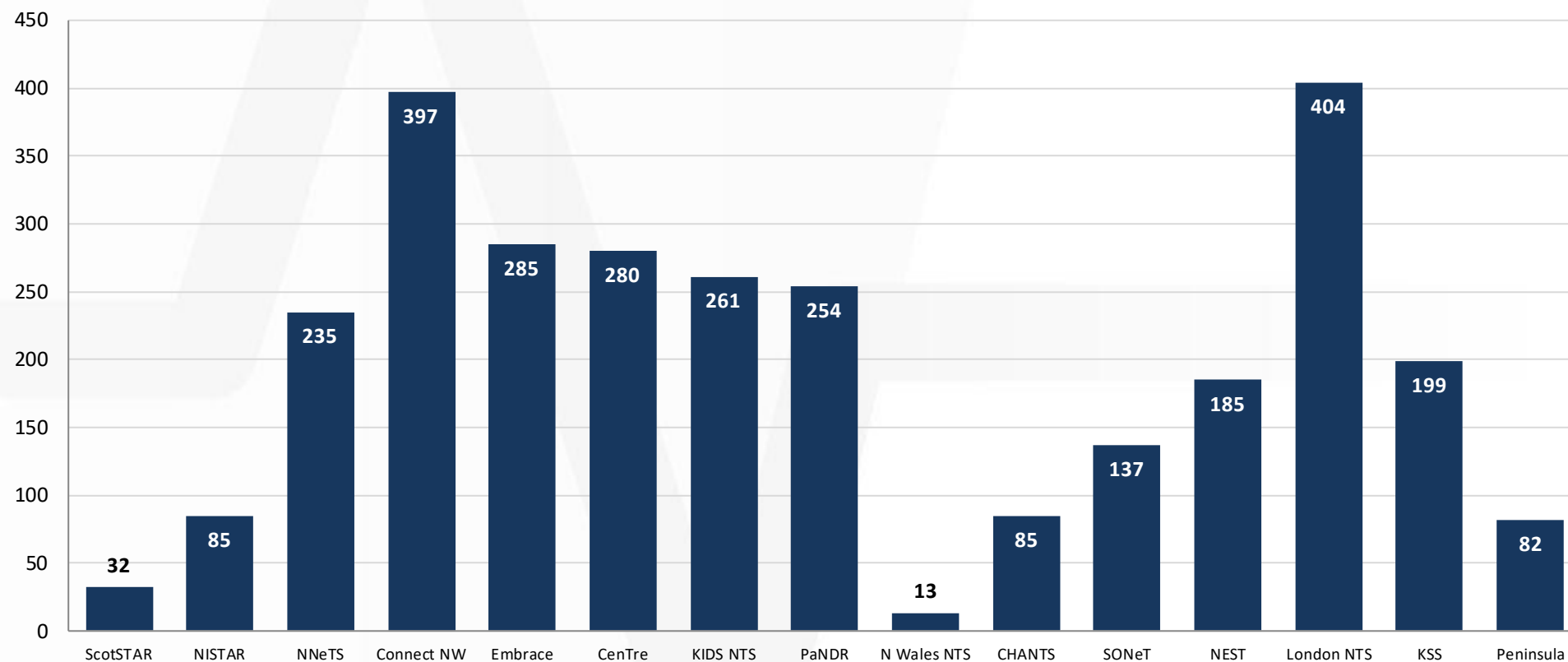
Trends in infants ventilated in transit as a percentage of total transfers, by team 2019 to 2021/22



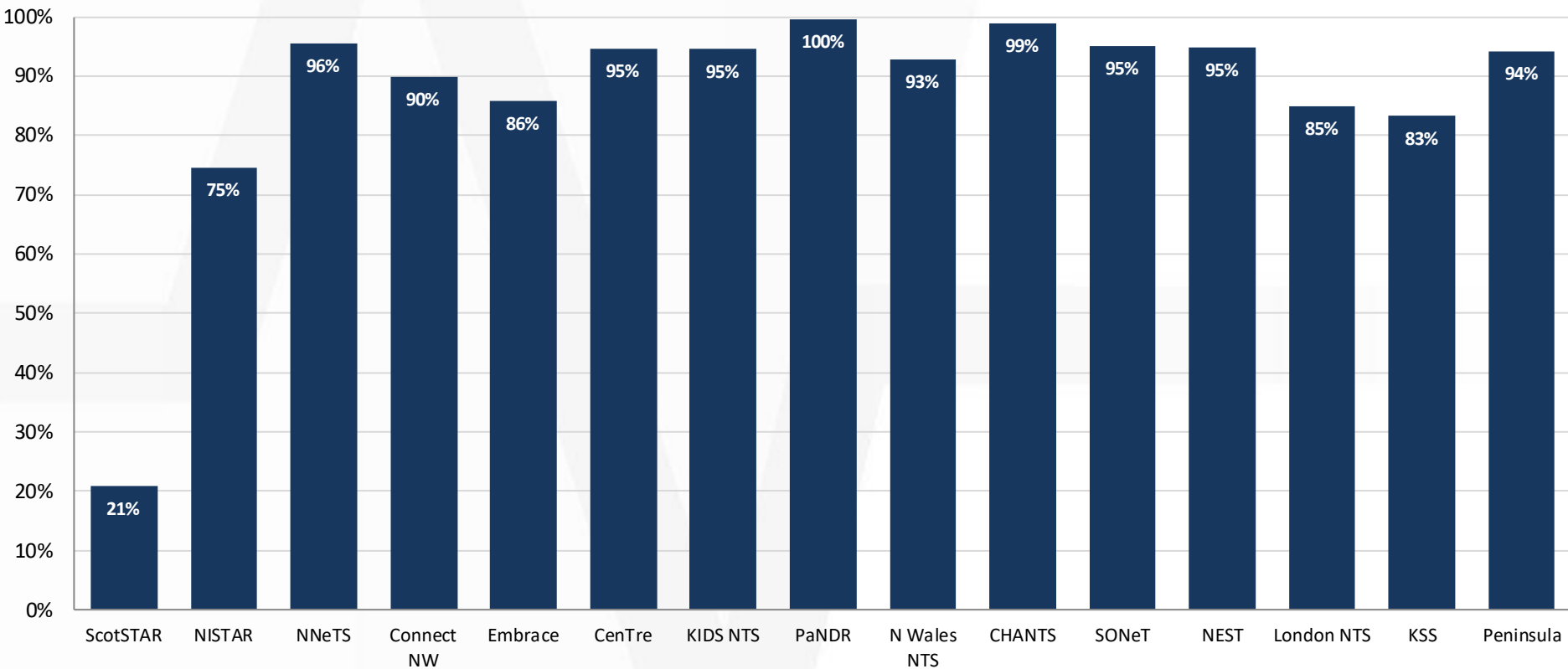
Number of infants ventilated in transfer with a pCO₂ recorded on completion of the transfer by team Apr 2021 to Mar 2022



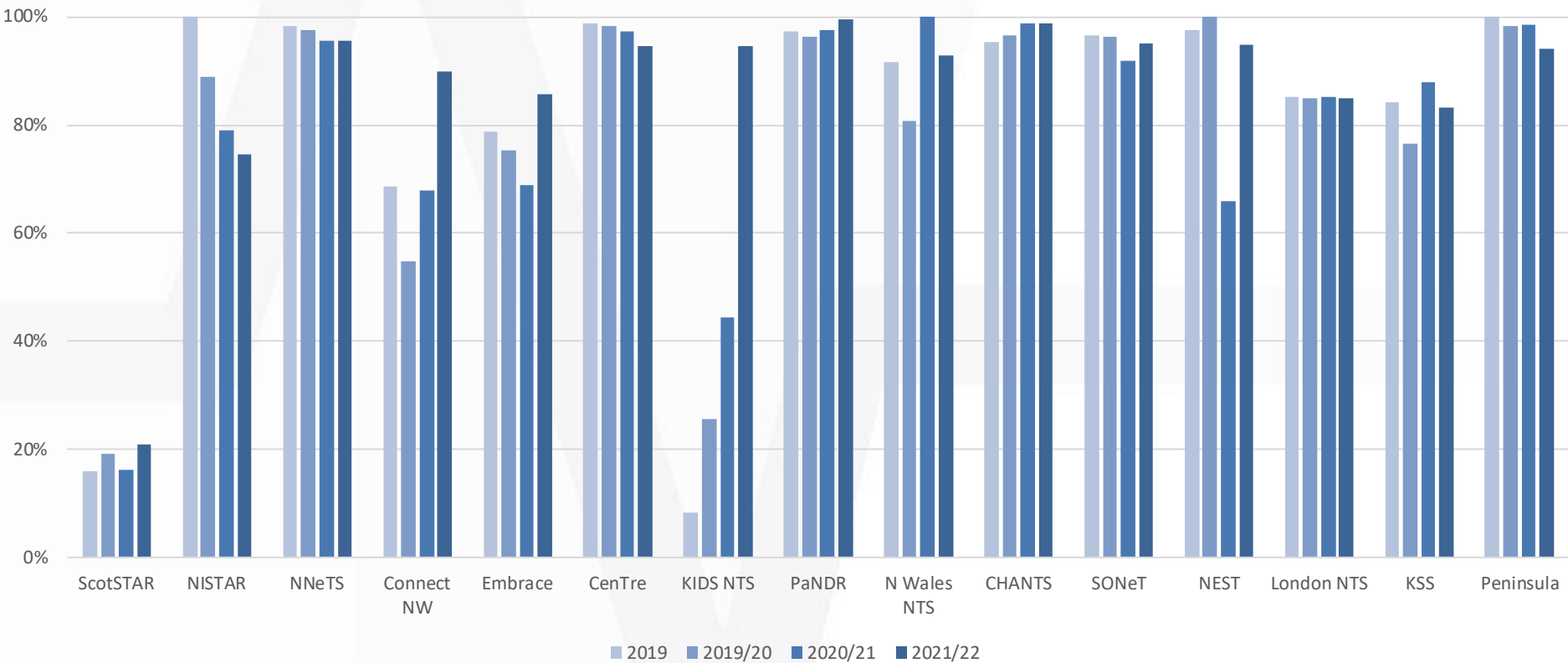
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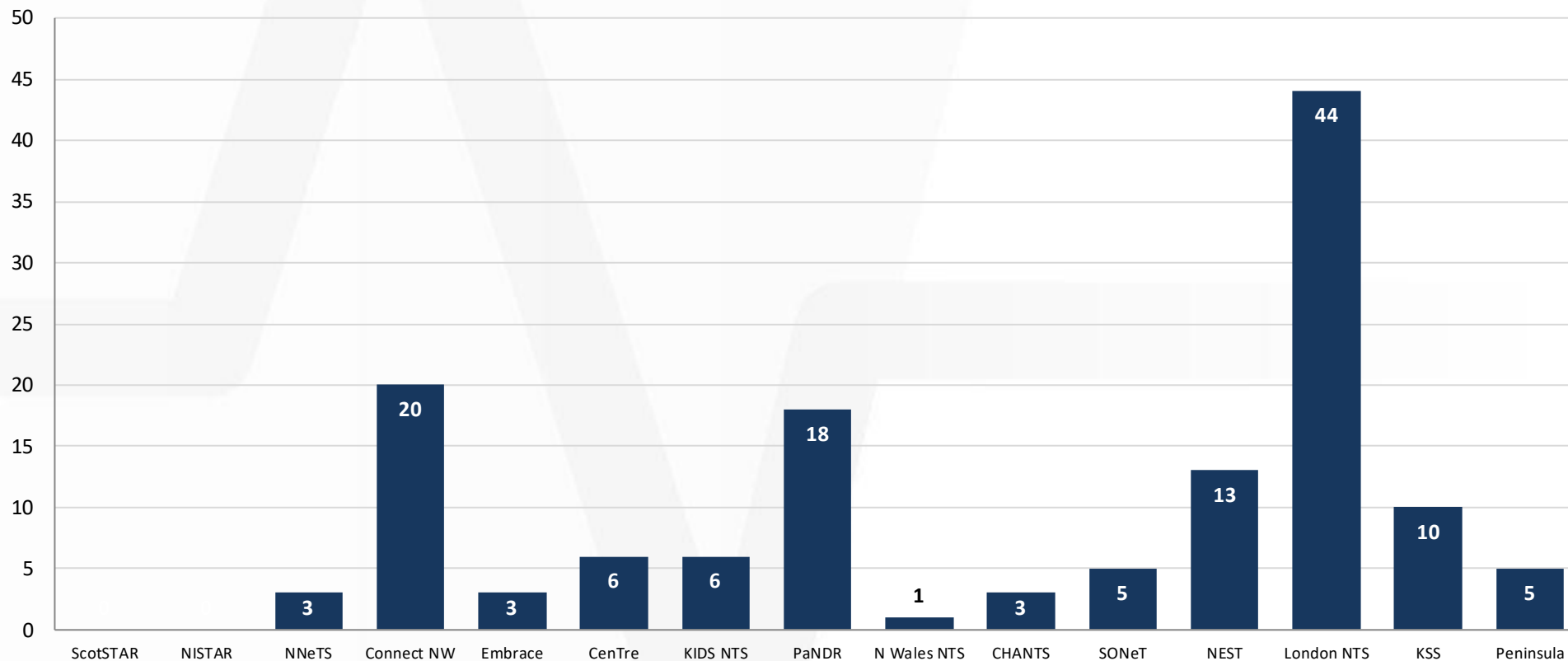
Ventilated patients with a pCO₂ recorded on completion of transfer, as a percentage of ventilated transfers by team Apr 2021 to Mar 2022



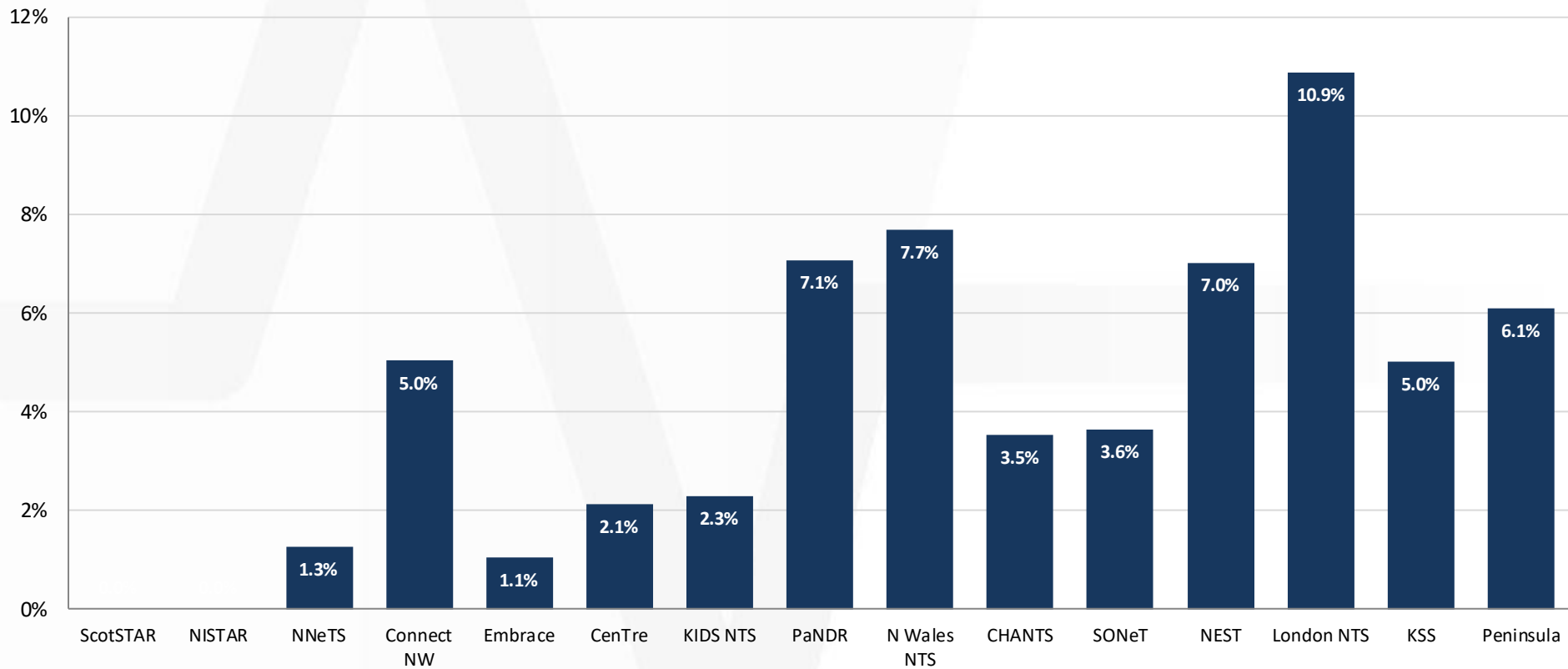
Trends in percentages of ventilated infants with a pCO₂ recorded on completion of the transfer, by team, 2019 to 2021/22



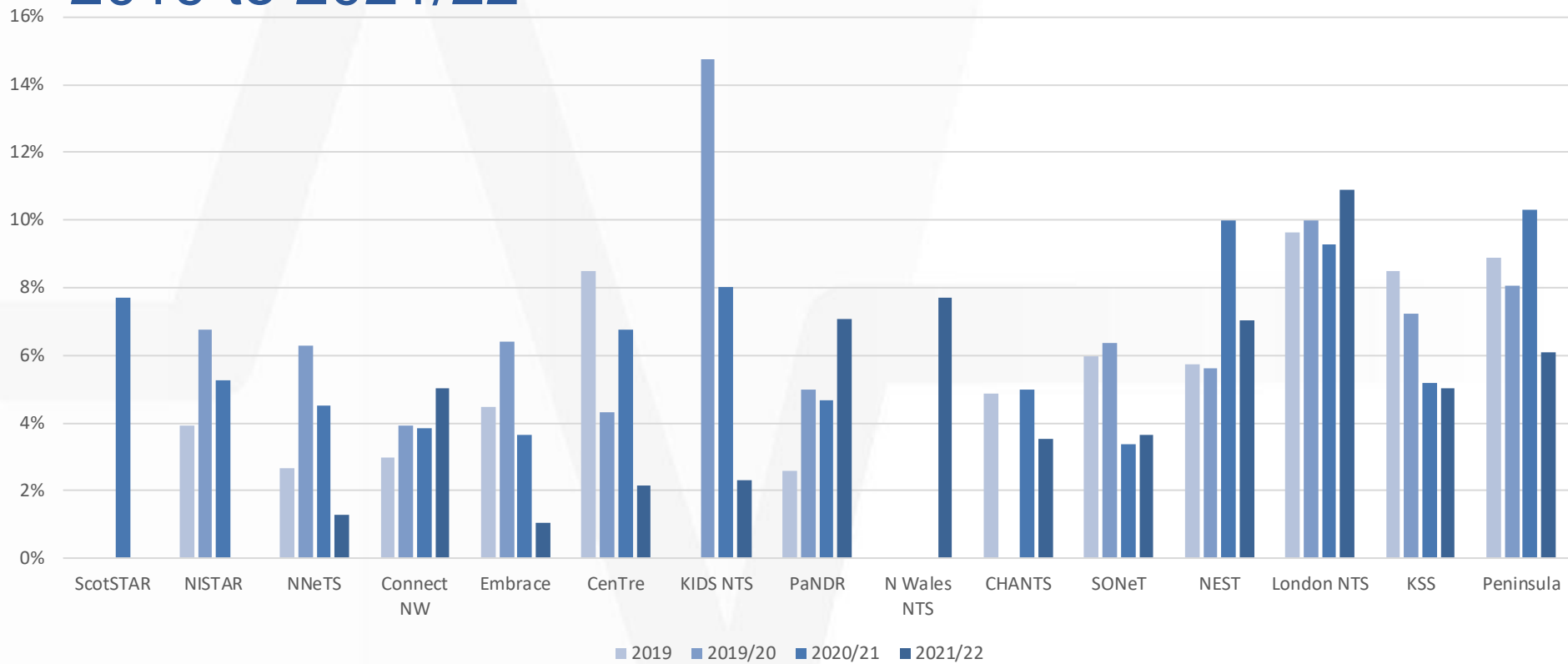
Numbers of ventilated patients with a pCO₂ <4 kPa on completion of transfer, by team Apr 2020 to Mar 2021



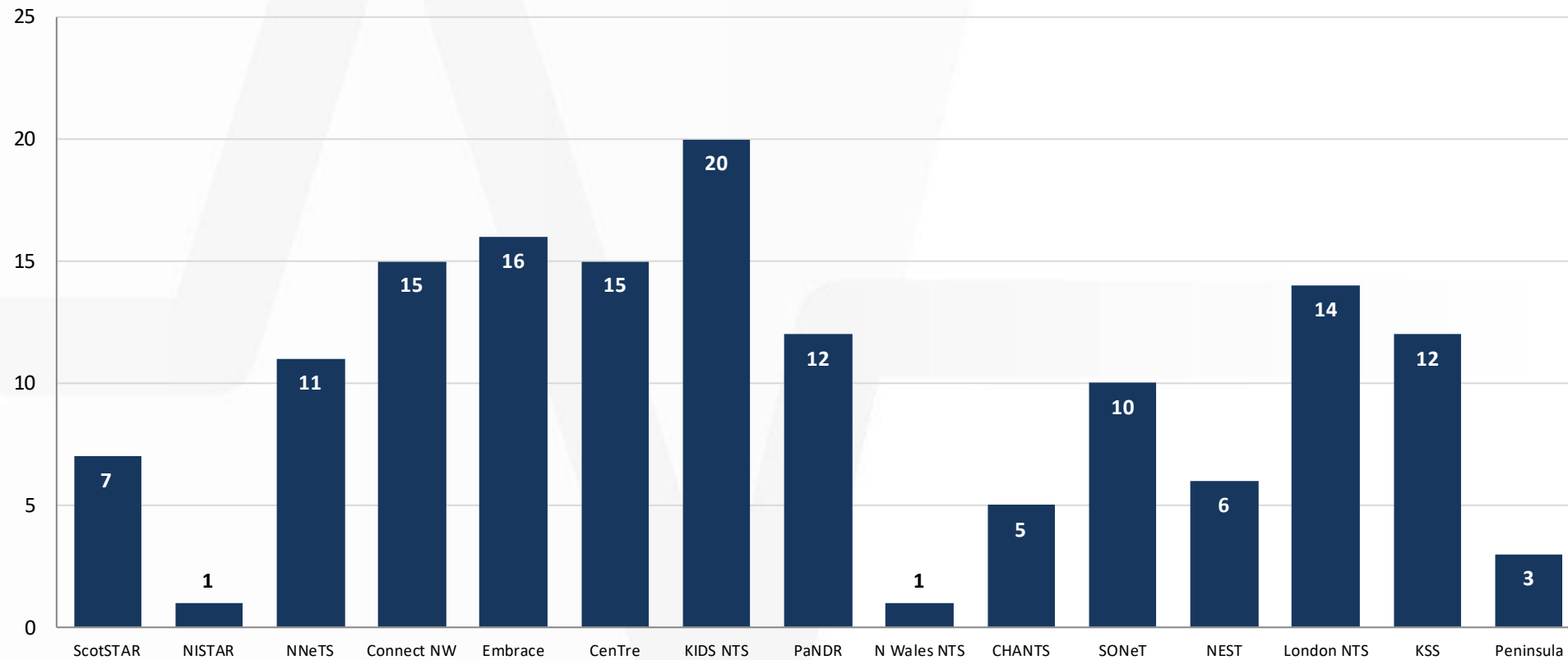
pCO₂ <4 on completion of transfer as a percentage of ventilated transfers by team, 2021/22



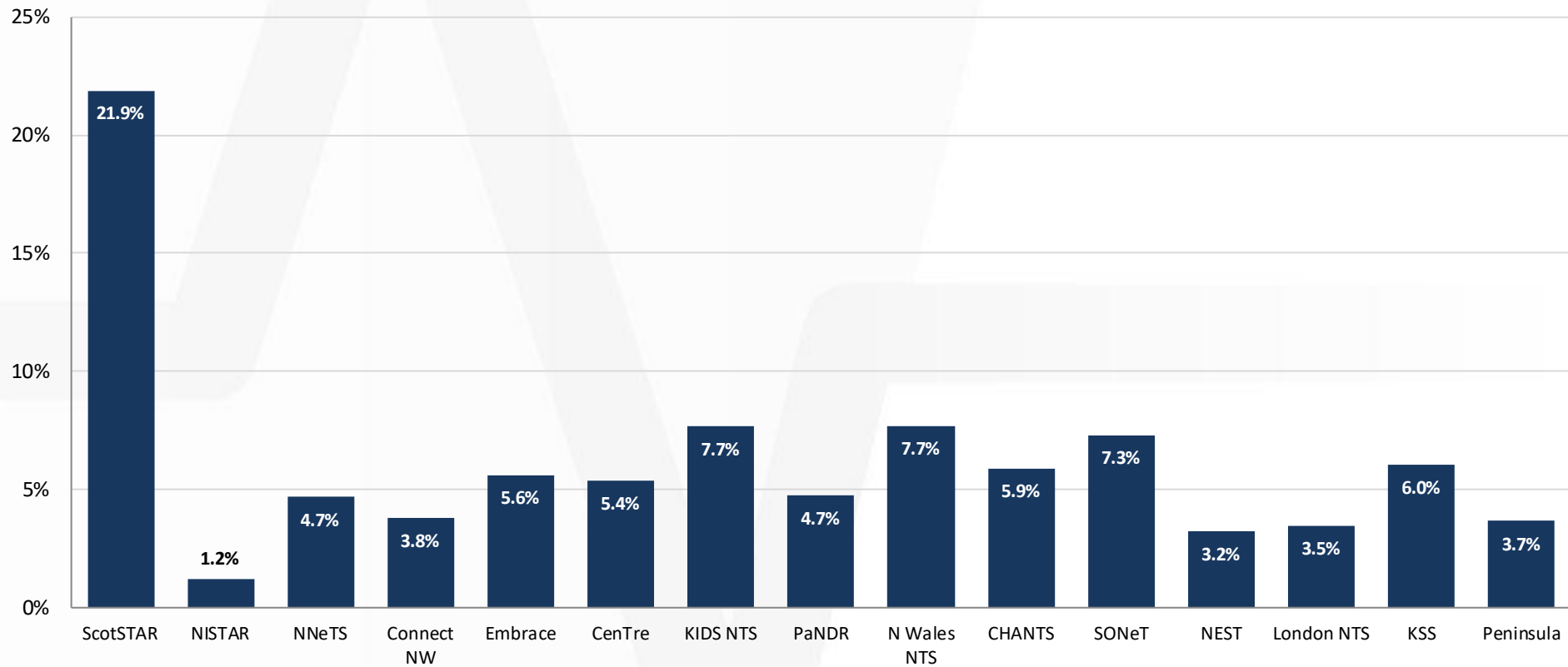
Trends in infants with $p\text{CO}_2 < 4\text{kPa}$ on completion of transfer, as a percentage of ventilated transfers with $p\text{CO}_2$ recorded, by team 2019 to 2021/22



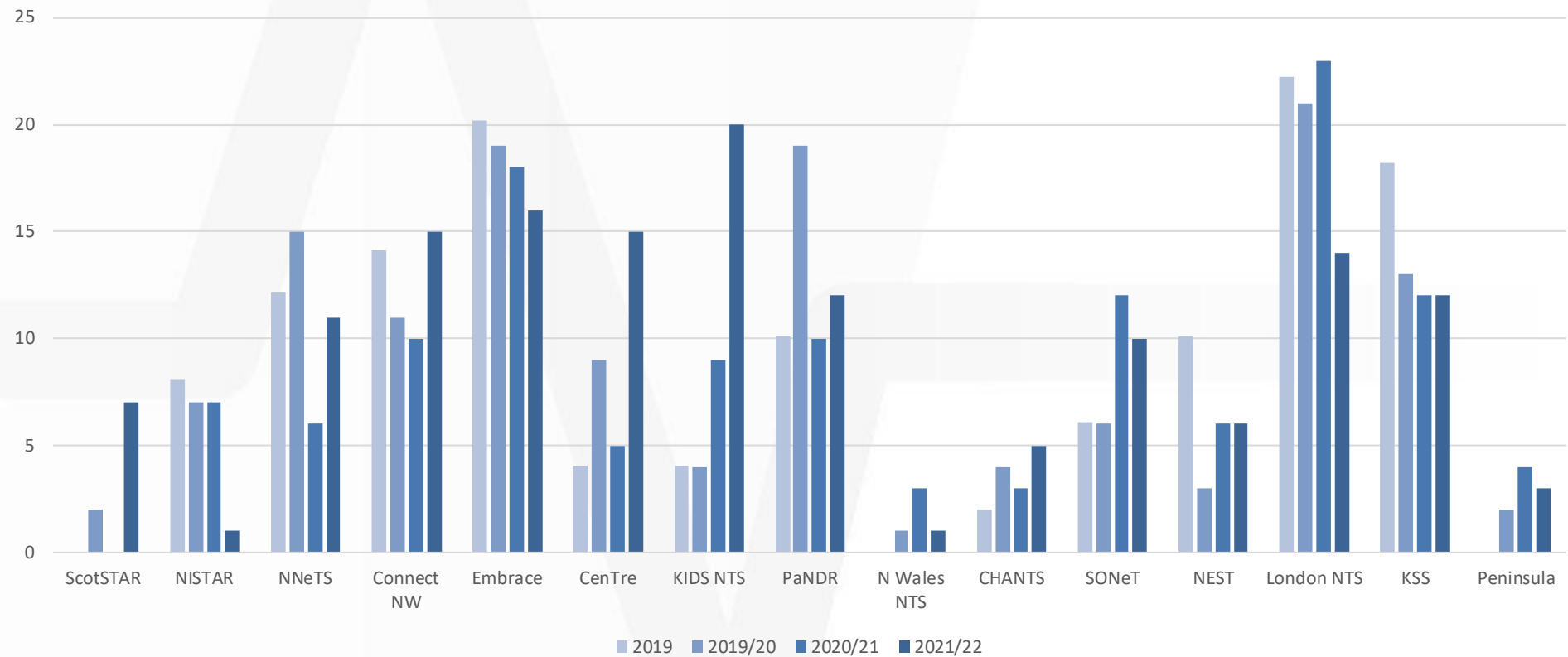
Numbers where $p\text{CO}_2 > 7$ kPa and $\text{pH} < 7.2$ on completion of transfer by team 2021/22



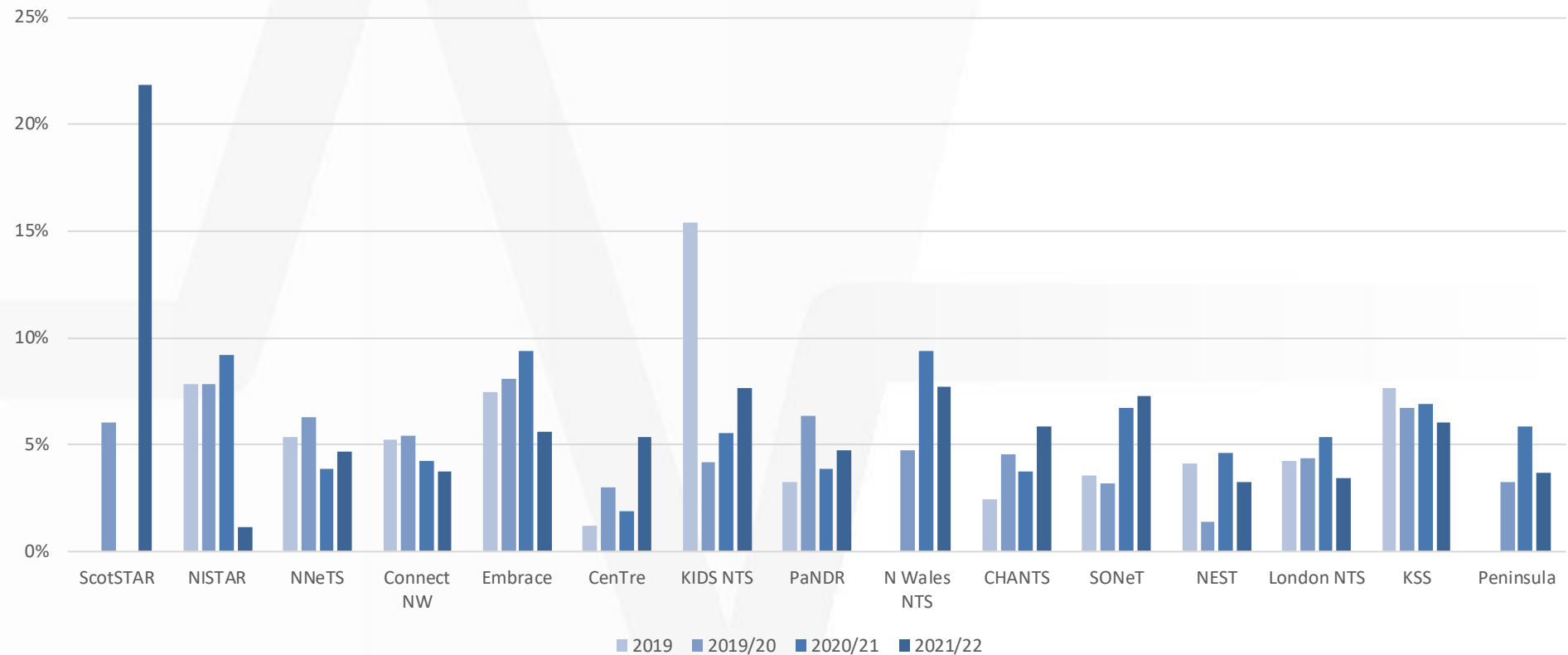
pCO₂ >7 kPa and pH <7.2 on completion of transfer as a percentage of ventilated transfers with pCO₂ recorded by team 2021/22



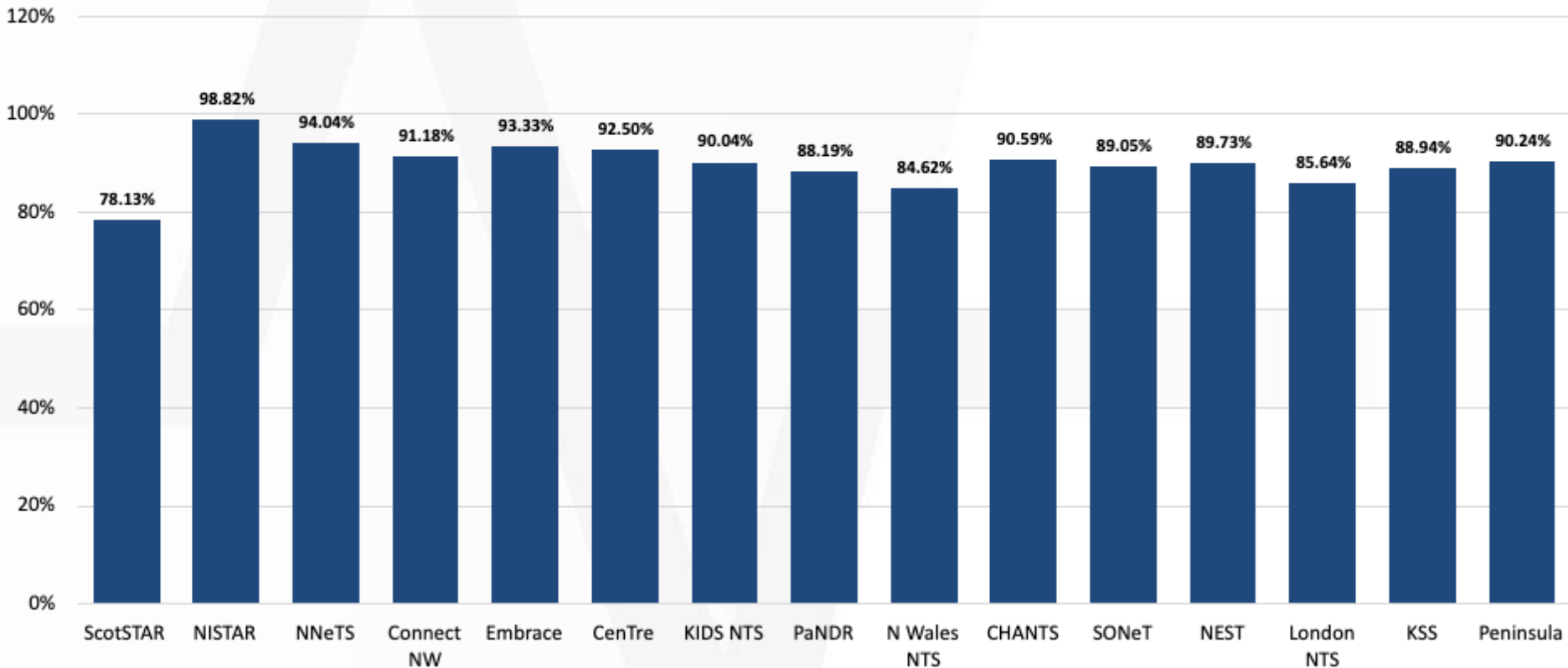
Trends in numbers where CO₂ >7 kPa and pH <7.2 on completion of transfer by team 2019 to 2021/22



Trends In $p\text{CO}_2 >7$ kPa and $\text{pH} <7.2$ on completion of transfer as a percentage of ventilated transfers by team 2019 to 2021/22



“Normocapnia” on completion of transfer rates in ventilated patients with a pCO₂ recorded on completion of transfer, by team Apr 2021 to Mar 2022

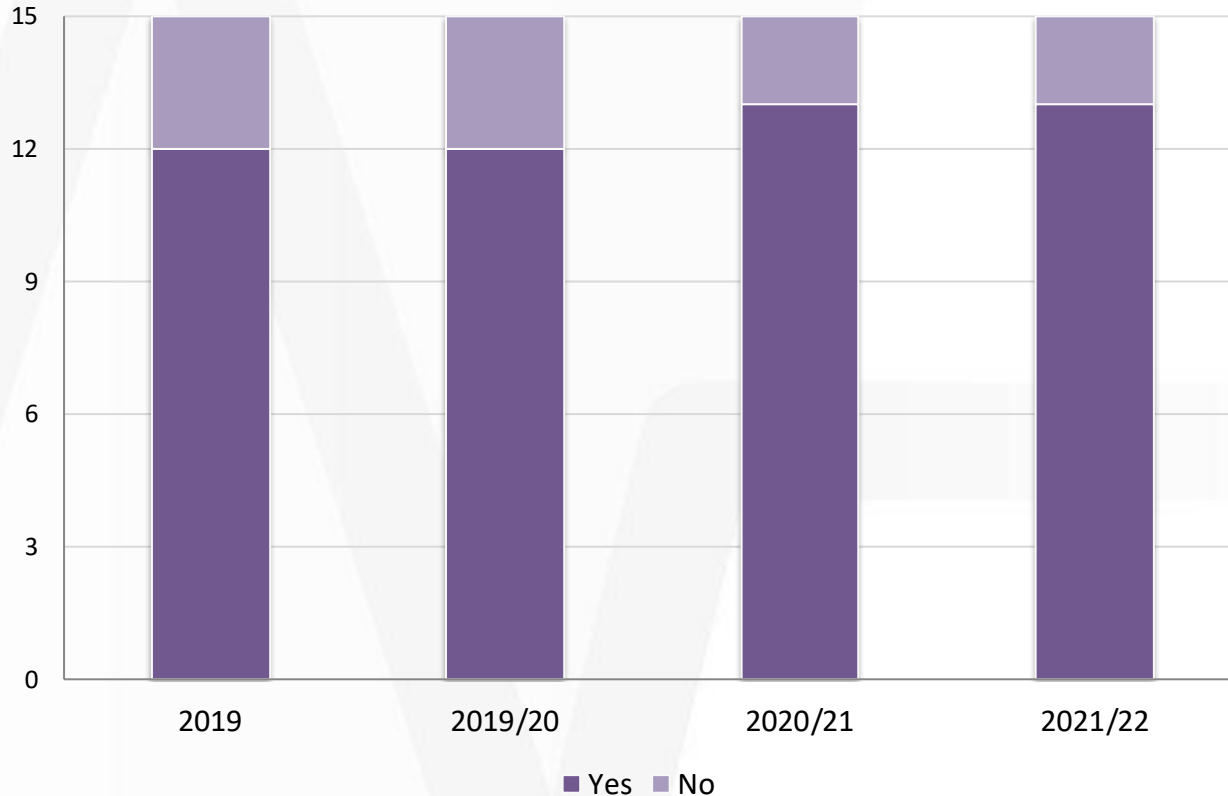


pCO₂>4 kPa and <7kPa (with a pH<7.2)

Team characteristics

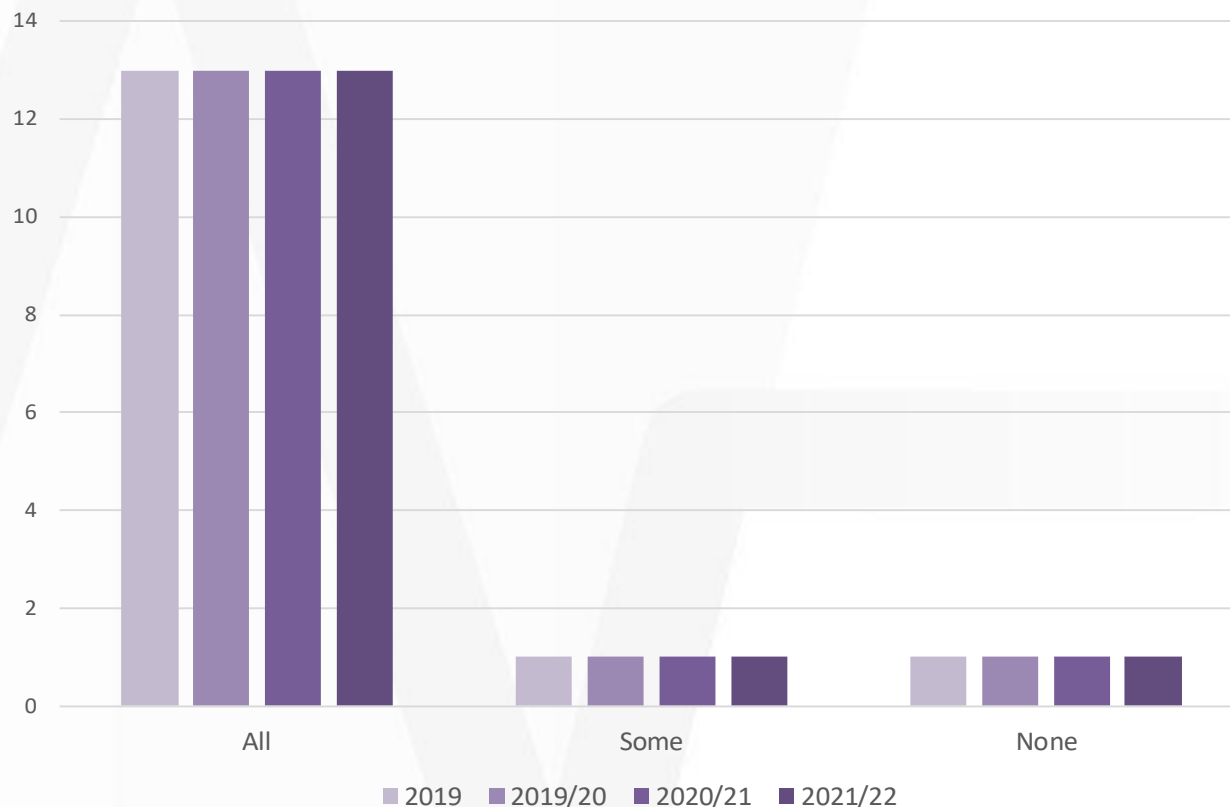
Service Characteristics 2021/22

24 hour service



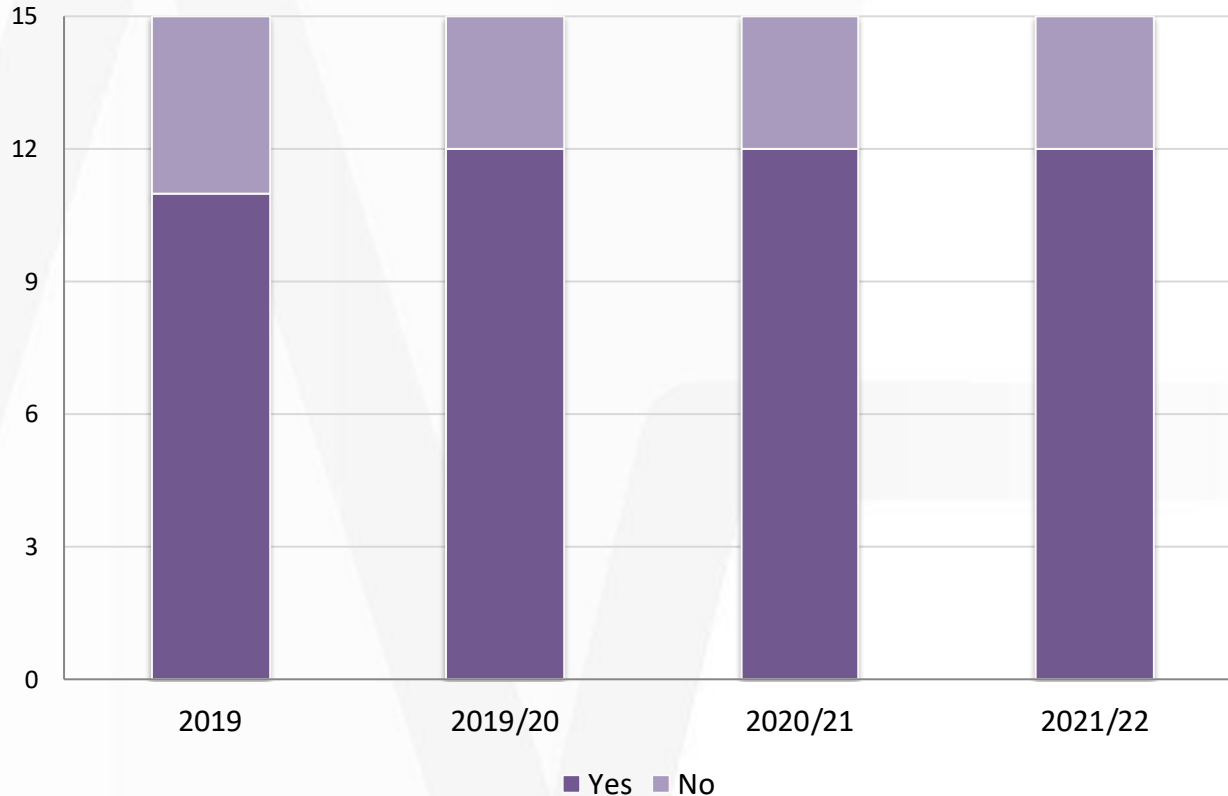
Service Characteristics 2021/22

Dedicated Vehicles



Service Characteristics 2021/22

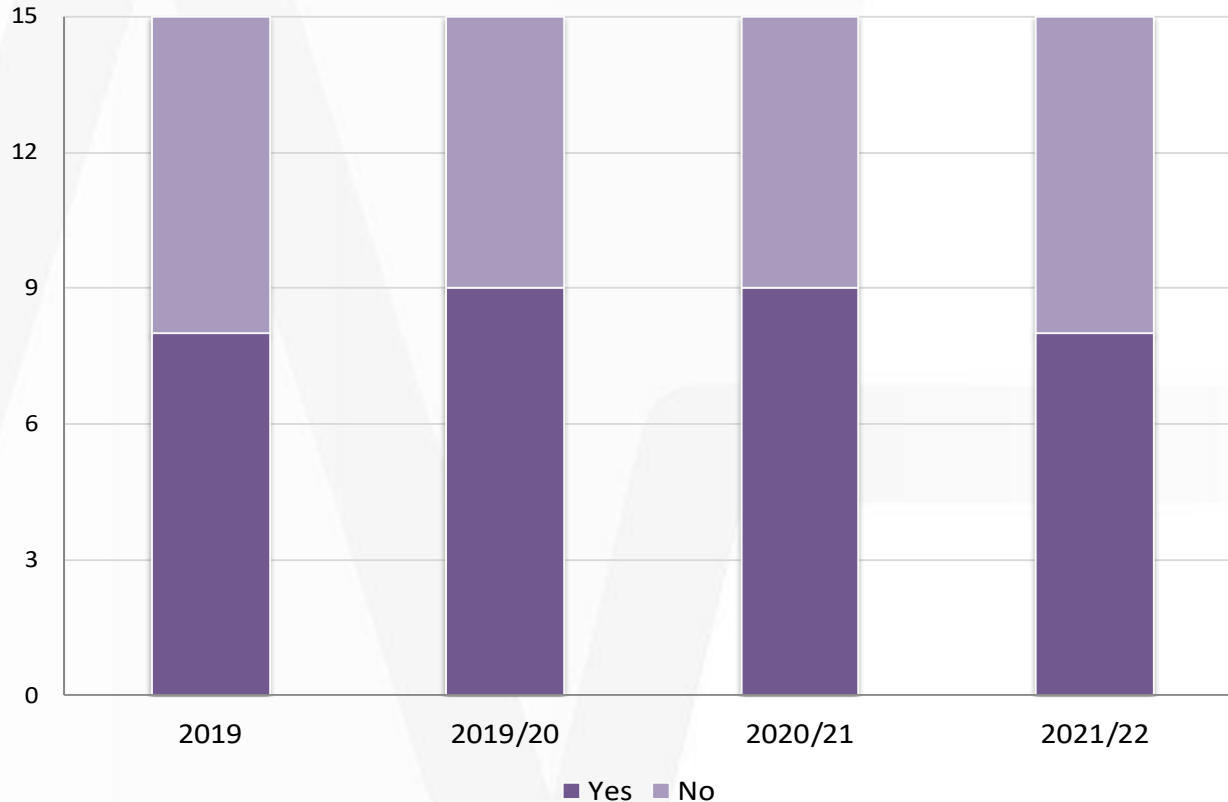
Cot bureau run by the team



Service Characteristics 2021/22

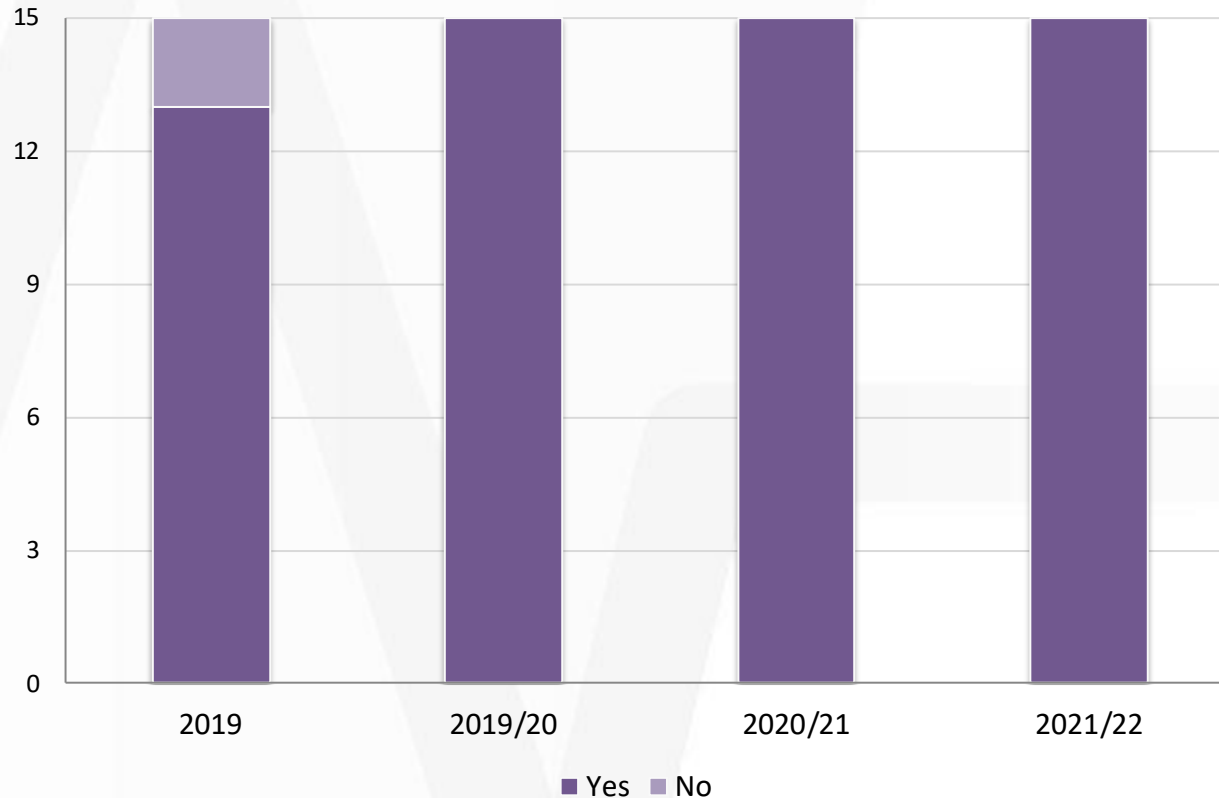


Do you offer support for locating appropriate maternal and neonatal beds for in-utero transfers?



Service Characteristics 2021/22

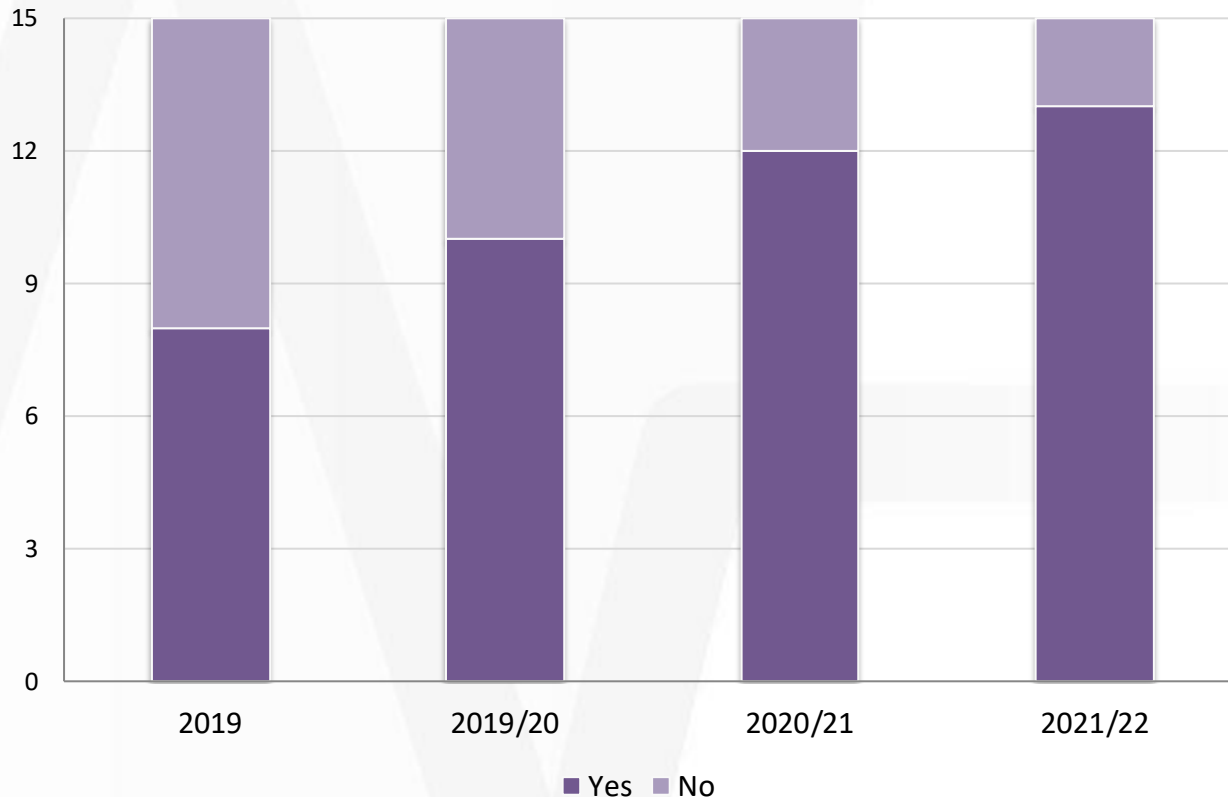
Conference Calling



Service Characteristics 2021/22



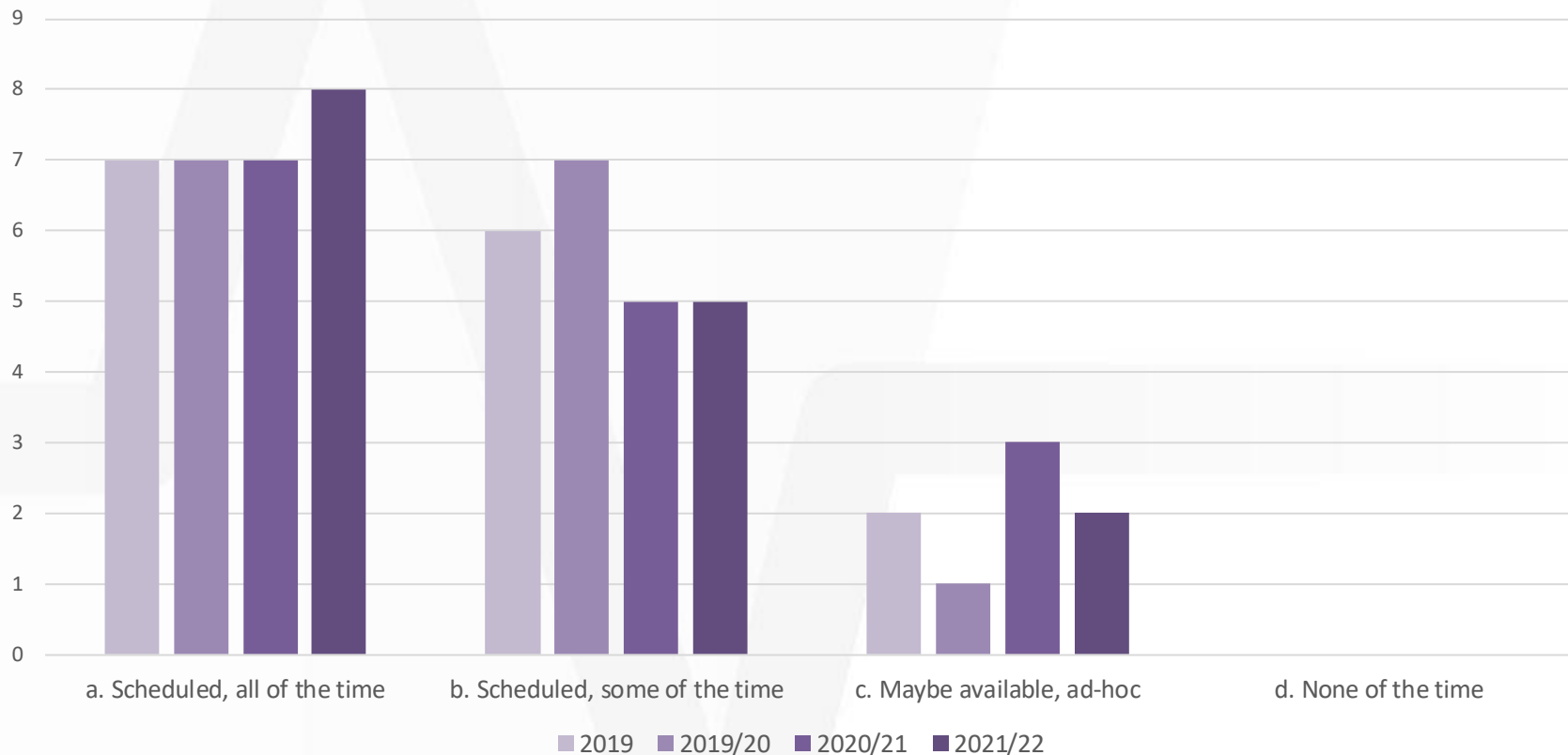
Local network “wrong place of delivery*” review system in place



- The delivery at <27 weeks outside a NICU centre

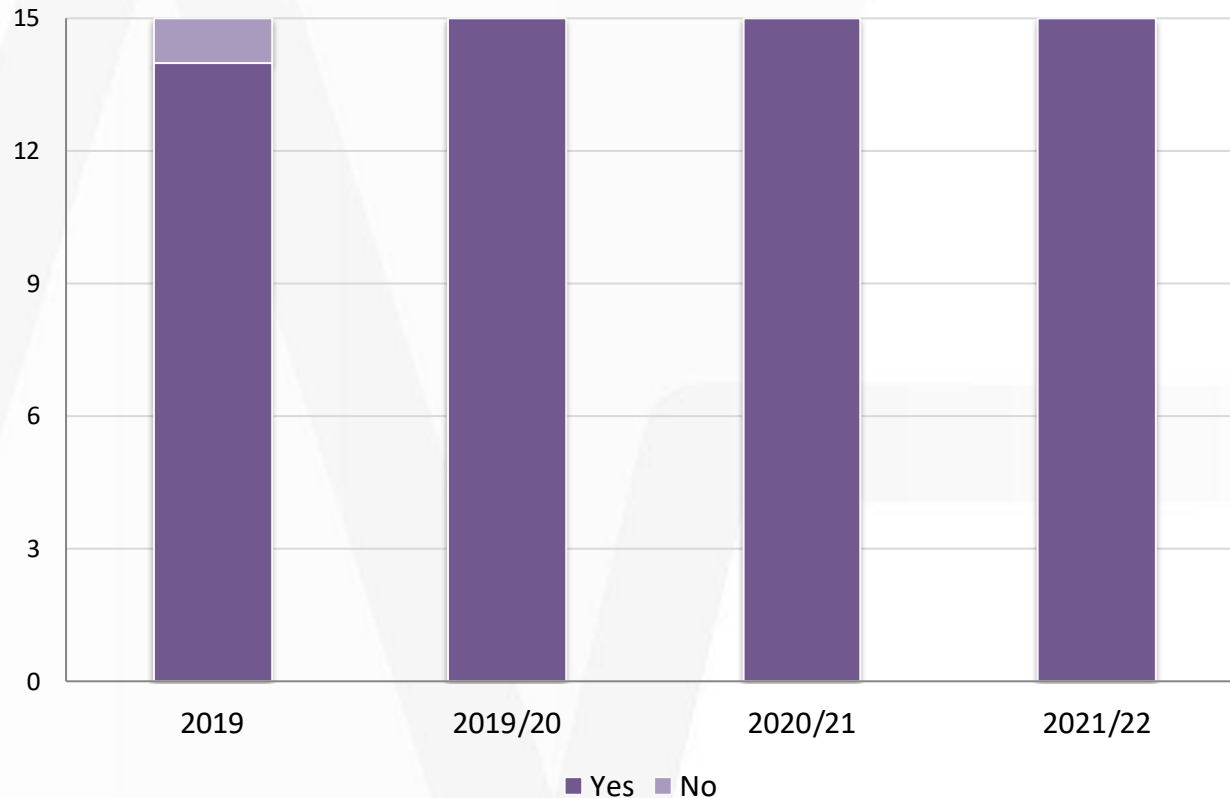


Service Characteristics 2021/22 Consultants



Service Characteristics 2021/22

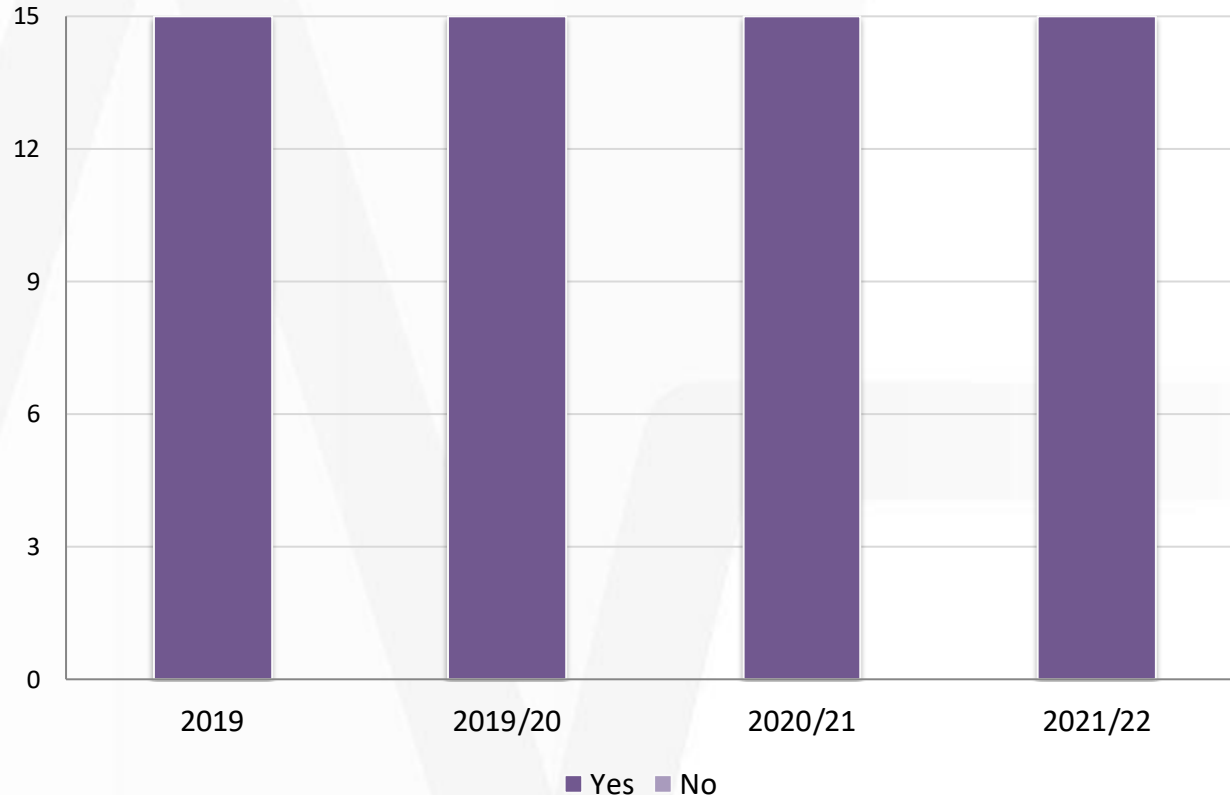
Provide servo-controlled active cooling in transit



Service Characteristics 2021/22

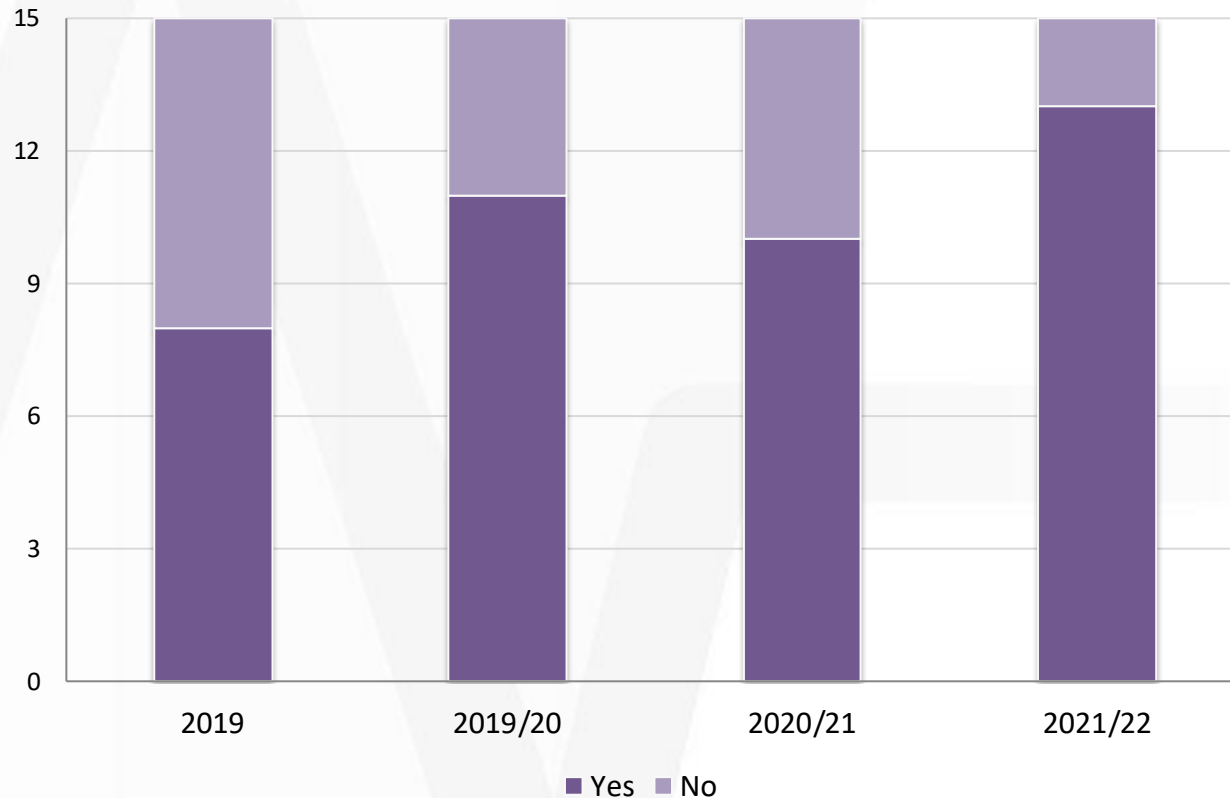


Are you able to offer inhaled nitric oxide in transit?



Service Characteristics 2021/22

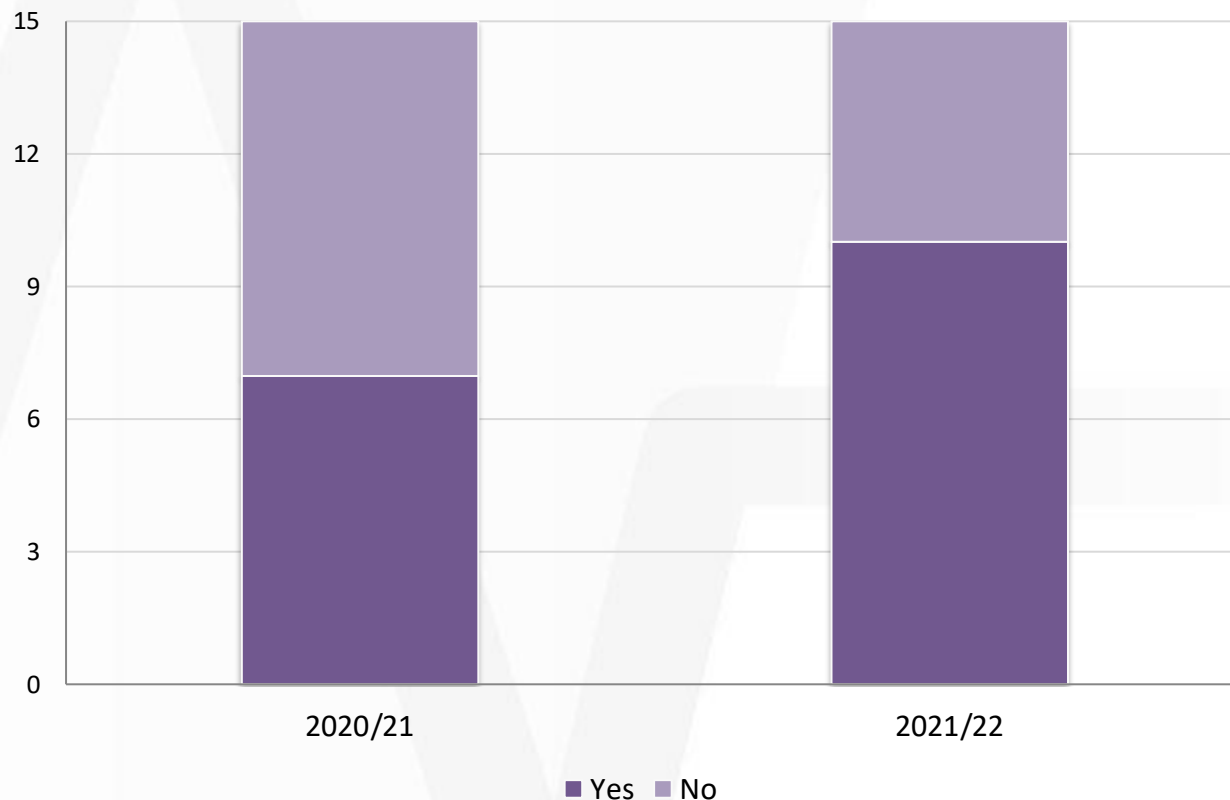
HFO offered in Transit



Service Characteristics 2021/22

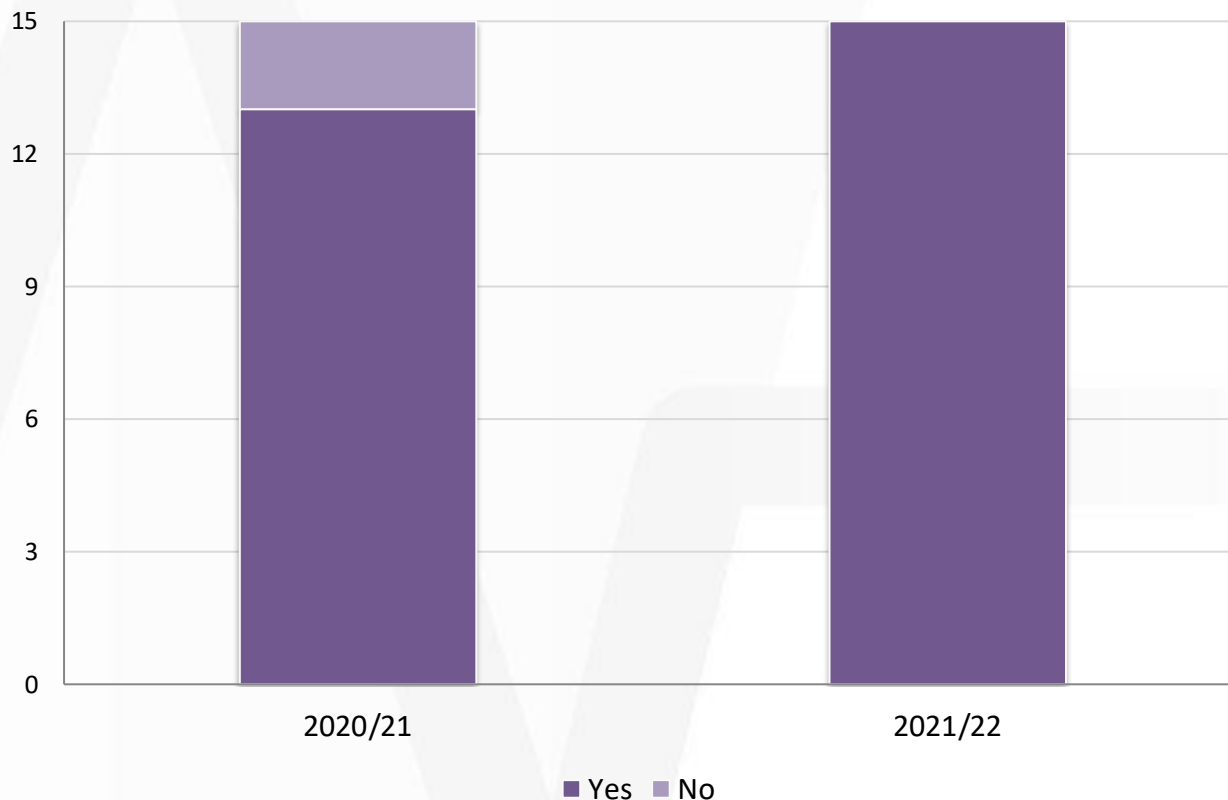


Do you use a transcutaneous CO₂ monitor in transit?



Service Characteristics 2021/22

Do you use ET CO₂ monitoring in transit?



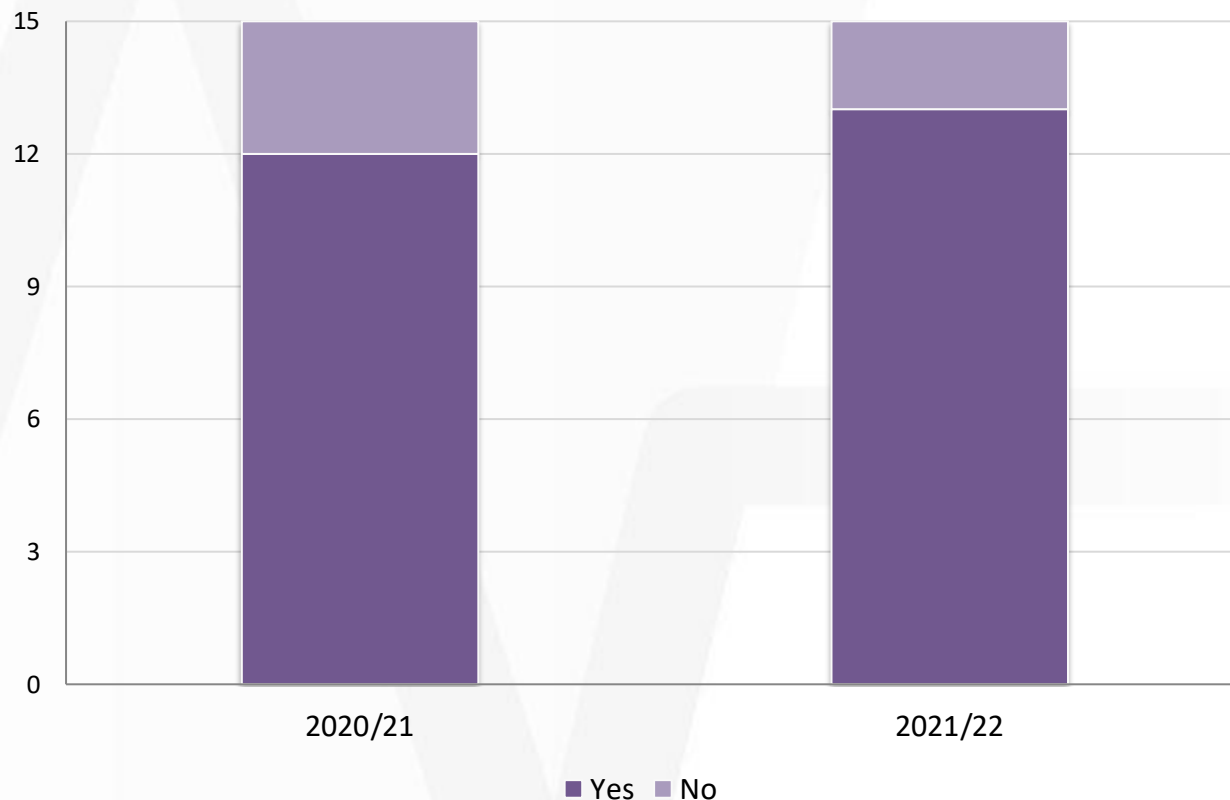
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Service Characteristics 2021/22

Do you offer Volume Guarantee Ventilation in transit?



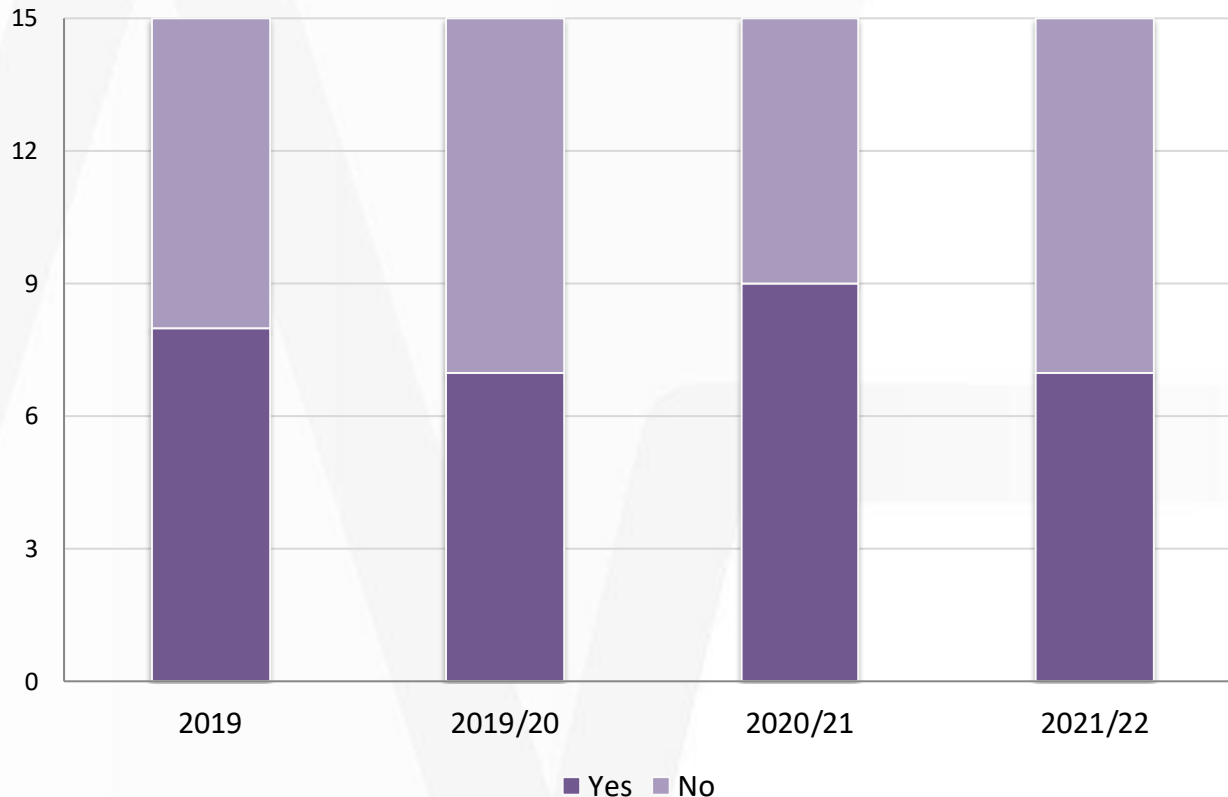
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Service Characteristics 2021/22

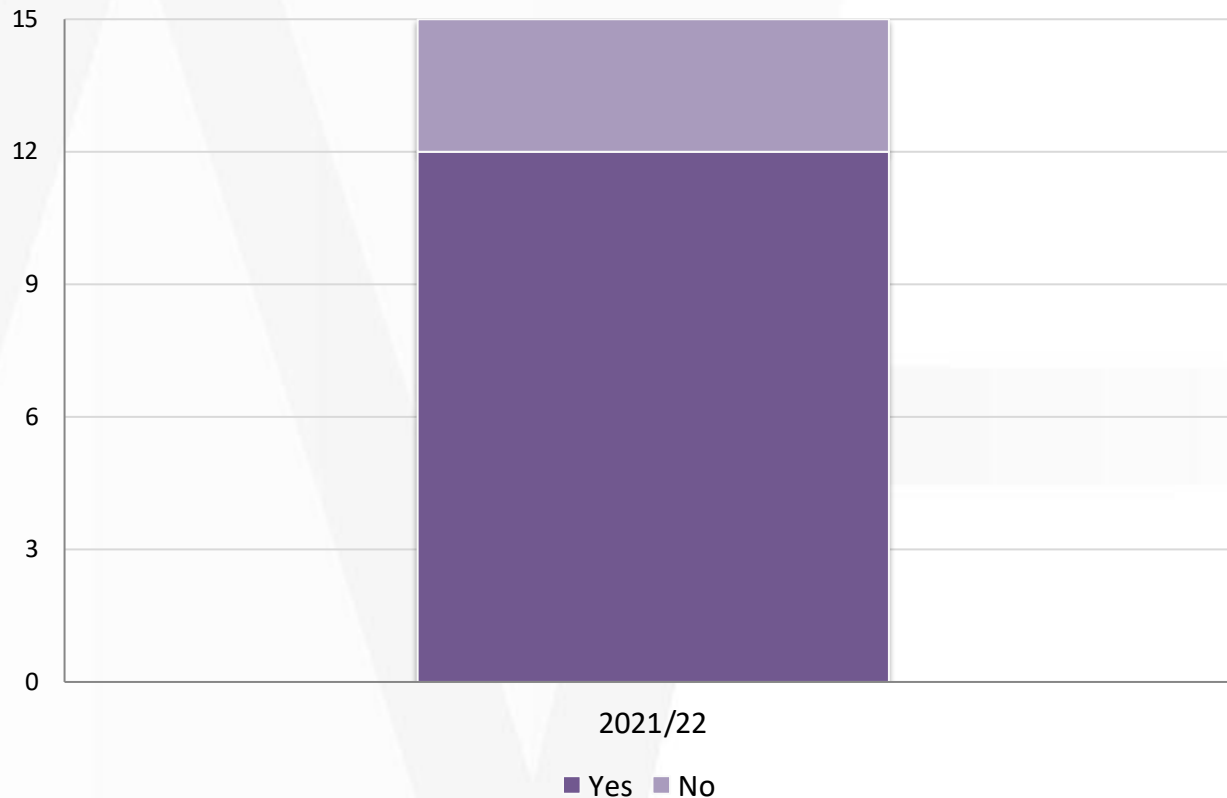


Infants referred with bile-stained vomiting/aspirates treated as immediate dispatch transfers ?



Service Characteristics 2021/22

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



Conclusions/Trends 2021/22



- Patterns of activity and ways of working are showing signs of returning to normality after a period of unprecedented upheaval
- There is evidence of good quality improvement work being done- maybe as a result of this data?
- There are still many intriguing variations in patterns and numbers across the UK neonatal transport services
 - These are deserving of more detailed analysis and/or local and national QI work

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

