

# EKHUFT MBRRACE 2020 Data

Updated October 2022



# Definitions (MBRRACE)

- Stillbirth – death in the uterus (unborn) after 24 weeks gestation.
- Stillbirth rate expressed per 1,000 total births
- Neonatal death – baby born alive after 24 weeks gestation, but died within 28 days.
- Neonatal death rate expressed per 1,000 live births.
- Extended perinatal deaths - all stillbirths over 24 weeks and all neonatal deaths, baby born alive after 24 weeks gestation, but died before 28 days of age.

# MBRRACE

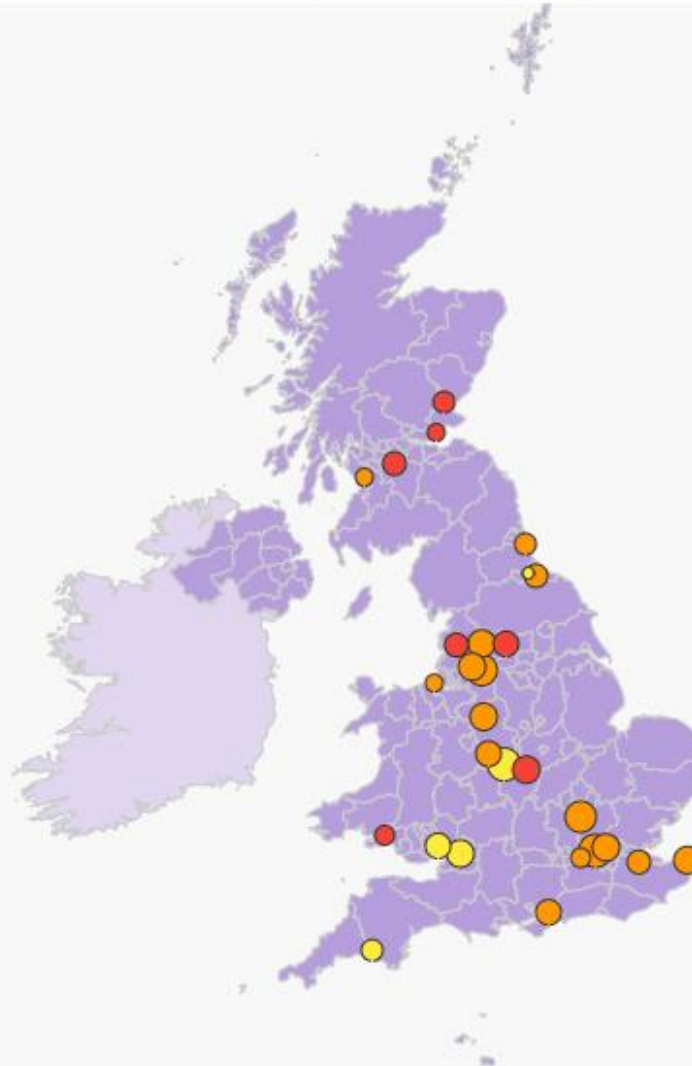
- Mothers and Babies Reducing Risk through Audit and Confidential Enquiries
- Based in Oxford
- Commenced 2013
- Produce yearly reports on perinatal and maternal deaths
- Subdivide and benchmark using comparator groups – EKHUFT are in group “Trust with Level 3 Neonatal Unit”.
- Crude data undergo “stabilising and adjustment”
- All perinatal losses from 23 weeks subject to Perinatal Mortality Review Tool – LMNS oversight
- All term neonatal deaths and intrapartum stillbirths investigated by HSIB

# Adjustment Criteria

- Mother's age
- Socio-economic deprivation based on the mother's residence
- Baby's ethnicity
- Baby's sex
- Whether they are from a multiple birth
- Gestational age at birth (neonatal deaths only)

## MBRRACE Comparator Group (Trusts with a level 3 NICU) – Stillbirth Rate

Stillbirth Neonatal Extended perinatal Crude **Stabilised & adjusted** ☐ Show labels ☐ Fit to points

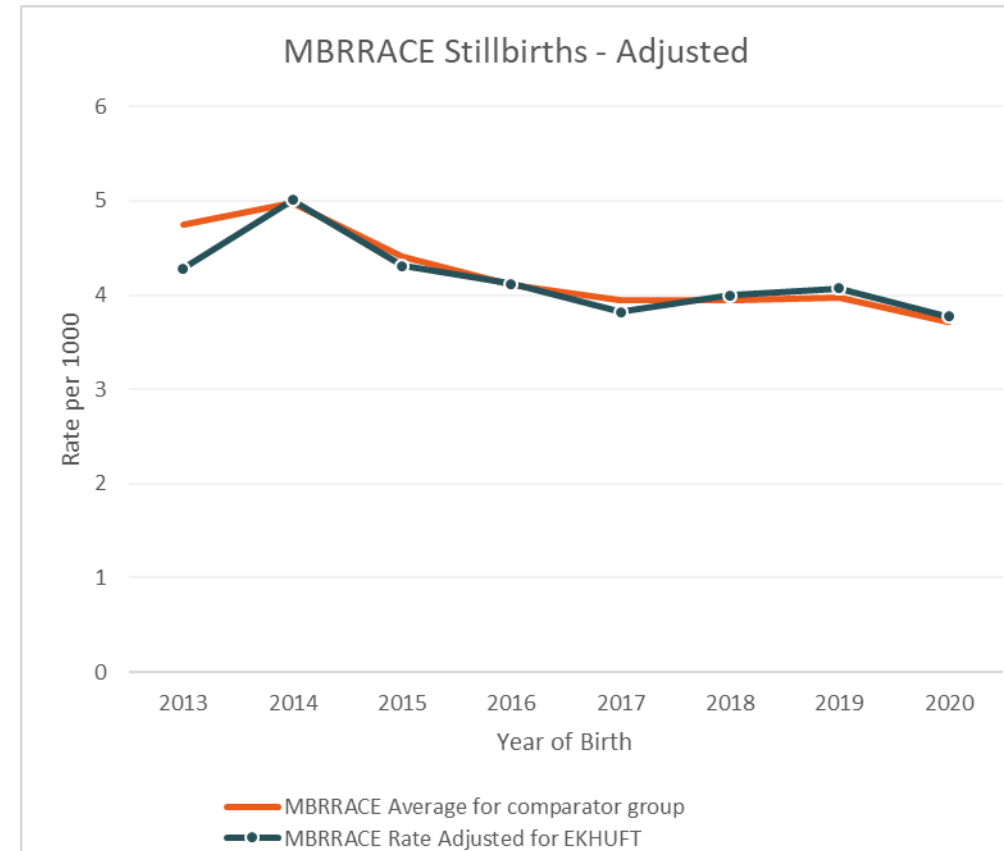


## Stabilised &amp; adjusted stillbirth rate

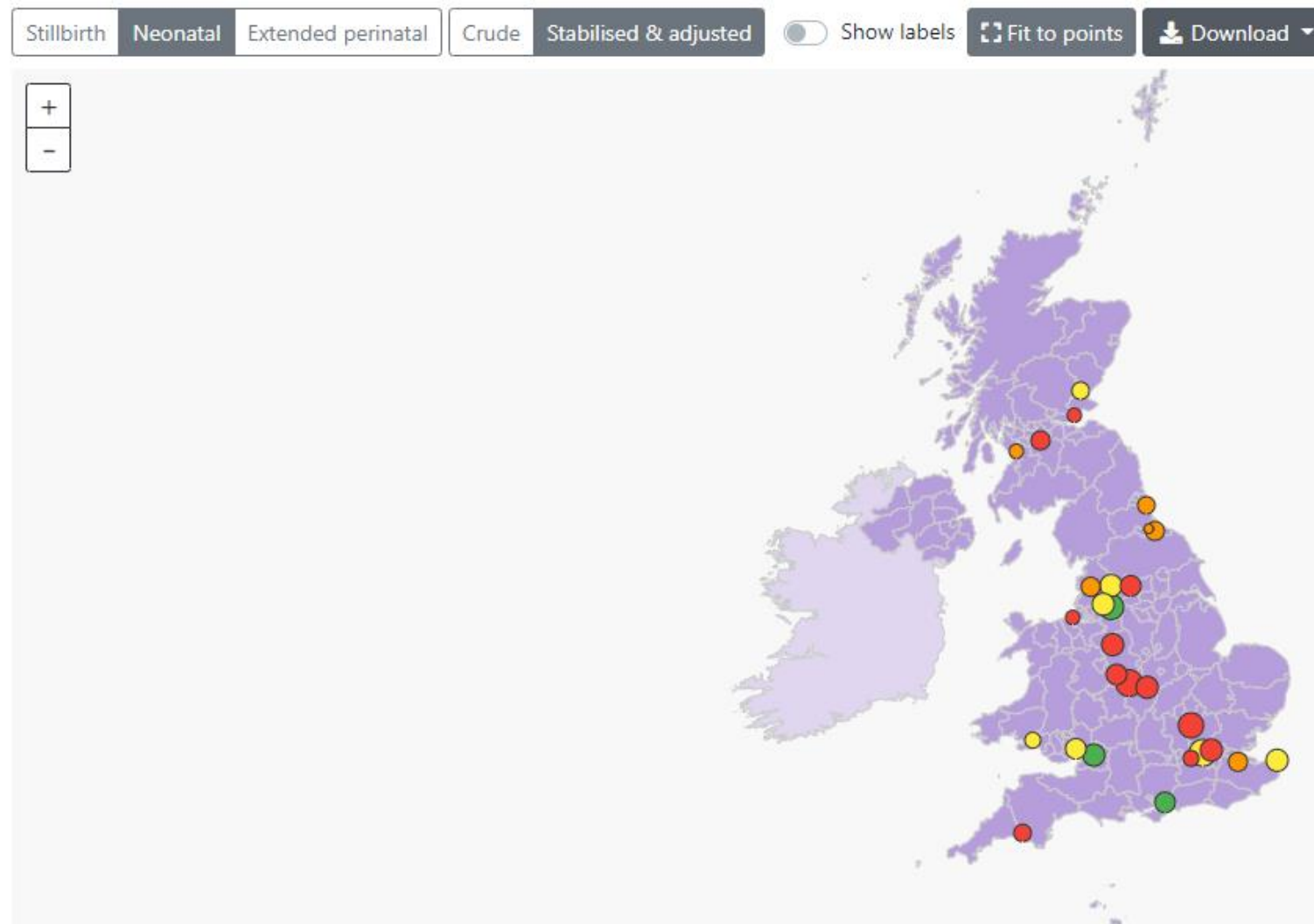
- More than 5% higher than the group average
- Within 5% of the group average
- Between 5 and 15% lower than the group average
- More than 15% lower than the group average
- Rate suppressed due to small numbers

## MBRRACE Stillbirth Rates – Crude and Adjusted

| Year | EKHUFT Local Data |                   |                            | MBRRACE Data                  |                                  |                                      |
|------|-------------------|-------------------|----------------------------|-------------------------------|----------------------------------|--------------------------------------|
|      | Total Births      | Total Stillbirths | EKHUFT Crude Rate per 1000 | MBRRACE Crude Rate for EKHUFT | MBRRACE Rate Adjusted for EKHUFT | MBRRACE Average for comparator group |
| 2013 | 7,039             | 24                | 3.41                       | 3.58                          | 4.28                             | 4.75                                 |
| 2014 | 7,000             | 31                | 4.43                       | 4.85                          | 5.01                             | 4.98                                 |
| 2015 | 7,063             | 22                | 3.11                       | 3.66                          | 4.31                             | 4.41                                 |
| 2016 | 6,987             | 27                | 3.86                       | 3.70                          | 4.12                             | 4.11                                 |
| 2017 | 6,977             | 21                | 3.01                       | 2.72                          | 3.82                             | 3.95                                 |
| 2018 | 6,569             | 27                | 4.11                       | 3.80                          | 4.00                             | 3.95                                 |
| 2019 | 6,413             | 27                | 4.21                       | 4.2                           | 4.07                             | 3.97                                 |
| 2020 | 6,125             | 20                | 3.27                       | 3.6                           | 3.77                             | 3.71                                 |
| 2021 | 6,213             | 25                | 4.02                       |                               |                                  |                                      |



## MBRRACE Comparator Group (Trusts with a level 3 NICU) – Neonatal Death Rate



## Stabilised &amp; adjusted neonatal mortality rate

● More than 5% higher than the group average  
● Rate suppressed due to small numbers

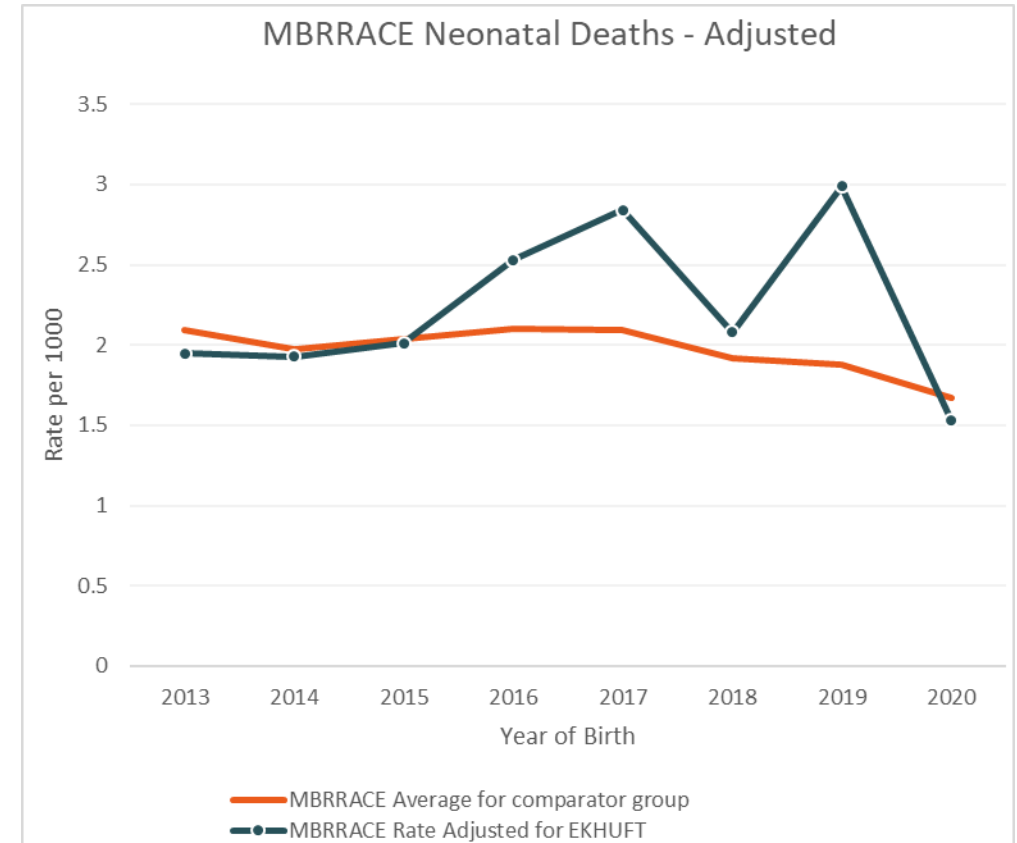
● Within 5% of the group average

● Between 5 and 15% lower than the group average

● More than 15% lower than the group average

## MBRRACE Neonatal Death Rates – Crude and Adjusted

| Year | EKHUFT Local Data |                                |                            | MBRRACE Data                  |                                  |                                      |
|------|-------------------|--------------------------------|----------------------------|-------------------------------|----------------------------------|--------------------------------------|
|      | Live Births       | Total Neonatal Deaths <28 days | EKHUFT Crude Rate per 1000 | MBRRACE Crude Rate for EKHUFT | MBRRACE Rate Adjusted for EKHUFT | MBRRACE Average for comparator group |
| 2013 | 7,015             | 10                             | 1.43                       | 1.29                          | 1.95                             | 2.09                                 |
| 2014 | 6,969             | 14                             | 2.01                       | 1.86                          | 1.93                             | 1.97                                 |
| 2015 | 7,041             | 14                             | 1.99                       | 1.62                          | 2.01                             | 2.04                                 |
| 2016 | 6,959             | 20                             | 2.87                       | 2.57                          | 2.53                             | 2.10                                 |
| 2017 | 6,956             | 21                             | 3.02                       | 3.01                          | 2.84                             | 2.09                                 |
| 2018 | 6,542             | 11                             | 1.68                       | 1.68                          | 2.08                             | 1.92                                 |
| 2019 | 6,386             | 19                             | 2.98                       | 2.97                          | 2.99                             | 1.88                                 |
| 2020 | 6,105             | 7                              | 1.15                       | 0.99                          | 1.53                             | 1.67                                 |
| 2021 | 6,188             | 9                              | 1.45                       |                               |                                  |                                      |



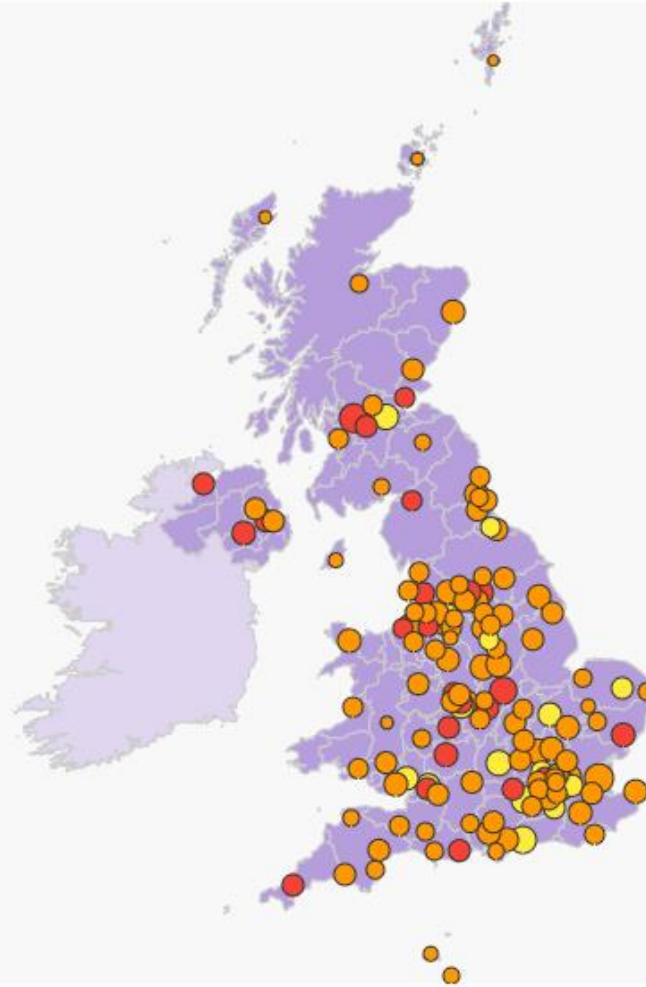


## MBRRACE Comparator Group (Trusts with a level 3 NICU) – Extended Perinatal Death Rate

Stillbirth Neonatal Extended perinatal Crude Stabilised & adjusted ☐ Show labels  Fit to points  Download ▾

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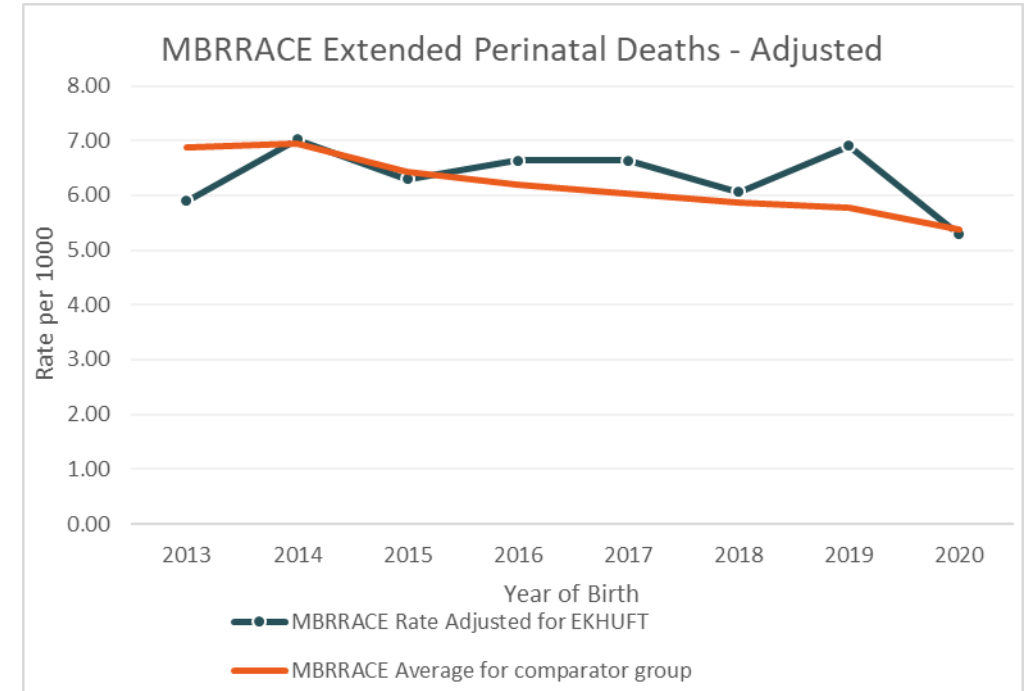


## Stabilised &amp; adjusted extended perinatal mortality rate

- More than 5% higher than the group average
- Within 5% of the group average
- Between 5 and 15% lower than the group average
- More than 15% lower than the group average
- Rate suppressed due to small numbers

## MBRRACE Extended Perinatal Death Rates – Crude and Adjusted

| Year | EKHUFT Local Data |                                 |                            | MBRRACE Data                  |                                  |                                      |
|------|-------------------|---------------------------------|----------------------------|-------------------------------|----------------------------------|--------------------------------------|
|      | Total Births      | Total Extended Perinatal Deaths | EKHUFT Crude Rate per 1000 | MBRRACE Crude Rate for EKHUFT | MBRRACE Rate Adjusted for EKHUFT | MBRRACE Average for comparator group |
| 2013 | 7,039             | 34                              | 4.83                       | 4.87                          | 5.90                             | 6.88                                 |
| 2014 | 7,000             | 45                              | 6.43                       | 6.70                          | 7.02                             | 6.94                                 |
| 2015 | 7,063             | 36                              | 5.10                       | 5.27                          | 6.30                             | 6.44                                 |
| 2016 | 6,987             | 47                              | 6.73                       | 6.26                          | 6.63                             | 6.20                                 |
| 2017 | 6,977             | 42                              | 6.02                       | 5.72                          | 6.64                             | 6.03                                 |
| 2018 | 6,569             | 38                              | 5.78                       | 5.47                          | 6.06                             | 5.86                                 |
| 2019 | 6,413             | 46                              | 7.17                       | 7.16                          | 6.91                             | 5.78                                 |
| 2020 | 6,124             | 27                              | 4.41                       | 4.58                          | 5.29                             | 5.37                                 |
| 2021 | 6,212             | 34                              | 5.47                       |                               |                                  |                                      |



# Each Baby Counts (RCOG)

- Launched by Royal College of Obstetricians & Gynaecologists. Closed in 2019
- Ambition to reduce stillbirths, neonatal deaths and brain injuries occurring during term labour
- Eligible babies: Term (37+0 weeks gestation) babies who died during labour (intrapartum stillbirth), who were born alive but died within 7 days of birth (early neonatal death) or who meet the criteria for babies born with severe brain injury (grade III hypoxic-ischaemic encephalopathy (HIE) or therapeutically cooled (active cooling only) or decreased central tone and comatose and had seizures)
- EKHUFT had the following reportable babies in each year:
  - 2015: 18
  - 2016: 29
  - 2017: 19
  - 2018: 24
  - 2019: 19

*Note: some babies fell into more than one category – i.e. babies with HIE who also died within 7 days*