

# INFANT MORTALITY UPDATE

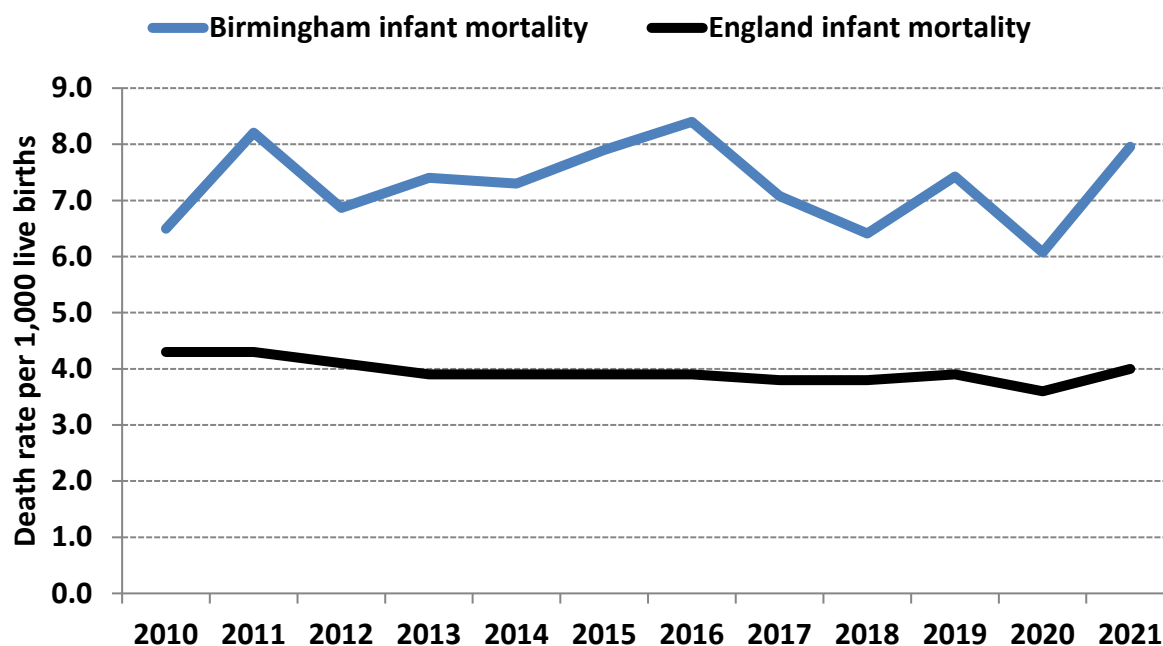
January 2023

## Key Facts

- 2021 saw an increase of 21 infant deaths registration. The England rate also rose in 2021.
- Three-year rates have increased Birmingham to 7.6 per 1,000 but England has remained static at 3.9 per 1,000
- Perinatal single year rates have decreased in 2020 to 9.1 The 3 year rolling rates for 2018/20 have also decreased slightly on to 9.8 per 1,000 births locally (Please note this is not currently available for 2021).
- Early neonatal deaths in 2021 increased by 14 in Birmingham which meant the rate increased by 1.5 deaths per 1,000 live births. England data is currently unavailable.
- Early neonatal 3-year rates 2019/21 for Birmingham increased by 0.3 per 1,000 live births. England data is currently unavailable.
- Late neonatal single year death rates have slightly increased in Birmingham in 2021. England data is not currently available.
- Neonatal death increased during 2021 by 1.9 per 1,000 live births in Birmingham. England data is currently unavailable.
- 2019/21 Neonatal rates have increased slightly. England rates are currently unavailable.
- Post neonatal death rates have increased for Birmingham, England 3-year rates are currently unavailable.
- Live births dropped across the city by an estimated 1,000 – stillbirths remained static.
- Currently for England Stillbirths for 2019/21 or 2021 are not available. In Birmingham, locally calculated rates for both years have increased with 20 more stillbirths than 2018/20. Meaning Perinatal mortality has also increased.
- **NB.** *Perinatal and stillbirths are calculated per 1,000 total births, whilst all other rates are calculated per 1,000 live births*

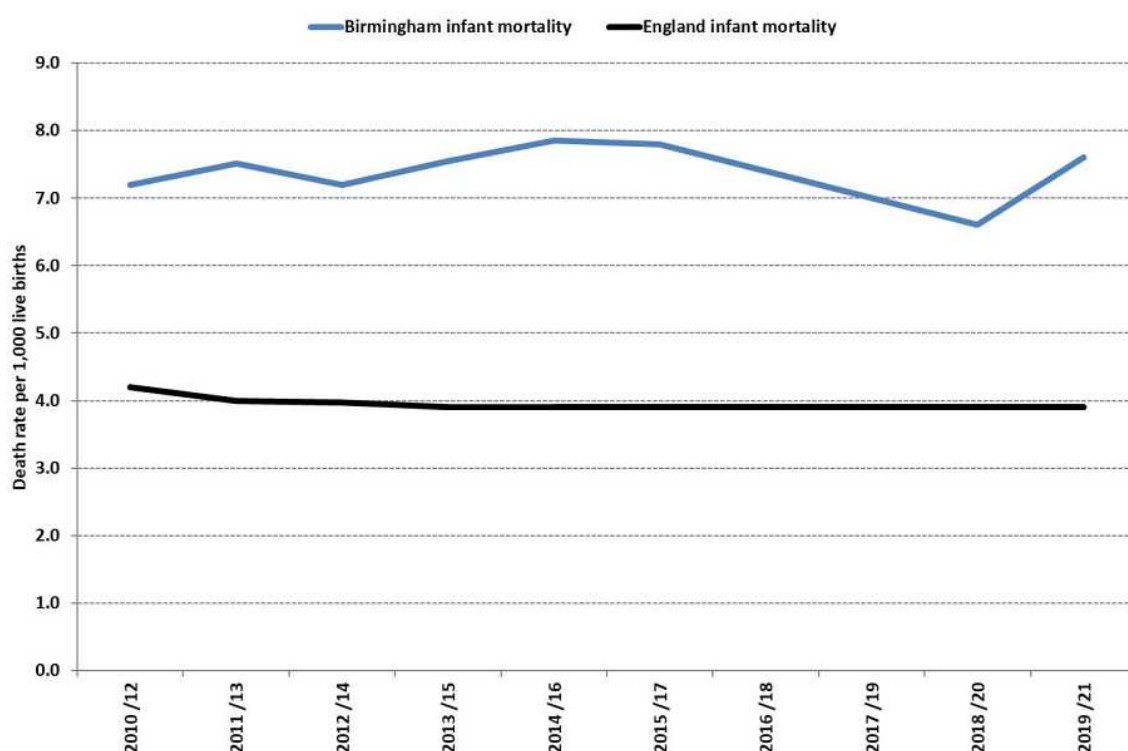
Key rates	Birmingham	England
Infant mortality 2021	8.0	4.0
Infant mortality 3 year rate 2019/2021	7.6	3.9
Early Neonatal Rate 2021	5.0	NA
Early neonatal 3 year rate 2019/2021	4.3	NA
Late Neonatal rate 2021	1.3	NA
Late neonatal 3 year rate 2019/2021	1.2	NA
Neonatal rate 2021	6.3	NA
Neonatal 3 year rate 2019/2021	5.6	NA
Post neonatal 2021	1.7	NA
Post neonatal 3 year rate 2019/2021	1.5	NA
Perinatal rate 2021	8.8	NA
Perinatal 3 year rate 2019/2021	9.9	NA
Still birth rate 2021	5.4	NA
Stillbirth 3 year rate 2019/2021	5.5	NA

Figure 1 : Single year infant mortality 2010 – 2021



Source: ONS Deaths/Births

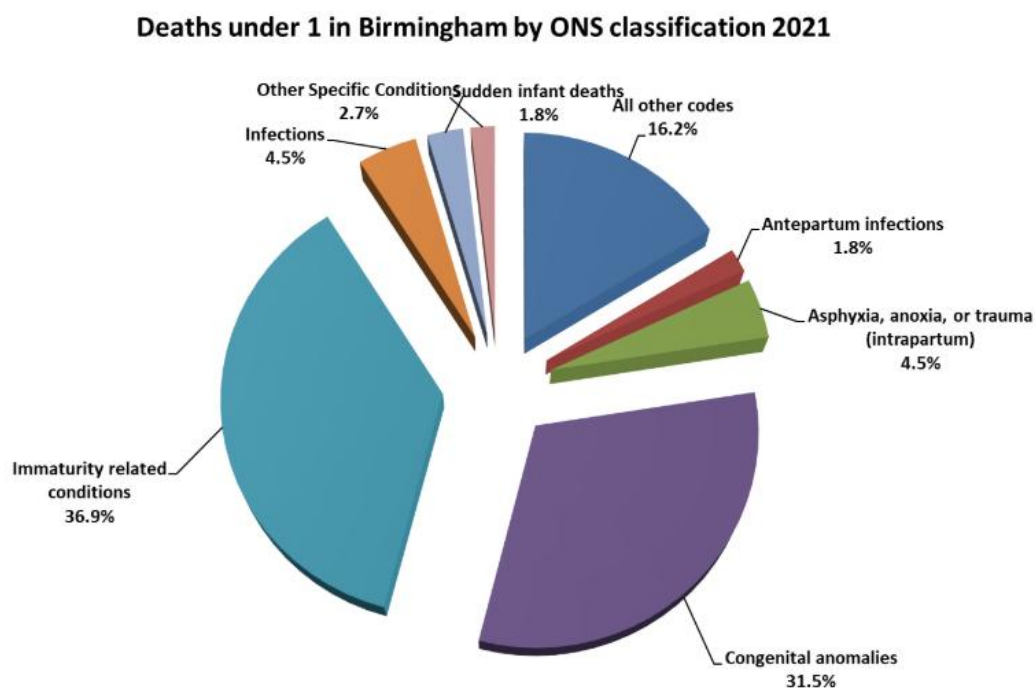
Figure 2 : Three year infant mortality 2010 - 2021



Source: ONS Deaths/Births

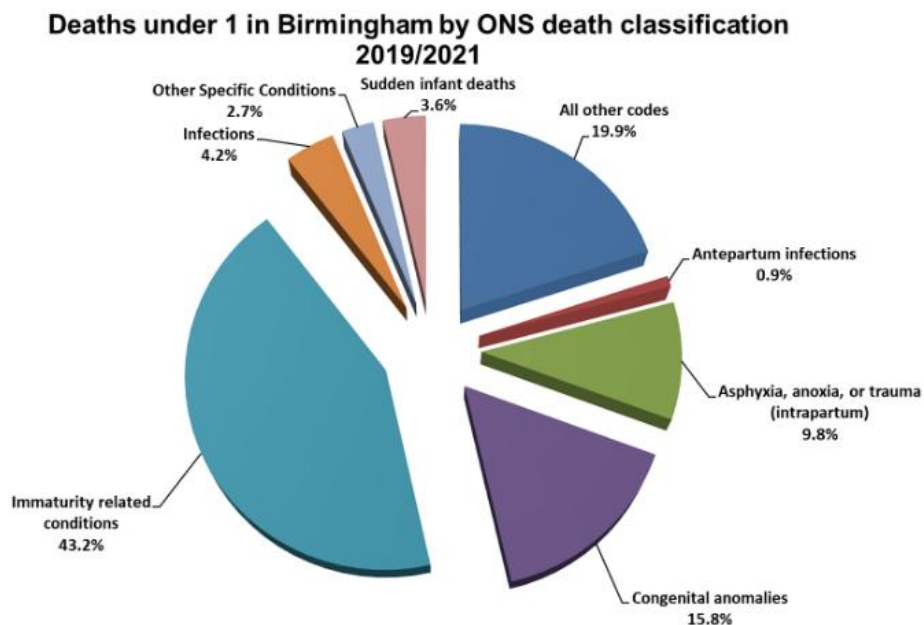
## CAUSAL FACTORS

Figures 3 Breakdown of causes of death 2021



Source: ONS Deaths

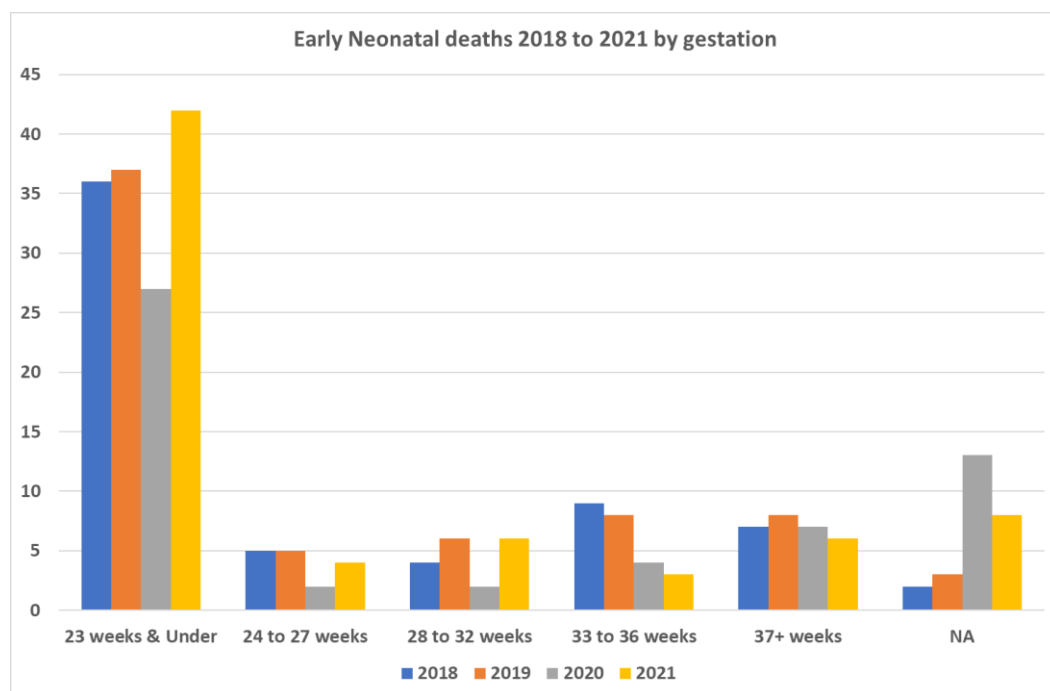
Figure 4 Breakdown of causes of death 2019-2021



Source: ONS Deaths

Figure 5 gives a breakdown of the early neonatal deaths by year by gestation age at birth of infant from 2018 to 2021. Whilst those born 23 weeks and under has always been high 2021 saw an increase of 6 deaths on that of 2018. In 2018, 23 weeks and under was 57% of total early neonatal deaths (i.e., those babies dying in their first week of birth). In 2021, it was 61% of early neonatal deaths.

**Figure 5 Early neo natal deaths gestation at birth 2018 to 2021**

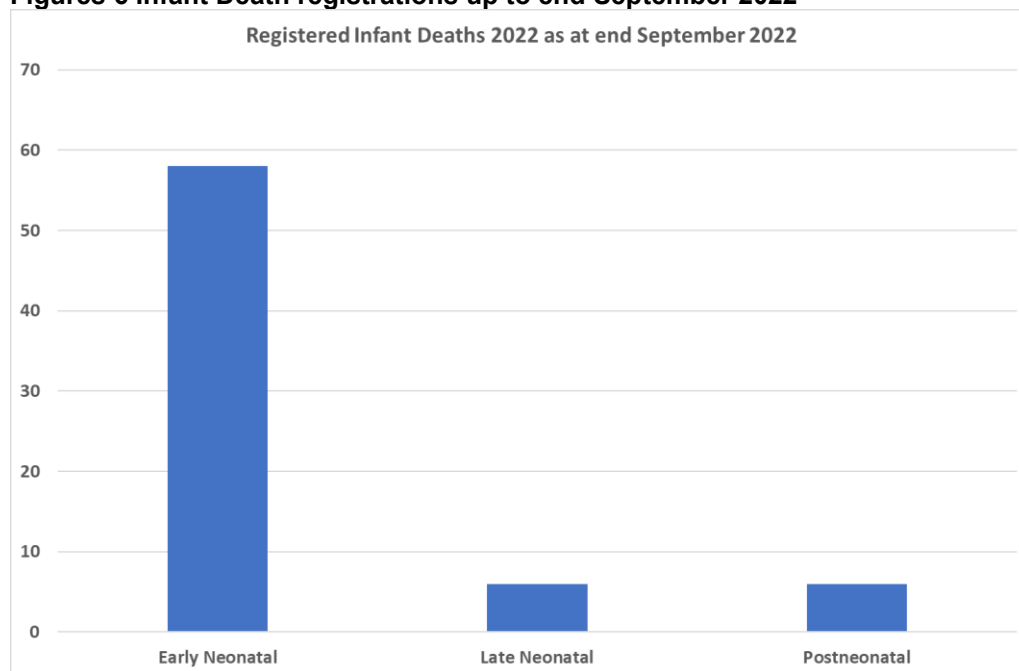


Source: ONS Deaths

### INFANT MORTALITY REGISTRATIONS 2022

Figure 6 gives a breakdown by age of infant at time of death, the majority of the 70 (82.9%) death registrations to the end of September 2022 are in the early neonatal stage (under 7 days). Currently, due to the way we received our registrations – more detailed analysis on these deaths can only be done on 63 of these deaths. Based on the numbers so far there is a likelihood overall 2022 registrations may equal 2021 (110 registrations).

**Figures 6 Infant Death registrations up to end September 2022**



Source: ONS Deaths/Births