


South Yorkshire
1st April 2019 – 31st
March 2024

NATIONAL CHILD MORTALITY DATABASE SUMMARY

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NCMD – WHAT IS IT?

Data from CDOP (child death overview panels). This is **any** child who dies **after** birth and **before** their eighteenth birthday.


Does not include stillbirths and medical terminations of pregnancy.

Data presented by region overall (South Yorkshire) and CDOP panel (Barnsley, Doncaster, Rotherham and Sheffield)

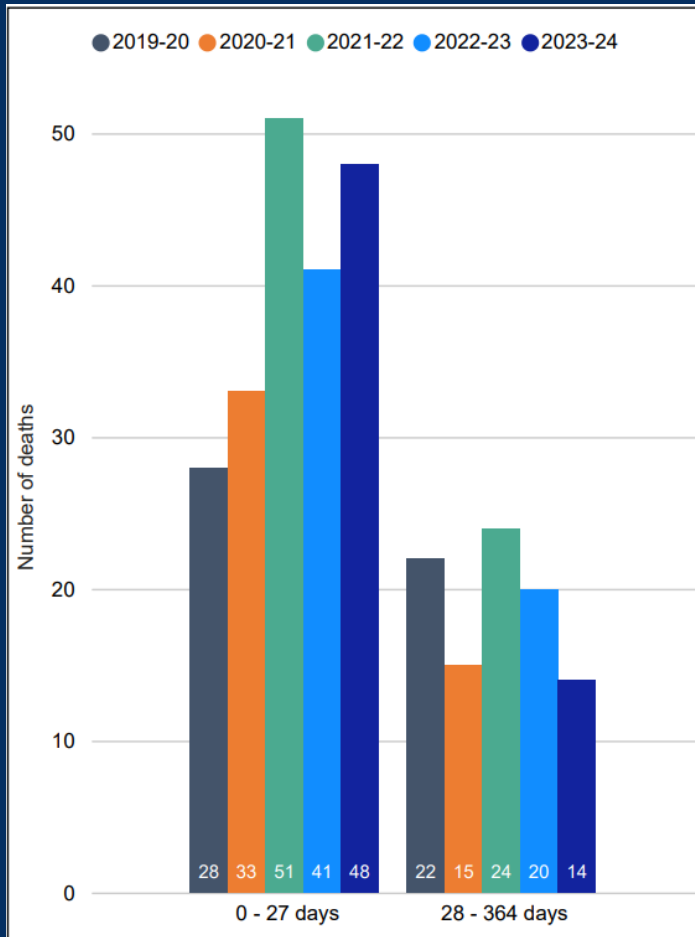
Neonate = 0 - 27
days

Infant = 28 days –
364 days

INFANT DEATHS – NEONATES AND CHILDREN <1 YEAR

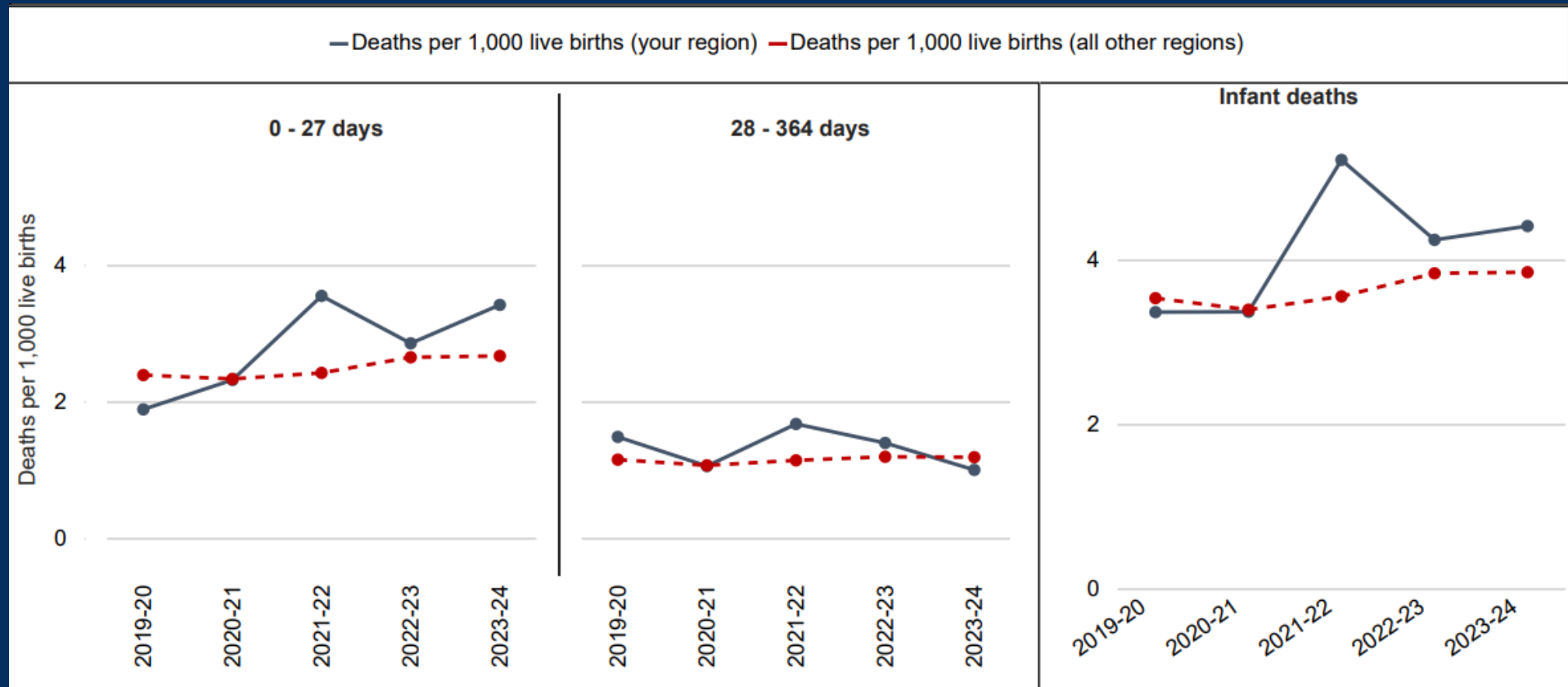
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NUMBER OF NEONATAL DEATHS IS GREATER THAN NUMBER OF INFANT DEATHS ACROSS ALL CALENDAR YEARS

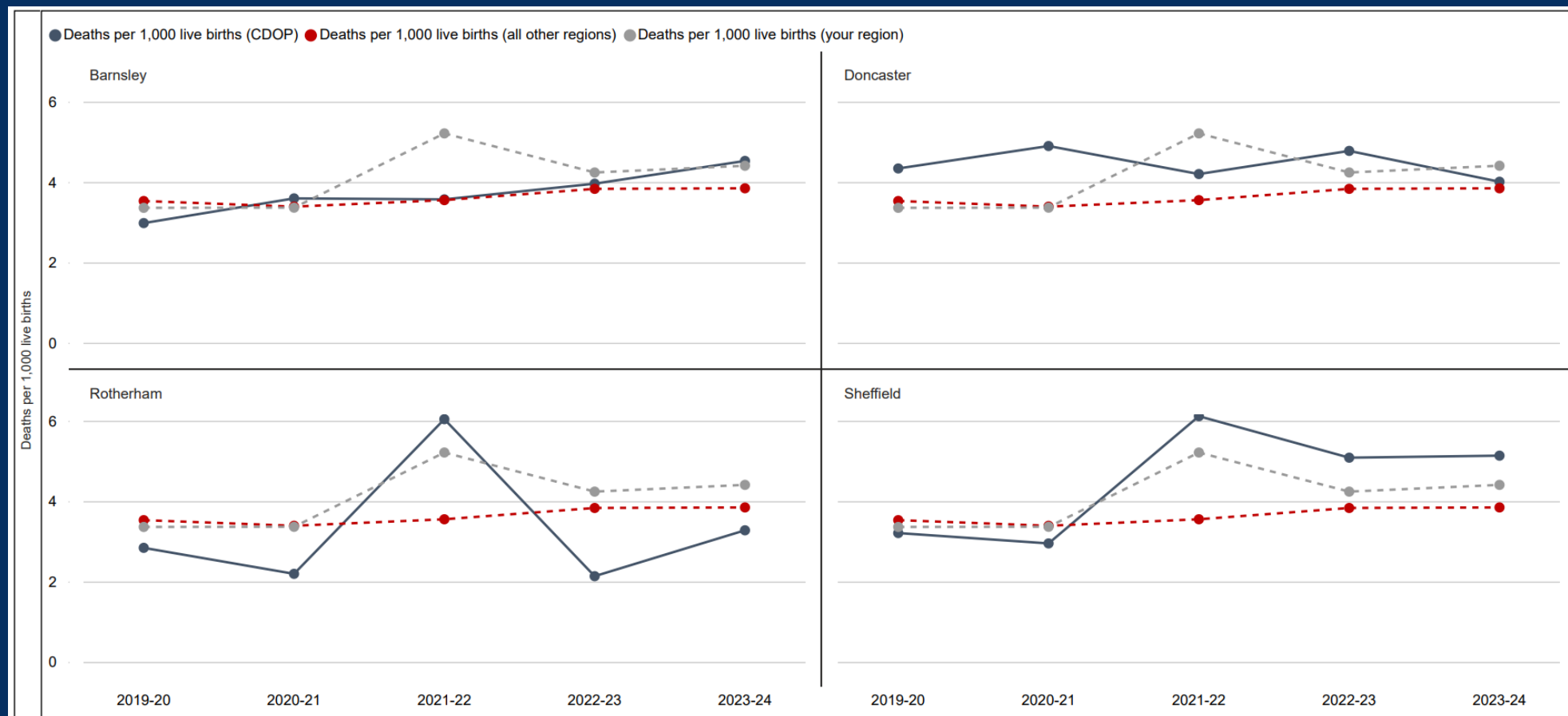


On average 2.2 x more prevalent.

2021-2022 HAD A DISPROPORTIONALLY HIGH NUMBER OF INFANT & NEONATAL DEATHS ACROSS SY – EVEN CONFOUNDED FOR POPULATION AND WAS NOT REFLECTED NATIONALLY



INFANT AND NEONATAL DEATHS IN SHEFFIELD AND ROTHERHAM ACCOUNT FOR THE DISPROPORTIONATE RAISE IN 2021-2022

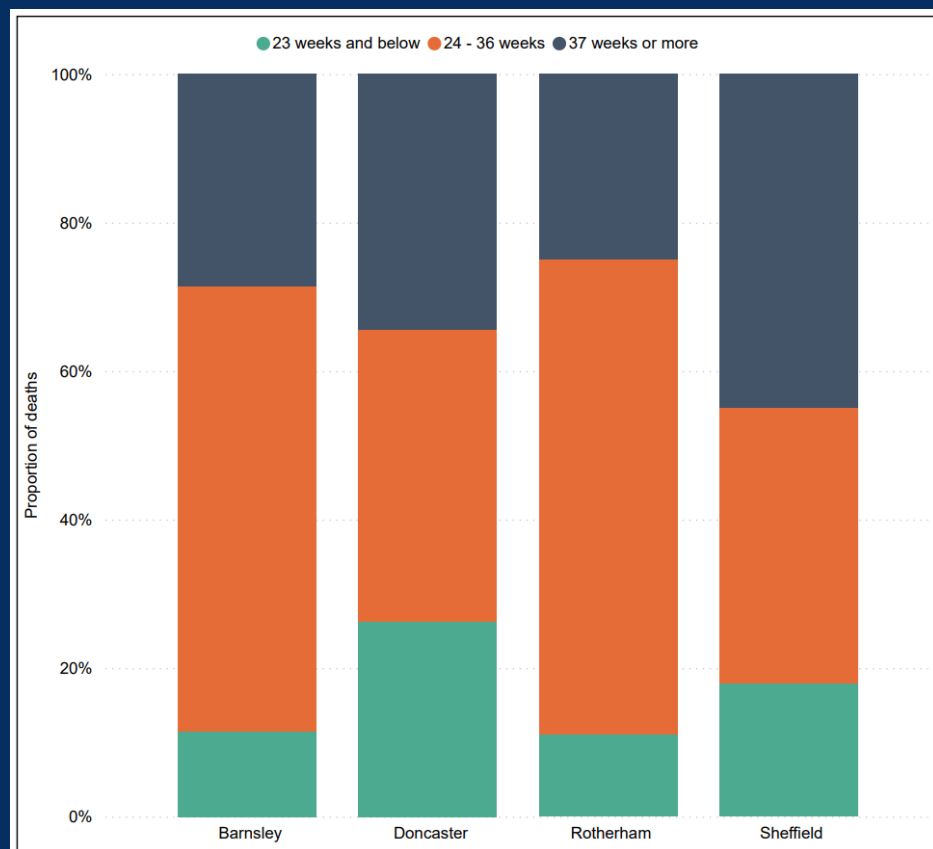


LOOK INTO THIS DISPROPORTIONATE INCREASE IN ROTHERHAM

Alex had requested all CDOP reports for neonates and infants in Rotherham 2021-22 to see if we can identify any reason for the spike.



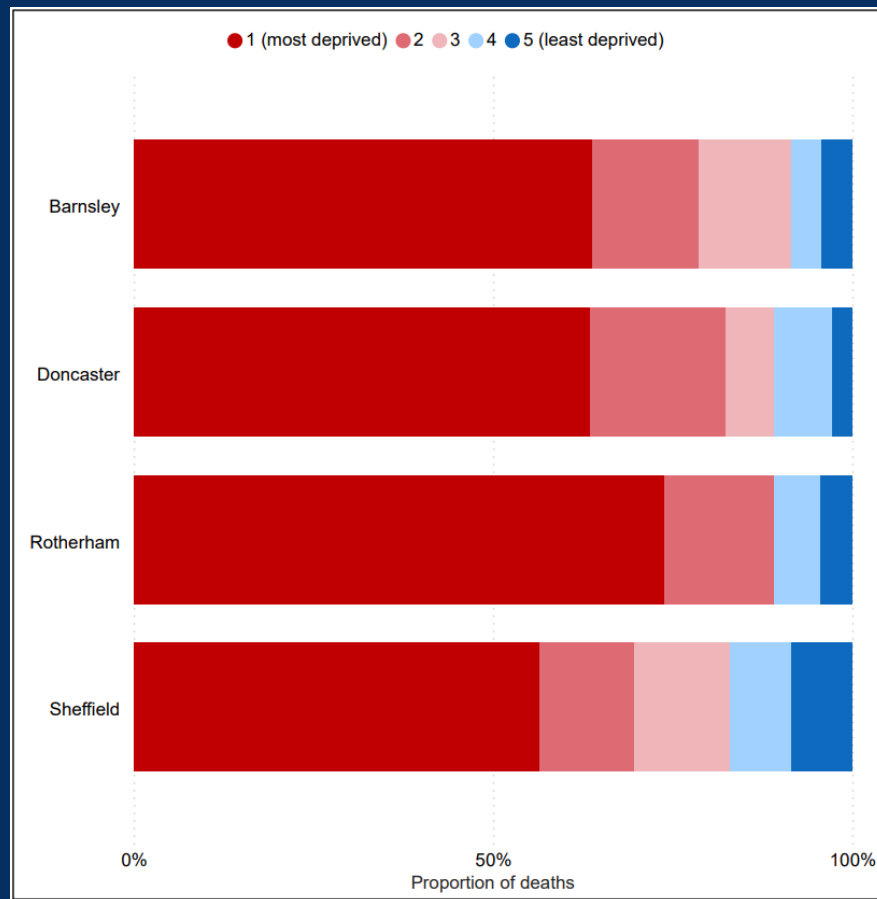
ACROSS REGIONS MOST DEATHS OCCURRED IN INFANTS AND NEONATES BORN AT 24-36 WEEKS' GESTATION



There is **NO COMPARISON** between these figures and:


- ▶ Number of births at these gestations and children surviving beyond 365 days
- ▶ Duration of life

ACROSS REGIONS MOST INFANT AND NEONATAL DEATHS OCCURRED WITHIN THE HIGHEST LEVEL OF SOCIAL DEPRIVATION

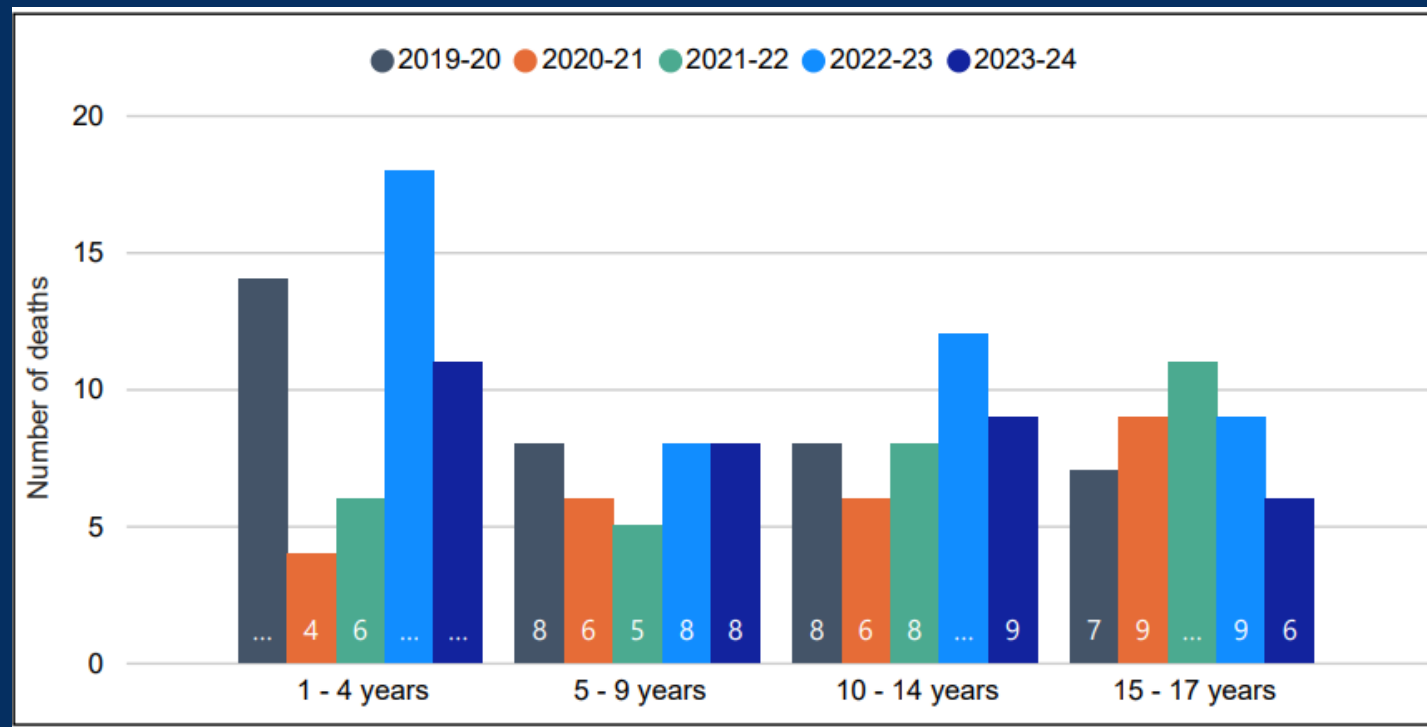


- ▶ ... and the least deaths seen within the lowest level of social deprivation.
- ▶ There is nearly a proportional decrease in number of neonatal and infant deaths as social deprivation is reduced

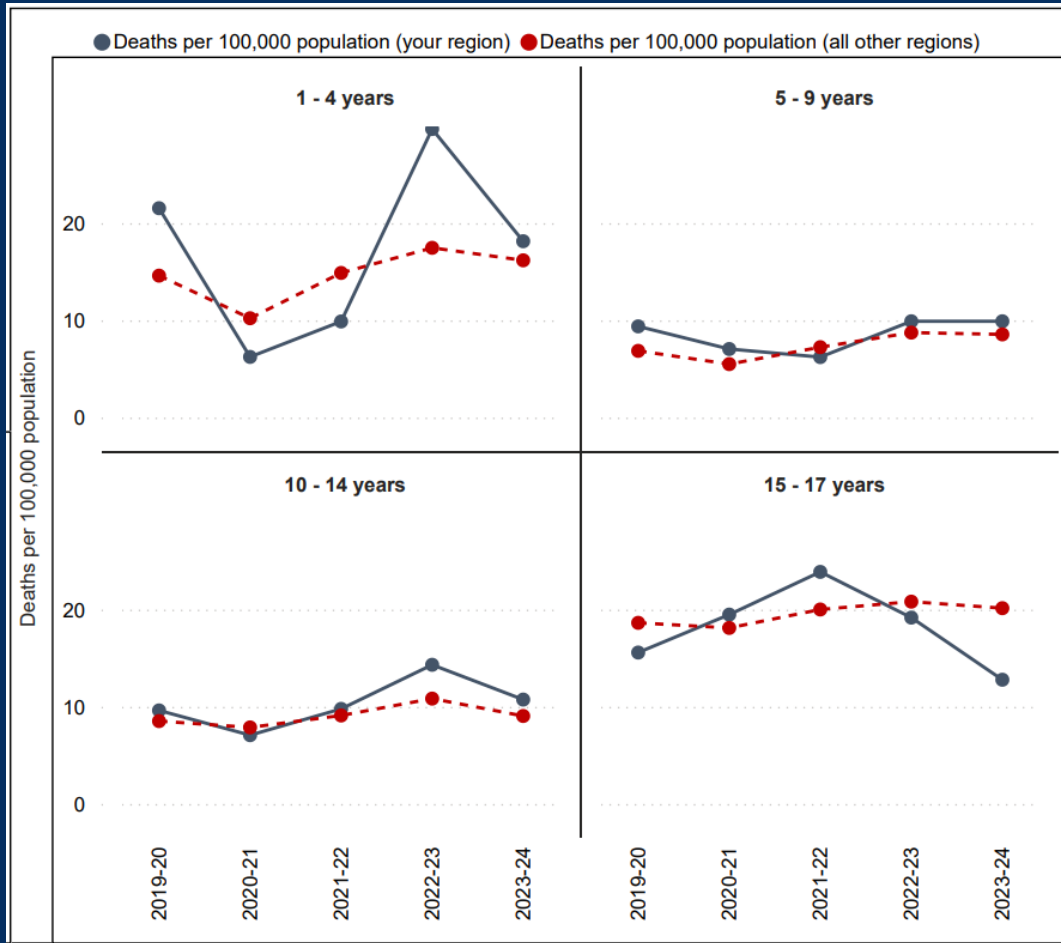
CHILDHOOD
DEATHS – 365
DAYS TO 17
YEARS

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MOST CHILDHOOD DEATHS WERE SEEN IN CHILDREN AGED 1-4



DEATHS IN 5-9 AND 10-14 YEARS ACROSS SY FOLLOWED NATIONAL TRENDS



- ▶ Yet there were outliers (of unknown statistical significance) across deaths in age groups 1-4 and 15-17 years in SY.

ROTHERHAM SAW A HIGH NUMBER OF CHILD DEATHS IN 2022-2023...



► But so did Barnsley and Doncaster

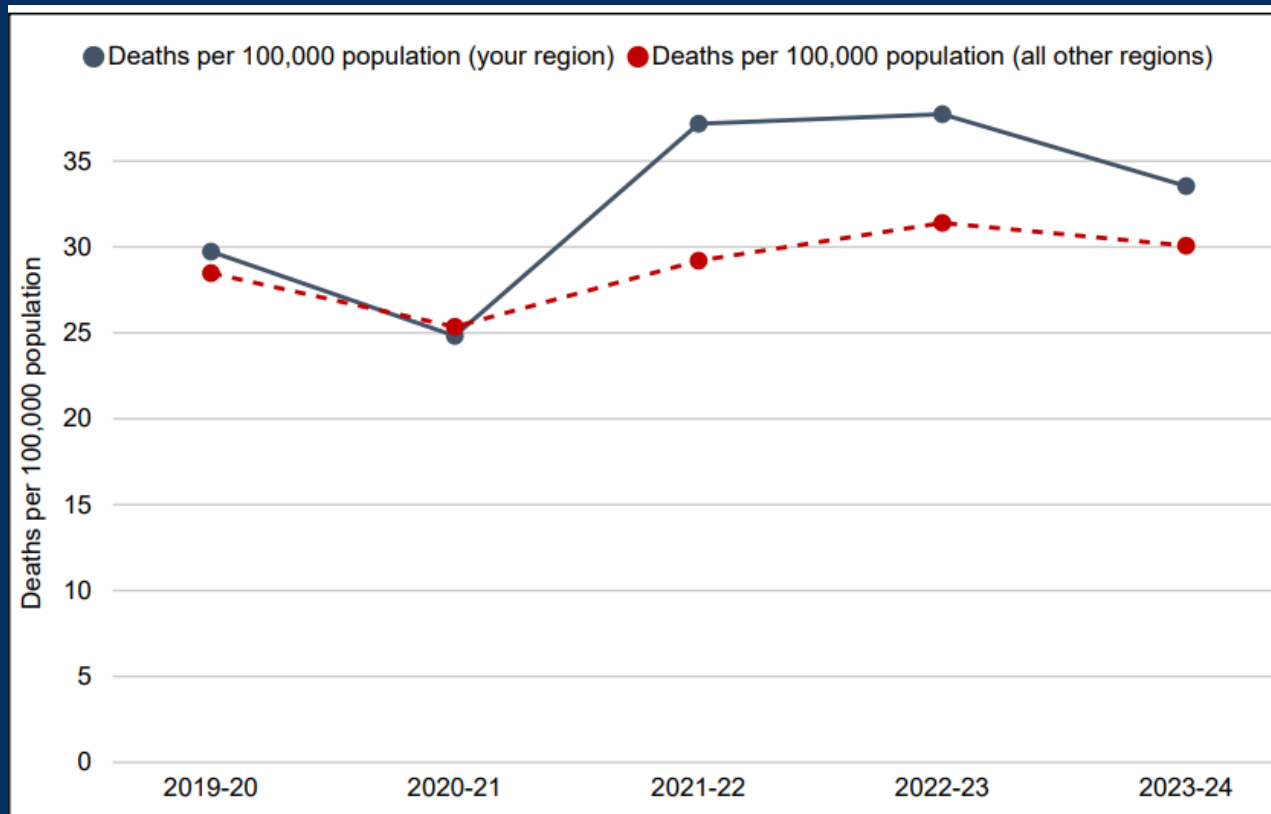
THERE IS NO DATA ON REGIONAL BREAKDOWN
OF CHILD DEATHS ACROSS VARIOUS AGES



ALL CHILD DEATHS (0-17 YEARS)

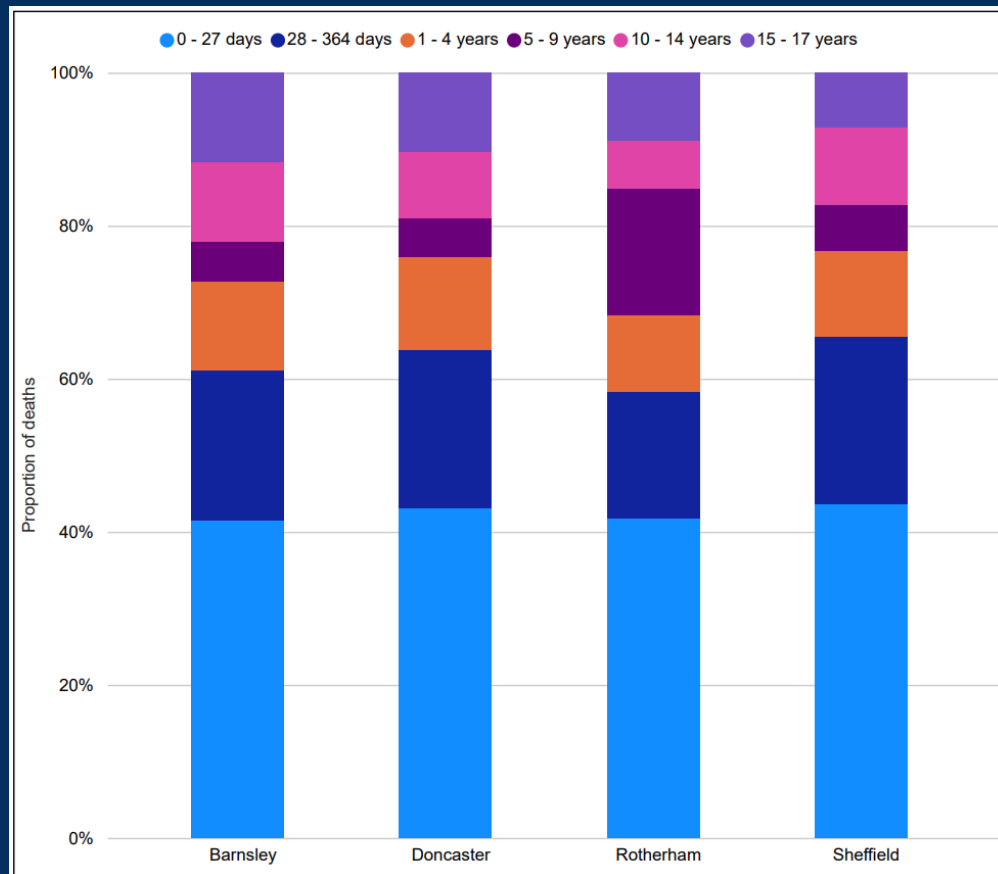


SY WAS CLOSE TO THE NATIONAL AVERAGE OF POPULATION-ADJUSTED CHILD DEATHS IN 2019-20 AND 2020-21



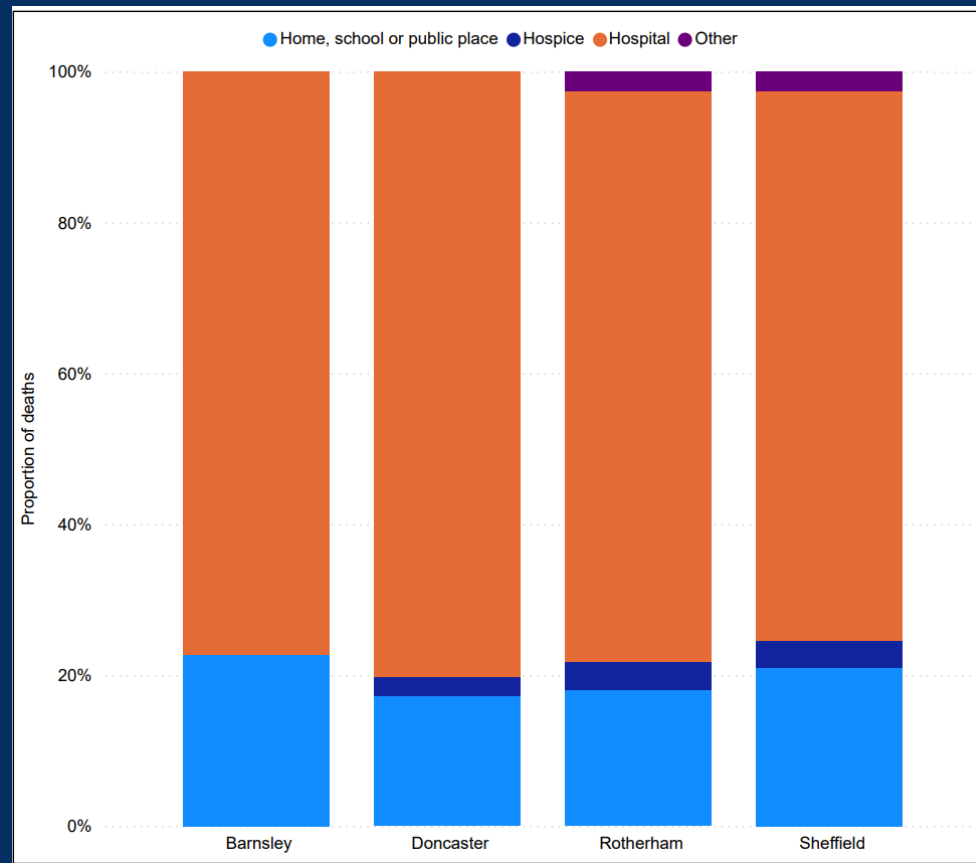
- But then consistently above the national average from 2021-22 onwards...

EVERY REGION IN SY HAD THE GREATEST PROPORTION OF DEATHS OCCURRING IN NEONATES



► And the second greatest proportion in infants

HOSPITAL WAS CONSISTENTLY THE MOST COMMON PLACE OF ALL CHILD DEATHS



THROUGHOUT SY MOST DEATHS OCCURRED IN THE MOST DEPRIVED QUINTILE

CDOP	1 (most deprived)	2	3	4	5 (least deprived)
▲					
Barnsley	48	12	10	5	2
Doncaster	74	22	8	8	4
Rotherham	50	16	4	7	2
Sheffield	117	23	22	17	18
Total	289	73	44	37	26

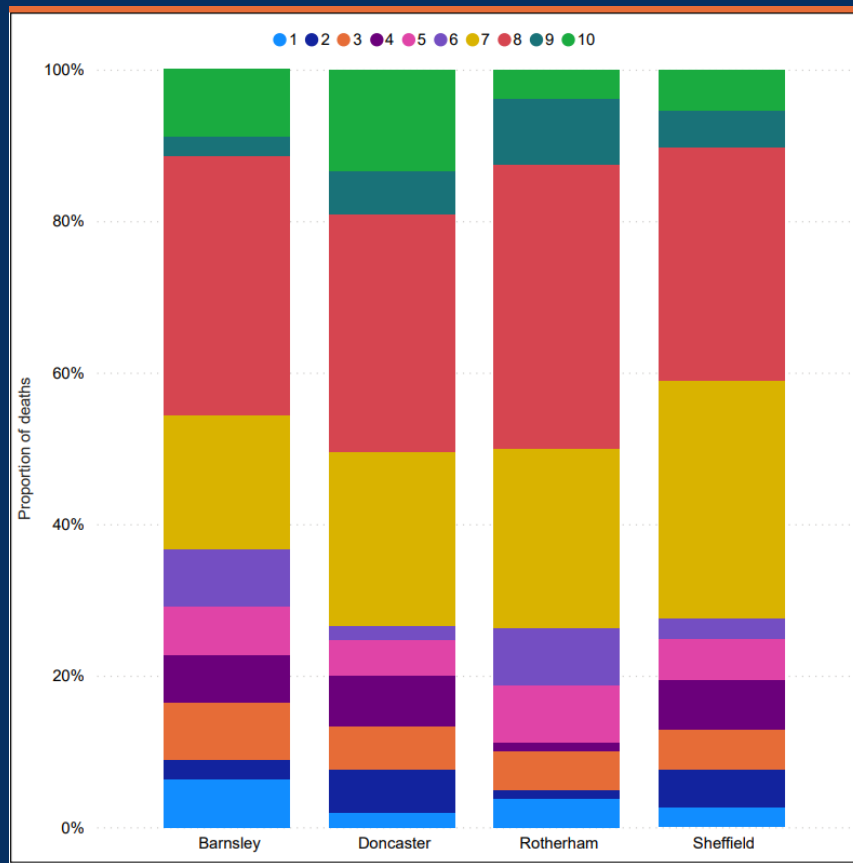
CDOP



ROTHERHAM FALLS BEHIND IN % OF DEATHS REVIEWED FROM YEARS 2020-21 ONWARDS

Year of Death CDOP	2019-20		2020-21		2021-22		2022-23		2023-24		Total	
	Deaths	% Reviewed	Deaths	% Reviewed	Deaths	% Reviewed	Deaths	% Reviewed	Deaths	% Reviewed	Deaths	% Reviewed
Barnsley	14	100%	14	100%	12	100%	20	90%	20	20%	80	78%
Doncaster	21	100%	27	100%	20	100%	26	62%	20	15%	114	76%
Rotherham	13	100%	9	89%	23	78%	17	35%	14	0%	76	59%
Sheffield	38	100%	24	100%	50	94%	44	86%	43	16%	199	77%
Total	86	100%	74	99%	105	92%	107	73%	97	14%	469	74%

ACROSS ALL SY REGIONS, THE HIGHEST PROPORTION OF DEATHS WERE SEEN IN CATEGORIES 7&8



- Category 1 = Deliberately inflicted injury, abuse or neglect
- Category 2 = Suicide or deliberate self-inflicted harm
- Category 3 = Trauma and other external factors, including medical/surgical complications/error
- Category 4 = Malignancy
- Category 5 = Acute medical or surgical condition
- Category 6 = Chronic medical condition
- Category 7 = Chromosomal, genetic and congenital anomalies
- Category 8 = Perinatal/neonatal event
- Category 9 = Infection
- Category 10 = Sudden unexpected, unexplained death

ACROSS ALL SY REGIONS, MODIFIABLE FACTORS WERE MOST COMMONLY FOUND IN CATEGORIES 1, 2, 3 AND 8.

Category of Death number CDOP	1 Number of reviews	Modifiable factors identified (%)	2 Number of reviews	Modifiable factors identified (%)	3 Number of reviews	Modifiable factors identified (%)	4 Number of reviews	Modifiable factors identified (%)	5 Number of reviews	Modifiable factors identified (%)	6 Number of reviews	Modifiable factors identified (%)	7 Number of reviews	Modifiable factors identified (%)	8 Number of reviews	Modifiable factors identified (%)	9 Number of reviews	Modifiable factors identified (%)	10 Number of reviews	Modifiable factors identified (%)
Barnsley	5	80%	2	100%	6	17%	5	20%	5	20%	6	17%	14	7%	27	44%	2		7	100%
Doncaster	2	100%	6	50%	6	83%	7	29%	5	40%	2		24	21%	33	58%	6	50%	14	71%
Rotherham	3	67%	1	100%	4	50%	1		6		6	33%	19	26%	30	50%	7	43%	3	
Sheffield	5	40%	9	78%	10	70%	12		10	30%	5		58	7%	57	30%	9	11%	10	70%
Total	15	67%	18	72%	26	58%	25	8%	26	23%	19	16%	115	13%	147	43%	24	29%	34	71%

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► NB: There is **no consistency** across the region on the definition of 'modifiable'

ROTHERHAM FELL BEHIND IN CDOP NOTIFICATIONS CONTAINING NHS NUMBER AND GESTATIONAL AGE

3.1.1: Completeness of notifications 2023-24

CDOP	Valid NHS number	Date of birth	Date of death	Sex	Ethnic group	Gestational age (under 1s)	Postcode	Place of death	Hospital specified
Barnsley	100%	100%	100%	100%	95%	92%	100%	100%	100%
Doncaster	100%	100%	100%	100%	95%	100%	100%	100%	100%
Rotherham	93%	100%	100%	100%	100%	89%	100%	100%	100%
Sheffield	100%	100%	100%	100%	100%	100%	100%	100%	100%
Total	99%	100%	100%	100%	98%	97%	100%	100%	100%

ROTHERHAM'S MEDIAN TIMELINESS OF REVIEWS WAS 2X THAT OF OTHER SY REGIONS

3.2.2: Timeliness of completed reviews 2023-24

CDOP	Median days between death and review	% of reviews in 12 months
Barnsley	350	57%
Doncaster	354	53%
Rotherham	614	
Sheffield	337	58%
Total	372	48%

	Median days between death and review	% of reviews in 12 months
England total	411	42%

- ▶ And Rotherham was significantly behind the national average
- ▶ There was no data on % of reviews in 12 months for Rotherham