Clinical Activities

Rationale for measurement

Demonstrates the volume of clinical activity in each organisation and information is reported on the total number of mothers delivered, the total numbers of births, the number of multiple pregnancies, and transfers in and out to hospitals.

Measurement methodology and data sources:

Local extracts submitted monthly and extrapolated for analysis and publication.

Target

These figures are not formatted in a way to support comparison with other hospitals or aggregation with other data.

Performance

Hospital	Hospital Activity		2023 Year to date	
	Total Mothers delivered ≥500g (n)	104	1245	
	Multiple pregnancies (n)	2	18	
Cavan Hospital	Total births ≥500 g_(n)111	106	1263	
	In utero transfer – admitted (n)	0	1	
	In utero transfer – sent out (n)	1	19	
Drogheda Hospital	Total Mothers delivered >500g (n)	228	2737	
	Multiple pregnancies (n)	3	32	
	Total births >500 g (n)	231	2770	
	In utero transfer – admitted (n)	1	19	
	In utero transfer – sent out (n)	3	38	
	Total Mothers delivered >500g (n)	708	8283	
	Multiple pregnancies (n)	16	157	
Rotunda	Total births >500 g (n)	723	8439	
	In utero transfer – admitted (n)	(Reported Quarterly)	15 for Q3 2023	
	In utero transfer – sent out (n)	(Reported Quarterly)	0 for Q3 2023	

⁽n) = number

Total mothers delivered >500g: Total number of women delivering a baby weighing 500g or more. The infant weight of 500g is an internationally recognised weight measurement for counting numbers of mothers delivered.

Multiple pregnancies: Number of mothers delivering more than one baby from a single pregnancy. This is a count of mothers, not numbers of bables delivered.

Total births >500g: Total number of bables born, including live births and stillbirths, weighing 500g or more. The weight of 500g is an internationally recognised weight measurement for counting numbers of bables born.

In-utero transfers admitted: Number of pregnant women admitted to a maternity hospital from another hospital prior to delivery for reasons in the fetal/maternal interest.

In-utero transfers sent out: Number of pregnant women transferred from a maternity hospital to another hospital prior to delivery for reasons in the fetal/maternal interest.

HOME BIRTHS

Introduction

Currently in Ireland there is a National Domiciliary Midwifery service available to eligible expectant mothers who wish to avail of a home birth service under the care of a self employed community midwife (SECM). This service is provided by the SECM on behalf of the HSE¹.

Rationale for measurement

Research shows that a planned home birth is an acceptable and safe alternative to a planned hospital birth for some pregnant women. The expectant mother, in consultation with her midwife and other Medical advisors of her choice, can decide whether home birth is a safe option for her and her baby¹.

Target

These figures are not formatted in a way to support comparison with other hospitals or aggregation with other data.

		m			

Performance	Month	N= Booked	N= Delivered at Home
	April	4	0
	May	3	2
	June	4	4
Geographic area associated	July	3	3
with the Rotunda Hospital	August	2	0
	September	3	2
	October	7	5
	November	7	5
	December	3	1
	Month	N= Booked	N= Delivered at Home
	April	1	1
	May	0	0
	June	1	1
Geographic area associated	July	1	1
with Drogheda Hospital	August	4	3
	September	0	0
	October	2	0
	November	1	1
	December	0	0
	Month	N= Booked	N= Delivered at Home
	April	0	0
	May	0	0
	June	0	0
Geographic area associated	July	0	0
with Cavan Hospital	August	1	0
-	September	1	1
Ī	October	0	0
	November	0	0

References:

¹ HSE (2022) National Home Birth Services

PERINATAL MORTALITY RATE (ADJUSTED)

Definition

The Adjusted Perinatal Mortality Rate is defined as Stillbirth and early neonatal death > 2500 grams excluding lethal congenital defects/1000 deliveries.

Rationale for measurement

The perinatal mortality rate is recognised as an indicator of the quality and safety of antenatal and perinatal care

Measurement methodology and data sources:

Local data extracts submitted monthly and extrapolated for analysis and publication.

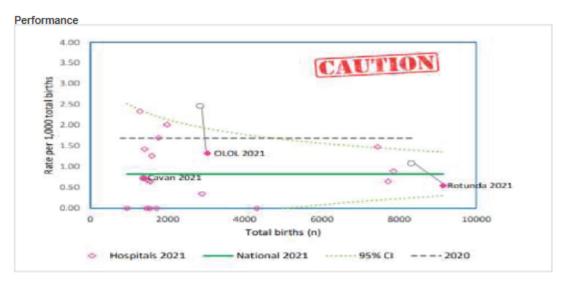
Target

The figures beneath are not formatted in a way to support comparison with other hospitals or aggregation with other data. Context is provided in the graph in section 'Perinatal Deaths ≥2.5kg without a Congenital Anomaly (Perinatal Adjusted)'.

Performance

Hospital	2023	2023
	December	Year to date
Cavan Hospital	9.4 (n=1)	0.79 (n=1
Drogheda Hospital	0	1.81 (n=5)
Rotunda Hospital	(Reported Quarterly)	0 for Q3 2023

December 2023 Perinatal Mortality Rate (Adjusted) for Cavan (9.4) was above the national rate of 0.83 (95% CI ±0.60-1.06, IMIS 2021). December 2023 Perinatal Mortality Rate (Adjusted) for Drogheda Hospital (0) was below the national rate of 0.83 (95% CI ±0.60-1.06, IMIS 2021). Q3-2023 Perinatal Mortality Rate (Adjusted) for Rotunda Hospital (0) was below the Confidence Interval of 95% ±0.60-1.06 (IMIS 2021).



Note:

Maternity units include in their figures of perinatal deaths babies that are transferred in utero from other units and die in their hospital. Annual rates of perinatal deaths ≥2.5kg without a congenital anomaly should be Interpreted with caution.

Drogheda, Cavan and Rotunda are all within the 95% confidence interval for 2021 (curved dashed lines).

NEONATAL ENCEPHALOPATHY (NE)

Rationale for measurement

Neonatal encephalopathy (NE) is a complex disease of a new-born infant and can be defined as clinical findings in three or more of the following domains: level of consciousness, spontaneous activity when awake or aroused, posture, tone, primitive reflexes, and autonomic system. NE can result from a wide variety of causes. Hypoxic Ischaemic Encephalopathy (HIE) is a subset of NE and is the most common cause of NE; however not all encephalopathies have a HIE.

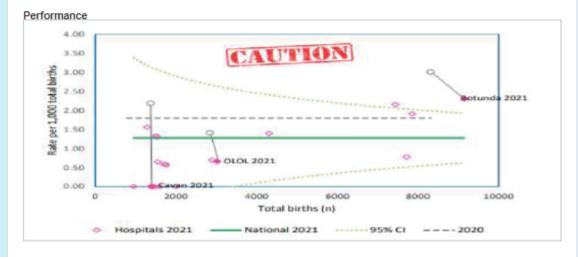
Measurement methodology and data sources:

Maternity Units in the Rotunda, Drogheda and Cavan Hospitals submit perinatal mortality and morbidity data on a monthly basis to the RCSI HG, which in turn is made available to the National Women and Infants Health Programme Clinical Programme Irish Maternity Indicator System (IMIS). The IMIS report is published on an annual basis and allows scrutiny of individual hospital processes and outcomes for women and infants, while bench marking them against national performance.

Variations in Neonatal Encephalopathy (NE) rates between maternity units could potentially be due to random chance or reflect differences in baseline characteristics of the childbearing population. For this reason, funnel plots are used to assess performance outcomes for individual maternity units in comparison to the overall average. The funnel plot is a scatter diagram of individual maternity unit mortality rates against the total number of births within that unit.

In the funnel graph below:-

- The national rate NE is indicated by the solid straight green line for 2021 and by a dashed grey line for 2020
- The curved dashed lines (the 95% confidence interval for 2021) represent the limits within which 95% of units
 are expected to lie
- Solid diamond-shaped markers represent the RCSI HG maternity hospitals/units
- The width of the confidence interval is adjusted to allow for meaningful comparison between unit-specific rates
 and the national rate. The confidence interval is wider for smaller units reflecting the lack of precision in rates
 calculated based on small numbers. The confidence interval narrows for larger maternity units, giving the
 diagram a 'funnel' shape.



Description: All infants with ≥35 weeks' gestation who, during the first week of life, have either seizures alone and/or signs of neonatal encephalopathy. Caution is advised when dealing with small values

Drogheda and Cavan are within the 95% confidence interval for 2021 (curved dashed lines) Rotunda is outside the 95% confidence interval for 2021 (curved dashed line)