

#### Keeping Cesarean Delivery Rates at Every Health Facility in Check: The Role of Robson Classification

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## Outline

Need to keep CS rate within health facilities in check

 Use of Robson Classification- a tool used to audit, monitor and compare CS rates within health facilities overtime and between them



#### Why Do We Need to audit, monitor and compare CS rate?

- Rising CD rates globally are a global public health concern
- Medically justifiable CS reduce mortality and Morbidity
- Use of CS in those not needing it offers no benefit, but risks
- No CS rate has been tagged as optimum for all Health Facilities

#### **WHO Statement on Caesarean Section Rates**

Every effort should be made to provide caesarean sections to women in need, rather than striving to achieve a specific rate

#### What tool can meet local & international needs?



#### WHO Statement on

Every effort should be made to prosections to women in need, rather to achieve a specific rate

#### **Executive summary**

Since 1985, the international healthcare community has co to be between 10% and 15%. Since then, caesarean sections developed and developing countries. When medically justifier maternal and perinatal mortality and morbidity. However, th caesarean delivery for women or infants who do not require the sections are associated with short and long term risk which ca delivery and affect the health of the woman, her child, and fut women with limited access to comprehensive obstetric care.

In recent years, governments and clinicians have expressed cor caesarean section births and the potential negative consequences fo the international community has increasingly referenced the need

#### Caesarean section rates

#### at the population level

WHO conducted two studies: a systematic review of available studies that had sought to find the ideal caesarean rate within a given country or population, and a worldwide country-level analysis using the latest available data. Based on this available data, and using internationally accepted methods to assess the evidence with the most appropriate analytical techniques, WHO concludes:

- 1. Caesarean sections are effective in saving maternal and infant lives, but only when they are required for medically indicated reasons.
- 2. At population level, caesarean section rates higher than 10% are not associated with reduction maternal and newborn mortalis
- Caesarean.co

There is currently i classification system allow meaningful ar across different facil. existing systems used the 10-group classific. classification?) has in re used in many countries systematic review of the Robson classification to adoption, implementatic identify barries

Caes

hospita

univer

## **The Robson Classification System**

- Also known as the Ten-Group Classification System (TGCS)
- Classifies all mothers delivering from a specific health facility into 10 groups
- Based on six routinely collected obstetric variable (see next slide)
- Easy to use, robust, reproducible, reliable & clinically relevant

#### Six core obstetric variables



#### The Robson 10 groups



### The Robson 10 groups



## **The Robson Classification Report Table**

Facility Name: Gulu Regional Referral Hospital					Period: June 2019-July	
					2022	
Group	Number	Number	Group	Group CS	Absolute	Relative
	of CS in	of women	size (%)	rate (%)	contribution	contribution
	group	in group			to overall	to overall
					CS rate (%)	CS rate (%)
1	81	664	30.9	12.2	3.8	27.1
2	9	10	0.5	90	0.4	3.0
3	87	1118	52.0	7.8	4.0	29.1
4	20	20	0.9	100	0.9	6.7
5	34	50	2.3	68	1.6	11.4
6	4	13	0.6	3.1	0.2	1.3
7	11	21	1.0	52.4	0.5	3.7
8	10	47	2.2	21.3	0.5	3.3
9	10	10	0.5	100	0.5	3.3
10	33	196	9.1	16.8	1.5	11.0

#### **Data Interpretation**



#### Assess Data Quality Assess Obstetric population Assess CS rates

## **Example: Assessment of Data Quality**

**Percentage of missing variables** 



#### Who Needs this Info?



### Setbacks in the use of Robson Classification

- Missing data/ variables
- Misclassification
- Lack of consensus on definition of some of the core variables

### **Take Home Message**

- Addressing issues concerning CS is the priority of the 21<sup>st</sup> Century
- To audit, monitor and compare CD rates within our health facilities over time and between them, Robson Classification is the tool to use.
- Data collection needs to be done routinely
- This will inform group-specific interventions to optimize the use of CD

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### References

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Analysis of Caeserean Delivery Rates at Gulu Regional Referral Hospital Using the Robson Ten-Group Classification System