

Every Newborn BIRTH multi-country validation study: informing measurement of coverage and quality of maternal and newborn care

Uterotonics for prevention of postpartum haemorrhage: EN-BIRTH multi-country validation study

Additional File 5: Facility register design and completion approaches for uterotonics by site, EN-BIRTH study (n=22,002)

	Bangladesh				Nepal	Tanzania	
	Azimpur Tertiary		Kushtia District		Pokhara Regional	Temeke Regional	Muhimbili National
	Original register	Revised register	Original register	Revised register			
Register design: Column allotted data element	non-specific	specific column	non-specific	specific column	no column	specific 2 columns	specific 2 columns
Column 1 heading	Drugs given	AMTSL (footnote oxytocin)	Drugs given	AMTSL (footnote oxytocin)		Mother given uterotonic	Mother given uterotonic
Column 1: data element completed if uterotonic given	"NVD drugs given"	tick for 'given'	drug name	tick for 'given'		yes (in Swahili)	yes (in Swahili)
Column 1: data element completed if uterotonic not given	to leave blank	to leave blank	to leave blank	to leave blank		no (in Swahili)	no (in Swahili)
Column 2 heading						AMTSL	AMTSL
Column 2: data element completed if uterotonic given						O (=oxytocin)	O (=oxytocin)
						E (=ergometrine)	E (=ergometrine)
						M (=misoprostol)	M (=misoprostol)
Column 2: data element completed if uterotonic not given						dash or No (in Swahili)	dash or No (in Swahili)
Completeness Data element recorded in register	not possible*	not possible*	not possible*	not possible*		99.2%	68.6%
External Consistency							
<i>Indicator:</i> Observed coverage %	98.9%	98.9%	99.8%	99.8%		99.3%	98.4%
<i>Indicator:</i> Measured coverage - register recorded %	17.8%	99.4%	0.0%	21.6%		97.6%	64.5%
<i>Measurement gap:</i> Register recorded and observed	81.1%	0.6%	99.8%	78.2%		1.7%	34.0%
	Under-estimate	Under-estimate	Under-estimate	Under-estimate		Under-estimate	Under-estimate

Key	>20%	Poor
no column for data element	16-20%	Moderate
non-specific column for data element	11-15%	Good
specific column	6-10%	Very Good
	0-5%	Excellent

N=22,002 women with register recorded birth record

For validity analysis, register recorded n=14,221 (all register data from Tanzania + revised register data from Bangladesh) [1]

*Completeness calculations are "not possible" for Bangladesh registers as the instructions state leave blank if intervention/practice is not done.

Cut-off ranges adapted from WHO Data Quality Review, Module 2 "Desk review of data quality" [2]

References

1. Day L, Rahman QS, Rahman A, Salim N, KC A, Ruysen H, Tahsina T, Masanja H, Basnet O, Gore-langton G *et al*: **Assessment of the validity of the measurement of newborn and maternal health-care coverage in hospitals (EN-BIRTH): a mixed-methods observational study** *Lancet Global* (2020) DOI: 10.1016/S2214-109X(20)30504-0.
2. World Health Organisation: **Data quality review: a toolkit for facility data quality assessment. Module 2: Desk review of data quality** WHO. Geneva; 2017.