Supplemental material

Appendix 1: Assessment of the type of Populations among women who gave birth at Hawassa University Referral Hospital, Hawassa, South Ethiopia.

Steps for	Interpretati	Example:	Sri	Our	Additional	Final Interpretation
Interpretation	on by	MCS	Lanka	finding	information	
	Robson	Population	study		from the data	
Step 1: Size of	35-42%	38.1%	38.1%	32.99%	Nulliparas in	Rate is lower than all the three references by
group1+2					our	Robson, MCS and Sri Lanka populations. This
					population	might be due to a low proportion of nullipara
					41.1%	women in our Hospital. There is also a possibility
						of misclassification (group 1 misclassified as
						group 10) since we determined gestational based
						new-born birth weight.
Step 2: Size of	30%	46.5%	37.3%	37.81%	Multiparous	Rate higher than Robson reference population, in
Group 3+4					in our	line with Sri Lanka reference population and
					population	lower than MCS examples. This may be
					58.9%	explained by a high proportion of multiparous
						women in our population
Step 3: Size of	Half of the	7.2%	10.9%	9.04%	-	Lower than half of total CS. This, as suggested by
group 5	total CS rate					the WHO manual, may be due to relatively low
						CS rate in the previous years, or to a recently
						increased CS rate or misclassification.
Step 4: size of	3-4%	2.7%	3.4%	2.77%	-	Rate is in line with Robson, MCS and Sri Lanka
group 6+7						reference populations
Step 5: Size of	1.5-2%	0.9%	1.1%	3.85%	36.7% of	Rate is higher than Robson, MCS and Sri Lanka
group 8					women	reference populations. This may be due to high
					delivered in	referral cases in our hospital as suggested by the
					our Hospitals	WHO manual.

					were referred cases	
Step 6: Size of group 10	<10%	4.2%	7.8%	13.14%	15.1% of all women who gave birth in our hospital delivered preterm birth.	Rate is higher than Robson, MCS and Sri Lanka reference populations. This may be due to high referral cases and high preterm birth in our hospital. The hospital is a tertiary hospital were most high-risk pregnancies referred to. There is also a possibility of misclassification since we determined gestational based new-born birth weight.
Step 7: Ratio of the size of group 1 versus group 2	Ratio 2 or higher	Ratio 3.3	Ratio 1.5	Ratio 4.8	-	The rate in line with Robson and MCS example reference populations
Step 8: Ratio of size of group 3 versus group 4	>2:1	Ratio 6.3	Ratio 2.6	Ratio 8.6	-	Rate in line with Robson and MCS example refence populations
Step 9: Ratio of size of group 6 versus group 7	Usually 2:1	Ratio 0.8	Ratio 1.2	Ratio 0.7	Multiparous in our population 58.9%	The rate in line with MCS and Sri Lanka reference populations, but lower than Robson references. This may be explained by a high proportion of Multiparous women in our population.