

Attitudes of mothers attending public hospitals in Addis Ababa, Ethiopia, to neonatal sunlight exposure: a cross-sectional study.

Authors

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Sample size calculation for mothers attending public hospitals, Addis Ababa, Ethiopia, 2020.

The sample size was calculated using the single population proportion formula considering the following assumptions; the prevalence of mothers' practice of neonatal sunlight exposure is 45.7% as done in South Gondar Zone, North West Ethiopia among mothers, 95% confidence level, and 5% margin of error.

$$\text{Sample size (n)} = \frac{Z^{\alpha/2} p(1-p)}{d^2}$$

$$n = \frac{1.96^2 \times 0.457 \times 0.543}{0.05^2}$$

$$n = \underline{\underline{381}}$$

Where **Z** = critical value for normal distribution at 95% confidence level which equals to 1.96 (z value at $\alpha = 0.05$)

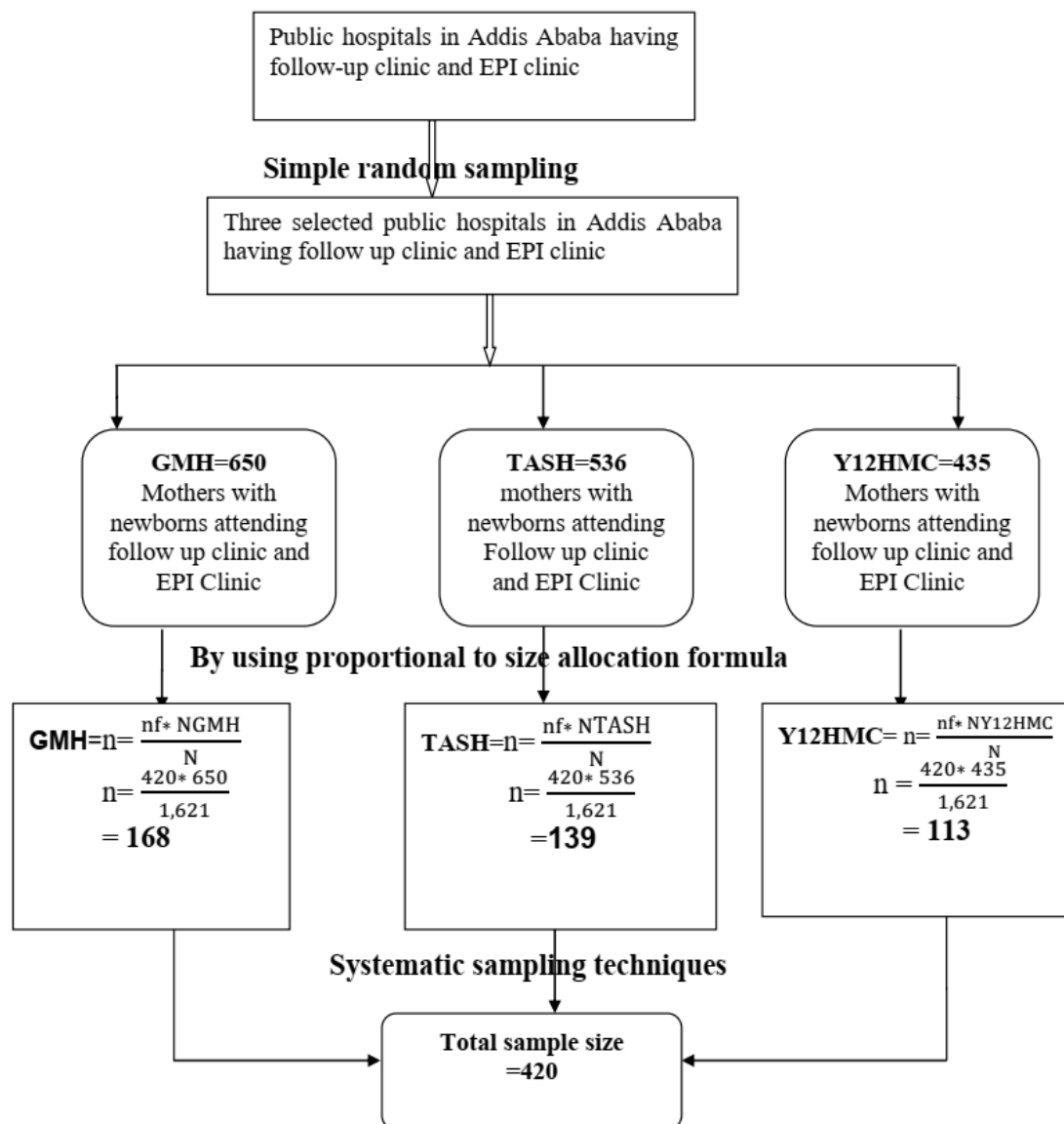
n= Sample

p= prevalence of mothers' practice of neonatal sunlight exposure.

d= Margin of error=5%=0.05

Adding 10% of the non-respondent rate, the final sample size was **420**.

Schematic presentation of the sampling procedure for mothers attending public hospitals, Addis Ababa, Ethiopia, 2020.



English Version Questionnaires

Part I- Questions related to Socio-demographic information

Instruction: Socio-demographic characteristics of the study participants in public hospitals, Addis Ababa, Ethiopia, 2020.

No.	Questions	Coding categories	Skip to
101	Mother's age	_____ years	
102	Neonatal/postnatal/ age	_____ days	
103	Marital status	1. Single 2. Married 3. Divorced 4. Widowed 5. Others _____	
104	Mother's educational status	1. No formal learning 2. Grade 1 -8 3. Grade 9 th -12 4. College Diploma 5. University Degree and Above	
105	Occupation	1. Student 2. Housewife 3. Government employee 4. Private employee 5. Daily laborer 6. Merchant 7. Others _____	
106	Residency	1. Urban 2. Rural	
107	Type of housing designs	1. Compound House (villa) 2. Condominium/ Apartments 3. Other specify _____	
108	Family size	_____	
109	Monthly income	_____ Ethiopian birr	
110	Husband's educational status	1. No formal learning 2. Grade 1 -8 3. Grade 9 th -12 4. College Diploma 5. University Degree and Above	

Part II: Maternal and neonatal factors related to the mother's practice of sunlight exposure of their neonates in public hospitals, Addis Ababa, Ethiopia, 2020.

No.	Questions	Coding categories	Skip to
201	ANC visit	1. Yes 2. No	
202	Number of visits	_____ number	
203	Place of delivery	1. Home 2. Health center 3. Hospital 4. Others _____	
204	Gestational Age	_____ in wks.	
205	Birth weight	_____ in kg	

Part III- Knowledge of mothers on sunlight exposure of their neonates in public hospitals, Addis Ababa, 2020.

No.	Questions	Coding categories	Skip to
301	Do you know about sunlight exposure	1. Yes 2. No →	401
302	Source of information about sunlight exposure (Circle more than one)	1. Physician 2. Midwife/nurse 3. Television/radio 4. Neighbors/elder people 5. Others _____	
303	Does sunlight exposure beneficial?	1. Yes 2. No →	305
304	The benefit of sunlight exposure (Circle more than one)	1. Strengthen bone 2. Strengthen teeth 3. Keep the child warm 4. Produce vitamin D 5. Strengthen the body 6. Others _____	
305	Does sunlight exposure harmful	1. Yes 2. No	
306	The harmful effect of sunlight exposure (Circle more than one)	1. Skin cancer 2. Sterility 3. Blindness 4. Others _____	

307	Good time to expose newborns on sunlight (Circle more than one)	1. Morning 2. Afternoon 3. Evening	
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Part IV- Other factors affecting the practice of mothers on sunlight exposure of their neonate among public hospitals, Addis Ababa, Ethiopia, 2020.

No	Questions	Code categories	Skip to
501	Do you have a fear to expose your baby to sunlight?	1. Yes 2. No	
502	Mother's fear of sunlight exposure (Circle more than one)	1. Sickness 2. Evil eye 3. Cold 4. Other specify_____	

Part V- Practices of mothers on sunlight exposure of their neonates in public hospitals, Addis Ababa, Ethiopia, 2020.

No.	Questions	Coding categories
401	Do you expose your neonate on sunlight?	1. Yes 2. No
402	Age of the newborns to start sunlight exposure	_____
403	How frequently do you expose?	1. Daily 2. Sometimes
404	Where do you expose your neonate on sunlight	1. Outdoor 2. Indoor
405	At what time of the day do you expose your baby outdoors? (Circle more than one)	1. Morning 8-10 AM 2. Mid-day 11 AM-1 PM 3. Afternoon 2-4 PM
406	Condition of clothing during exposure	1. Unclothed 2. With diapers and eye protection only 3. Partly covered 4. Completely covered
407	For how many minutes do you expose your neonate on sunlight?	_____
408	Do you apply lubricants to your neonate body during sunlight exposure?	1. Yes 2. No

409	If you apply, when do you apply? (Circle more than one)	1. Before exposure 2. During exposure 3. After exposure
410	What things do you apply?	1. Baby Vaseline 2. Baby lotion 3. Butter 4. Other _____