

Factors Associated with Induced Preterm Birth and Its Immediate Outcome in Addis Ababa Public Hospitals, Ethiopia

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Abstract

Objective: It was to assess factors associated with induced preterm birth and its immediate outcome from 2011 to 2015 in Addis Ababa public hospitals.

Methods: The hospitals were selected by simple random sampling. Following this, the neonatal medical records were selected by systematic sampling from admission neonatal intensive care unit's log book. Data were collected using structured questionnaire. Finally data were entered to EPIDATA3.1 and transported to SPSS 22 for analysis. Analysis was undertaken using bivariate and multivariate logistic regression.

Result: Majority (66.1%) of preterm births were spontaneous and 33.9% were induced preterm births. From those admitted preterm births to Neonatal intensive care unit, 45.3% were died and 54.7% discharged alive. Maternal Human immune deficiency virus (HIV) infection [p=0.003, AOR=6.446, 95%CI: (3.085, 26.279)] was one of the factors associated with both the induced preterm birth and immediate death outcome of preterm birth.

Conclusion: Maternal HIV infection and hypertension during pregnancy were associated with the induced preterm birth; and maternal HIV infection, premature rupture of membrane, low Appearance, pulse, grimace, activity and respiration (APGAR) score and respiratory distress were associated with immediate death outcome of preterm birth.

Keywords: Preterm; Induced; Immediate death outcome

Introduction

WHO defined Preterm birth as a delivery that occurs before 37 completed weeks of gestation. It is classified as extremely preterm (<28 weeks), very preterm (28 to <32 weeks), and moderate to late preterm (32 to <37 weeks). On similar basis, preterm birth can be categorized by birth weight. Neonates less than 2500 g are classified as low birth weight (LBW), <1500 g, as very low birth weight (VLBW) and <1000 gas extremely low birth weight (ELBW) preterm. Preterm birth can also be spontaneous or provider initiated (induced). Spontaneous preterm birth is commencement of labor with intact or pre labor rapture of membrane and birth before 37 weeks of gestation. Provider-initiated (induced) preterm birth results from intervention such as induction of labor or caesarian section taken for maternal or fetal condition. Spontaneous and induced (provider initiated) preterm births account for 65-70% and 30-35% of all preterm births respectively [1].

Preterm birth is the leading cause of infant morbidity and mortality throughout the world. It has significant consequences on health, social, psychology and economy. Global rate of preterm birth is increasing from which 5% to 7% is in developed countries and significantly higher in least developed countries. From total 135 million live births in the world, 14.9 million (11.1%) babies were born preterm in 2010.

Greater than 60% of preterm births occurred in Sub-Saharan Africa and south Asia 12.8% (9.1 million) [2].

As gestational age decrease mortality rate increases, and being born both preterm and small for gestational age are at even high risk. In many low income countries, only 30% of those born at 28 to 32 weeks survive while almost all preterm births <28 weeks die within the first few days of life. In all settings, majority of deaths stand for very or extremely preterm births, especially where simple care is lacking in low income countries. Although their absolute numbers are lower, preterm-SGA infants carry a higher risk of mortality in the newborn and infant period than term-SGA infants. Estimate of 86% of extremely preterm live birth babies died in the early neonatal period compared to 50.5% of very preterm babies [3-6].

The highest rate (23%) of preterm birth in Southeast Nigeria was evidenced during 2012 and the increment from 9.8% to 17.1% was realized from 2009 to 2013. In this region, majority (57%) of preterm births were spontaneous and the rest (43%) were induced (providerinitiated) preterm births. 2011 EDHS reported 37/1000 live births Neonatal Mortality Rate (NMR) which was almost similar with 2005 EDHS report of 39/1000 live births. Commonly stated causes of neonatal death were prematurity (37%), infection (28%), and asphyxia (24%) [4,7,8]. In Northwest Ethiopia, Gondar University hospital about 14.3% was found to be preterm birth and 31.4% rate of preterm delivery in mothers having pregnancy related hypertension was recorded in Mettu Karl hospital, Southwestern Ethiopia [9-11].

In later life, being born preterm predisposes infants to bad health outcomes like chronic diseases which can end with death. Thus, the issue of addressing preterm birth is crucial for accelerating progress towards Universal Sustainable Development Goal 4. Specially, infants born before 32 weeks of gestation are at particularly high risk of adverse outcomes [5,12-17].

Little is known about risk factors and immediate outcome of induced preterm in Ethiopia. Therefore, this study serves as base line information about factors associated with induced preterm birth and it's immediate out come in the context of this country. Beside, this supports for the readiness of health facilities so as to make appropriate diagnosis and evaluation of the causes of preterm births and their deaths.

The aim of this study was to assess factors associated with induced preterm birth and its immediate outcome that intended to contribute improvement and necessary adjustments to neonatal care.

Materials and Methods

The design applied to this study was institutional based cross sectional study. Six Addis Ababa public hospitals had neonatal intensive care unit. From these, simple random sampling was the sampling method to select the three hospitals. Proportional allocation of the sample to the selected hospitals was undertaken on the basis of their number of preterm admissions. Medical records of the preterm neonates were sought from registry log book of the neonatal intensive care unit and study unit selection was handled by systematic sampling. Data collection was accomplished by using structured, pretested questionnaire which was adopted and modified from different related studies [2,3,11,18-21].

EpiData3.1 was used for data entry and later exported to SPSS version 22 where data cleaning, recoding and analysis were performed. Bivariate and multivariate logistic regression analyses were done to assess associations between variables. The cut point of P-value <0.05 was used to indicate statistical significance of the variables.

Official letter from Addis Ababa University, school of Allied health sciences department of nursing and midwifery was written to Black lion specialized hospital and Addis Ababa regional health office for permission of both Gandhi and Zewditu memorial hospitals. Then, the city health Bearue processed the permission of the two hospitals. Following this, permission from the medical director, neonatology and pediatric department of the three hospitals were processed, and medical record office of the respective hospital was contacted accordingly. Finally, respectful care for the patient's medical record with maintaining of confidentiality was involved to the end of data collection.

Results

The age of the mother ranges 14 to 43 years with mean age of 26.09 (\pm 4.772908 SD). Majority (51.7%) of them were above the mean age (>26). Around fifty one percent and 52.9% (203) were primigravida and primipara respectively. Abortion stands first (34.8%) and neonatal death was the rare (3.9%) outcome of the immediate previous pregnancy (Table 1). From multi-para mothers, 24.3% (44), 29.8% (54), 35.9% (65), 9.4% (17) and 0.6% (1) have given birth before 12 months, 18 months, 24 months, 36 months and further than 36 months respectively.

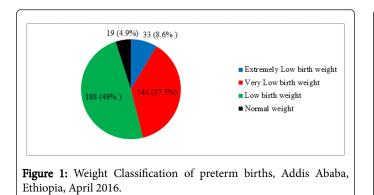
Out come	Frequency	Percent
Preterm birth	45	24.9
Still birth	19	10.5
Neonatal death	7	3.9
Abortion	63	34.8
Normal	47	26.0
Total	181	100.0

Table 1: Outcome of immediate previous pregnancy of preterm baby's mothers, Addis Ababa, Ethiopia, April 2016.

The mean gestational age was 32.45 weeks (± 2.903 SD). Majority of the preterm births were under moderate to late preterm. The mean of first minute APGAR was 5.64 (+1.592) and majority (68%) had had low APGAR score. Averagely, they were 41.77 cm long with standard deviation of 5.137. The mean weight was 1669.4 g (± 508.688 SD) while 700 g was the minimum weight and the maximum to be 4000 g (Figure 1). Three hundred fifty three (91.9%) of the neonates were diagnosed at least to have one medical problem and the left 8.1% (31) had no medical problems on admission. Of these; 66.3% (234) had respiratory distress and 0.6% (2) had Pneumonia (Figure 2).

Factors associated with induced preterm birth

In bivariate analysis, maternal age, maternal HIV infection, diagnosis of medical disorder during pregnancy, hypertension during pregnancy, premature rupture of membrane had significant association with induced preterm birth. However, variables like parity, gravidity, multiple pregnancies, outcome of immediate previous pregnancy, time and mode of previous delivery had not shown significant association with induced preterm birth in this study.



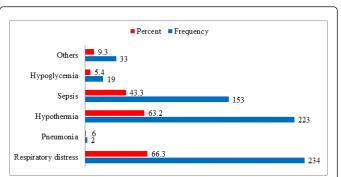


Figure 2: Common medical problems of preterm births, Addis Ababa, Ethiopia, April 2016.

Ch	acteristics	Indicated preterm		S.E.			
Gharacteristics		Yes: # (%)	No: # (%)	- S.E.	P-value	AOR (95% C.I)	
Age	of mother		1		1		
	<25	52 (27.8)	135 (72.2)	0.406	0.247	1.600 (0.723, 3.543	
	>26*	78 (39.6)	119 (60.4)	-	-	1	
G	ravidity						
	<1		135 (69.2)	1.561	0.691	1.859 (0.087, 39.62	
	>2*	70 (37.0)	119 (63.0)	-	-	1	
I	Parity		1	1	1		
	<1	62 (30.5)	141 (69.5)	1.542	0.927	0.868 (0.042, 17.82	
		68 (37.6)	113 (62.4)	-	-	1	
Multiple	pregnancy				1		
	Yes		44 (60.3)	0.535	0.808	0.878 (0.307, 2.508	
	No*	101 (32.5)	210 (67.5)	-	-	1	
Maternal	HIV infection						
	Yes	6 (25.0)	18 (75.0)	0.592	0.035*	0.287 (0.090, 0.916	
	No*	74 (56.1)	58 (43.9)	-	-	1	
Hypertension	during pregnancy						
	Yes	53 (80.3)	13 (19.7)		0.001*	5.082 (1.913, 13.49	
	No*	27 (30.0)	63 (70.0)	-	-	1	
F	ROM						
	Yes	24 (51.1)	23 (48.9)	0.527	0.054	0.362 (0.129, 1.01	
	No*	57 (52.3)		-	_	1	

Table 2: Multivariate Analysis of factors associated with induced Preterm birth, Addis Ababa, Ethiopia, April 2016.

From those variables shown significant statistical association in bivariate analysis, only maternal HIV infection and hypertension

during pregnancy remained significant in multivariate analysis (Table 2). Accordingly, mothers who had hypertension during pregnancy 5

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times more likely gave induced preterm birth than those who had no hypertension during pregnancy (p=0.001, AOR=5.082, 95%CI: 1.913, 13.498). On the contrary, mothers with HIV infection had less odds of giving induced preterm birth than their counter part (p=0.035, AOR=0.28, 95%CI: 0.090, 0.916).

Factors associated with immediate outcome of preterm birth

In bivariate analysis, factors like maternal age, gravidity, parity, multiple pregnancy, birth intervals, diabetes and hypertension during pregnancy had no significant association while some variables shown significant association with immediate death outcome of the preterm birth. For instance preterm neonate of HIV mother more likely died before discharge than that of HIV negative mothers (P=0.004, OR=4.200, 95%CI: 1.566, 11.265). Likewise, those preterm neonates who were born to mothers who experienced premature rupture of membrane had about 4 times more probability of death (p=0.000, OR=4.066, 95%CI: 1.947, 8.493) than those who born to mothers who did not develop rupture of membrane.

Compared to moderate to late preterm birth, extremely preterm (P=0.024, OR=2.091, 95%CI: 1.104, 3.958) and very preterm (P=0.000, OR=2.723, 95%CI: 1.726, 4.296) more likely died before discharge. Extremely low birth weight (P=0.002, OR=7.467, 95%CI: 2.083, 26.762) and very low birth weight preterm (P=0.042, OR=3.043, 95%CI: 1.042, 8.892) more likely died before discharge in comparison to preterm babies with normal weight, but low birth weight had no significant association with death. Preterm with low APGAR score (P=0.000, OR=5.215, 95%CI: 3.154, 8.623) died 5 folds greater than

those with normal APGAR score before discharge. In relative to induced preterm birth, spontaneous preterm (P=0.005, OR=0.541, 95%CI: 0.353, 0.829) had less chance of death before discharge. Preterm baby who had sepsis more likely died before discharge unlike who had no sepsis (P=0.000, OR=3.07, 95%CI: 1.988, 4.770). Diagnosis of respiratory distress had also shown significant association (P=0.000, OR=4.081, 95%CI: 2.512, 6.629) that those diagnosed with respiratory distress had 4.081 times greater odds of death than preterm births who had no respiratory distress. However, hypothermia and pneumonia didn't show any significant association in bivariate analysis. Also weight category (being SGA, AGA, and LGA) had no significant association with immediate death outcome of the preterm neonate.

Only Maternal HIV infection, premature rupture of membrane (PROM), low APGAR score and respiratory distress remained significantly associated in multivariate analysis. Thus, preterm babies born to HIV positive mother more likely (p=0.003, AOR=6.446, 95%CI: 3.085, 26.279) died before discharge than those who born to HIV negative mother. Also preterm died before discharge had greater odds (P=0.00, AOR=8.365, 95%CI: 6.897, 23.242) of being born after premature rupture of membrane that is 8.365 times greater odds of those who born before their mothers experienced rupture of membrane. Likewise those preterm births with low APGAR score 4 times more likely died before discharge than those with normal APGAR score (P=0.0444, AOR=4.342, 95%CI:1.040, 18.135). Similarly, preterm birth with respiratory distress also died almost 5 times more likely than those who hadn't the problem (P=0.044, AOR=4.956, 95%CI: 1.041, 23.585) (Table 3).

Characteristics		Death before discharge				
		Yes: # (%)	No: # (%)	S.E.	P-value	AOR (95% C.I)
Maternal	HIV infection				<u> </u>	
	Yes	18 (75.0)	6 (25.0)	1.133	0.003**	6.446 (3.085,26.279)
	No*	55 (41.7)	77 (58.3)	-	-	1
Hypertension	during pregnancy					
	Yes	35 (53.0)	31 (47.0)	0.870	0.546	1.691 (0.307, 9.304)
	No*	38 (42.2)	52 (57.8)	-	-	1
F	PROM				· · · · · ·	
	Yes	33 (70.2)	14 (29.8)	0.901	0.000**	8.365 (6.897, 23.242)
	No*	40 (36.7)	69 (63.3)	-	-	1
Spontaneo	us Preterm birth					
	Yes	102 (40.2)	152 (59.8)	0.820	0.073	0.230 (0.046,1.149)
	No*	72 (55.4)	58 (44.6)	-	-	1
GA based	d classification			1	I	
	Extremely preterm	25 (53.2)	22 (46.8)	0.924	0.208	3.198 (0.523, 19.545
	Very preterm	74 (59.7)	50 (40.3)	0.753	0.473	1.717 (0.392, 7.511)
	Moderate to late preterm*	75 (35.2)	138 (64.8)	-	-	1

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Weight bas	ed classification					
	ELBW	24 (72.7)	9 (27.3)	5584.45	0.997	1.480 (0.000,)
	VLBW	75 (52.1)	69 (47.9)	5584.45	0.997	4.203 (.000)
	Normal weight*	5 (26.3)	14 (73.7)	-	-	1
APG	GAR score				1	
	Low APGAR score	149 (57.1)	112 (42.9)	0.729	0.044**	4.342 (1.040, 18.135)
	Normal APGAR score*	25 (20.3)	98 (79.7)	-	-	1
Нур	oothermia					
	Yes	114 (51.1)	109 (48.9)	0.603	0.965	1.027 (0.315,3.351)
	No*	109 (48.9)	75 (57.7)	-	-	1
Respira	atory distress					
	Yes	138 (59.0)	96 (41.0)	0.796	0.044**	4.956 (1.041,23.585)
	No*	31 (26.1)	88 (73.9)	-	-	1
S	Sepsis					
	Yes	97 (63.4)	56 (36.6)	5584.45	0.997	47.625 (0.000,)
	No*	72 (36.0)	128 (64.0)	-	-	1

Table 3: Multivariate Analysis of factors associated with immediate death outcome of Preterm birth, Addis Ababa, Ethiopia, April 2016.

Discussion

Average gestational age of the preterm in this study (32.45 weeks) is almost similar with the recorded mean age of preterm in Gondar university hospital, but higher than that of gestational age in preterm birth in Vali-e ASR hospital of Tehran Iran [21,22]. Methodological and socio-economic difference might play a role for this variation. Proportion of preterm-AGA (70.3) was greater than the proportion of preterm-SGA. This is similar with that of finding in East Africa [11]. In line with evidence from study of Southeast Nigeria, few preterm had normal birth weight [3]. Mothers with HIV infection had less odds of giving induced preterm birth than their counter group even though it increased risk of giving preterm birth in Tanzania [23]. As it was evidenced in different studies [23-25] for preterm, hypertension was significantly associated with preterm birth and highly increased risk of induced preterm birth.

This study also found out factors associated with immediate death outcome of preterm birth. From maternal factors, those born to HIV positive mothers had greater risk of death before discharge both in bivariate and multi-variate analysis. Finding from rural South Africa similarly stated greater risk of infant mortality for those born to HIVpositive mothers [25]. Even though it was not stated in other studies, those preterm baby who were born to mothers having history of premature rupture of membrane (PROM) had greater risk of death before discharge than those who had no history of premature rupture of membrane. Since PROM can put the neonate at high risk of developing sepsis which was significantly associated with higher risk of death for the preterm baby, this might be the reason behind of this association. But except maternal history of premature rupture of membrane, neonatal sepsis turned insignificant in multivariate analysis. Compared to moderate to late preterm, very preterm and extremely preterm had greater odds of death in bivariate analysis which is similar to study in southeast Nigeria [3]. Similar to study of Valie-ASR hospital, extremely and very low birth weight preterm births more likely died before discharge when compared to preterm birth with normal weight. But their significance was not repeated in multivariate analysis. Again, the diagnosis of respiratory distress had also shown significant association that those diagnosed with respiratory distress had greater odds of death. This finding is supported with studies in Sub-Saharan Africa and Mettu Karl hospitals, Ethiopia [12,22,26].

Conclusions

Hypertension during pregnancy and maternal HIV infection were factors associated with induced preterm birth. On the other hand, maternal HIV infection, premature rupture of membrane, low APGAR score and respiratory distress were significantly associated with immediate death outcome of preterm birth.

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