HEALTH SYSTEM AND PATIENT-RELATED FACTORS AFFECTING WOMEN AFTER STILLBIRTH IN PORT HARCOURT

Samuel Chukwuma Adiele

Department of Obstetrics & Gynaecology, Rivers State University Teaching Hospital, Port Harcourt,

Nigeria.

DOI:https://doi.org/10.5281/zenodo.15495509

Abstract: Background: Nigeria makes a substantial contribution to the global burden of stillbirths. However, data on women's experiences and care received at the time of stillbirth are limited. This study aimed to investigate the experiences and patientrelated and health system factors in women who had a stillbirth in a previous pregnancy in the past 15 years.

Methodology: This was a cross-sectional survey of 64 pregnant women, attending antenatal care in Port-Harcourt, who had stillbirth in a previous pregnancy. Consenting participants were interviewed using a predesigned and pretested questionnaire. Information on sociodemographic characteristics, pregnancy history including health-seeking behaviour in the stillbirth pregnancy, and women's experiences and appraisal of care provided by healthcare workers during the stillbirth event, were collected. Data was analysed using descriptive statistics and presented as numbers, Means and Percentages in tables.

Results: Most participants (92.2%) experienced one stillbirth. The majority (71.9%) had stillbirths at 9 months gestation. Almost all pregnancies (98.4%) were singleton, and most mothers (81.3%) reported attending antenatal care regularly. The majority of deliveries (89.1%) occurred in healthcare facilities. Post-stillbirth, 45.3% of the mothers stayed in an open postnatal ward, 56.3% saw their stillborn child, with 39.1% of them not seeing the baby at all, and only 4.69% saw and held their dead baby. Over half (56.3%) found healthcare workers supportive and satisfied with their role, but (45.3%) did not receive postnatal care or counselling. Concerning performing an autopsy, 60.9% would not have requested one. **Conclusion:** Most stillbirths were term pregnancies, occurred intrapartum, and were in-facility deliveries. Delays in reporting complications and receiving care at the hospital contributed to the stillbirths. A good proportion of the women were not shown and did not hold their babies and were admitted to a standard postnatal ward following delivery, factors which are predictive of increased psychological morbidity. However, most women were satisfied with the care and support they received from healthcare workers during the delivery.

Keywords: Stillbirths; Patient-Related Factors; Health System Factors; Women's Experiences; Perinatal Mortality.

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

Introduction: A baby born with no signs of life, at or after 28 weeks of gestation, is defined as a stillbirth according to the World Health Organization.^[1] About 98% of stillbirths occur in low-income and middle-income countries.^[2] Available data indicate that Nigeria has the second highest rate of stillbirths in the world, after Pakistan.^[3] Despite its high prevalence, there is a persisting lack of accurate data on the risk factors for stillbirths in Nigeria.^[4] While hospital-record studies provide substantial insights into the nature of the problem, especially the medical factors associated with stillbirths, they are limited in their usefulness to define the non-medical or patient-related risk factors and cannot be used in designing interventions at that level. A large proportion of births (over 60%) occur outside health facilities in Nigeria, in the homes of traditional and faith-based birth attendants.^[5] Unfortunately, stillbirths occurring in such settings are difficult to capture, especially when traditional norms do not allow the classification of babies that show no signs of life at birth,^[4,6] and insights into what transpired at such birth can only be gotten from the women who subsequently, after such regrettable loss, often register for antenatal care and delivery in health institutions. Studies have reported the main risk factors associated with stillbirth as lack of antenatal care, poor antenatal clinic attendance, multiparty, illiteracy and late presentation of complicated labor to the facility.^[7-9] Socioeconomic deprivation and domestic violence have also been associated with late stillbirths.^[10]One study has reported that null parity was significantly associated with stillbirth,^[11] and another reported that the risk of stillbirth in subsequent pregnancies is about 5-fold higher in women who had a stillbirth in their first pregnancy, compared to women who had a live birth. No expectant parent is prepared for the shock of a diagnosis and giving birth to a stillborn child, and the trauma of such experience is associated with increased anxiety, depression and post-traumatic stress persisting long after the event and into the subsequent pregnancy. Factors predictive of psychological morbidity after stillbirth have been reported to include: a longer duration from the diagnosis of stillbirth to the delivery of the baby, not seeing and holding the baby after delivery as desired, young maternal age, being unmarried, low level of education, a short period since after the stillbirth, and no subsequent pregnancy after the stillbirth.[15-18] The mother sharing memories of her baby, and caregivers providing social and professional support to the mother, has been shown to be associated with better mental health following a stillbirth.^[18,19] However, data on experiences and care received at the time of stillbirth are limited but are required to improve the care women receive in order to reduce the psychological morbidity they are prone to. We conducted a cross-sectional survey to give better insights into the experiences of these women and elucidate the social, health system and patient-related factors among women who had stillbirths, to aid in designing interventions needed to improve the care these women receive. We therefore sought to investigate the experiences and patient & health system-related factors in women who have had stillbirths. Findings from this study will serve to provide the basis for evidence-based recommendations and interventions that may improve the care of women with stillbirth.

Methodology:

Study site/area:

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

This study was conducted at the antenatal clinics of the Rivers State University Teaching Hospital (RSUTH), a tertiary hospital that serves as a referral center, and the four neighboring Comprehensive Health Centers in Port Harcourt City Local Government area (Orogbum, Churchill, Potts-Johnson and Okija), all owned and funded by the Government of Rivers State. There is no intervening secondary healthcare facility in Port-Harcourt local Government area. The hospitals provide antenatal care and delivery services to women in the old Port Harcourt Township. Port-Harcourt is a state capital, a metropolitan oil-rich city, and made up of multi-ethnic and multicultural residents. Port Harcourt is predominately Christian, as is most of Southern Nigeria. Ethical approval (RSUTH/REC/2024463) was obtained from the Research and Ethics Committee of the RSUTH and endorsed by the Medical Officer for Health of the Port Harcourt City Local Government Area, before the commencement of the study. The data collectors were trained and strictly supervised on adherence to the principle of privacy & confidentiality and expressing empathy with the plight of the bereaved parent and assuring them of the benefits derivable from the study findings.

Study design and population:

A cross-sectional study was carried out. Consenting participants were interviewed using a predesigned and pretested questionnaire that required about ten minutes to complete. The study population were pregnant women aged ≥ 18 years, booked for antenatal care at the study areas, who have had a stillbirth delivery in a previous pregnancy within 15 years. Stillbirth in this study was taken as the death of a foetus from 28 weeks of gestation upwards, without any sign of life at birth.

Sample size determination:

The minimum sample size required for the study was calculated using the Cochran formula.

 $n = Z^2 \frac{pq(1-p)}{e^2}$

Where: n = the desired sample size; Z = the Z score of 1.96, which corresponds to 95% confidence level, P = prevalence of stillbirth according to a study by Okonofua et al. of 3.96%.^[4] q = 1-p= 1.00.03960r0.9604; and e = degree of accuracy desired of 0.05. The calculated sample size was n = 58.4. Allowing for 10% non-response, the minimum sample size adopted was 64.

Sampling Technique / Procedures:

All consecutive and consenting booked pregnant women, with a history of stillbirth, were recruited daily for the study, simultaneously from all centers, until the required sample size of 64 was attained. A period of five months (April to August 2024) was required to achieve the required number.

Data collection instrument/methods:

The women who agreed to participate and gave informed written consent were interviewed (face-toface) using a predesigned, pretested and validated questionnaire in the English language. The standardized questionnaire was purposively designed with closed and open-ended questions. The questionnaire was pretested on four patients with stillbirth, selected purposively, and these women were excluded from the study. Necessary modifications were thereafter made to the questionnaire before the start of the study. Three of the investigators conducted all the interviews. Close supervision

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

and daily check-ups of the data were carried out by the principal investigator to improve the quality of the data. The participants were instructed to answer the questions using their prior stillbirth as the reference event. The questionnaire was divided into three sections. The first part solicited information on the relevant socio demographic characteristics of the women at the time of their stillbirth, including maternal age, parity, highest educational attainment, marital status, ANC booking status, occupation, place of residence and smoking/drinking habits. The second part probed the medical history and information on pregnancy, labor and delivery, including the health-seeking behavior and possible causes of delay in receiving care. The third part was designed to investigate the women's experiences at the birth facility before, during and after the stillbirth delivery, including their thoughts about the entire process and lessons learnt.

Data Analysis:

Data was extracted from the questionnaires into Microsoft Excel (R) version 2019, coded and cleaned, then imported into the Statistical Package for Social Sciences (SPSS) version 20(SPSS Inc., Chicago, Illinois, USA) for analysis. Continuous variables were presented as numbers and means, while categorical data were presented as frequencies and percentages (%), and the results were displayed in tables.

Results:

There were 64 participants and Table 1 shows their socio demographic characteristics. The mean time from stillbirth to assessment was 3.89 ± 3.17 years (range 1 - 13), with most respondents (46.88%) within 2 years. The mothers were predominantly in the age group of 25-34 years old (75.0%), with a mean maternal age of 28.53 ± 4.51 years. The highest proportion of mothers had tertiary education (51.6%), were married (82.8%), and lived in urban areas (92.2%). Over half of the mothers (54.7%) had no previous births before the stillbirth. Their most common occupation was business (40.6%), and regarding social habits (self-admission of smoking and alcohol consumption), 81.3% reported none, while 18.8% consumed alcohol and none reported smoking cigarettes.

Table 1: Socio-demographic characteristics of the respondents (n=64).

Characteristics	Frequency	Percent (%) Time si	ince stillbirth (vears)
	1 1	· · ·	

≤2 30 46.9 19 15 [1-13]3-5 29.7 >5 23.4 Mean ± SD 3.89±3.17 Range

Multidisciplinary Journal of Chemistry Volume 13 Issue 2, April-June 2025

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

Maternal age at stillbirt	h		
(years)			
<25	10	15.6	
25-34	48	75.0	
≥35	6	9.4	
Mean \pm SD	28.53±4.51∞		
Range	[18-39]		
Previous births befor	e		
stillbirth			
₃₅ 54.7			
29			
20			
[0-4]			
0			
45.3			
≥1			
Mean \pm SD 0.66 \pm 0.91			
Kange	mont (6.0
Primory	iment 4		0.3
27 Secondary		19.1	
		42.1	
33 Tertiary		51.6	
Marital status at stillbirth			
53 Married		82.8	
7 Cohabiting		10.9	
4 Single		6.3	
Occupation			
26 Business		40.6	
18 Civil/Public Servants		28.1	
12 Housewife		18.8	
12 Housewife 8 Others		18.8 12.5	

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

59 Urban	92.2
5 Rural	7.8
Social habits	
52 None	81.2
12	18.8

Alcohol

∞=Mean ± Standard Deviation

Table 2 displays the pregnancy characteristics and associated medical complications among the respondents. Most participants (92.2%) experienced one stillbirth. The majority (71.9%) had stillbirths at 9 months gestation, with a mean gestational age of 8.50 ± 0.84 months. Almost all pregnancies (98.4%) were singleton. Most mothers (81.3%) registered and reported attending antenatal care regularly. Medical complications were reported by 35.9% of participants, with hypertension in pregnancy being the most common (65.4% of complications). Regarding foetal status, 54.7% reported the baby was alive before labour or delivery, with subsequent intrapartum death. Half of the participants (50.0%) experienced spontaneous labour, while 40.6% were induced. Among those who went into labour, 77.6% did so for less than 24 hours, with 22.4% having prolonged labour (>24 hours). **Table 2: Pregnancy characteristics and associated medical complications (n=64).**

Characteri	stics Freq	uency P	ercent (%)		_
Number of	stillbirths	experien	ced		
1			59	92.2	
2			5	7.8	
How far	pregnant	before	stillbirth		
(months)					
			18	28.1	
<9					
46	71.9				
œ					
[7,0]					
0					
9 Mean + SD	8.50+0.84				
Range	0.0020.04				
Singleton of	or multiple	pregnand	2V		
Singleton	•		63	98.4	
Twins			1	1.6	
Did you rea	gister for A	ntenatal	Care?		
			Mari	tidicainlingmu Iaumal a	f

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

D^{1}		
Did & attended regularly	52	81.2
Did but not regular	4	6.3
Did not register	8	12.5
Any medical complications?		
No	41	64.1
Yes	23	35.9
Type of medical complications (n=23)		
Hypertension in pregnancy	15	65.4
HIV Infection	2	8.7
Febrile illness	2	8.7
Asthma	1	4.3
Gestational Diabetes Mellitus	1	4.3
Postdate pregnancy	1	4.3
Trauma	1	4.3
Was baby alive before going into labour	r	
or delivery?		
Yes	35	54.7
No	22	34.4
Unsure	7	10.9
Did you labour?		
Spontaneous	32	50.0
Induced	26	40.6
No	6	9.4
How Long were you in labour (n=58)		
<24 hours	45	77.6
>24 hours	13	22.4
	(a. a.)	

As shown in Table 3, the majority of deliveries (89.1%) occurred in healthcare facilities, with teaching hospitals being the most common (35.9%), while 10.9% were deliveries outside healthcare facilities. Vaginal delivery was the predominant mode of delivery (68.8%), followed by caesarean section (28.1%). Male stillborn (65.6%) outnumbered female babies, with most mothers (67.2%) unable to recall their stillborn's weight. Labour complications were reported by 60.9% of the participants, with premature rupture of membranes (25.7%) and abruptio placenta (20.5%) being the most frequent. Other notable complications included prolonged labour (10.3%), obstructed labour (7.7%), and postdate pregnancies (7.7%).

Table 3: Delivery outcome and labour complications among respondents (n=64).CharacteristicsFrequency Percent (%)Where delivery occurred23Teaching Hospital232335.9Multidisciplinary Journal of Chemistry

Multidisciplinary Journal of Chemistry Volume 13 Issue 2, April-June 2025

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

Private Clinic	12	18.7
Midwife run Maternity	11	17.2
General Hospital	6	9.4
Health Centre	5	7.8
Church	3	4.7
TBA	3	4.7
Home	1	1.6
Method of delivery		
Vaginal	44	68.8
Caesarean	18	28.1
Laparotomy (for uterine rupture)	2	3.1
Stillborn Sex		
Male	42	65.6
Female	22	34.4
Stillborn Weight (grams)		
<2500	4	6.3
2500-3999	15	23.4
≥4000	2	3.1
Can't recall	43	67.2
Any labour complication		
	39	60.9
Yes		
No	25	39.1
Type of labour complication (n=39)		
Premature rupture of membranes	10	25.7
Abruptio placentae	8	20.5
Prolonged labour	4	10.3
Obstructed labour	3	7.7
Postdate pregnancy	3	7.7
Breech presentation	2	5.1
Febrile illness	2	5.1
Preeclampsia	2	5.1
Previous caesarean section	2	5.1

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

Uterine rupture

Intrauterine growth restriction

Table 4 shows the health-seeking behaviour and causes of delays in getting care among the respondents. Of those who reported a pregnancy complication (n=34), 70.6% did so immediately. Of those that delayed reporting (n=10), 20% did not report at all while 80% waited for some time, up to a day or more; with 70% not thinking the complication was serious enough. Regarding treatment after arrival at the care Centre, 68.8% received immediate care; for those who experienced delays in receiving treatment (n=17), the primary reasons (multiple responses) were doctor was not immediately available (50%), followed by engaging in prayers for spiritual healing first (18.8%) and failure to give consent early (12.5%). Other reasons for treatment delay included lack of funds, midwife unavailability at the Maternity, and defaulting on referral.

5.1

2.6

2

1

	ina actays in getting				
Characteristics Frequency Percent (%)					
How long to report complication	n				
(n=34)					
Immediately	24	70.6			
Delayed reporting	10	29.4			
Duration of delay before reportin	ıg				
(n=10)					
After a day	4	40.0			
Waited for some time	4	40.0			
Was not reported	2	20.0			
What caused the delay in reporting	(n=10)				
Did not think it was a serious	7	70.0			
Family insisted on waiting	1	10.0			
Nighttime of day	1	10.0			
Partner not being around	1	10.0			
How soon did you receive treatme	nt				
after arrival at care centre					
Immediately	44	68.8			
After some delay	17	26.6			
What delayed receiving treatme	nt				
after arrival at the care centre (n=17)					
(multiple responses)					
Defaulted	2	12.5			
Doctor not immediately available	8	50.0			

Table 4: Health-seeking behaviour and delays in getting care (n=64).

26 | page

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

Failure to give consent early	2	12.5
Midwife not within reach	1	6.3
No Cash at hand to pay for treatmen	t 1	6.3
Offered Prayers first	3	18.8

Regarding the women's experiences and perceptions related to stillbirth (Table 5), 39.1% of the participants suspected or had a premonition something was wrong with their baby, with 88% of them citing lack of or reduced foetal movement as the reason. Among those who subsequently contacted healthcare (n=30), 86.7% were examined and admitted to the facility. Most of the mothers 45.3% were delivered within 24 hours of confirmation of stillbirth, while 15.6% remained undelivered for more than a day. Doctors were the primary informants of stillbirth (46.9%), followed by midwives (28.1%). Over half of the mothers (54.7%) were unsatisfied with the manner the information was passed and the explanation given for the baby's death. Most participants (70.3%) reported adequate finances to cover their pregnancy care and delivery. Concerning performing an autopsy, 60.9% would not have requested one, with the main reasons being that the cause of death was not suspicious (28.2%), perceived lack of usefulness (28.2%), and it would not bring back the dead baby (25.6%).

Table 🖪	: Women's	s experiences and	nercentions re	elated to	stillbirth ((n=64)
rapic :). vvomen s	s caper iences and	i per ceptions re	Jacu to	Sumprium	(11-04)

Characteristics Frequency	y Percent (%	<u>(</u>)	
Did you have premonition	1 or		
suspect something was wro	ng?		
No	39	60.9	
Yes	25	39.1	
If yes to above, how? (n=25))		
Absence or reduced foetal move	ment22	88.0	
Other reasons	3	12.0	
Did you contact healthcare	(n=30)		
Yes (examined & admitted)		26 86.7	
No/waited for next checkup		3 10.0	
Yes (referred but defaulted)		1 3.3	
How long did it take after	knowing of	f foetal	
death before delivery starte	d?		
<24 hours		29 45.3	
Did not know baby was dead		25 39.1	
>24 hours		10 15.6	
Who informed you of baby's	s death?		
Doctor		30 46.9	
Midwife		18 28.1	
Others		16 25.0	
		Multidisciplinary Journal of Chemis	strį

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

Were you satisfied with the manner a	nd	
explanation given?		
No	35	54.7
Yes	29	45.3
How do you rate your available finances		
Adequate	45	70.3
Not Adequate	14	21.9
Fair	5	7.8
Would you have wanted an autopsy?		
No	39	60.9
Yes	25	39.1
If not (for autopsy) why? (n=39)		
Cause was not suspicious	11	28.2
Of what use	11	28.2
Won't bring baby back	10	25.6
	7	18.0

Other reasons

Regarding post-stillbirth experiences and appraisal of healthcare workers' role (Table 6), 45.3% of the mothers stayed in postnatal wards with other mothers having livebirths, while 34.4% remained in the labour ward and were discharged from there, with only 14.1% kept in a private room in the company of their family members. Most mothers (56.2%) only saw their stillborn child, with 39.1% of them not seeing the baby at all, and only 4.7% saw and held their dead baby. Over half of the mothers (56.3%) found healthcare workers supportive and were satisfied with their role, while 28.1% had unpleasant or upsetting experiences. Most (45.3%) of the mothers did not receive postnatal care or counseling. Among the participants, 40.6% reported worrying about a repeat in future pregnancies, with 80.8% of these fearing a recurrence. Given the circumstances of their stillbirth and what they would have done differently to prevent it, 87.4% of the women opted to register and deliver to a bigger/better hospital.

Table 6: Women's experiences and appraisal after stillbirth and healthcare received (n=64)

Characteristics	Frequency	Percent (%)
Where did you stay after delivery?		
Postnatal ward (with mothers of livebirths)	29	45.3
Labour ward	22	34.4
Private room with family	9	14.1
Church room/home	4	6.2
Did you see and hold your baby?		

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

Saw alone	36	56.2
Not shown	25	39.1
Saw & held	3	4.7
Thoughts about role of health workers		
Supportive/satisfied	36	56.3
Unpleasant/upsetting	18	28.1
Distanced themselves/Indifferent	8	12.5
Not satisfied	2	3.1
Did you receive postnatal care &		
Counselling		
No ¬ counselled	29	45.3
Yes (counselled)	25	39.1
Yes (but not counselled)	10	15.6
Do you worry about a repeat		
occurrence?		
No	38	59.4
Yes	26	40.6
Why worry (n=26)		
Fear of recurrence	21	80.8
Still not certain of the cause	5	19.2
Given the circumstances what would		
you have done differently to prevent it?		
Register and deliver in a bigger/better	56	87.4
hospital		
Attend antenatal care better	4	6.3
Nothing would have made a difference	4	6.3

Discussion:

This study was conceptualized with the goal of highlighting patient-related& health system factors, and the experiences of women at stillbirth. We believe that the findings may be useful for designing appropriate care for women having stillbirth and their education on preventing contributory factors. Most of the stillbirths were term pregnancies, occurred intrapartum, and were in-facility deliveries. Delays in reporting complications and receiving care at the hospital contributed to the stillbirths. There were findings of factors predictive of psychological morbidity, but overall, most women were satisfied with the care they received during the event. The study revealed that most stillbirths occurred at the time of delivery (intrapartum). A previous study has shown that in countries with high stillbirth rates, fresh stillbirths form a larger proportion of the stillbirths. This is worrisome as it indicates that the timing and method of delivery may not have followed standard obstetric practices. or there may have

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

been a delayed presentation to the hospital. This observation is crucial and warrants further studies to elucidate the reasons why women suffer foetal losses more during labour and delivery. Studies have shown lack of antenatal care to be strongly associated with an increased risk of stillbirth and that the booking status was a direct correlate of educational attainment; with higher educational attainment being associated with a low stillbirth rate. It was therefore surprising that over 90% of our respondents had secondary education or more, and over 80% of them claimed to have registered for and regularly attended antenatal care. The difference in our finding of antenatal attendance may insinuate recall bias due to the time passed since the event and possibly human nature of trying to exonerate self from any blame. Labour complications were reported by about two-thirds of the participants, with premature rupture of the foetal membranes (PROM) the most common, followed by abruptio placenta, prolonged and obstructed labour, and postdate pregnancy. Premature rupture of the membranes may predispose to foetal death either through infection or by precipitating preterm delivery. On the other hand, over 65% of reported medical complications were due to hypertension. Hypertensive disorders of pregnancy have been reported by previous researchers as an important determinant of stillbirth. However, since these were reported by the women, it would not be exclusive and would be limited by the knowledge of the women, not forgetting that some stillbirth causes cannot be determined. Studies have reported nonmedical contributory factors such as delays in seeking medical care and delays in receiving appropriate management as common conditions that lead to stillbirth. In this study, delay in reporting complications occurred in about a third of the respondents, with 70% of them thinking the event was not serious enough. Another third reported delay in receiving treatment at the care Centre, and although the most common reason for this was that the doctor was not immediately available, interestingly other reported reasons included first offering supplication for divine intervention and failure to consent for treatment early enough. While agreeing that a causal relationship between these reported delays and stillbirth cannot be established with this type of study, their potential role is noteworthy. The impact of delays on adverse maternal and perinatal outcomes in pregnancy has been highlighted by much earlier studies. A majority of the women in this study reported seeing their stillborn baby, though about 40% were not shown at all and only about 5% saw and held their baby. Also, most women reported being satisfied with the care and support they received from healthcare workers. A similar study reported 98% saw and 82% held their stillborn babies, with 82% being satisfied with the support from healthcare professionals previously, it was common that the mother was not given the opportunity to see her dead baby, and this still applies in many cultures. In recent times, mothers are encouraged to see, hold and dress their baby, the general opinion being that seeing and holding the stillborn facilitates healthy mourning and reduces the risk of long-term psychological morbidity:^[16,28,29] while sharing memories, as well as social and professional support, improves mental health following stillbirth. Other factors predictive of psychological morbidity after stillbirth have been reported as a longtime from diagnosis to delivery (>24 hours) and being at the postnatal ward after delivery and having to deal with liveborn babies.^[26] The time from diagnosis to delivery in most of our study participants was less than 24 hours, but the majority were kept in the postnatal ward after delivery

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

and had to deal with the cries from live births of other women. Improving this in our environment will be difficult as bed spaces are limited, most wards are congested and will not permit the privacy and company of family members that is desirable. The risk of stillbirth in subsequent pregnancy is approximately five times higher in women who had a stillbirth in their first pregnancy, compared to women who had a livebirth.^[12] This study's finding agrees with the literature that stillbirths occur more in those who have not given birth previously. Unfortunately, most of them reported not receiving postnatal care and counselling, that would have equipped them to prevent future occurrences.

Limitation: There is inevitably a risk of recall bias concerning the descriptive variables due to the time passed since after the event and the human nature of trying to exonerate self from blame. However, a study has shown that the recollection of potentially traumatic events is more accurate than that of other life events.^[31] The calculation of a minimum sample size, multicenter recruitment of participants, and the quality of the questionnaire can be considered as strengths of the study.

Conclusion:

Most of the stillbirths were term pregnancies, occurred intrapartum, and were in-facility deliveries. Delays in reporting complications and receiving care at the hospital contributed to the stillbirths. A good proportion of the women were not shown and did not hold their babies and were admitted to a standard postnatal ward following delivery. These factors are predictive of increased psychological morbidity. However, most women were satisfied with the care and support they received from healthcare workers during the delivery. It is therefore recommended that there should be continuous training of healthcare workers on care and counselling post stillbirths, provision of private rooms in future maternity ward construction to allow privacy and companionship of family members, and regular facility-based audits of stillbirths to identify facility delays that can be improved upon.

References:

- World Health Organization (WHO). Stillbirths. In: Maternal, newborn, child and adolescent health [Internet]. WHO. 2017 [cited 2017 Oct 31].
- Lawn JE, Blencowe H, Pattinson R, Cousens S, Kumar R, Ibiebele I, et al. Stillbirths: Where? When? Why? How to make the data count? Lancet 2011; 377: 1448-63.

World Health Organization (WHO). Trends in maternal mortality: 1990 to 2015 [internet] WHO. 2015

[Cited 2017 Jul 29]. Available from:

- Okonofua FE, Ntoimo LFC, Ogu R, Galadanci H, Mohammed G, Adetoye D, et al. Prevalence and determinants of stillbirth in Nigerian referral hospitals: a multicenter study. BMC Pregnancy and Childbirth. 2019; 19: 533
- National Population Commission (NPC) [Nigeria] and ICF International. Nigeria Demographic and Health Survey 2013. Abuja, and Rockville: NPC and ICF International; 2014.

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

- Okeudo C, Ezem B, Ojiyi E. Stillbirth rate in a teaching hospital in South-Eastern Nigeria: a silent tragedy. Ann Med Health Sci Res. 2012; 2(2): 176-9.
- Mutihir JT, Eka PO. Stillbirths at the Jos University Teaching Hospital: incidence hospital: incidence, risk, and etiological factors. Niger J Clin Pract. 2011; 14(1):14-8.
- Audu BM, Alhaji MA, Takai UI, Bukar M. Risk factors for stillbirths at University of Maiduguri Teaching Hospital, Maiduguri, Nigeria: a cross-sectional retrospective analysis. Niger Med J. 2009; 50(2): 42.
- Njoku CO, Emechebe CI, Eyong EM, Ukaga JT, Anachuna KC. Prevalence and risk factors for stillbirths in a tertiary hospital in Niger Delta area of Nigeria: a ten-year review. Int J Med Biomed Res. 2016; 5(3): 106-13.
- Heazell A, Budd J, Smith LK, Li M, Cronin R, Bradford B, et al. Associations between social and behavioural factors and the risk of late stillbirth findings from the Midland and North of England Stillbirth case-control study. BJOG. 2021; 128: 704-13.
- Ntuli ST, Malangu N. An Investigation of the Stillbirths at a Tertiary Hospital in Limpopo Province of South Africa. Global Journal of Health Science. 2012; 4(6): 141-7.
- Lamont K, Scott NW, Gissler M, Gatt M, Bhattacharya S. Risk of Recurrent Stillbirths in Subsequent Pregnancies. Obstet Gynecol. 2022; 139: 31-40.
- Kelly MC, Trinidad SB. Silent loss and the clinical encounter: Parents' and physicians' experiences of stillbirth a qualitative analysis. BMC Pregnancy Childbirth 2012; 12: 137.
- Adeyemi A, Mosaku K, Ajenifuja O, Fatoye F, Makinde N, Ola B. Depressive symptoms in a sample of women following perinatal loss. J Natl Med Assoc. 2008; 100: 1463-8.
- Turton P, Hughes P, Evans CDH, Fainman D. Incidence, correlates and predictors of post-traumatic stress disorder in pregnancy after stillbirth. Br J Psychiatry 2001; 178: 556-60.
- Cacciatore J, Radestad I, Fredrick FJ. Effects of contact with stillborn babies on maternal anxiety and depression. Birth 2008; 35: 313-20.
- Surkan PJ, Radestad I, Cnattingius S, Steineck G, Dickman PW. Events after stillbirth in relation to maternal depressive symptoms: a brief report. Birth 2008; 35: 153-7.

Volume 13 Issue 2, April-June 2025 ISSN: 2995-4398 Impact Factor: 9.45 https://kloverjournals.org/index.php/chem

- Crawley R, Lomax S, Ayers S. Recovering from stillbirth: the effects of making and sharing memories on maternal mental health. J Reprod Infant Psychol 2013; 31: 195-207.
- Cacciatore J, Schnebly S, Froen JF. The effects of social support on maternal anxiety and depression after stillbirth. Health Soc Care Community 2009; 17: 167-76.
- Cochran WG. Sampling theory when the sampling units are of unequal sizes. Journal of the American Statistical Association. 1942; 37(218): 199-212.
- Suleiman BM, Ibrahim HM, Abdulkarim N. Determinants of Stillbirth in Katsina, Nigeria: A Hospital-Based Study. Pediatr Rep. 2015; 7(1): Available from:
- Chigbu CO, Okezie OA, Udugu BU. Intrapartum stillbirth in a Nigerian tertiary hospital setting. International Journal of Gynecology and Obstetrics. 2009; 104:18-21.
- Awoleke JO, Adanikin AI. Baird-Pattinson aetiological classification and phases of delay contributory to stillbirths in a Nigerian tertiary hospital. Journal of Pregnancy 2016; Article ID 1703809.
- Thaddeus S, Maine D. Too far to walk: Maternal mortality in context. Social Science & Medicine 1994; 38(8):1091-1110.
- Harrison KA, Lister UG, Rossiter CE, Chong H. Perinatal mortality. In: Harrison KA, editor. Childbearing, health and social priorities – a survey of 22774 consecutive hospital births in Zaria, Northern Nigeria. Br J Obstet Gynaecol. 1985; p. 86-99. Suppl 5.
- Gravensteen IK, Helgadottir LB, Jacobsen E-M, Radestad I, Sandset PM, Ekeberg O. Women's experiences in relation to stillbirth and risk factors for long-term post-traumatic stress symptoms: a retrospective study. BMJ Open 2013; 3:e003323.
- Froen JF, Cacciatore J, McClure EM, Kuti O, Jokhio AH, Islam M, et al. Stillbirths: why they matter. Lancet 2011; 377:1353-66.
- Radestad I, Surkan PJ, Steineck G, Cnattingius S, Onelov E, Dickman PW. Long-term outcomes for mothers who have or have not held their stillborn baby. Midwifery 2009; 25:422-9.
- Trulsson O, Radestad I. The silent child mothers' experiences before, during, and after stillbirth. Birth 2004; 31:189-95.
- Radestad I, Steineck G, Nordin C, Sjogren B. Psychological complications after stillbirth influence of memories and immediate management: population-based study. BMJ 1996; 312:1505-8.