# **Original Research Article**

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# Preventing mother-to-child transmission of HIV: The perception and experiences of HIV positive mothers in Benin City, Edo State, Nigeria

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# 7 ABSTRACT

**Introduction:** Mother-to-child transmission of HIV remains a leading cause of morbidity and mortality among under-five children in Nigeria.

**Aim:** This study examined the perception and experience of HIV positive mothers who had accessed services for preventing mother-to-child transmission of HIV (PMTCT) in Benin City, Edo State, Nigeria.

**Methodology:** This was a qualitative study. HIV positive mothers accessing services for preventing mother-to-child transmission of HIV were recruited from seven health facilities across Benin City. Data collected through focus group discussions and in-depth interviews sessions.

**Results:** The mothers study were happy that antiretroviral medications were provided free of charge at the clinics. They commended the friendly attitude of most health workers and were particularly delighted that they could now breastfeed their babies following the availability of antiretroviral medications for mothers and babies. The mothers however complained about the discriminatory attitude of some health workers at the sites.

**Conclusion:** The mothers' were generally positive in their perceptions of the programme for preventing mother-to-child transmission of HIV. However, some mothers reported negative experiences during their interactions with health workers at some of the health facilities providing comprehensive services for preventing mother-to-child transmission of HIV.

8 Keywords: PMTCT, HIV, mothers, perception, experiences, Nigeria

## 9 1. INTRODUCTION

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Mother-to-child transmission (MTCT) of HIV is the transmission of HIV from a pregnant woman infected 11 with HIV to her infant during pregnancy, labour, delivery or through breastfeeding.<sup>[1]</sup> Risk factors for MTCT 12 of HIV include high maternal HIV viral load, low CD4 count, advanced HIV disease, prolonged rupture of 13 membranes, instrumental delivery and mixed feeding.<sup>[1,2]</sup> The rate of mother-to-child transmission of HIV 14 is between 20% and 40% in the absence of interventions to prevent mother-to-child transmission of 15 HIV.<sup>[1,2]</sup> However, this rate can be reduced to less than 2% with the use effective interventions such as 16 antiretroviral prophylaxis for pregnant women infected with HIV, active management of labour and the use of elective caesarean section when indicated.<sup>[1,3]</sup> Prevention of mother-to-child transmission of HIV 17 18 (PMTCT) is a term commonly used for programmes and interventions aimed at reducing the risk of 19 20 mother-to-child transmission of HIV. The World Health Organisation (WHO) recommends the four-prong strategy for preventing mother-to-child transmission of HIV. This comprises: i) primary prevention of HIV 21 infection in the women in the reproductive age-group and their partners; ii) prevention of unintended 22 23 pregnancies among HIV positive women, iii) preventing transmission of HIV infection from HIV positive 24 pregnant women to their children with the use of specific interventions; iv) treatment, care and support for HIV positive women, their children and their families.<sup>[4,5]</sup> Specific interventions for PMTCT include HIV 25 26 counselling and testing, family planning, antiretroviral prophylaxis for HIV positive pregnant women and their babies. safer delivery practices among others.<sup>4,5</sup> The national PMTCT programme in Nigeria 27 28 commenced in 2002 in eleven tertiary health facilities spread across the six geo-political zones of the 29 country.<sup>[1]</sup> At present, the PMTCT programme is being implemented in over 684 sites across Nigeria.<sup>[6,7]</sup>

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Nigeria remains a major contributor to the global burden of mother-to-child transmission of HIV with a total 31 of 210,000 pregnant HIV positive women delivering and 380,000 children living with HIV in 2014.<sup>[8]</sup> The 32 33 uptake of HIV testing among pregnant women in Nigeria remains less than satisfactory. The 2013 34 National Demographic and Health Survey reported that only 20% of pregnant women attending antenatal 35 clinics in Nigeria were offered HIV counselling and testing services and received HIV test results.<sup>[9]</sup> Previous studies identified fear of a positive HIV test result and HIV-associated stigma as reasons for low uptake of HIV testing among pregnant women in Nigeria.<sup>[10,11]</sup> However, more recent studies identified 36 37 low risk perception for HIV infection, fear of a positive HIV test result and the perception of being in good health as reasons for low uptake of HIV testing in the country.<sup>[12,13]</sup> In contrast, factors promoting uptake 38 39 of HIV testing among pregnant women include knowledge of mother-to-child transmission of HIV and antenatal care provided by a trained provider. <sup>[13,14]</sup> In 2013, a national survey revealed that while 61% of 40 41 pregnant women in Nigeria received antenatal care provided by a trained provider only 36% of pregnant 42 women delivered at a health facility.<sup>[9]</sup> This observation may serious implications on efforts to reduce 43 mother-to-child transmission of HIV in the country. In 2014, 29% of pregnant women living with HIV 44 45 received antiretroviral drugs to prevent mother-to-child transmission of HIV while only 12% of children 46 infected with HIV received antiretroviral therapy.<sup>[8]</sup> Similarly, the uptake for early infant diagnosis in Nigeria remains very low; in 2014 only 4% of HIV exposed infants in Nigeria received tests for early infant 47 diagnosis of HIV.<sup>[8]</sup> These factors contribute to the high burden of mother-to-child transmission of HIV 48 49 observed in the country.

Few studies in Nigeria have reported on the perception and experience of mothers receiving PMTCT 50 services. Studies conducted in other countries reported discriminatory attitudes from health workers and 51 unmet expectations from HIV positive women accessing PMTCT services. [15-17] Factors promoting 52 participation in PMTCT programmes identified from previous studies include availability of friendly and 53 supportive health workers, family support as well as spousal support.<sup>[15,16]</sup> Other factors that encourage 54 participation in PMTCT programmes include provision of antiretroviral therapy and availability of free infant formula for children of mothers infected with HIV.<sup>[11]</sup> Similarly, barriers to accessing PMTCT 55 56 services have been identified in the literature. These include disbelief of HIV test results, shame following 57 the diagnosis of HIV infection and lack of funds to travel to the PMTCT programme site. [15,18,19] Other 58 barriers identified include lack of spousal support and insufficient male involvement in the PMTCT 59 programme.<sup>[15,19,20]</sup> The aim of this study was to describe patients' perception and their experience of the 60 PMTCT programme in Benin City, Edo State, Nigeria as part of efforts to reduce the rate of mother-to-61 child transmission of HIV in the country. 62

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# 64 **2. METHODOLOGY:**

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This was a qualitative study conducted in Benin City, Edo State, Nigeria. Seven health facilities in Benin City provide comprehensive PMTCT services including HIV counselling and testing, antenatal care, delivery services, provision of antiretroviral medications for HIV positive mothers and early infant diagnosis (EID) of HIV.<sup>[21]</sup> In addition, some of these health facilities had support groups for HIV positive mothers (i.e.mother2mother support groups) and clinics for management of paediatric HIV/AIDS. The study population comprised HIV positive mothers accessing PMTCT services at health facilities that provided comprehensive PMTCT services in Benin City.

Inclusion criteria: Only HIV positive mothers who had participated in the PMTCT programme at the different health facilities were included in the study having had first-hand experience of programme at the sites.

Exclusion criteria: HIV positive mothers who declined to participate in the research were excluded from
 the study.

## 81 **2.1 Procedure and participants:**

The HIV positive mothers accessing PMTCT services were recruited from five health facilities in Benin 82 City that provide comprehensive services for PMTCT of HIV and also had facilities for early infant 83 diagnosis (EID) of HIV, support groups for HIV positive mothers (mother2mother support groups) or 84 85 paediatric antiretroviral therapy clinics. These were sites where HIV positive mothers gathered regularly to 86 access care and support for themselves or for their children. The mothers were selected purposively from 87 these sites for inclusion in the study. HIV positive mothers attending the early infant diagnosis clinics or 88 the monthly support group meetings were approached by the researcher with the permission of the health 89 workers at the sites. The mothers were asked if they would like to participate in a research on their 90 perception and experience of the PMTCT programme at these sites. Those who agreed to participate in 91 the research were included in the study.

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Focus group discussions and in-depth interview sessions were held with HIV positive mothers across five 93 94 health facilities that provided comprehensive PMTCT services. At least one focus group discussion 95 session was held at each of these sites. The focus group discussion and in-depth interview sessions were 96 held in quiet rooms at the health facilities. Each focus group discussion session involved six to eight HIV 97 positive mothers and lasted between sixty and ninety minutes. In-depth interview sessions were 98 conducted at three PMTCT sites where less than six HIV positive mothers were present at a time. Each in-depth interview session involved one to four HIV positive mothers and lasted between forty and sixty 99 100 minutes. The focus group discussion sessions and the in-depth interview sessions were conducted between July 2011 and October 2011. During each session, data was collected on the perception and 101 102 experience of HIV positive mothers on the PMTCT programme at the sites.

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104 Data Analysis: The audio recordings of each focus group discussion and in-depth interview sessions 105 were transcribed and analysed to identify recurrent themes on patients' perception and experience of the 106 PMTCT programme at the sites.

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## 108 3. RESULTS AND DISCUSSION

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110 Nine focus group discussion sessions and five in-depth interview sessions were held across five health 111 facilities. A total of fifty-five HIV positive mothers participated in the focus group discussion sessions 112 during the course of the study while eighteen mothers participated in the in-depth interview sessions 113 giving a total of 63 study participants.

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115 3.1. Socio-demographic characteristics of study participants: The mean age of the mothers was 31.6 years (SD=4.6 years) with a range of 22.0 years to 44.0 years. Majority of the mothers were married 116 117 (93.2%) with trading being the predominant occupation (69.5%).

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119 3.2. Findings from the focus group discussion sessions and in-depth interview sessions: The themes that emerged from the focus group discussions (FGD) and in-depth interview (IDI) sessions held 120 121 with the HIV positive mothers include:

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# 1. Perception of HIV positive women on awareness of HIV/AIDS in the society:

124 The mothers unanimously agreed that discrimination and stigmatisation of persons living with HIV 125 had reduced tremendously as a result the awareness that people living with HIV can live healthy lives 126 and have children who are uninfected with the virus. The following excerpts from the focus group 127 discussion (FGD) sessions and in-depth interview (IDI) sessions illustrate this point: 128

129 "Well, the way the people think about the illness now is not the way they were thinking about it before. That maybe when you know that somebody have it, the next thing you run away from that person. But 130 131 in the society now, they now encourage people that even have it, that 'it is not the end of the world," that there are other illnesses that HIV is better than'. That's why I believe that the awareness is 132 133 *increasing.*" (Participant 2, FGD 2)

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## 135 2. Perceptions of the PMTCT Programme

- 136 a) Positive perception: The mothers were generally positive in their perceptions of the PMTCT programme. They unanimously agreed that the programme was beneficial to pregnant women, 137 138 the family and the society as a whole. These excerpts from focus group discussions and the indepth interviews illustrate the positive perception the HIV positive mothers had of the PMTCT 139 140 programme.
- Preventing mother-to-child of HIV: The HIV positive mothers were happy that the antiretroviral 141 142 medications prevented their babies from becoming infected with HIV as the excerpts below illustrate: 143
  - "When you're taking these drugs, your baby will not be affected. You will be healthy; you will not be short of blood. There's no need to any medicine along side with it. Everything is inside it. There is no problem." (Participant 1, FGD 6)
- 148 149 **Provision of free antiretroviral medications:** The mothers were delighted that the antiretroviral 150 medications and follow-up investigations were provided free of charge at the health facilities as these 151 quotes illustrate: 152
  - "I am still thanking the people that are supplying these drugs for us, God will reward them. God will continue blessing them in abundance..." (Participant 1, FGD 7)

155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172	"I thank God, with these drugs they are giving us, we have hope, before o, no hope" (Participant 4, FGD 7) <b>Technical competence and supportive attitude of the healthcare providers:</b> The mothers were unanimous in their perception of the technical competence of their health care providers. They believed that their health care providers were well trained and had the technical competence to properly manage their illness. They also agreed that most of the health workers were friendly and supportive as the quotes below illustrate: "They are perfect. The doctors and the nurses know their work very well. If they did not know their work, they won't know the actual drugs they will give us. So we are feeling fine." (Participant 1, FGD6) "I love all the nurses. They are encouraging us, both the doctor; how to take our drugs, how to feel free. They encourage us that we should not think about anything; that this thing would soon be over." (Participant 8, FGD 7)
173 174 175 176 177 178 179 180 181	<ul> <li>Negative perception of the PMTCT programme: Although the mothers' perception of the PMTCT programme was largely positive, they also identified several limitations of the PMTCT programme. These include inadequate manpower, stock-outs of antiretroviral medications, laboratory reagents, etc. The lack of a permanent cure for HIV/AIDS was identified by the mothers as a major limitation of the PMTCT programme.</li> <li>a) Stock-outs of Antiretroviral medications: "Yes, for the pharmacy now, sometimes dem go say drugs no dey (not available) and</li> </ul>
182 183 184 185 186	<ul> <li>two make dem still try to bring the real drug out, the one wey go cure am for myself, for the sake of the baby, for the sake of everybody." (Participant 4, FGD3)</li> <li>b) Lack of universal access to HIV Counselling and testing services: Some mothers complained that HIV counselling and testing services were not available at all health facilities as illustrated by these</li> </ul>
187 188 189 190 191 192	quotes: "In the village now, where my female friend gave birth, they did not do (HIV) test for her. They didn't ask her to do test on the first day she registered for antenatal (care)" (Participant 6, FGD 2) "Not all hospitals do tests for pregnant women even here in Benin." (Participant 2, FGD 2)
192 193 194 195 196 197 198 199 200	<ul> <li>b) Perceived barriers to accessing PMTCT services: The mothers identified several factors that may constitute barriers to accessing the PMTCT programme. These include reluctance of HIV positive mothers to disclose their HIV status to their spouses and close relatives due to fear of rejection; long waiting time at health facilities and the discriminatory attitude of some health workers. The following excerpts from the focus group discussions and in-depth interviews illustrate some of these perceived barriers:</li> </ul>
201 202 203 204	<b>i. Reluctance to disclose HIV status to spouses and close relatives:</b> "When I hold my handset to call my husband, I will drop phone. I will say no, I will not tell him. Let me first keep quiet and monitor the environment Up till today, as I'm talking to you, my Oga (husband) don't know anything concerning it" (Participant 1, FGD 7)
205 206	"Up till today, my parents do not know. My mother said that if any of her child have HIV, that she will abandon that child. That child is not her child." <i>(Participant 5, FGD 2)</i>

207 208 **ii. Discriminatory attitude of some health workers:** Some mothers were concerned about the discriminatory attitude of some health workers at the sites as the quote below indicates:

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"...Those people in the antenatal department, they don't even know if you're positive or negative... But there some nurses, they will use this kind eye if they know that the card is for someone that has this virus. They will use finger to pick the card like this but they do not know that there is nothing there." (Participant 1, FGD 6)

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215 3. Experiences of HIV positive women throughout the programme: The mothers reported both
 216 positive and negative experiences while accessing PMTCT services at the health facilities. These
 217 experiences are illustrated below using excerpts from the focus group discussion sessions and in 218 depth interview sessions:

a) Experience on HIV testing & disclosure: Most of the mothers became aware of their HIV status
 through routine screening for HIV at the antenatal care clinics. Some of the mothers first received the
 diagnosis of HIV while in labour. A few mothers became aware of their HIV status after series of recurrent
 illness which prompted health workers to screen them for HIV. Some other mothers became aware of
 their illness following a diagnosis of HIV infection in their children or spouse which prompted health
 workers to screen the mothers for HIV.

- 226"When I got pregnant, then I came here to register, then now tell me to go and do test.227Then when I did the test, they now told me it is positive. I now went home to discuss with228my husband. Then they sent me to call my husband. Then my husband came. He did the229test, he was (HIV) negative...." (Participant 5, FGD 7)
- 230 "That was in 2010 when I was pregnant. So, I was in labour, they rushed me down to this 231 hospital. When they did the test, they found out that I was HIV positive." (Participant 3,
- 232 FGD3)

233"It was my daughter that was sick. I now rushed her to this place. They now told me to do234investigations. When I got the results they now told me this, this, this. I said how come,235how about me that is carrying her... because as that time she was a baby. So I said236okay, let me go for my own. I now went for my own. That's how I got to know."237(Participant 4, FGD3)

238239"My husband was very ill to the extent, people around us, were even suspecting. I have240crossed my mind, if it's the sickness, we will carry it along.... Reaching there we did the241test, even with my son. I have it, my husband has it but my son does not have."242(Participant 7, FGD 7)243

244 The HIV positive mothers reported experiencing physical, social, emotional and psychological 245 problems. The mothers reported a wide range of emotions following the initial diagnosis of HIV 246 infection from anger, disbelief and denial of HIV test results to despair, suicidal ideation and depression. However, most mothers reported immediate psychological support provided by the health 247 workers following the diagnosis of HIV. Some mothers reported breakdown of their families and being 248 249 deserted by their husbands after being diagnosed with HIV. Others had difficulty disclosing their HIV 250 status to their spouses or relations for fear of being stigmatised. The excerpts below illustrate 251 patients' initial reaction to the diagnosis of HIV infection:

252253"When I found that I am HIV positive, I was thinking the whole world had gone. I had lost254every hope for living. The doctors and the nurses, they calmed me down, they talked to255us, and they made us to know that this thing is nothing. It's just like malaria."256(Participant 5, FGD 6)

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258	"After the HIV test, I took a bike home while my husband returned to his work. I was now
259	telling the bike man that it just looks as if the bike should have an accident so that I will
260	just die and from there just go." (Participant 2, FGD 2)
261	"I was afraid because I know that anybody that has the disease will surely die. Because
262	of that, I was afraid." (Participant 3, FGD3)
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264	c) Mood swings and psychological distress associated with diagnosis of HIV infection and
265	attending routine clinic visits:
266	"Whenever I remember that I'm coming here, I do lean (lose weight) overnight, I do emaciate. I
267	will feel that a week to my coming to this hospital, I will lean, I will think of it. As I'm talking to you,
268	up till now, I haven't eaten. I will feel as if something move out from my body. But in all, when I'm
269	about to go home or when I'm through with them, I will be feeling happy again and I will go
270	home." (Participant 1, FGD 7)
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272	"Though, I will not lie o, anytime that I'm coming to this place, in fact that day is not a happy day
273	for me. I'm always moody, even people around me will be asking me 'what is wrong?' I will say I
274	just had a bad dream, like that. Even since, anything around me, I'm always angry. Until this time,
275	I now had my baby." (Participant 7, FGD 7)
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278	b) Experiences with Infant Feeding:
279	The mothers reported on their experiences with infant feeding. Many mothers complained of difficulties in
280	sustaining replacement feeding due to the high cost of formula feeds. Others had to cope with pressure
281	from their relations who urged them to practice mixed feeding (i.e. giving breast milk to babies who were
282	on formula feeds). The excerpts below illustrate the experiences of the mothers with infant feeding:
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284	Cost of buying infant formula: Several mothers complained about the high cost of buying infant formula
285	feeds as the quotes below illustrate:
286	"Although it was not easy o, only God knows how many cartons of milk that I have
287	bought." (Participant 1, FGD 7)
288	bought. (Fallopant I, FOD T)
289	"This my baby now, ehn, the food wey this my baby don eat, for that three months, I
290	calculated it yesterday, almost forty something thousand (naira). E never reach three
290	months." (Participant 4, IDI 2)
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293 294	Conjug with proceurs from relatives to practice mixed feeding. Some of the methors were under a lat
	Coping with pressure from relatives to practice mixed feeding: Some of the mothers were under a lot
295	of pressure to practice mixed feeding as they had not disclosed their HIV status to their close relatives.
296	They thus had to proffer various reasons to justify their infant feeding options as the excerpts below
297	illustrate:
298	"When I gave birth, I was sick. I was short of blood. We now use that as an excuse. If the
299	brother or sister complains that 'can't you give your baby breast?'He (my husband) will
300	tell them that 'don't you see that she is sick, that she cannot give baby breast? Is it
301	someone that is sick that will breastfeed baby?" (Participant 2, FGD 2)
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303	"My first child, my second child, this third one, I did not breastfeed. His family were
304	asking, questioning us. He (my husband) now told them 'This is my child. I will tell my
305	wife what to do. I don't know what you mean. Give my baby "baby food". I want the baby
306	to look big.' The family now stayed away. Initially, they were like they want to know what
307	is wrong. When he started talking to them, shunning them off, telling them to stop asking
308	too many questions, they now stopped." (Participant 1, FGD 2)

309 310 311 312 313	<i>"I thank God for everything, for person like me, that's exactly what would have happened if not my smartness and everything. I'm not using force to breastfeed my baby. I'm hiding and using the drugs. I'm applying my wisdom. Eight o'clock morning, eight o'clock night. I will just drop the syringe (containing the nevirapine suspension) in her mouth." (Participant 2, IDI 2)</i>
314 315 316	<b>Ambivalence on the infant feeding options</b> : The mothers expressed a strong desire to breastfeed their babies but were concerned about the risk of mother-to-child transmission of HIV through breastfeeding as the excerpts below indicate:
317 318 319	"So, I'm happy, if dem do the medicine so that we can breastfeed because I want to breastfeed. I'm not happy sometimes, if I look at this child without giving her breast, I don't I don't feel happy, I don't feel happy." (Participant 5, IDI 2)
320 321 322	"About this breastfeeding, I don't know, o. They will say 'don't breastfeed' that is my fear now. The first one, I no breastfeed; even this one, fear no let me breastfeed I will like make my pikin suck my breast because that one na im be mother." (Participant 1, IDI 2)
323 324 325 326 327	c) Experience of giving birth at the health facility: The mothers reported mixed experiences of their interactions with health workers at the time of their delivery in the labour ward of the health facilities. The excerpts below illustrate some of these experiences:
328 329 330	"My children, this is the third one, they are all (HIV) negative When I'm in labour, they will give me that pill that I will insert inside my private part. That's how I got the three of them. (Participant 1, FGD2)
331 332 333 334	In contrast, some other mothers made some very disturbing reports about their interactions with health workers at the time of they were giving birth to their babies at the health facility. These quotes illustrate the negative experiences of some the HIV positive mothers:
335 336 337	"I was shouting, crying, shouting, shouting, nobody answered me. That thing they're doing is not good o. It's not good at allOne lady told me about it, I thought she was lying until I experienced it myself." (Participant 4, FGD3)
338	Another mother agrees:
339 340	"Your own good, I pushed myself, the baby was on bed crying, even that placenta before they came and cut it." (Participant 3, FGD3)
341 342 343 344	d) Experiences with the use of antiretroviral drugs: The HIV positive mothers reported reduced morbidity and improved quality of lives with the use of antiretroviral medications as illustrated by the quotes below:
344 345 346 347 348 349 350 351	"Then secondly, with these drugs, when you're taking it, when your body system has already been already destroyed, it will restore everything. Everything will return to normal. In my own case, when I was rushed to the hospital when they noticed about this thing, so it was a wheel chair I used to walk there. But now, let me say eight months back that I know that this thing is in me, my body has changed. And for the past three years, I've not been able to get pregnant but now I'm carrying a baby." (Participant 1, FGD 6)
352 353	"Today, sick, tomorrow sick, next tomorrow sick, nothing like that again." (Participant 2, IDI 6)

373       "I thought that it's only me that will carry baby. I'm surprised that we're many. Not only me that has twins sef. We are almost two or three. One quality in it, God is blessing us with twins. Double blessings, to show you that 'madam don't cry, take this.'" (Participant 1, FGD7)         361       "Even my baby is very healthy. I thank God. We will do this test, the outcome will be fine." (Participant 7, FGD 7)         362       "Preventing mother-to-child transmission HIV: Most of the mothers who participated in the PMTCT programme reported that they delivered babies that were uninfected with HIV. Some of the excerpts below also illustrate the success stories of the PMTCT programme at the sites:         364 <b>1) Preventing mother-to-child transmission HIV:</b> Most of the mothers who participated in the PMTCT programme reported that they delivered babies that were uninfected with HIV. Some of the excerpts below also illustrate the success stories of the PMTCT programme at the sites:         366       "I breastfed my baby for 6 months, after six months I stopped. Last month, I did my baby's test. It was negative." (Participant 5, FGD6)         371       "By the grace of God, there is nobody in our hospital that said when they take their drugs and they tested their baby, it (the HIV test) is positive. There is nothing like that, because by the time you take your drugs, regularly, your baby will not be infected by the virus." (Participant 1, FGD 6)         372       "By the grace of God, there is nobody in our hospital that said when they take their drugs and they tested their baby, it (the HIV test) is positive. There is nothing like that, because by the ime you take your drugs, regularly. your baby will not be infected by the virus." (Participant 1, FGD 6	354 355 356 357	e) Successful pregnancy out comes, healthy babies: The mothers were delighted to report that they successfully carried their pregnancies to term and gave birth to healthy babies while participating in the PMTCT programme. The excerpts below illustrate the success stories of the PMTCT programme:
<ul> <li><sup>362</sup> "Even my baby is very healthy. I thank God. We will do this test, the outcome will be fine." (<i>Participant 7, FGD 7</i>)</li> <li><sup>363</sup> <b>1)</b> Preventing mother-to-child transmission HIV: Most of the mothers who participated in the PMTCT programme reported that they delivered babies that were uninfected with HIV. Some of the excerpts below also illustrate the success stories of the PMTCT programme at the sites:</li> <li><sup>374</sup> <i>T breastled my baby for 6 months, after six months I stopped. Last month, I did my baby's test. It was negative." (Participant 5, FGD6)</i></li> <li><sup>375</sup> "By the grace of God, there is nobody in our hospital that said when they take their drugs and they tested their baby, it (the HIV test) is positive. There is nothing like that, because by the time you take your drugs, regularly, your baby will not be infected by the virus." (Participant 1, FGD 6)</li> <li><sup>376</sup> "My children, this is the third one, they are all (HIV) negative." (Participant 1, FGD2)</li> <li><b>4. Experience in the continuum of PMTCT services:</b> The mothers reported varied experiences following their interactions with staff at the pharmacy, the laboratory and the medical records departments. The mothers specifically complained about the delay in retriving their case notes irrom the medical records department as well as the negative as the excerpts below illustrate:</li> <li><b>Experience in the medical records department:</b></li> <li><sup>377</sup> "If's not easy like that, most especially coming to where you will drop your card here. For them to carry the thing go up (to the consulting room), they will just say you a word like if to say you are nobody" (Participant 1, IDI 2)</li> <li><b>Experience in the Pharmacy:</b></li> <li><sup>378</sup> "The mothers agreed that there were long queues at the pharmacy but that the staff there were friendly and polite.</li> <li><sup>379</sup> "They attend to us well in the pharmacy" (Participant 3, FGD3)</li> <li><sup>371</sup> "They attend to us well in the pharmacy" </li></ul>	358 359 360	has twins sef. We are almost two or three. One quality in it, God is blessing us with twins. Double
<ul> <li>f) Preventing mother-to-child transmission HU: Most of the mothers who participated in the PMTCT programme reported that they delivered babies that were uninfected with HIV. Some of the excerpts below also illustrate the success stories of the PMTCT programme at the sites:         <ul> <li>I breastfed my baby for 6 months, after six months I stopped. Last month, I did my baby's test. It was negative." (Participant 5, FGD6)</li> <li>By the grace of God, there is nobody in our hospital that said when they take their drugs and they tested their baby, it (the HIV test) is positive. There is nothing like that, because by the time you take your drugs, regularly, your baby will not be infected by the virus." (Participant 1, FGD 6)</li> <li>Thy children, this is the third one, they are all (HIV) negative." (Participant 1, FGD2)</li> </ul> </li> <li>Experience in the continuum of PMTCT services: The mothers reported varied experiences following their interactions with staff at the pharmacy, the laboratory and the medical records departments. The mothers specifically complianed about the delay in retrieving their case notes from the medical records department as well as the negative attitude of some of the excerpts below illustrate:         <ul> <li>Experience in the medical records department:</li> <li>The nothers agreed that there were long queues at the pharmacy but that the staff there were friendly and polite.</li> <li>The experience (in the pharmacy), I will not say that it is bad. It is okay. It's just that they are trying" (Participant 2, FGD 6)</li> <li>"When I come to the pharmacy" (Participant 2, FGD 3)</li> <li>"They attend to us well in the pharmacy" (Participant 3, FGD3)</li> <li>"They attend to us well in the pharmacy" (Participant 3, FGD3)</li> </ul> </li> </ul>	362 363	
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<ul> <li>387 to say you are nobody" (Participant 1, IDI 2)</li> <li>388 Experience in the Pharmacy: 389 The mothers agreed that there were long queues at the pharmacy but that the staff there were friendly and polite.</li> <li>391 "The experience (in the pharmacy), I will not say that it is bad. It is okay. It's just that they are trying" (Participant 2, FGD 6)</li> <li>393 "When I come to the pharmacy, if I come early, I will go early. If I don't come early, I will not go early. Sometimes, I spend two hours, three hours." (Participant 3, FGD3)</li> <li>395 "They attend to us well in the pharmacy" (Participant 2, FGD3)</li> <li>396 Experience in the laboratory: The mothers reported but positive and negative experiences following</li> </ul>	385	"It's not easy like that, most especially coming to where you will drop your card here. For
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<ul> <li>The mothers agreed that there were long queues at the pharmacy but that the staff there were friendly and polite.</li> <li>"The experience (in the pharmacy), I will not say that it is bad. It is okay. It's just that they are trying" (Participant 2, FGD 6)</li> <li>"When I come to the pharmacy, if I come early, I will go early. If I don't come early, I will not go early. Sometimes, I spend two hours, three hours." (Participant 3, FGD3)</li> <li>"They attend to us well in the pharmacy" (Participant 2, FGD3)</li> <li>Experience in the laboratory: The mothers reported but positive and negative experiences following</li> </ul>	387	
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<ul> <li>and polite.</li> <li><i>"The experience (in the pharmacy), I will not say that it is bad. It is okay. It's just that they</i> <i>are trying" (Participant 2, FGD 6)</i></li> <li><i>"When I come to the pharmacy, if I come early, I will go early. If I don't come early, I will</i> <i>not go early. Sometimes, I spend two hours, three hours." (Participant 3, FGD3)</i></li> <li><i>"They attend to us well in the pharmacy" (Participant 2, FGD3)</i></li> <li><b>Experience in the laboratory:</b> The mothers reported but positive and negative experiences following</li> </ul>		
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<ul> <li>394 not go early. Sometimes, I spend two hours, three hours." (Participant 3, FGD3)</li> <li>395 <i>"They attend to us well in the pharmacy"</i> (Participant 2, FGD3)</li> <li>396 Experience in the laboratory: The mothers reported but positive and negative experiences following</li> </ul>		
<ul> <li>394 not go early. Sometimes, I spend two hours, three hours." (Participant 3, FGD3)</li> <li>395 <i>"They attend to us well in the pharmacy"</i> (Participant 2, FGD3)</li> <li>396 Experience in the laboratory: The mothers reported but positive and negative experiences following</li> </ul>	202	"When I come to the pharmacy, if I come early, I will go early. If I don't come early, I will
396 <b>Experience in the laboratory:</b> The mothers reported but positive and negative experiences following		
	395	" They attend to us well in the pharmacy" (Participant 2, FGD3)

398	"When I went to the lab, I only went to the lab to do my CD4 count. But they attended to me well.
390 399	There are many people there, children. But anytime I carry my baby there, they give respect, they
400	pet her" (Participant 4, FGD3)
100	
401	"They attend to us very well in the lab" (Participant 2, FGD3)
402	"I did my CD4 (count), they now said they misplaced it. They didn't put it inside my file. They
403	looked for it, they didn't see it. Next coming Wednesday again, I will do it again so that I will know
404	the normal number. I don't know the normal number." (Participant 2, FGD6)
405	Experience at the antenatal care clinic:
406	The mothers reported varied experiences while accessing antenatal care for PMTCT. Some of the
407	mothers had to shuttle between hospitals as they booked for antenatal care at one hospital and obtained
408 409	antiretroviral drugs from another hospital. Some other mothers had to register for antenatal care at more than one health facility in order to access antiretroviral drugs
409	
411	* "They have too much population in the antenatal (clinic). It is too high. People will go there; three
412	(p.m.), you will still be there, four (p.m.), you will still be there. To even attend to somebody is a
413	war there. And there is discrimination there. If you have somebody there, they will attend to you
414	first before other people you met there." (Participant 6, FGD 2)
415	
416	"The population there is more than 300." (Participant 2, FGD 2)
417	
418	In contrast, the mothers at another health facility were very pleased with the waiting time for antenatal
419	care services as the quote below illustrates:
420	"The enterental aligic have in your fact before 10 O'slack, evenuence has some "
421 422	"The antenatal clinic here is very fast before 12 O'clock, everyone has gone."
422 423	(Participant 2, FGD 2)
424	"They're trying. The nurse, she has been trying. Because even the first day they told me that I
425	am positive, the way I feel. She is the one that encouraged me. I don't know how to tell my
426	husband. She said that I should call him that she will discuss with him. She's the one that is
427	encouraging us. There is no problem in the pharmacy, because I've collected drugs twice, there
428	was no problem; no problem in the lab as well." (Participant 7, FGD 6)
429	
430	
431	5. Lessons learned: Having participated in the PMTCT programme, the mothers had learned that
432	they could live healthy and productive lives with the use of antiretroviral therapy. The mothers
433	were also confident that with proper adherence to antiretroviral therapy and regular attendance at
434	the antenatal clinic, they could have healthy children that were uninfected with HIV. They also
435	had several recommendations for other HIV positive mothers. These included encouraging
436	adherence to antiretroviral therapy and involving close relatives in the care of persons living with
437	HIV.
438	
439	Importance of adhering to antiretroviral therapy and involvement of close relatives in the
	Importance of adhering to antiretroviral therapy and involvement of close relatives in the care of persons living with HIV:
440	care of persons living with HIV:
440 441	<mark>care of persons living with HIV:</mark> "The only thing I will say, if you have the drugs as a woman, you don't suppose to use it to play
440 441 442	<b>care of persons living with HIV:</b> "The only thing I will say, if you have the drugs as a woman, you don't suppose to use it to play because that is your life for now. To take it regularly, as instructed, you take it. You could even
440 441 442 443	care of persons living with HIV: "The only thing I will say, if you have the drugs as a woman, you don't suppose to use it to play because that is your life for now. To take it regularly, as instructed, you take it. You could even have somebody that is close to you, like your husband; somebody that will understand you. He is
440 441 442	<b>care of persons living with HIV:</b> "The only thing I will say, if you have the drugs as a woman, you don't suppose to use it to play because that is your life for now. To take it regularly, as instructed, you take it. You could even

446	"Mothers that know that they have the sickness; they should come and take their child to the
447	hospital to do test, so that they will know. And so after the test, they should be attending clinic.
448	And pregnant women should be attending clinic, not private o. Most of the private hospitals, they
449	don't do the test. They should come to general hospital, central hospital or government hospital
450	so that they will do the test and they will know." (Participant 4, FGD3)
451	Promotion of partner counseling and testing at the antenatal clinic:
452	"The only thing I will also say, if you're a woman, you have to drag your husband to this place (for
453	HIV counseling and testing). It is very compulsory" (Participant 4, FGD 7)
454	The mothers also had some recommendations for health workers, government agencies and the PMTCT
455 456	programme sponsors. These include regular supply of antiretroviral medications, increased programme
450 457	funding, training and re-training of health workers and the need to find a cure for HIV/AIDS. The excerpts
458	below highlight some of the recommendations by the mothers to improve the PMTCT programme:
400	below highlight some of the recommendations by the mothers to improve the risk for programme.
459	
460	
461	Desire for a cure for HIV/AIDS: The mothers in the programme desired that a permanent cure be found
462	for HIV/AIDS as this would eliminate the requirement for daily intake of drugs. It would also provide a cure
463	for children living with HIV/AIDS. They implored researchers and the Nigerian government to do more to
464	find a drug that would completely cure the illness. The mothers were hopeful that the discovery of such a
465	medication was near.
466	
467	"We need the final drugs for this illness, the final solution." (Participant 3, FGD 7)
400	(A A - Los deve still set affect to being that visibility a set of the set of
468	"Make dem still put effort to bring that rightful drug for cure because we cannot continue
469	to be taking drugs, everyday, for life…" (Participant 3, FGD3)
470	Giving loans and stipends to HIV positive mothers to set up small business enterprises: This
471	would empower the mothers and enable them to cater for their needs as the quote below illustrates:
472	"We women, we need money to start up a business. Like our sister that is a student, she
473	has many things she needs money for. She cannot wait for only her husband. Since
474	she's ready to work, we will still need to support her As she's a student now, she can
475	be doing a trade, if she wants to pay school fees and other things, she can take from
476	there. We need help." (Participant 5, FGD6)
477	DISCUSSION
478	This study examined the PMTCT programme in Benin City, Edo State from the perspective of HIV
479	positive mothers accessing PMTCT services . The mothers highlighted the benefits of the PMTCT
480	programme as well as the challenges inherent in accessing PMTCT services. Several factors promoted
481	participation in the PMTCT programme in Benin City, Edo State. These included the availability of free
482	antiretroviral drugs, free HIV counselling and testing services, supportive attitude of health workers and
483	support groups for HIV positive mothers. Similar factors promoting participation in PMTCT programmes
484	have been reported in the literature. <sup>[16,19,20]</sup> This study also identified several barriers to the PMTCT
485	programme in Benin City, State. These include long waiting times at health facilities, delays in obtaining
486	results of laboratory investigations. Others were the stigma associated with HIV infection, discriminatory
487	attitude of health workers and the occasional stock-out of antiretroviral drugs. Similar barriers to
488	participation in PMTCT programmes have been reported in several studies conducted in Nigeria and
489	beyond. <sup>[17-20]</sup>
490	The discriminatory attitude of health workers remains a sore point in the PMTCT programme as health
101	workers are important stakeholders in the efforts to reduce mother to shild transmission of HIV globally

- 491 workers are important stakeholders in the efforts to reduce mother-to-child transmission of HIV globally. 492 The PMTCT programme brings health workers into close contact with patients living with HIV hence the
- negative attitudes from health workers potentially could drive these patients from the health system thus
   negating the goal of the PMTCT programme. The discriminatory attitude of some health workers may be

495 borne out of a judgmental attitude towards persons living with HIV infection. It may also result from fear of 496 becoming infected with HIV infection while providing care for persons living with HIV. Training and re-497 orientation of health workers is required to prevent discrimination and stigmatisation of persons living with 498 HIV. In addition, the training of health workers on standard precautions and the use of personal protective 499 equipment would help to reduce the spread of infections within the health care setting. The provision of 500 antiretroviral prophylaxis for health workers exposed to blood and body fluids while providing care for 501 patients living with HIV should form part of the infection control policy of every health facility. The 502 implementation of these policies would greatly reduce the spread of infections within the health care 503 setting and help to reduce the fear experienced by health workers while providing care for persons living 504 with HIV. Similarly, long waiting times at health facilities for PMTCT services and results of laboratory 505 investigations may discourage HIV positive mothers from returning to the health facilities on a regular basis for antiretroviral drugs, clinic visits, antenatal care and follow-up of infants born to HIV positive mothers. Such findings have been reported in previous studies.<sup>15, 17, 20</sup> Insufficient male involvement in the 506 507 PMTCT programme makes it difficult for HIV positive mothers to adhere to antiretroviral therapy, routine 508 clinic visits and adopt safer infant feeding options. Promotion of couple counselling or partner counselling 509 at the antenatal care clinic would help to increase male involvement in the PMTCT programme and 510 enhance the overall outcome for pregnant women living with HIV and their infants. The findings from previous studies are in line with these recommendations.<sup>15,19,20</sup> The fact that Nigeria remains a major 511 512 contributor to the burden of preventing mother-to-child transmission globally requires that all hands must 513 514 be on deck to address this problem. All concerned stakeholders comprising men and women in the 515 reproductive age-group, people living with HIV, health workers, communities, government agencies and 516 non-governmental organisation need to work closely together in order to achieve a global reduction in the 517 rate of mother-to-child transmission of HIV.

A major challenge facing the PMTCT programme in Benin City is the declining funds from donor agencies supporting the programme. This situation threatens the sustainability of the PMTCT programme in the country particularly in the absence of adequate government funding. The recent introduction of user fees (e.g. consultation fees) at some health facilities providing care for persons living with HIV may discourage mothers from utilising the PMTCT services at the sites thus jeopardising the goal of reducing mother-tochild transmission of HIV.

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525 Availability of services for care and support of persons living with HIV has increased tremendously over 526 the years. This has resulted in an upsurge of patients accessing antiretroviral therapy at several health 527 facilities across the country. However, the increased utilisation of these services has not been matched 528 by expansion of the infrastructure or human capacity at such health facilities. This has resulted in long 529 queues and lengthy waiting times for patients accessing these services. Long queues and lengthy waiting times may discourage mothers from accessing PMTCT services and thus hinder the goal of reducing 530 mother-to-child transmission of HIV. Increased government funding of the PMTCT programme and the 531 532 health system in general is required in order to expand the services and facilities for the care and support 533 of persons living with HIV/AIDS following the increased utilisation of these services. 534

535 Financial empowerment of mothers living with HIV via the provision of stipends or soft loans to establish 536 small businesses would go a long way helping such mothers afford the cost of transportation to health 537 facilities, the cost of feeding and promote access to important health services for women and children 538 such as antenatal care and immunisation services. Finally, the mothers in this study desired a cure for HIV/AIDS. This is a challenge for health workers and researchers working in the field of HIV/AIDS to 539 intensify efforts towards achieving a lasting cure for HIV/AIDS. In the meantime, all efforts should be 540 541 made to ensure regular availability of antiretroviral treatment for all persons living with HIV in order to 542 sustain the improved quality of life and reduce the morbidity and mortality due to HIV/AIDS. Truly, the 543 future is in our hands.

544

## 545 CONCLUSION:

This study reported on the perception and experiences of HIV positive mothers accessing PMTCT services in Benin City, Edo State. The mothers generally had a positive perception of the PMTCT programme in Benin City. However, they identified several patient based factors and health system factors that constituted barriers to accessing PMTCT services in the state. Addressing the challenges is

- 550 crucial to achieving the goal of reducing mother-to-child transmission of HIV in Benin City, Edo State and 551
- in Nigeria as a whole.

## CONSENT 552

553 Informed consent was obtained from all the study participants. The mothers were informed that 554 participation in the study was voluntary. They were assured of confidentiality and informed that their 555 responses would only be used for the purpose of the research.

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### 557 **Consent Disclaimer:**

- 558 As per international standard or university standard, patient's written consent has been collected and
- 559 preserved by the authors.
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## ETHICAL APPROVAL 561

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Approval for the conduct of this study was obtained at various levels. These included the ethical 563 564 committee of the University of Benin Teaching Hospital, the ethical clearance committee of the Edo State 565 Ministry of Health in Benin City. In addition, institutional assent was obtained from the head of each health facility involved in the study. A summary of the research proposal was submitted to the head of each 566 567 health facility for ethical consideration and to the ethical committees of the health facilities where 568 applicable. The mothers who participated in the focus group discussions and the in-depth interview 569 sessions received counselling on safer sex practices, infant feeding and treatment adherence. The 570 researcher also conducted interactive health education sessions with HIV positive mothers attending 571 support group meetings at the sites. 572

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