





High severity of abortion complications in fragile and conflict-affected settings

AMoCo, a mixed-methods cross-sectional study in two referral hospitals in sub-Saharan Africa

MSF Scientific Day International – 7 June 2023

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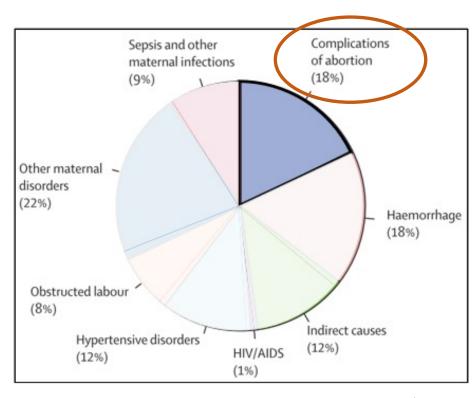


Fig 1: Main causes of maternal deaths¹

- 1- Graham et al. Lancet 2016; 388: 2164-75
- 2- Grimes et al. Lancet 2006; 368(9550):1908-19
- 3- Qureshi et al. WHO-MCS-A. BMJ Glob Health 2021; 6:e003702

Globally:

- One of the 5 main direct causes of maternal mortality¹
- Preventable unsafe induced abortion²

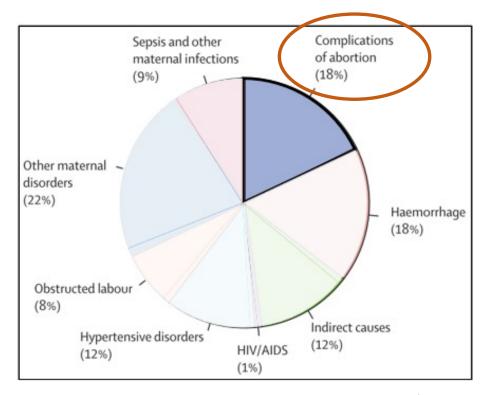


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In stable settings of Sub-Saharan Africa

- 9.4% of abortion-related presentations = severe complications³
- WHO severe complications = deaths + near-miss events + potentially life-threatening complications

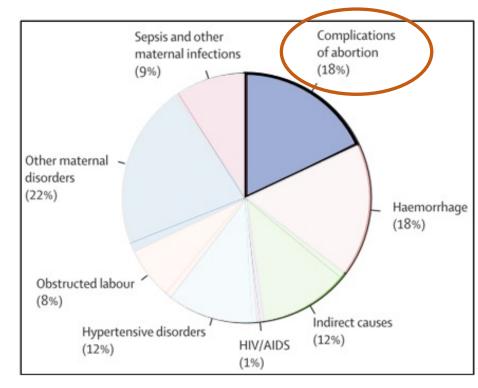


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• In fragile and conflict-affected settings

No data on abortion complications

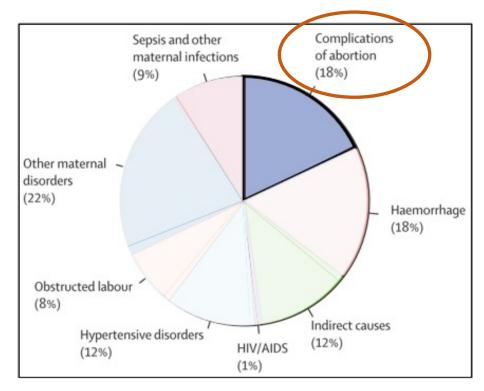


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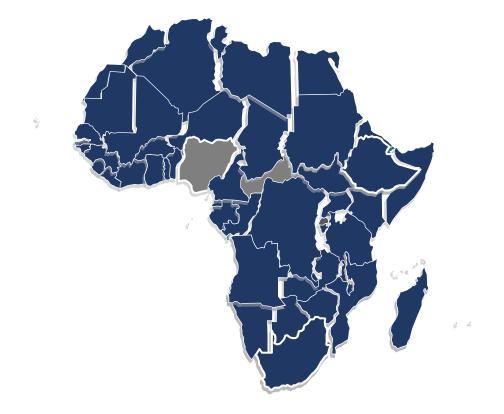
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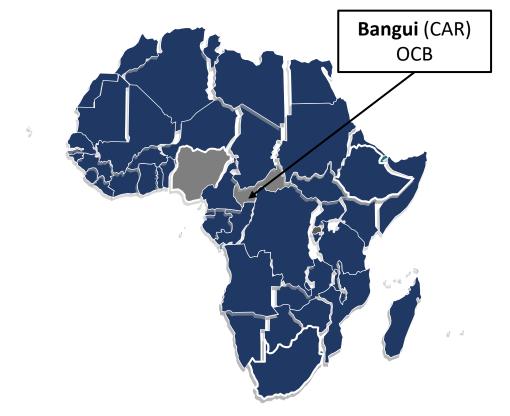
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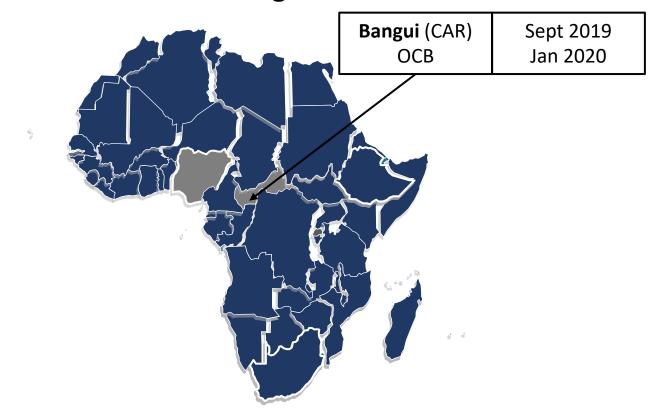
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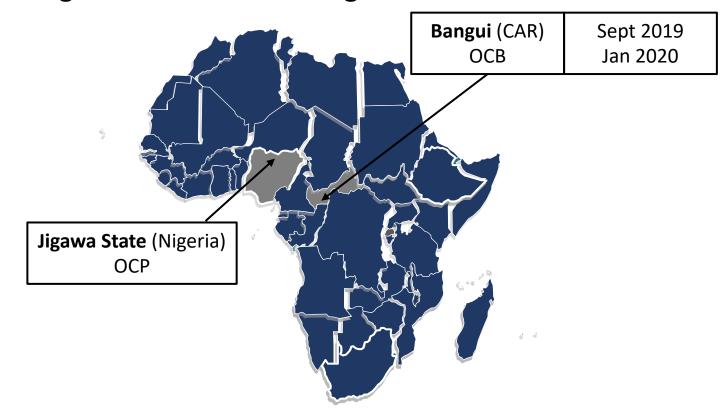
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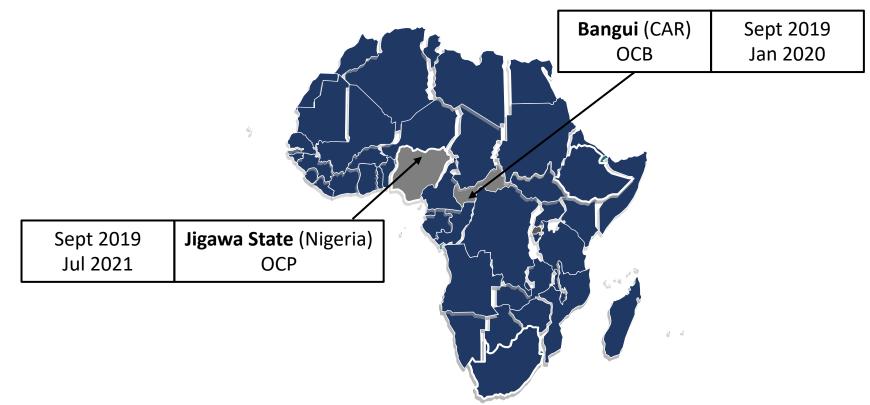
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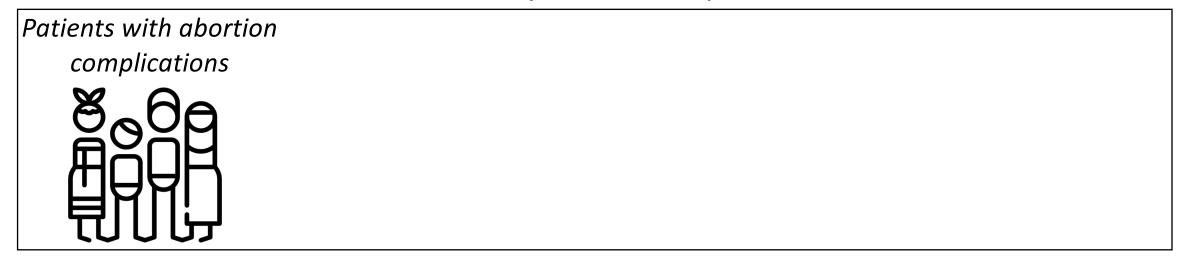
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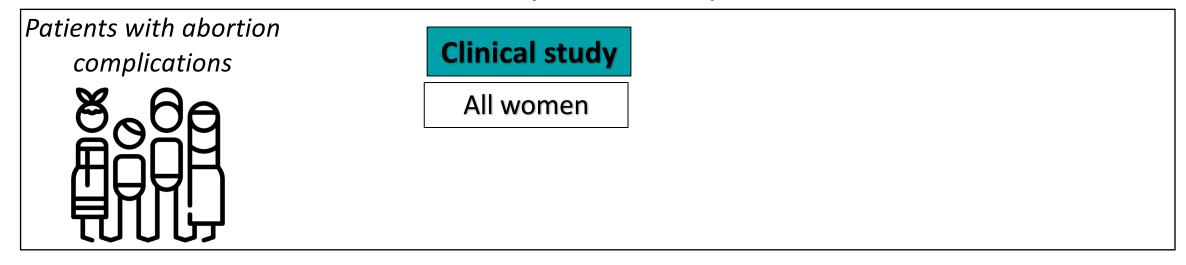


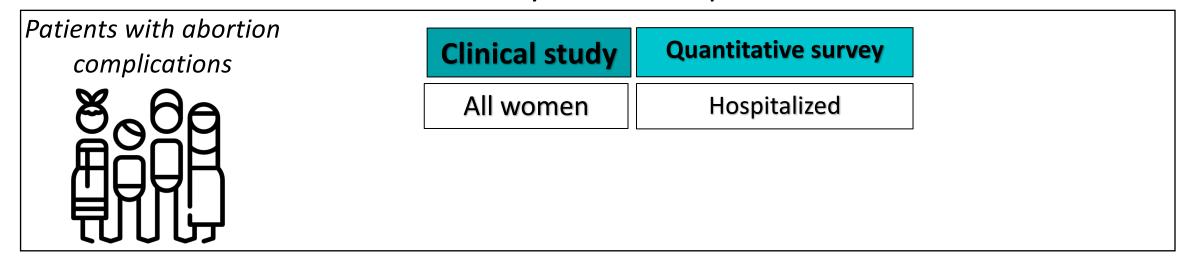
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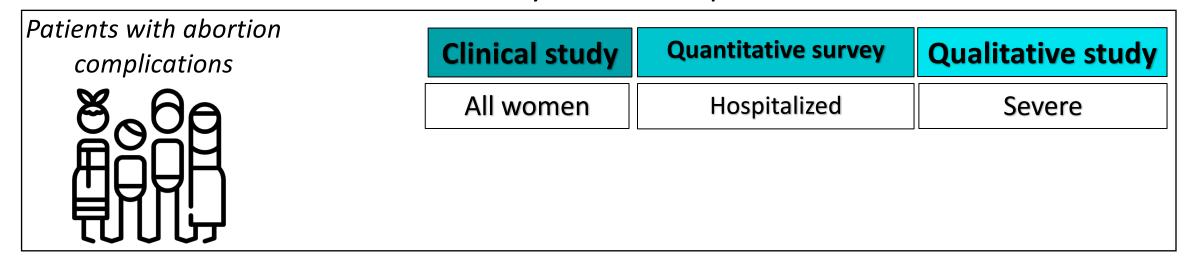
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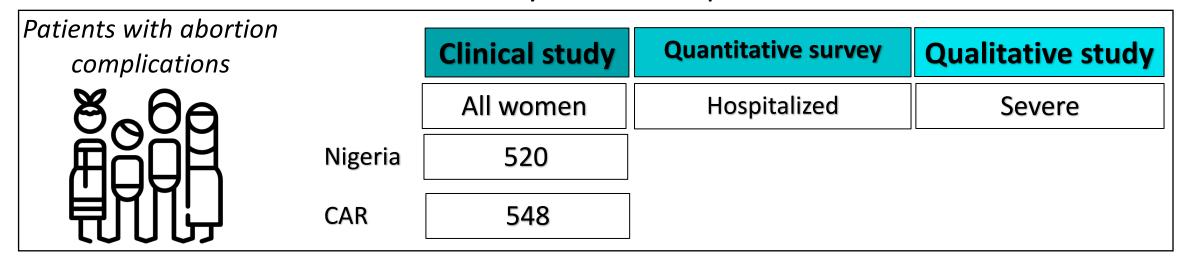


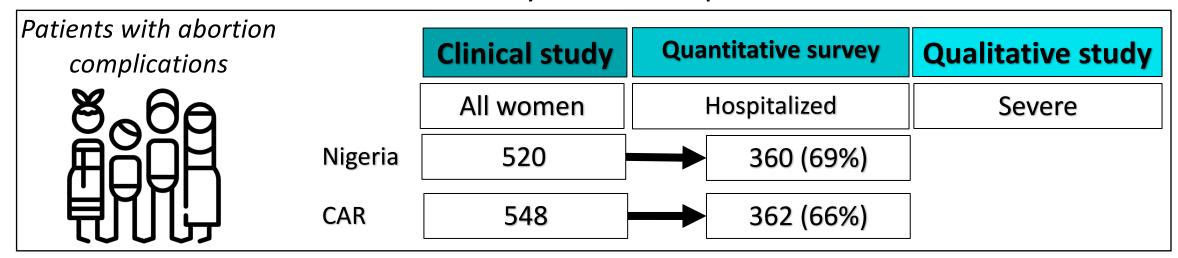


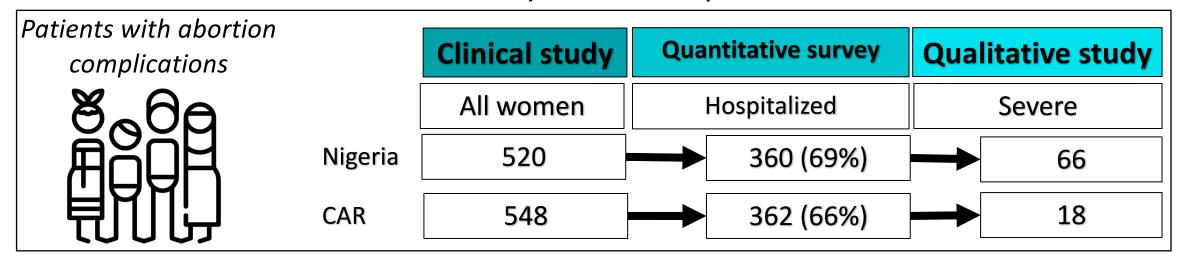




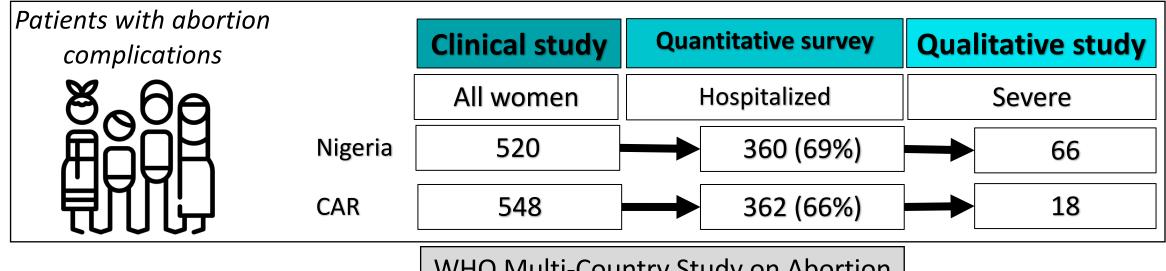






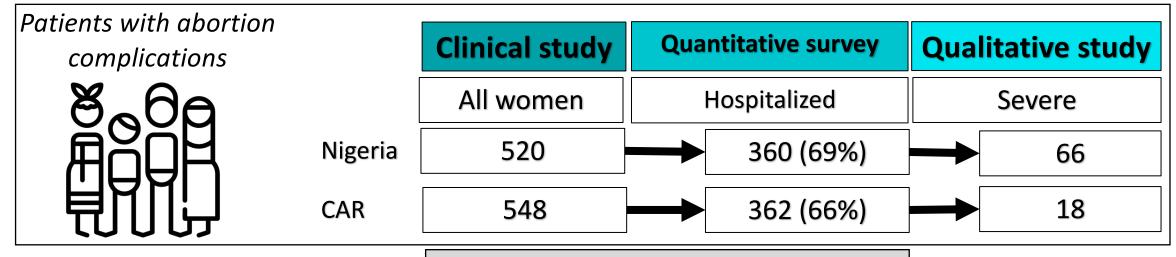


Cross-sectional mixed-method study with 4 components:

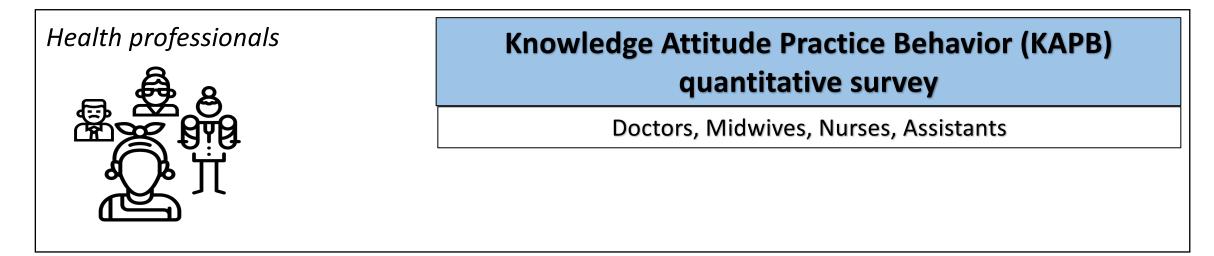


WHO Multi-Country Study on Abortion

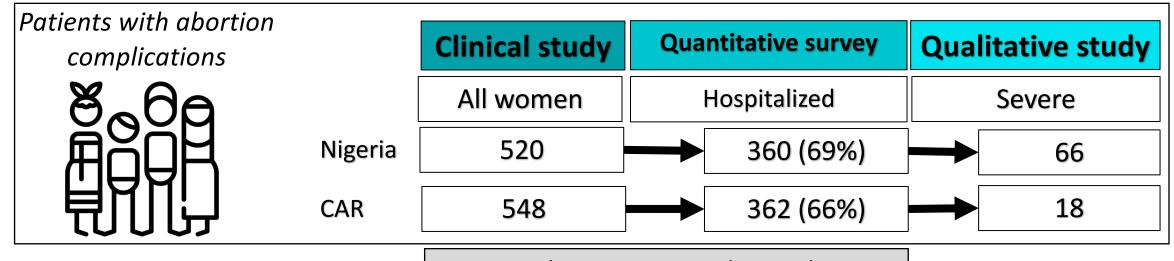
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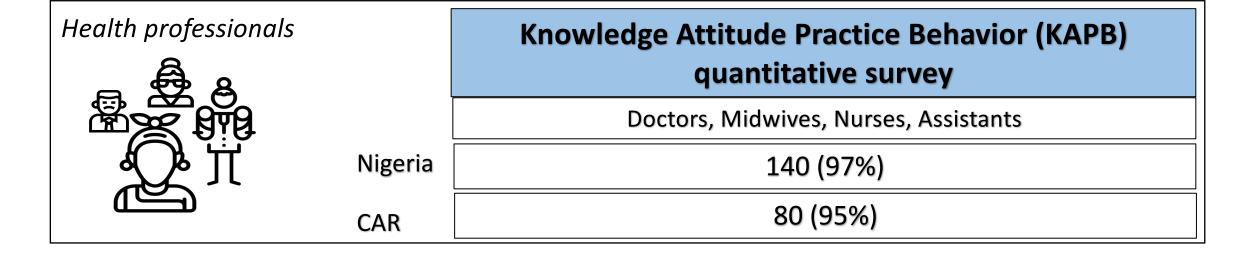
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Cross-sectional mixed-method study with 4 components:



WHO Multi-Country Study on Abortion





DEMOGRAPHIC AND REPRODUCTIVE CHARACTERISTICS		NIGERIA	CAR
		%	%
		N=520	N=546
	≤19	16.7	26.0
Age (years)	20-29	43.3	51.5
	≥30	40.0	22.5
		N=360	N=360
Education*	No formal	61.7	0.8
	Any primary	27.8	27.2
	>= Any secondary	10.5	72.0
		N=488	N=514
Gestational age (weeks)	<13	38.5	67.1
	13-28	61.5	32.9



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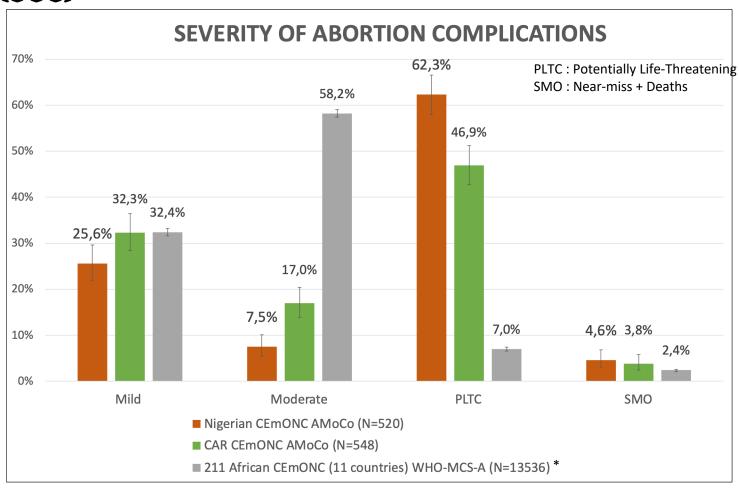
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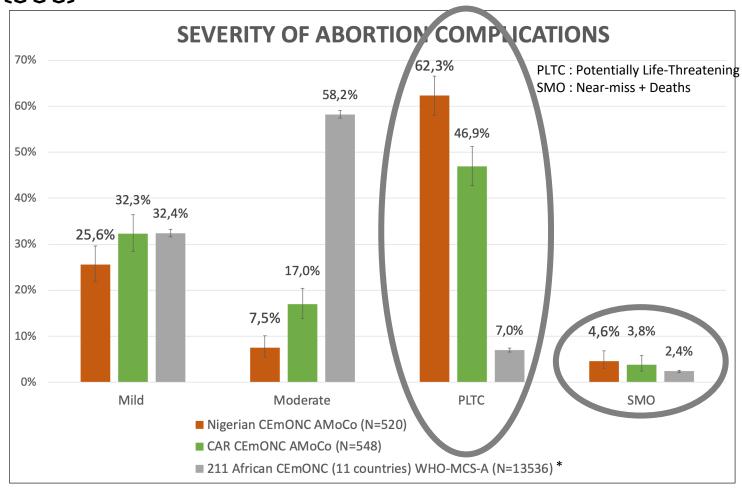
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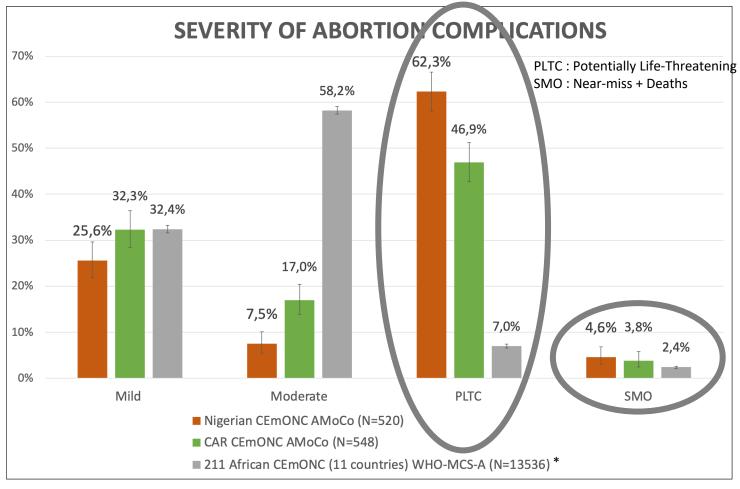
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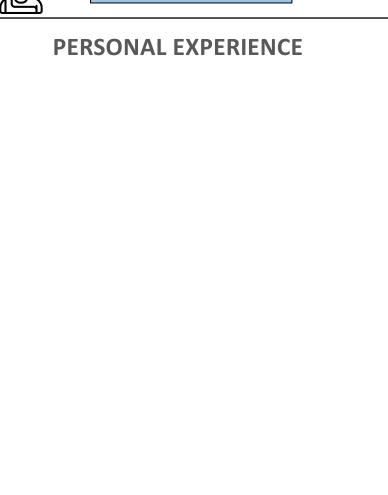


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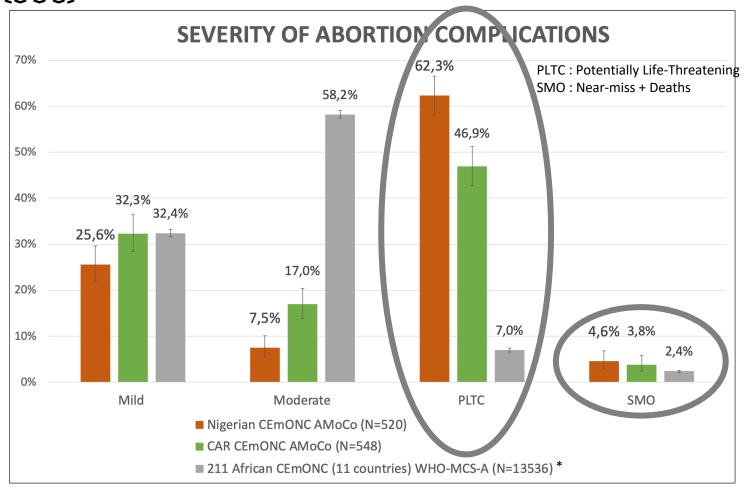






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PERSONAL EXPERIENCE

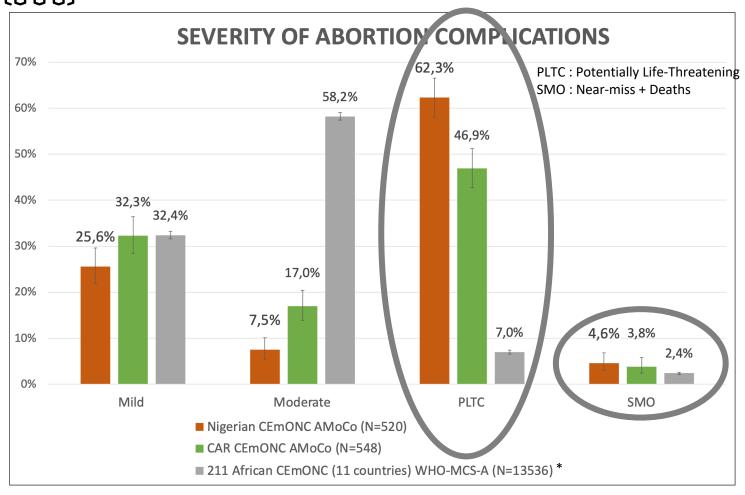
• Nigeria: 60%

PERSONALLY KNEW a woman who had DIED from

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KAPB survey

PERSONAL EXPERIENCE

•Nigeria: 60%

PERSONALLY KNEW a woman who had DIED from complications of abortion

•CAR: 91%

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Results: Delays to access care



Quantitative survey

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Quantitative survey

• More than 54% of women in Nigeria (N=334) &

50% in CAR (N=349) took 2 days or more to reach care.

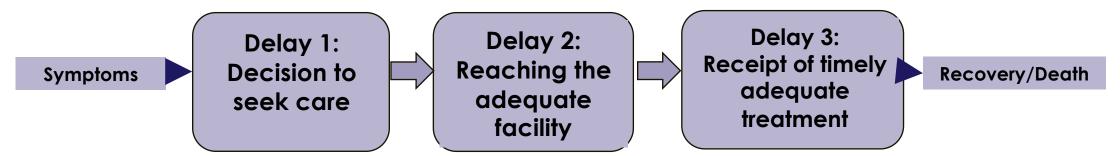
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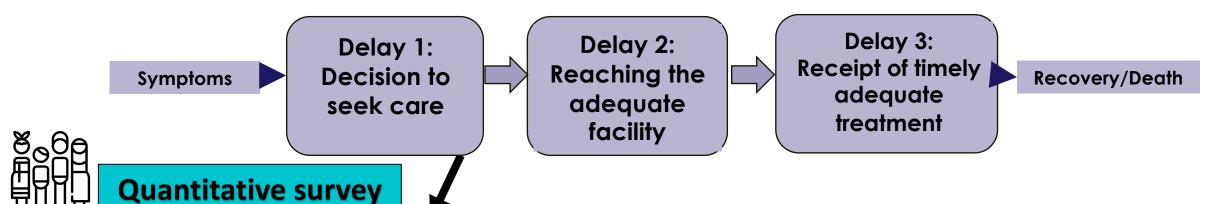


Quantitative survey

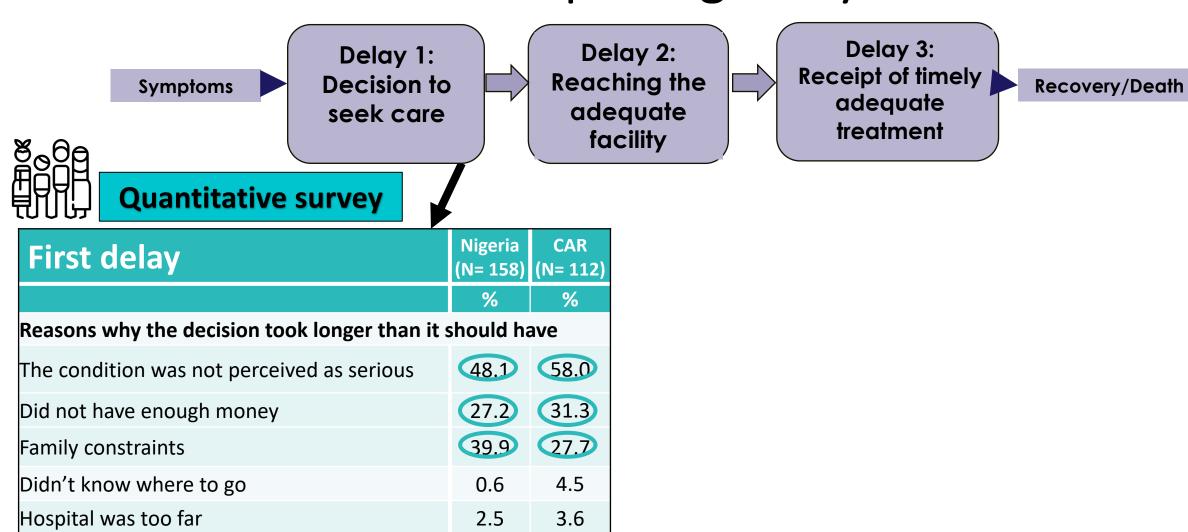
More than 54% of women in Nigeria (N=334) &
 50% in CAR (N=349) took 2 days or more to reach care.

More than 27 % of women in Nigeria (N=334) &
 16% in CAR (N=349) took 6 days or more to reach care.





First delay	Nigeria (N= 158)	CAR (N= 112)
	%	%
Reasons why the decision took longer than it	should ha	ave
The condition was not perceived as serious	48.1	58.0
Did not have enough money	27.2	31.3
Family constraints	39.9	27.7
Didn't know where to go	0.6	4.5
Hospital was too far	2.5	3.6
Lack of transportation available	8.2	3.6
Religion	3.8	8.0



8.2

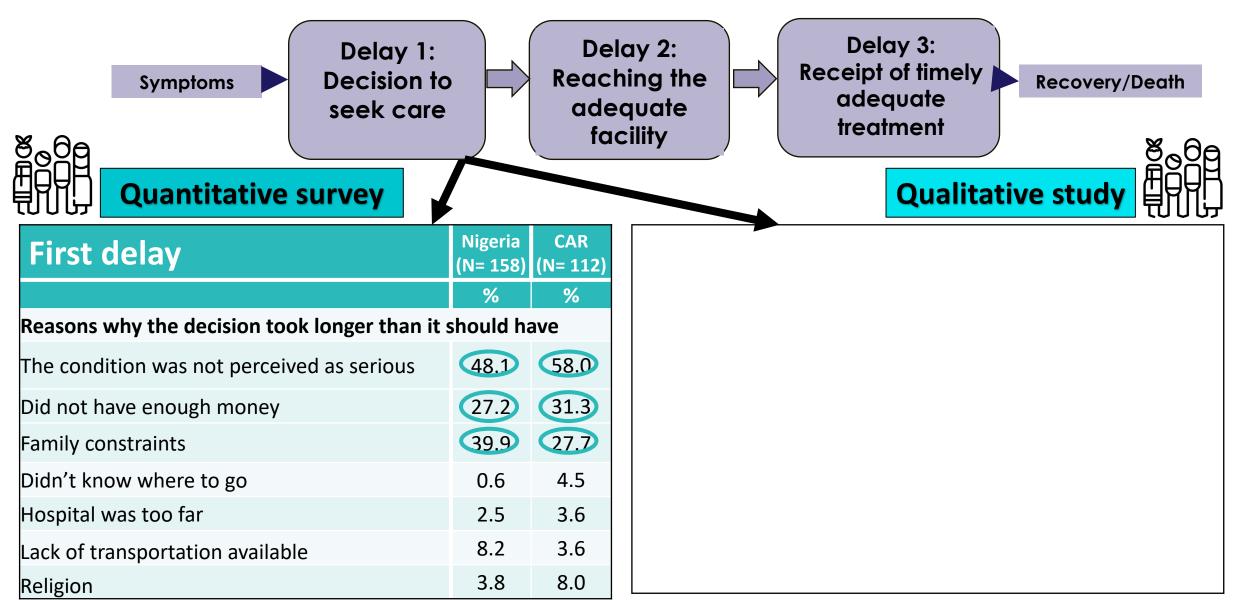
3.8

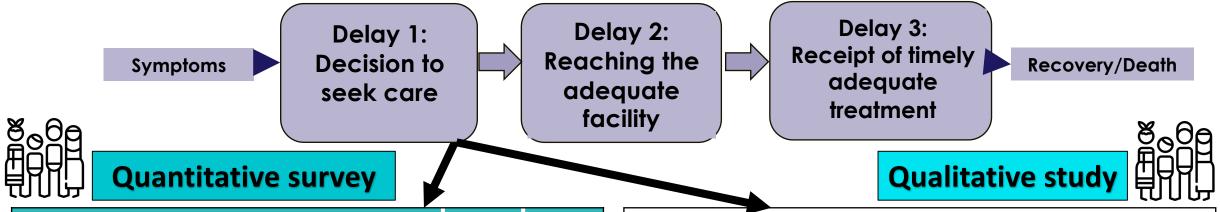
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• In both sites, delayed recognition of danger-signs

Delay 1:
Decision to seek care

Delay 2:
Reaching the adequate facility

Quantitative survey

Qualitative study

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- In both sites, delayed recognition of danger-signs
- In addition:
 - In Nigeria:
 - o Will of God
 - Preference and use of traditional herbs/providers
 - o Permission to seek care from husband

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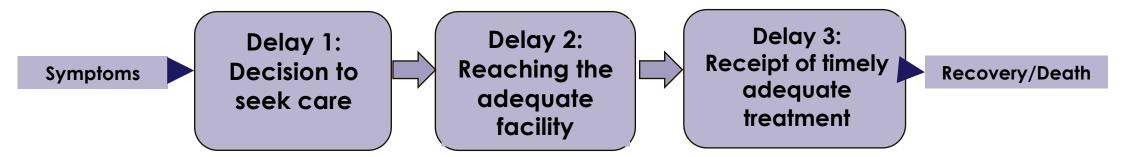
Delay 2:
Reaching the adequate facility

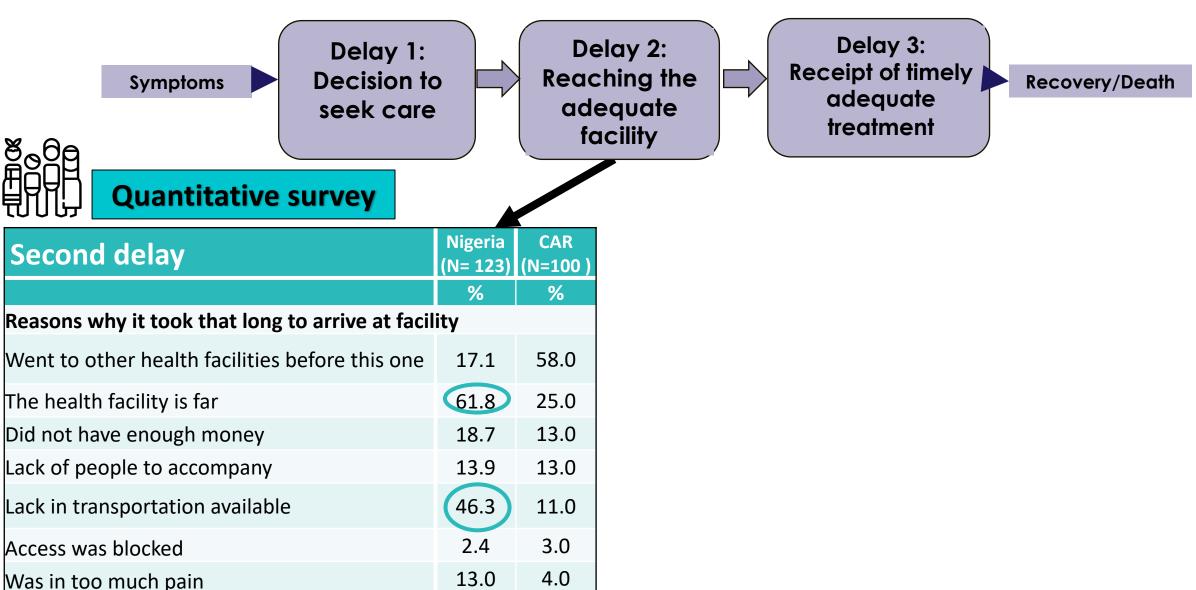
Quantitative survey

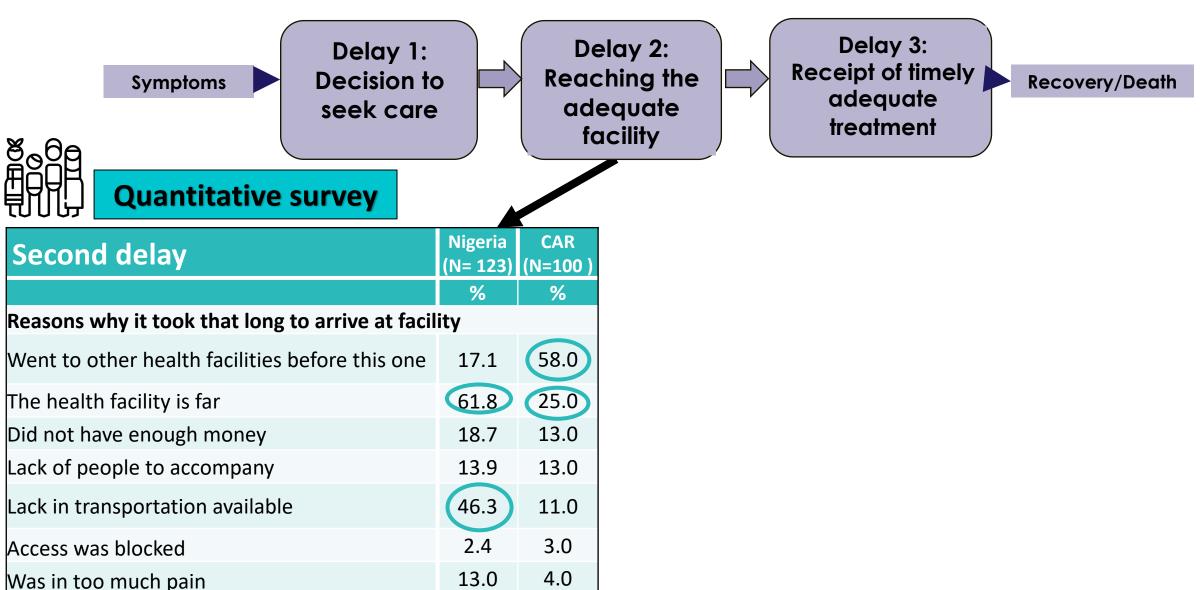
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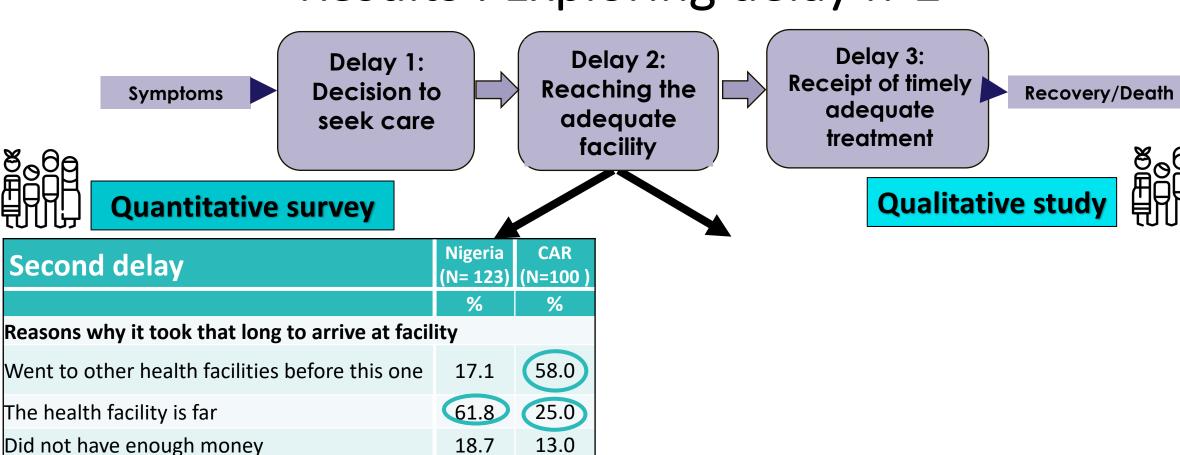
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- In both sites, delayed recognition of danger-signs
- In addition:
 - In Nigeria:
 - Will of God
 - Preference and use of traditional herbs/providers
 - Permission to seek care from husband
 - o In CAR:
 - Unsuccessful self-management
 - Family constraints
 - Fear of disclosure among women reporting induced abortion









13.0

11.0

3.0

4.0

13.9

46.3

2.4

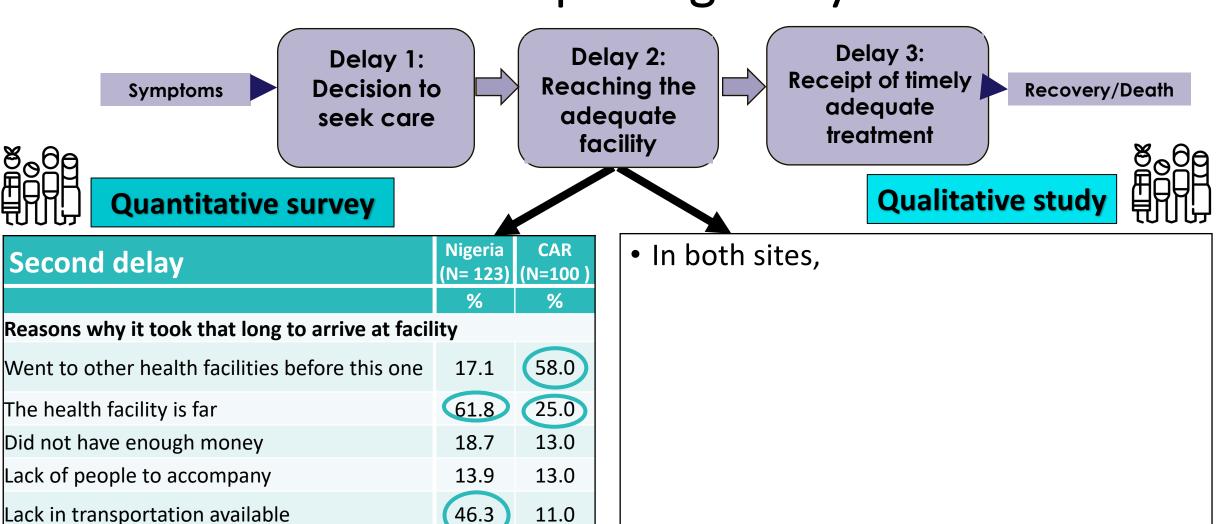
13.0

Lack of people to accompany

Access was blocked

Was in too much pain

Lack in transportation available



3.0

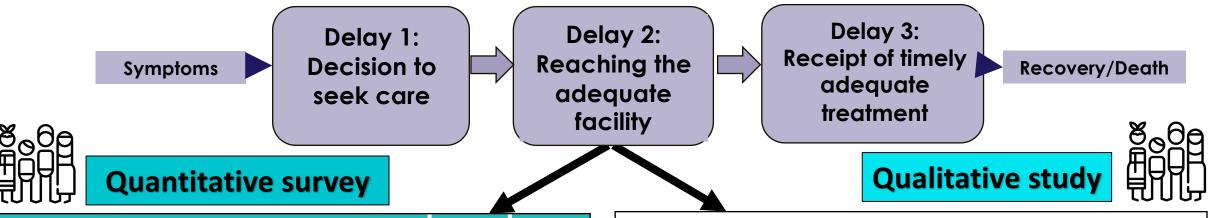
4.0

2.4

13.0

Access was blocked

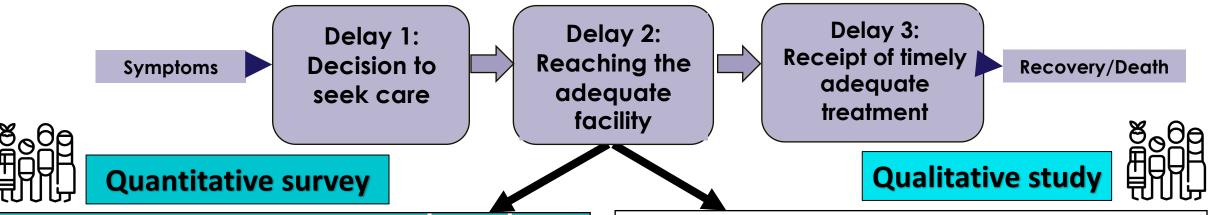
Was in too much pain



Second delay	Nigeria (N= 123)	CAR (N=100)
	%	%
Reasons why it took that long to arrive at facil	ity	
Went to other health facilities before this one	17.1	58.0
The health facility is far	61.8	25.0
Did not have enough money	18.7	13.0
Lack of people to accompany	13.9	13.0
Lack in transportation available	46.3	11.0
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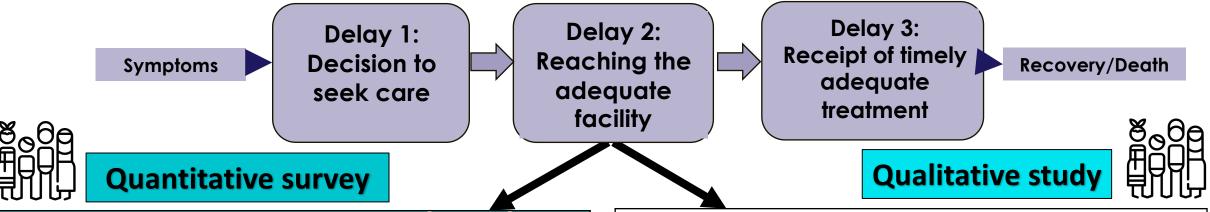
• In both sites,

 Lack of capacity and low quality of care in other health care structures



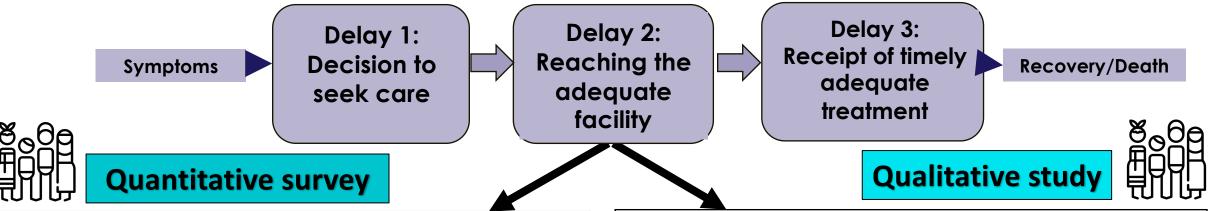
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- In both sites,
 - Lack of capacity and low quality of care in other health care structures
 - Low socio-economic status: no money for transport and medical fees



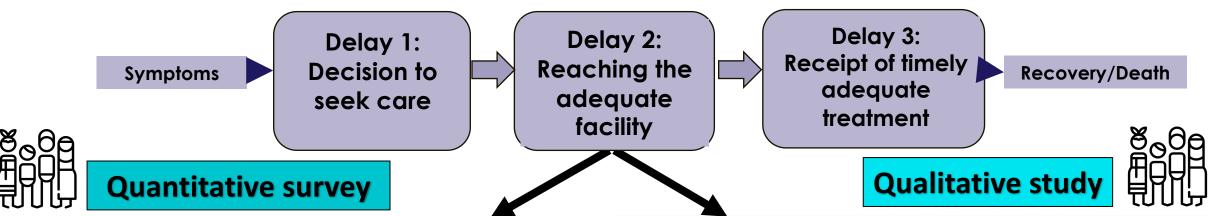
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- In both sites,
 - Lack of capacity and low quality of care in other health care structures
 - Low socio-economic status: no money for transport and medical fees
 - Transport: limited availability and high cost of transport



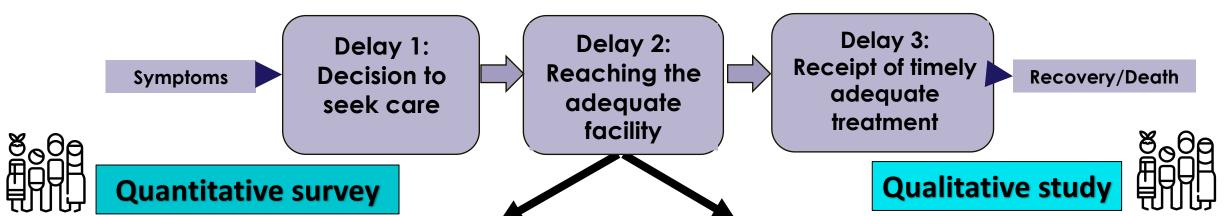
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- In both sites,
 - Lack of capacity and low quality of care in <u>other</u> health care structures
 - Low socio-economic status: no money for transport and medical fees
 - Transport : limited availability and high cost of transport
 - In Nigeria: Lack of access to passable roads/poor road network



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 - Lack of capacity and low quality of care in <u>other</u> health care structures
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 - Transport: limited availability and high cost of transport
 - In Nigeria: Lack of access to passable roads/poor road network
 - Poor referral system



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 - Low socio-economic status: no money for transport and medical fees
 - **Transport**: limited availability and high cost of transport
 - In Nigeria: Lack of access to passable roads/poor road network
 - Poor referral system
 - In CAR: stigma => prioritisation of pregnant women

Quantitative survey	



Quantitative survey



Quantitative survey

Main reasons for no contraception	Nigeria (N= 350)	CAR (N= 227)
	%	%
Child desire	47.4	30.4
Husband objection	14.9	13.2
Did not know they could get pregnant	13.4	7.0
Against religious beliefs	12.0	-
Afraid of side effects	11.1	30.4
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	Qualitative study	MUU
In CAR		



Quantitative survey

Qualitative study



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In Nigeria

 Participants report not using contraception due to trusting in God's (Allah's) plan

Results: Reported induced abortion



Clinical study

Quantitative survey

	Nigeria			CAR			WHO-MCS-A		
	n	%	95%CI	n	%	95%CI	n	%	95%CI
	N=360				N=36	52		N=30	91*
Induced abortion	84	23.3	19.2-28.0	164	45.3	40.1-50.6	602	19.5	18.1-20.9
	N=	83 (1 r	83 (1 missing) N=156 (8 missing)						
Safe	2	2.4	0.3-8.4	32	20.5	14.5-27.7			
Unsafe	81	97.6	91.6-99.7	124	79.5	72.3-85.5			
		N=520		N=548		N=13657**			
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	n	%	95%CI	n	%	95%Cl	n	%	95%CI
	N=360		N=362			N=3091*			
Induced abortion	84	23.3	19.2-28.0	164	45.3	40.1-50.6	602	19.5	18.1-20.9
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Qualitative study



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- Methods were multiple, often mixed, and could be used in succession, including:
 - Unsafe instrumental evacuations referred to as "Curettage"
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In Nigeria:

- None of the participants reported having induced their abortion
 - > Lack of knowledge and stigma of induced abortion
- However, many reported **use of traditional substances**, to "support" the pregnancy or to treat symptoms such as bleeding, including
 - o Rubutu, with vegetables, seeds, coran ink and charcoal
 - o *Jiko*, unknown herbal ingredients
 - Potash, a food additive
- Bleeding often started after their consumption



Results: High risk of anemia



		Nigeria		CAR			
	n/N	% 95%CI		n/N %		95%CI	
Anemia	424/517	82.0	78.4-85.2	219/513	42.7	38.4-47.1	
Anemia in women with no severe bleeding	96/144	66.7	58.3-74.3	79/210	37.6	31.0-44.5	

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KAPB survey



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In **both sites**:

 Quality of care at MSF recognized to be of quality

- No or low report of stigmatization
 - In CAR, few reports of stigmatizing attitudes from health care providers

 Higher severity of abortion-related complications in these referral hospitals of fragile or conflict-affected setting compared to similar African facilities in stable setting.

Great delays to access post-abortion care.

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- Difficulties in access to or use of contraception
- ⇒unsafe abortion
- High proportion of chronic underlying anemia especially in Nigeria
- ⇒Need greater access to comprehensive abortion care (contraception, safe abortion care, and post-abortion care) to prevent severe abortion complications and deaths in these fragile & conflict-affected settings.



MANY THANKS TO



Country stakeholders

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Communities of Bangui, Jigawa State and Masisi CAR, Nigeria and DRC Ministries of Health Médecins Sans Frontières CAR, Nigeria and DRC

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Publications:

- https://bmcpregnancychildbirth.biomedcentral.com/articles/10.1186/s12884-023-05427-6
- https://epicentre.msf.org/en/our-projects/abortion-complications

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