

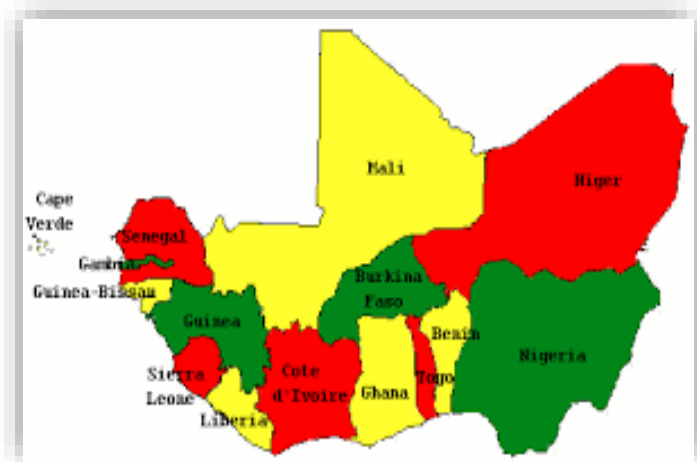


## **West African College of Surgeons / Collège Ouest Africain de Chirurgiens**

### **REPORT OF THE MAPPING EXERCISE DOCUMENTING FISTULA FACILITIES, SKILLS AND SERVICES IN THE WEST AFRICA SUBREGION**

#### **I. Background**

Fistula Care Plus (FC+) engaged the West African College of Surgeons (WACS) to develop a Costed Workforce Development Plan (CWfDP) to support capacity building towards ending obstetric fistula in the ECOWAS Region. To this end, a mapping of current status of fistula activities in the region was necessary to determine the scope and coverage.



The 15 members of the Economic Community of West African States (**ECOWAS**) are Benin, Burkina Faso, Cabo Verde, Cote d'Ivoire, The Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone, and Togo. Of the 15 ECOWAS member states, **eight** are French-speaking, five English-speaking, and two Portuguese-speaking. The two Portuguese-speaking member states are Guinea Bissau and Cabo Verde.

#### **II. Methods**

Given the challenge of COVID-19 and the travel restrictions, FC+ and WACS were not able to conduct the mapping activities as planned. Therefore, the authors resorted to desk reviews, website reviews including the Global Fistula Map website, phone calls and review of past reports to develop this mapping report. Information provided on the obstetric fistula mapping document was gathered by a committee set up by the West African College of Surgeons. The committee was chaired by Prof. Serigne Gueye and included the WACS Secretary-General and Fellows from the Faculties of Surgery and Obstetrics and Gynaecology. Members were from Nigeria, Liberia, Senegal, the Gambia. Each committee member communicated with fistula desk officials or fistula surgeons in allocated countries. Some data were updated from personal communications in the West African Fistula network

### III. Findings

These countries have varying level of fistula activities. While some have just centers where occasional repairs are done, other have several fully functional centers with daily repairs and training activities. Some of the countries have mainstreamed fistula activities as part of routine services within their healthcare delivery systems, other have ad hoc camps of Pooled Effort Repair Activities occasionally adopted to address back log of fistula cares. Below is a table of the countries, the number of centers they have, the number of surgeons, and those that have FIGO approved Training Centers.

#### **Number of Fistula Centers, Surgeons and FIGO-trained Fellows**

	<b>Countries</b>	<b>Number of Fistula Centers</b>	<b>Number of Fistula Surgeons</b>	<b>Number of FIGO-trained Fellows</b>
1	Benin	10	8	
2	Burkina Faso	4	9	
3	Cabo Verde	0	0	
4	Cote d'Ivoire	9	10	
5	The Gambia	3	3	2
6	Ghana	8	10	4
7	Guinea	10	11	
8	Guinea Bissau	3	3	
9	Liberia	5	5	
10	Mali	9	10	
11	Niger	11	13	
12	Nigeria	21	68; 3 Master Trainers	13
13	Senegal	12	20; 5 master Trainers	
14	Sierra Leone	1	2	
15	Togo	3	6	1

Most of the countries have centers for training lower level fistula surgeons. However, only two countries, Nigeria and Senegal have FIGO approved training Centers.

### IV. Skills Distribution

The Region has varying levels of fistula repair skills in each country. While the Francophone and Lusophone Countries have Urologists performing fistula repairs, the Gynecologists are the ones performing fistula repairs in Anglophone ECOWAS Countries. This posed challenges in determining level of skills residing in each of the countries for fistula repairs. Overall, the agreement across all countries in the region and in Africa is that Nigeria has the largest accumulation of skilled fistula surgeons. With three Master Trainers capable to training others in vaginal reconstruction, Nigerian Fistula Surgeons have supported a lot of trainings for surgeons from other African Countries.

## V. Appendix A: Inventory of Training and Capacity Building Resources for Fistula Treatment available in WACS Country members

### **BENIN REPUBLIC**

Total Population (Annual total pop. at mid-year 2020):	12,123,000 <sup>1</sup>
Maternal Mortality Ratio:	397 / 100,000 live births <sup>2</sup>
Total Fertility Rate:	4.8 <sup>3</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	16 <sup>4</sup>
Lifetime prevalence of obstetric fistula:	--
Estimated number of current obstetric fistula cases:*	9,600 (between 7,300 and 12,300) <sup>5</sup>

\* Based on number of women currently reporting fistula symptoms. Data are median at 95% credible intervals from DHS and/or MICS.

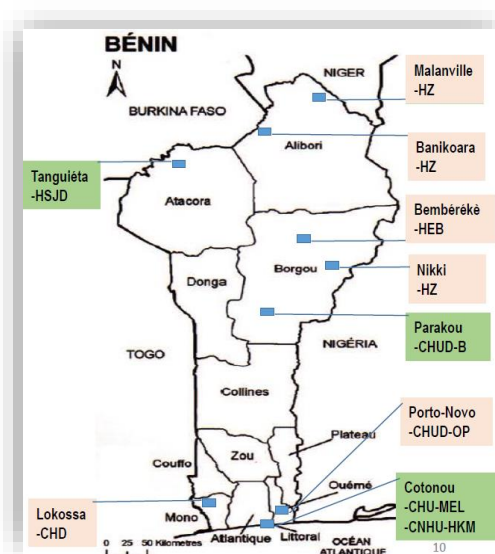
### **Facilities Offering Repairs (10)**

#### Public centers

1. CHU-MEL (Cotonou) teaching hospital
2. CNHU-HKM (Cotonou) teaching hospital
3. Parakou CHD
4. Porto-Novo CHD
5. Lokossa CDH
6. Zonal Hospitals Nikki
7. Zonal Hospital Banikoara
8. Zonal Hospital Malanville

#### Confessional hospitals

9. Tanguéta
10. Bembéréké



### **Human Resources Available for Fistula**

- ✓ 8 surgeons trained for complex cases
- ✓ 25 surgeons trained to do simple cases

<sup>1</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019.

<sup>2</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>3</sup> Ibid.

<sup>4</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>

<sup>5</sup> Maheu-Giroux M, Fillipi V, Samadoulougou S, et al. Prevalence of vaginal fistula symptoms in 19 sub-Saharan African countries: a meta-analysis of national household survey data. Lancet Glob Health 2015; 3: e271–78

## BURKINA FASO

Total Population ((Annual total pop. at mid-year 2020)	20,903,000 <sup>6</sup>
Maternal Mortality Ratio	320 / 100,000 live births <sup>7</sup>
Total Fertility Rate	5.2 <sup>8</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	32 <sup>9</sup>
Lifetime prevalence of obstetric fistula (%):	.4 <sup>10</sup>
Estimated number of current obstetric fistula cases:*	500 (between 0 – 2000) <sup>11</sup>

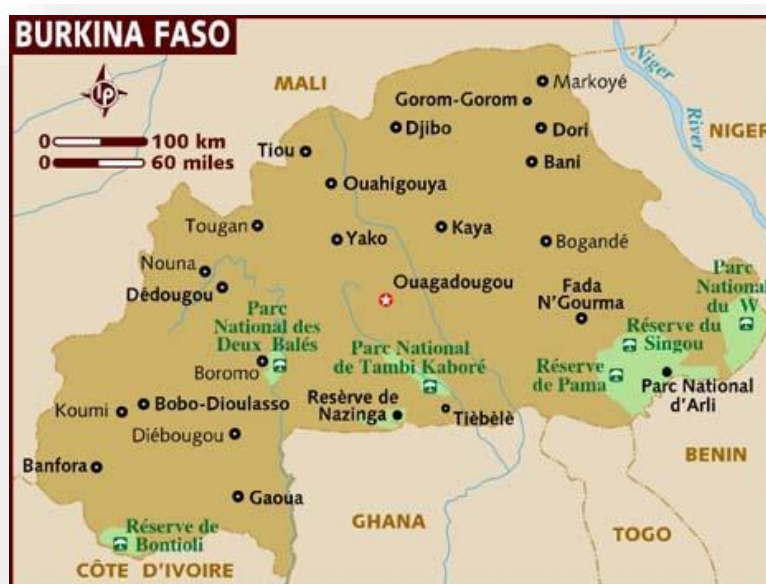
\* Based on number of women currently reporting fistula symptoms. Data are median at 95% credible intervals from DHS and/or MICS.

### Facilities Offering Repairs (4)

1. Central University Hospital, Sanou Souro
2. Paul VI Medical Center, Ouagadougou
3. Dori Regional Hospital, Dori
4. ?

### Human Resources Available for Fistula

- ✓ Number of trained and active surgeons: 10
- ✓ Number of nurses trained: 61



<sup>6</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019.

<sup>7</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>8</sup> Ibid.

<sup>9</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>

<sup>10</sup> Maheu-Giroux M, Fillipi V, Samadoulougou S, et al. Prevalence of vaginal fistula symptoms in 19 sub-Saharan African countries: a meta-analysis of national household survey data. Lancet Glob Health 2015; 3: e271–78

<sup>11</sup> Ibid.

## **COTE D'IVOIRE**

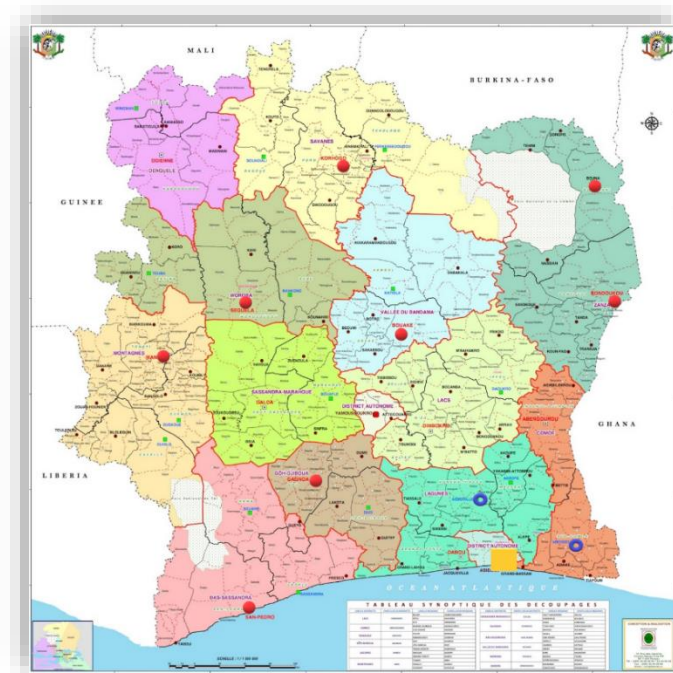
Total Population (Annual total pop. at mid-year 2020)	26,172,000 <sup>12</sup>
Maternal Mortality Ratio	617 / 100,000 live births <sup>13</sup>
Total Fertility Rate	4.6 <sup>14</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	23 <sup>15</sup>
Lifetime prevalence of obstetric fistula (%):	--
Estimated number of current obstetric fistula cases:	--

### **Repair Centers (9)**

1. Korhogo
2. Seguela
3. Bouna
4. Bondoukou
5. Bouake
6. Man
7. Yamoussoukro
8. San-Pedro
9. Gagnoa

### **Human Resources Available for Fistula**

- ✓ 128 doctors trained for fistula surgery
- ✓ 654 nurses and midwives trained to identify patients and perioperative follow up
- ✓ 10 surgeons trained to operate complex cases
- ✓ 22 urologists trained
- ✓ No anaesthetist or nurse dedicated to fistula surge



<sup>12</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019

<sup>13</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>14</sup> Ibid.

<sup>15</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>

## **GAMBIA**

Total Population (Annual total pop. at mid-year 2020)	2,293,000 <sup>16</sup>
Maternal Mortality Ratio	597 / 100,000 live births <sup>17</sup>
Total Fertility Rate	5.2 <sup>18</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	9 <sup>19</sup>
Lifetime prevalence of obstetric fistula (%):	--
Estimated number of current obstetric fistula cases:	--

### **Facilities Offering Repairs (3)**

1. Banjul: Edward Francis Small Hospital
2. Serekunda : Bafrow Fistula Center
3. Kanifing General Hospital

### **Human Resources Available for Fistula**

- ✓ Surgeons : 3



<sup>16</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019, custom data acquired via website.

<sup>17</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>18</sup> Ibid.

<sup>19</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>



## GHANA

Total Population (Annual total pop. at mid-year 2020):	30,734,000 <sup>20</sup>
Maternal Mortality Ratio:	308 / 100,000 live births <sup>21</sup>
Total Fertility Rate:	3.9 <sup>22</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	31 <sup>23</sup>
Lifetime prevalence of obstetric fistula (%):	--
Estimated number of current obstetric fistula cases:	--

### Facilities Offering Repairs (8- Wide prevalence with hot spots in Northern and central regions)

#### Academic Hospital Center (all public)

1. KBTH (Accra)
2. KATH (Kumasi)
3. TTH (Tamale)
4. ER
5. UWR
6. UER (All public)

#### Dedicated fistula centers

7. Tamale fistula center
8. Mercy Womens Catholic Hospitals Fistula Center

#### Available human resources for repair

- ✓ Surgeons: 10
- ✓ Available at all centers (Anesthetists, Technicians and Nurses)



<sup>20</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019, custom data acquired via website.

<sup>21</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>22</sup> Ibid.

<sup>23</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>

## GUINEA REPUBLIC

Total Population (Annual total pop. at mid-year 2020):	13,751,000 <sup>24</sup>
Maternal Mortality Ratio:	576 / 100,000 live births <sup>25</sup>
Total Fertility Rate:	4.7 <sup>26</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	11 <sup>27</sup>
Lifetime prevalence of obstetric fistula (%):	5.5 <sup>28</sup>
Estimated number of current obstetric fistula cases: *	8,300 (between 5,300–11,900) <sup>29</sup>

\* Based on number of women currently reporting fistula symptoms. Data are median at 95% credible intervals from DHS and/or MICS.

### Facilities Offering Repairs (10)

1. Hôpital National Ignace Deen de Conakry
2. Centre médico-social Jean Paul II de Conakry
3. Hôpital régional de Labé
4. Hôpital régional de Kindia
5. Hôpital régional de Boké
6. Hôpital régional de Kankan
7. Hôpital régional de Faranah
8. Hôpital régional de Nzérékoré
9. Hôpital de district de Kissidougou
10. NGO : Centre Médical privé associatif



### Human resources available for fistula repair

- ✓ Surgeons : 11
- ✓ Trained nurses : 106
- ✓ Doctor anesthetists : 9
- ✓ Anaesthetist technicians : 11

<sup>24</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019, custom data acquired via website.

<sup>25</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>26</sup> Ibid.

<sup>27</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>

<sup>28</sup> Maheu-Giroux M, Fillipi V, Samadoulougou S, et al. Prevalence of vaginal fistula symptoms in 19 sub-Saharan African countries: a meta-analysis of national household survey data. Lancet Glob Health 2015; 3: e271–78

<sup>29</sup> Ibid.



## GUINEA BISSAU

Total Population (Annual total pop. at mid-year 2020):	2,001,000 <sup>30</sup>
Maternal Mortality Ratio:	667 / 100,000 live births <sup>31</sup>
Total Fertility Rate:	4.5 <sup>32</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	16 <sup>33</sup>
Lifetime prevalence of obstetric fistula (%):	--
Estimated number of current obstetric fistula cases:	--

### Facilities Offering Repairs (3)

1. Hospital Nacional Simão Mendes. (Public)
2. Hospital Regional de Oio, Mansoa. (Public)
3. Hospital Regional de Gabu. (Public)

### Human resources available

- ✓ Surgeons : 4
- ✓ Anesthetists : 8
  - Doctors : 0
  - Technicians : 8
- ✓ Nurses: 10



<sup>30</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019, custom data acquired via website.

<sup>31</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>32</sup> Ibid.

<sup>33</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>

## **LIBERIA**

Total Population (Annual total pop. at mid-year 2020):	5,104,000 <sup>34</sup>
Maternal Mortality Ratio:	661 / 100,000 live births <sup>35</sup>
Total Fertility Rate:	4.3 <sup>36</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	31 <sup>37</sup>
Lifetime prevalence of obstetric fistula (%):	--
Estimated number of current obstetric fistula cases:	--

### **Facilities Offering Repairs (5)**

1. Phebe Hospital
5. Family Medical Center
6. St. Joseph Catholic Hospital
7. C.B Dumbar Hospital
8. Ganta methodist Hospital

### **Human resources available for fistula**

- ✓ Active Full surgeons (5)
- ✓ Non Active surgeons (2)
- ✓ Surgeons in training (1)
- ✓ Trained nurse trainers (3)



<sup>34</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019, custom data acquired via website.

<sup>35</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>36</sup> Ibid.

<sup>37</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>

## **MALI**

Total Population (Annual total pop. at mid-year 2020):	20,284,000 <sup>38</sup>
Maternal Mortality Ratio:	562 / 100,000 live births <sup>39</sup>
Total Fertility Rate:	5.9 <sup>40</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	17 <sup>41</sup>
Lifetime prevalence of obstetric fistula (%):	.7 <sup>42</sup>
Estimated number of current obstetric fistula cases*	300 (between 0 - 1,500) <sup>43</sup>

\* Based on number of women currently reporting fistula symptoms. Data are median at 95% credible intervals from DHS and/or MICS.

### **Facilities Offering Repairs (9)**

1. Kayes
2. Koulikoro
3. Sikasso
4. Bamako
5. Ségou
6. Mopti
7. Gao
8. Kidal
9. Tombouctou

### **Human resources**

- ✓ Surgeons: 10
- ✓ 50 Urologists and 31 surgeons trained



<sup>38</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019, custom data acquired via website.

<sup>39</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>40</sup> Ibid.

<sup>41</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>

<sup>42</sup> Maheu-Giroux M, Fillipi V, Samadoulougou S, et al. Prevalence of vaginal fistula symptoms in 19 sub-Saharan African countries: a meta-analysis of national household survey data. Lancet Glob Health 2015; 3: e271–78

<sup>43</sup> Ibid.

## NIGER

Total Population (Annual total pop. at mid-year 2020):	24,075,000 <sup>44</sup>
Maternal Mortality Ratio:	509 / 100,000 live births <sup>45</sup>
Total Fertility Rate:	6.9 <sup>46</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	11 47
Lifetime prevalence of obstetric fistula (%):	.8 <sup>48</sup>
Estimated number of current obstetric fistula cases:*	900 (between 0 – 3,000) <sup>49</sup>

\* Based on number of women currently reporting fistula symptoms. Data are median at 95% credible intervals from DHS and/or MICS.

### Facilities Offering Repairs (11)

1. Agadez Provincial Hospital
2. Diffa
3. Dosso
4. Maradi
5. Tahoua
6. Tillabéry
7. Zinder
8. Hôpital National de Lamordé, Niamey
9. Centre National de Référence des FO (CNRFO), Niamey
10. Centre Hospitalier Régional (CHR) de Dosso
11. Centre de Fistule de Danja (confessional)



### Human resources available for fistula repairs

- ✓ 19 Fistula surgeons
  - 5 trainers
  - 8 surgeons able to treat complex cases
  - 11 surgeons for simple cases
- ✓ 16 District doctors trained for fistula diagnosis
- ✓ 2 Doctors anesthetists (Hopital National Lamorde)
- ✓ 22 Nurse anesthetists

<sup>44</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019, custom data acquired via website.

<sup>45</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>46</sup> Ibid.

<sup>47</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>

<sup>48</sup> Maheu-Giroux M, Fillipi V, Samadoulougou S, et al. Prevalence of vaginal fistula symptoms in 19 sub-Saharan African countries: a meta-analysis of national household survey data. Lancet Glob Health 2015; 3: e271–78

<sup>49</sup> Ibid.

## FEDERAL REPUBLIC OF NIGERIA

Total Population (Annual total pop. at mid-year 2020):	206,153,000 <sup>50</sup>
Maternal Mortality Ratio:	917 / 100,000 live births <sup>51</sup>
Total Fertility Rate:	5.4 <sup>52</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	17 <sup>53</sup>
Lifetime prevalence of obstetric fistula (%):	3.2 <sup>54</sup>
Estimated number of current obstetric fistula cases:	46,800 (between 28,000 – 67,800) <sup>55</sup>

\* Based on number of women currently reporting fistula symptoms. Data are median at 95% credible intervals from DHS and/or MICS.

### Facilities Offering Repairs (21)

1. National Obstetric Fistula Centre, Ningi (north east)
2. VVF Centre, Damaturu (north east)
3. VVF Centre, Maiduguri (north east)
4. VVF Centre, Yola (north east)
5. General Hospital Ogoja (south south)
6. VVF Centre, Calabar (south south)
7. Family Life Centre & VVF Hospital, Uyo (south south)
8. National Obstetric Fistula Centre, Abakiliki (south east)
9. Hajiya Gambo Sawaba VVF Center Zaria (north west)
10. Laure VVF Centre Kano (north west)
11. National Obstetric Fistula Centre, Babbar Ruga Katsina (north west)
12. Gesse VVF Centre Birnin-Kebbi (north west)
13. Maryam Abacha Women and Children Hospital Sokoto (north west)
14. Faridat General Hospital Gusau (north west)
15. Sobi Specialist Hospital Ilorin (north central)
16. JUTH/Safe Motherhood Partners Fistula programme (north central)
17. Evangel Hospital, Jos (north central)



<sup>50</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019, custom data acquired via website.

<sup>51</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>52</sup> Ibid.

<sup>53</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>

<sup>54</sup> Maheu-Giroux M, Fillipi V, Samadoulougou S, et al. Prevalence of vaginal fistula symptoms in 19 sub-Saharan African countries: a meta-analysis of national household survey data. Lancet Glob Health 2015; 3: e271–78

<sup>55</sup> Ibid.

18. University College Hospital Ibadan (south west)
19. Adeoyo General Hospital Ibadan (south west)
20. Wesley Guilds Hospital, Ilesha (south west)
21. Jahun VVF Centre by Doctors without Borders, Jigawa State (north west)

**Centres with Advanced Fistula Training Programme in Nigeria**

1. Family Life Centre & VVF Hospital, Uyo SS
2. National Obstetric Fistula Centre, Babbar Ruga Katsina NW
3. Evangel Hospital VVF Centre, Jos NC
4. Laure VVF Centre Kano NW
5. National Obstetric Fistula Centre, Abakiliki SE
6. Gesse VVF Centre Birnin-Kebbi NW
7. Maryam Abacha Women and Children Hospital Sokoto NW
8. Faridat General Hospital Gusau NW
9. Adeoyo General Hospital Ibadan SW
10. National Obstetric Fistula Centre, Ningi, NE
11. VVF centre Jahun (Dutse), Jigawa State

**Human resources available for fistula repairs**

- ✓ 37 trained fistula surgeons
  - 19 of identified surgeons have been trained on advanced surgical skills
- ✓ 7 fistula nurses



## SENEGAL

Total Population (Annual total pop. at mid-year 2020):	17,200,000 <sup>56</sup>
Maternal Mortality Ratio:	315 / 100,000 live births <sup>57</sup>
Total Fertility Rate:	4.6 <sup>58</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	28 <sup>59</sup>
Lifetime prevalence of obstetric fistula (%):	.5 <sup>60</sup>
Estimated number of current obstetric fistula cases:	300 (between 0–1400) <sup>61</sup>

\* Based on number of women currently reporting fistula symptoms. Data are median at 95% credible intervals from DHS and/or MICS.

### Facilities Offering Repairs (12: 2 in capital, 7 regional, 3 district)

1. Grand Yoff General Hospital (Dakar)
2. Hopital Aristide le Dantec (Dakar)
3. Ziguinchor Regional Hospital
4. Sédhiou Regional Hospital
5. Kolda Regional Hospital
6. Tambacounda Regional Hospital
7. Kédougou Regional Hospital
8. Ourossogui Regional Hospital
9. Saint-Louis Regional Hospital
10. Kanel District Hospital
11. Mbour District Hospital
12. Tivaouane District Hospital



### Human Resources

- ✓ More than 50 surgeons trained and able to repair simple to complex fistula cases
- ✓ More than 100 nurses and midwives trained

<sup>56</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019, custom data acquired via website.

<sup>57</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>58</sup> Ibid.

<sup>59</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>

<sup>60</sup> Maheu-Giroux M, Fillipi V, Samadoulougou S, et al. Prevalence of vaginal fistula symptoms in 19 sub-Saharan African countries: a meta-analysis of national household survey data. Lancet Glob Health 2015; 3: e271–78

<sup>61</sup> Ibid.



## **SIERRA LEONE**

Total Population (Annual total pop. at mid-year 2020):	7,987,000 <sup>62</sup>
Maternal Mortality Ratio:	1,120 / 100,00 live births <sup>63</sup>
Total Fertility Rate:	4.3 <sup>64</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	23 <sup>65</sup>
Lifetime prevalence of obstetric fistula (%):	6 <sup>66</sup>
Estimated number of current obstetric fistula cases:	4,100 (between 2,900–5,600) <sup>67</sup>

\* Based on number of women currently reporting fistula symptoms. Data are median at 95% credible intervals from DHS and/or MICS.

### **Facilities Offering Repairs (1)**

1. Aberdeen Women Clinic, formerly  
Aberdeen Fistula Clinic (Mercy Ships)

### **Human resources available**

- ✓ 3 local surgeons and 2 currently in training
- ✓ Support from international experts (February, June, November lasting 2 weeks each)
- ✓ Several nurses trained on care of fistula patients
- ✓ Nursing and midwifery post-operative care
- ✓ Local doctors, nurses and anaesthetist are posted by the government



<sup>62</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019, custom data acquired via website.

<sup>63</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>64</sup> Ibid.

<sup>65</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>

<sup>66</sup> Maheu-Giroux M, Fillipi V, Samadoulougou S, et al. Prevalence of vaginal fistula symptoms in 19 sub-Saharan African countries: a meta-analysis of national household survey data. Lancet Glob Health 2015; 3: e271–78

<sup>67</sup> Ibid.

## TOGO REPUBLIC

Total Population (Annual total pop. at mid-year 2020):	8,270,000 <sup>68</sup>
Maternal Mortality Ratio:	396 / 100,000 live births <sup>69</sup>
Total Fertility Rate:	4.3 <sup>70</sup>
Contraceptive Prevalence Rate (% of women aged 15 – 49):	20 <sup>71</sup>
Lifetime prevalence of obstetric fistula (%):	2.3 <sup>72</sup>
Estimated number of current obstetric fistula cases:	1500 (between 200–3500) <sup>73</sup>

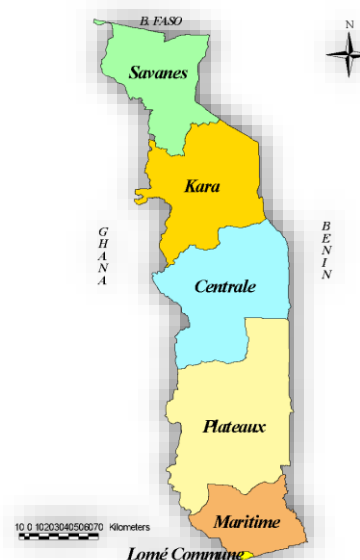
\* Based on number of women currently reporting fistula symptoms. Data are median at 95% credible intervals from DHS and/or MICS.

### Facilities Offering Repairs (3)

1. CHU SO Lomé
2. CHR Sokodé
3. Hôpital St Jean de Dieu d'Afagnangan

### Human resources available for fistula surgery

- ✓ Urologists: 2
- ✓ Gynaecologists : 2
- ✓ General surgeons : 02
- ✓ Anesthesiologists : 1 doctor and 4 nurses anaesthetists
- ✓ Trained nurses and midwives: 20
- ✓ International expert trainers



<sup>68</sup> United Nations, Department of Economic and Social Affairs, Population Division. 2019. World Population Prospects 2019, custom data acquired via website.

<sup>69</sup> WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. 2019. Trends in Maternal Mortality: 2000 to 2017. Geneva, World Health Organization. Available at: <https://data.worldbank.org/indicator/SH.STA.MMRT>

<sup>70</sup> Ibid.

<sup>71</sup> UNICEF's State of the World's Children and Child info, United Nations Population Division's World Contraceptive Use, household surveys including DHS and Multiple Indicator Cluster Surveys. Available at: <https://data.worldbank.org/indicator/SP.DYN.CONU.ZS?view=chart>

<sup>72</sup> Maheu-Giroux M, Fillipi V, Samadoulougou S, et al. Prevalence of vaginal fistula symptoms in 19 sub-Saharan African countries: a meta-analysis of national household survey data. Lancet Glob Health 2015; 3: e271–78

<sup>73</sup> Ibid.