



# PROJECT FACTSHEET

## GUINEA

In April 2018, a team of local and international health organizations launched a partnership to ensure that hospitals throughout Guinea can deliver safer and more reliable anesthesia—a necessary service for any surgical operation, including emergency childbirth procedures like C-sections. The project—implemented under Jhpiego’s Health Services Delivery initiative—was designed to lower maternal and newborn mortality by pairing world-class anesthesia technology with hands-on, simulation-based mentorship so health providers across the country have the equipment and skills to deliver high-quality anesthesia care.

### KEY STATS\*

- Total Population**  
12.6 million
- Women of Childbearing Age**  
2.5 million
- Public Hospitals**  
35 (2 tertiary, 33 district)
- Anesthesia Providers**  
43 total (MDs & nurses)
- Maternal Mortality Ratio**  
679 deaths/100,000 births
- Newborn Mortality Ratio**  
25 deaths/1,000 births
- C-Section Rate**  
2.4% of childbirths
- Unreliable Electricity**  
73.3% of population
- 2hr+ from Emergency Care**  
37.3% of population

### INTERVENTIONS



**Anesthesia Technology:** Equip 18 hospitals with the Universal Anaesthesia Machine (UAM)—the world’s only CE-certified anesthesia machine that can generate its own medical oxygen & work without electricity; ensure annual preventive maintenance, equipment repairs, & remote service through global & local support teams



**Clinical Skills Training:** Administer a hands-on, simulation-based training program for anesthesia providers at each project hospital, including:

- Certifying a team of Guinean anesthesiologists as lead project trainers at a top West African surgical training institute
- Conducting a capacity building course in Conakry using physician-supervised simulation to refresh & refine techniques in obstetric, pediatric, & general anesthesia
- Ensuring ongoing skills evaluation & mentorship



**Technical Capacity Building:** Train & certify local biomedical technicians to provide basic maintenance & repairs for the UAM & a suite of other medical equipment needed for emergency childbirth care

The project will be monitored for its impact on surgical care, anesthesia capacity, medical equipment reliability, & maternal & newborn healthcare.

### PROJECT SITES



### PROJECT PARTNERS



\*Sources: 1) Averting Maternal Death and Disability (AMDD), "Emergency Obstetric and Newborn Care," Columbia University. 2) Ouma P, Maina J et al: "Access to emergency hospital care provided by the public sector in sub-Saharan Africa in 2015: a geocoded inventory and spatial analysis," *The Lancet Global Health*, 2017. 3) World Bank: "Sustainable Energy for All Database," 2014. 4) WHO, UNICEF, UNFPA, World Bank Group: "Trends in Maternal Mortality" & "Child Mortality Estimation," WHO, 2016. 5) Beltran A, Ye J et al: "The Increasing Trend in Caesarean Section Rates: Global, Regional and National Estimates: 1990-2014," *PLOS One*, 2016.