

Flashpoint 6: Anesthesia Care



FLASHPOINT 6: Lancet Commission Global Surgery

21–26).⁵² For instance, Rwanda, Uganda, Liberia, and Ethiopia each have fewer than one physician surgical provider per 100 000 people.³⁸ Anaesthesiologists are even less common. The per-capita anaesthesia provider ratio in many LMICs is 100 times lower than that in high-income countries.⁵³

Generation of political priority for global surgery: a qualitative policy analysis

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Flashpoint 6: EmOC anesthesia safety in LMIC

- Cross section survey referral hospitals ECSA region:
 - Uganda, Kenya, Tanzania, Rwanda, Burundi
 - Survey derived from WFSA international safe anesthesia guidelines/checklist
 - Anesthetists in facilities, MoH and National Anesthesia Society key informants interview
 - 0% of facilities had all necessary requirements
 - Eg monitor availability limited, often nonfunctional
 - ICU care gaps
 - Protocol gaps
 - 7% had adequate anesthesia staffing
 - 237/143 million population
 - WF density of 0.02-0.13/100,000 population
- Lancet commission goal: minimum 20 SAO HCW/100,000 population by 2030

Flashpoint 6: EmOC anesthesia capacity and systems

- Task shifting EmOC anesthesia to medical officers worked well in a team-work, facility-based training environment in rural India
 - IJGO 2009
- Optimized procurement, financing and clinical management protocols crucial to minimize anesthesia-related EmOC morbidity and mortality
 - Best Pract Res Clin Obstet Gynaecol 2010
- Anesthesia Safety
 - Spinal anesthesia (6.7% complications)
 - *Rate of spinal failure associated with low levels clinical experience*
 - General anesthesia (34.5% complications)
 - Conversion to general anesthesia, cardiorespiratory arrest management, intensive care capacity (maternal and neonatal), illustrate need for safety standards and protocols for regional/spinal and general anesthesia
- Anesth Analg 2015, S Afr Med J 2012, W Afr J Med 2013, Afr J Med Sci 2014

Flashpoint 6: Neonatal impact EmOC anesthesia

- Anesthesia also affects the “second patient”
- Tanzania – profile 50 Cesarean deliveries using new profile of 40 quality indicators
- 28 structural indicators (75% present in OT)
 - Essential drugs, anesthesia equipment, oxygen supply
- 12 process indicators (55% performed in OT)
 - Airway status, blood pressure, intravenous line
- Association of low implementation of and gaps in systematic processes with neonatal morbidity and mortality
- Infants:
 - 7 ventilator therapy
 - 4 stillborn
 - Trop Med Int Health 2015