

APPENDIX I – QUESTIONNAIRE FOR INTERVIEWING THE ANAESTHESIA PROVIDER

We are carrying out a survey to establish the quality of anaesthesia care provided to Obstetric patients in East Africa. We therefore request you to provide information on the following questions.

A. ANAESTHESIA PROVIDER DERMOGRAPHIC DATA

1. Study Number
2. Age
3. Gender
4. Physician or Nurse Anesthetist?
5. Are you still in training or completed training?
6. How many years of experience do you have in anesthesia?
7. Where else do you work?
8. Presence of 24 hr recovery rooms
9. Number of anesthesiologists in hospital
10. Number of nurse anesthetists in hospital

B. OPERATIONAL DATA–(Tick appropriate answer)

1. You use a pre-anaesthetic surgical checklist on all patients

Agree Disagree

2. Sometimes surgical checklist is not used because

It is not clear

It is not available

3. You know about the International Guidelines for Safe Anaesthesia care for Obstetric Patients?

Agree

Disagree

4. You perform pre-anesthetic evaluation in all obstetric cases

Agree

Disagree

5. You always check patient's preoperative informed consent

Agree

Disagree

6. You always check patient's identification and type of surgery

Agree

Disagree

7. There is adequate anesthesia personnel in your department

Agree

Disagree

8. If they are inadequate, how much more do you need? 20%, 30%, 50%, > 50%

9. You always have an assistant who knows how to give cricoid pressure?

Agree

Disagree

10. Continuous education activity in your department is sufficient

Agree

Disagree

11. Supervision in your department is adequate

Agree

Disagree

12. In the past year at least one of your patients had intra-operative cardiac arrest

Agree

Disagree

13. Supervision in your department regarding emergency condition is adequate

Agree

Disagree

14. Number of Emergency Caesarean Sections done in your Hospital per day

.....
15. Time from decision to perform Emergency Caesarean Section, to actual surgery

.....
16. Reasons for delay

No anaesthetist

No Surgeon

Equipment fault

Other

.....
.....

17. You can catch up with new obstetric anesthesia technology

Agree

Disagree

18. More than 50% of your obstetric patients receiving anesthesia were firstly evaluated in the operating room

Agree

Disagree

19. You usually monitor your patients ventilation using (GA)

	Always used	Sometimes used	Never used
Stethoscope			
Reservoir bag movement			
Capnography			

20. Anesthesia practice always strictly complies to clinical practice guidelines

Agree

Disagree

C. EQUIPMENT

21. You always perform pre-anesthetic checking of anesthetic machine and circuit

Agree

Disagree

22. You monitor patient with electrocardiography (EKG) in every case

Agree Disagree

23. You use a nerve stimulator on all patients with neuro muscular blockade

Agree Disagree

24. You monitor patient with pulse oximeter in every case

Agree Disagree

25. You always have suction available for each case

Agree Disagree

26. You sometimes experience miscommunication during anesthetic practice

Agree Disagree

27. You have all monitors on during spinal anesthesia

	Present	Functioning	Absent
Pulse oximeter			
Automated blood pressure monitor			
Manual Blood Pressure monitor			
ECG			
Thermometer			
Capnograph and end tidal measurement			
Stethoscope			
Defibrillator			

28. You have infusion pumps available for use

Agree Disagree

29. You have a difficult airway cart, available for emergency difficult airways

Agree Disagree

30. In the past 3 months, you experienced medication error

Agree Disagree

31. You always have a nerve stimulator when using neuromuscular blocking drugs

Agree

Disagree

D. RECOVERY

32. Your patients are always taken care of for at least half an hour during postoperative period

Agree

Disagree

33. All of your patients are taken care of in the recovery room

Agree

Disagree

34. Your patients have pain relief 24 hrs, 48 hrs, > 48 hrs after surgery

24 hrs

48 hrs

> 48 hrs

35. In the past year, you experienced at least a case of dental injury

Agree

Disagree

36. You have basic ICU services available for monitoring patients post operatively

Agree

Disagree

3) **OPERATING TABLE** (tick the appropriate)

a) Present ; Yes No

b) Number of operating tables present

c) Are they functioning (Tilttable); Yes No Other

d) Serviced; Yes Never

If yes what was the last service date?

4) **SUCTION MACHINE**

a) Present Absent

b) Functioning Not functioning

c) Serviced Not serviced

Last service date

5) **MONITORS**(tick appropriate response)

	Present	Functioning	Absent	Number
Pulse oximeter				
Automated blood pressure machine				
Manual blood pressure machine				
ECG				
Temperature probe				
Capnograph and end tidal measurement				
Stethoscope				
Defibrillator				

APPENDIX III - QUESTIONNAIRE FOR INTERVIEWING A REPRESENTATIVE FROM THE MINISTRY OF HEALTH/ HEAD OF ANAESTHESIA SOCIETY

We are carrying out a survey to establish the quality of anaesthesia care provided to Obstetric patients in East Africa. We therefore request you to provide information on the following questions.

1. How many hospitals and healthcenters do you have that conduct surgery on obstetric patients?

2. How many Anaesthesia providers do you have country wide?

3. What is their level of education?

- Physician anaesthetists (number)
- Non physician anaesthetists (number)

4. Is improving anaesthesia care to obstetric patients a priority area in your National Development Plan?.....

5. What challenges are you facing in delivery of anaesthesia to obstetric patients?(Tick appropriate response)

	AGREE	DISAGREE
Few anaesthesia providers		
High patient load		
Under funding of anaesthesia service		
Lack of basic equipment		
Poorly serviced equipment (frequent breakdown)		

Drugs shortage		
Shortage of Blood and blood products for transfusion		
Lack of local protocols and guidelines for patient management		

Other -----

6. What can be done to improve this situation?

7. What is the number of cases and case-fatalities (all deaths during the hospitalization, not just during labor) of?

- a) Pregnancy-induced hypertension (preeclampsia and eclampsia)_____
- b) Obstructed labor _____
- c) Maternal/ peripartum hemorrhage_____

d) Maternal sepsis _____

8. Number of deliveries per year

a) Maternal fatalities _____

b) Neonatal fatalities (and number of stillbirths if separate data is available)

9. Number of proportion of cesarean sections per year (per month if possible)

a) Proportion elective, urgent, emergent _____

b) Indications for emergency C/S _____

c) Maternal fatalities _____

d) Neonatal fatalities _____

e) Any data on average blood transfusion, and/or pre- and post-delivery

10. Who is attending the deliveries (by year/ month if possible) % of c-sections
by anesthesiology-trained personnel

Physician anaesthetist _____

Non- Physician anaesthetist _____

