# Appendix 2. Readiness assessment

1.	Name of hospital	
2.	Hospital code	

This activity is part of the readiness assessment, to explore factors to be assessed, considered and integrated into implementation plans. There are five components of this readiness assessment:

- 1. Inventory of physical space and readiness;
- 2. Health workforce and model of care;
- 3. Protocols and guidelines for managing clinical care during labour and childbirth;
- 4. Continuous education and quality improvement
- 5. Assessment of data availability and access for audit and feedback; and
- 6. Understanding of labour companionship in practice.

For each of the study health facilities, please have a member of the research team visit to conduct an observation of the labour ward and medical records. It may be most appropriate for this person to have some clinical knowledge. We expect that this activity will take approximately four to six hours to complete (depending on how busy the facility is). Prior to conducting the readiness assessment, please ensure that all members of the maternity care unit at each health facility are briefed on the purpose of the activity, what the readiness assessment will entail, and how they may be of assistance. This will help to ensure that the readiness assessment (and other research activities) will be welcomed by the unit.

### Initial inventory

3.	# of Deliveries (1 October 2019 – 31 January 2020)	
4.	No of delivery handled exclusively by a certain obstetrician (private)	
5.	Women not handled exclusively by a certain obstetrician (non-private)	
6.	No. of Caesarean section (1 October 2019 – 31 January 2020)	
7.	Elective (pre-labour c-section)  Note: if this information is not readily available, then please ignore for now.	
8.	Emergency (intrapartum c-section)	
9.	No. of vaginal instrumental delivery (1 October 2019 – 31 January 2020)	

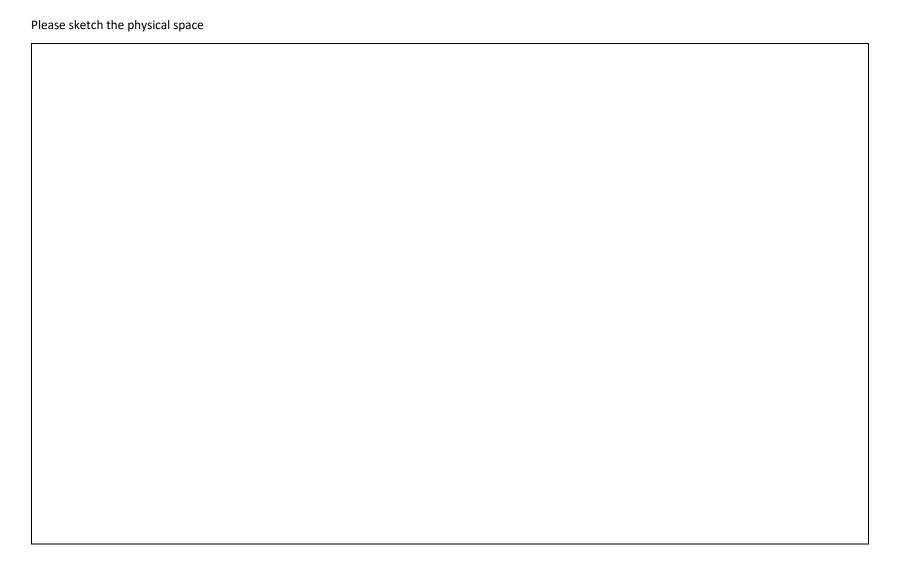
### Part 1. Inventory of physical space and resources

Description of the physical space

Please observe the physical space of the labour, delivery and postnatal wards. If these are in separate areas (e.g.: women in latent labour in a labour ward, women in active labour in a separate room/delivery ward, separate postnatal ward), please assess both areas according to all points below. Please provide a narrative description of the wards, as well as a visual depiction.

Please detail:	
# of beds in labour /admission room (1st stage of labour room):	
# of beds in labour / childbirth room (2 <sup>nd</sup> stage of labour room):	
# Ultrasound machine in the labour room (indicate number working)	
# Electronic fetal heat rate monitor (CTG) (indicate number of devices working )	
Description of any curtains, dividers or other means of protecting a woman's privacy	
Description of the potential for crowding. For example, how many beds are present? Are they	currently or
usually full? What happens if there is overcrowding?	currently of

	Description of the visiting hours and allowable visitors (check if visually displayed and ask an administrator) please take a photo if there is a sign)
Ī	
	Description of the accessibility to toilets or washrooms
Ī	
	Description of overnight accommodation for family members/friends of women (check if visually displayed and ask an administrator)
Ī	
Į	
	Description of the <b>operating theatres</b> (how is access to the theatre, is there one theatre reserved for obstetrics, is the theatre on the same floor? How are handwashing facilities)
L	
ſ	Please detail how many theatres are exclusively to perform a CS (#)
١	The actual many the area charactery to perform a co (#)



#### Part 2. Health workforce and model of care.

Completing this section may require both observation of the labour ward and a discussion with staff, e.g.: a matron-in-charge or head of obstetrics.

Please indicate below the **staffing available for the <u>delivery ward</u> alone. Please include all staff on the payroll**. Please do not count the staff only working on ANC or PNC. If staff works part-time in the maternity, try to summarise to have full-time-equivalents.

	STAFFING – LABOUR AND DELIVERY WARD ONLY					
	Staff category	Number employed (Full-time equivalent)				
1.	Obstetrician					
2.	Anaesthesiologists					
3.	Paediatrician					
4.	Medical doctors (graduated, no specialization)					
5.	Residents (medics in training)					
6.	Nurses / nurse-midwives					
7.	Distinct midwives (exclusively trained on midwifery)					
8.	Delivery assistants / auxiliary nursing staff					
9.	Cleaners / other auxiliary non-nursing staff					

	STAFFING ON SHIFTS IN LABOUR AND DELIVERY					
	Staff category	DAY SHIFT Number employed (Full- time equivalent)	NIGHT SHIFT  Number employed (Full- time equivalent)			
1.	Obstetrician					
2.	Anesthesiologists					
3.	Pediatrician					
4.	Medical doctors (graduated, no specialization)					
5.	Residents (medics in training)					
6.	Nurses / nurse-midwives					
7.	Distinct midwives (exclusively trained in midwifery)					
8.	Delivery assistants / auxiliary nursing staff					
9.	Cleaners / other auxiliary non-nursing staff					

Please indicate below the **staffing available for the <u>ANTENATAL CARE ward</u> alone. Please include all staff on the payroll**. Please do not count the staff only working on ANC or PNC. If staff works parttime in the maternity, try to summarise to have Full-time-equivalents.

	STAFFING – ANTENATAL CARE WARD ONLY					
	Staff category	Number employed (Full-time equivalent)				
1.	Obstetrician					
2.	Anesthesiologists					
3.	Pediatrician					
4.	Medical doctors (graduated, no specialization)					
5.	Residents (medics in training)					
6.	Nurses / nurse-midwives					
7.	Distinct midwives (exclusively trained on midwifery)					
8.	Delivery assistants / auxiliary nursing staff					
9.	Cleaners / other auxiliary non-nursing staff					

	STAFFING ON SHIFTS IN ANTENATAL CARE WARD					
	Staff category	DAY SHIFT  Number employed (Full- time equivalent)	NIGHT SHIFT  Number employed (Fulltime equivalent)			
1.	Obstetrician		. ,			
2.	Anesthesiologists					
3.	Pediatrician					
4.	Medical doctors (graduated, no specialization)					
5.	Residents (medics in training)					
6.	Nurses / nurse-midwives					
7.	Distinct midwives (exclusively trained in midwifery)					
8.	Delivery assistants / auxiliary nursing staff					
9.	Cleaners / other auxiliary non-nursing staff					

Please explain the on-call system: Is the doctor to perform a CS in the hospital even at night, or is s/he on-call at home? Are there other resource-persons one can call in if needed?						

**Part 3.** Protocols and guidelines for managing clinical care during labour and childbirth.

Please list the protocols available and in use in this hospital. Please indicate if the head of maternity indicates the presence. If so ask about the type of guidelines (national standard guidelines e.g by MoH or professional organisation) and if the guideline is physically available, e.g in a folder or displayed at the wall.

S. No	List of Protocols	Present 1. Yes 2. No	Type 1. National Standards 2. Hospital Specified	Displayed Yes No
1.	Partograph use / fetal monitoring	20	2	
2.	Active Management of Third Stage of labor			
3.	Postpartum haemorrhage management			
4.	Blood transfusion			
5.	Pre-term labor			
6.	Induction / augmentation of labour			
7.	Antenatal steroids			
8.	Obstructed labour			
9.	Previous CS (trial of labour)			

Completing this section may require both observation of the labour ward (e.g.: posters or signs) and
a discussion with staff, e.g.: a matron-in-charge or head of obstetrics. If possible, make a photo if
there are guidelines on the wall.
Could you describe how any clinical protocols or guidelines for managing routine or complicated
<u>labour and childbirth</u> care were developed or adapted, and updated? Is there a team in the hospital
taking care of this? Can you explain how are these clinical protocols/guidelines used?

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# Continuous education and quality improvement

Specify for trainings provided in the last 1 year

List of training provided	Type 1. National Standard training 2. Hospital Specified	Was the training provided to 1. All providers 2. Only doctors 3. Only nurse-midwives
Partograph use / fetal monitoring		3. Only nuise-interview
Active Management of Third Stage of labour		
Postpartum haemorrhage management		
Blood transfusion		
Pre-term labor /		
Introduction / augmentation of labour		
Antenatal steroids		
Obstructed labour		
Previous CS (trial of labour)		

Could you please describe other quality improvement activities ongoing in this facility. How are nurses and doctors informed about new knowledge and guidelines? Do you need to go regularly to refresh knowledge to workshops or trainings?
Do you do on-the-job training / mentoring of younger colleagues? Is there a system of supervision? Is there a system to discuss difficult cases, e.g. during a morning report? Do you do audits of cases?
Please explain how informed consent is obtained for caesarean section (oral, written, included in medical record, etc).

# Part 4. Assessment of facility medical records and data management systems

Please review individual medical records to assess the information currently collected related to key obstetric variables at an <u>individual level</u>. Please also review any facility-level register, log book or other records to assess information currently collected related to key obstetric variables at a <u>facility level</u>. It may be helpful to discuss the medical and facility records with the staff, e.g.: a matron-in-charge or head of obstetrics. Collecting this information will help to inform the implementation of the Robson classification system, e.g.: to identify what data is already routinely collected, and what data may need to be added to routine data collection.

Please explain which information is used. Description of other information routinely collected about caesarean section (e.g. provider, morbidity)
There are typically two different places for documentation a) facility-level register, log book, or other records collating key obstetric variables and b) case notes/patient records. Now first we like to have information on the first type:
Please describe the description of any <u>facility-level</u> register, log book, or other records collating key obstetric variables at the <u>facility-level</u> . Please include whether this register is paper-based or electronic, when it is updated, when and how information is summarised and how often it is reported. Please take a photo (covering patient names).
Who is responsible for completing the <u>facility-level</u> register?

How often is the <u>facility-level</u> register updated and summaries are prepared?	
How is the information about <u>facility-level</u> key obstetric variables and outcomes currently integrated into audit and feedback?	
Description of the consistency of reporting for these indicators (e.g.: consistently reported across all records reviewed, some data missing – be specific).	
Who is present during audit and feedback sessions, and who leads the sessions?	

Description of the health facility's "decision-to-incision" time to perform a caesarean section. If not available, please specify.
Now concerning the second type of records: case notes/medical records: Please describe the
medical record structure (e.g. electronic or paper), and who keeps the records (e.g. woman or provider)? Is there a standard form? Is the WHO partograph used? Are the data used for audits and feedback?
Is there any regular feedback of these reports to the providers? If so, how often and in what format?

Review of medical records to assess if key obstetric variables needed for Robson classification are correctly and consistently reported <u>at an individual level</u>. For each variable, please (1) ask the administrator how it is reported, and (2) observe a subset of records to assess how variable is actually reported (e.g. 5-10 medical records).

Parity		
Administrator response	Observation of records	

Previous caes	arean section
Administrator response	Observation of records
Onset of labour (spontaneous induced	no labour/pre-labour caesarean section)
Administrator response	Observation of records
Contational and Immediates of	27
	37 weeks, term <u>&gt;</u> 37 weeks)
Administrator response	Observation of records
	ephalic, breech, transverse)
Administrator response	Observation of records
	<u> </u>
	singleton, multiple)
Administrator response	Observation of records
Who is responsible for completing the individual-le	evel medical records? Does anyone else check for
consistent and correct reporting?	
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Based on the observations and record assessment, what would you consider to be the most appropriate method of implementation of the Robson classification system (manually, using a spreadsheet or automatic calculator, or via electronic records)? Please explain.
[Ask the administrator] What type of person would be the most appropriate facility-level champion to implement the Robson classification system, and why? [e.g.: type of provider, what skills this person would have]
[Ask the administrator] Who is the best person to <u>record</u> data for Robson classification, and why?
[Ask the administrator] Who is the best person to <u>analyse</u> data for Robson classification, and why?

Day-time

Night-time

[Ask the administrator] Who is the best person to <u>report and present</u> data for Robson classification, and why?	
Part 5. Understanding of labour companionship in practice	
Completing this section may require both observation of the e.g.: a matron-in-charge or head of obstetrics. If companion facility, please specify below.	
Description of who is currently allowed to act as a companion	on for the woman
Description of for what periods of time companionship is of during labour but not childbirth, only at childbirth)	fered (e.g.: from admission to discharge,
Please detail at what stages / and time of the day compan	ions are allowed:
Labour / first stage	Yes / no
Delivery / second stage	Yes / no
Immediate postpartum period (first hour or two)	Yes / no
Postnatal ward	Yes / no

Yes / no

Yes / no

Description of the roles that companions usually undertake (e.g.: emotional support, providing food/water/tea to the woman, supporting staff)
Tood/water/tea to the woman, supporting starry
Description of how staff currently interact with companions
Existence and content of any orientation materials, protocols, or guidelines related to how staff should work with companions, or on the role of companions. If no materials exist, please state this.
Any other feedback, observations or reflections