Additional file 1. 166 Indicators included for each general domain and speciality domain

Domain	Indicator	1 – considered available	0 – considered unavailable
Human	At least five medical specialists	- 5 or more specialists	- Less than 5 specialists
esources for	At least one surgeon	- 1 or more	- Less than 1
health (6)	At least one internist	- 1 or more	- Less than 1
	At least one paediatrician	- 1 or more	- Less than 1
	At least one obstetrician-gynaecologist	- 1 or more	- Less than 1
	At least one anaesthesiologist	- 1 or more	- Less than 1
ab test (31)	HIV rapid test	- Observed, at least one not	- Not observed, reported
` ,	<u>'</u>	expired	available but not seen
		·	- Not observed, never available
	Syphilis rapid test	- Observed, at least one not	- Not observed, reported
		expired	available but not seen
		·	- Not observed, never available
	Urine rapid test for pregnancy	- Observed, at least one not	- Not observed, reported
		expired	available but not seen
			- Not observed, never available
	Urine dipstick 3	- Observed, at least one not	- Not observed, reported
		expired	available but not seen
			- Not observed, never available
	Haemoglobin A1c rapid test	- Observed, at least one not	- Not observed, reported
		expired	available but not seen
			- Not observed, never available
	Colorimeter or haemoglobinometer	- Observed, functional/valid	- Reported (not seen),
	_		functional/valid
			- Not available today
	Glucometer	- Observed, functional/valid	- Reported (not seen),
			functional/valid
			- Not available today
	Glucometer test strips/discs	- Observed, functional/valid	- Reported (not seen),
	·		functional/valid
			- Not available today
	Any blood chemistry test	- Yes, onsite	- No, never available
	Renal function test	- Yes, observed, functional/valid	- No, not available today
	Other tests for bilirubin	- Yes, onsite	- Yes, offsite (specimen sent)
		,	- No, never available
	ABO blood grouping testing	- Yes, onsite	- Yes, offsite (specimen sent)
	The street group ing teaming		- No, never available
	Rhesus blood grouping testing	- Yes, onsite	- Yes, offsite (specimen sent)
	g		- No, never available
	Cross-match testing	- Yes, onsite	- Yes, offsite (specimen sent)
	or oos materi testing		- No, not available today
	Onsite PCR for HIV viral load or HIV early-infant	- Yes, onsite	- Yes, offsite (specimen sent)
	diagnosis	163, 0113166	- Yes, not fucntional/not valid
	alagnosis		- No, not available today
	Xpert MTB/RIF rapid diagnostic testing for TB	- Yes, onsite	- Yes, offsite (specimen sent)
	Apert Wildy Kii Tapia diagnostic testing for Tb	163, 0113166	- No, not available today
	Urine microscopy	- Yes, observed, functional/valid	- No, not available today
	Malaria smears	- Yes, observed, functional/valid	- No, not available today
	Microscopy test CSF body fluid counts	- Yes, onsite	- Yes, offsite (specimen sent)
	which oscopy test CSF body hald counts	- 165, 0113116	- Yes, offsite (specimen sent) - No, never available
	Cryptococcal anticon tecting	Voc. onsite	
	Cryptococcal antigen testing	- Yes, onsite	- Yes, offsite (specimen sent)
	Cram stain tasting	Voc. ansita	- No, never available
	Gram stain testing	- Yes, onsite	- Yes, offsite (specimen sent)
	College and a matter that	V	- No, never available
	Culture and sensitivity test	- Yes, onsite	- Yes, offsite (specimen sent)
	Disada da	V	- No, never available
	Blood cultures test	- Yes, onsite	- Yes, offsite (specimen sent)
	<u></u>	<u> </u>	- No, never available
	Fine needle aspiration cytology	- Perform in facility	- Refer for test
			- Not used
	Core needle biopsy of lump specimen	- Perform in facility	- Refer for test
			- Not used
	Prostate Specific Antigen (PSA) Testing	- Perform in facility	- Refer for test
			- Not used
	Blood gas measurement	- Yes, onsite	- Yes, offsite (specimen sent)

			- No, never available
	Cardiac marker (CK, Troponin) test	- Yes, onsite	- Yes, offsite (specimen sent) - No, never available
	PAP smear read in facility	- Yes, read in facility	- Yes, read outside facility - No - 0 PAP smears were conducted
			with results recorded during the past 12 completed months
	VIA/VILLI read in facility	- Yes, read in facility	- Yes, read outside facility - No - 0 VIA/VILLI were conducted with results recorded during the past 12 completed months
	Prepare and examine tissues or samples for cancer	- Yes	- No
Oxygen and respiratory support (10)	Surgery oxygen equipment functioning - Oxygen tank/cylinder with attached pressure gauge, pressure regulator	- Yes	- No - Don't know
	Maternity paediatric-sized oxygen delivery apparatus functioning	- Yes	- No
	Outpatient pulse oximeter functioning	- Yes	- No
	Maternity pulse oximeter functioning	- Yes	- No
	Paediatrics/neonatal oxygen functioning	- Yes	- No
	Emergency pulse oximeter functioning	- Yes	- No
	Ventilator available	- Yes, available now	- No
	Chest tubes available	- Observed, at least one not	- Not observed, not available
	Criest tubes available	expired	today - Not observed, not available today - Not observed, never available
	Adult CPAP equipment available	- Observed, at least one not expired	Observed, available but expired Not observed, reported available but not seen Not observed, not available today Not observed, never available
	Emergency paediatrics and neonatal CPAP available	- Observed	- Reported, not seen - Not available
General	ECG offered	- Yes	- No
equipment (8)	ECG equipment functioning	- Yes equipment available and functioning	- No equipment not available or not functioning
	Ultrasound offered	- Yes	- No
	Ultrasound equipment functioning	- Yes equipment available and functioning	- No equipment not available or not functioning
	X-ray offered	- Yes	- No
	X-ray equipment functioning	- Yes equipment available and functioning	- No equipment not available or not functioning
	CT scan offered	- Yes	- No
	CT scan equipment functioning	- Yes equipment available and functioning	- No equipment not available or not functioning
24 7 (8)	Emergency service with structured triage tool 24/7	- 24-hour emergency service	- 10 hours - No structured triage tool
	Medical officer onsite or oncall in facility 24/7	MO or Emergency practitioner always available, onsite MO or Emergency practitioner always available, not onsite but oncall in facility	MO or Emergency practitioner always available, not in facility Staff not available 24 hours
	Formal triage tool used 24/7	- Yes	- No
	Emergency surgery and anaesthesia 24/7	- 24-hour emergency service	- 0, 2 or 8 hours
	Emergency radiology 24/7	- 24-hour emergency service	- 0, 5, 9, 10, 12 hours
	Emergency diagnostics 24/7	- 24-hour emergency service	- 0, 7, 10, 12 hours
	Emergency pharmacy 24/7	- 24-hour emergency service	- 8, 9, 10, 12, 15 hours - No dedicated pharmacy in facility
	Blood transfusion	- Yes available now	- No
IPC (9)		- Yes, observed	- Reported not seen
IPC (9)	Facility has IPC guideline	165, 6556. Ved	- No
IPC (9)	Facility has IPC guideline Technical IPC committee	- Yes	

	Guidelines for cleaning	- Yes, observed	- Reported not seen
	Stop by stop tochniques for sere-ific to-li-	Voc	- No
	Step-by-step techniques for specific tasks	- Yes	- No
	Cleaning roster or schedule specifying responsibility	- Yes	- No
	Cleaning beds observed	- Yes	- No
	Cleaning counters/tables observed	- Yes	- No
	Cleaning toilets observed	- Yes	- No
Quality and	Monthly quality assurance committee meeting	- Monthly	- Quarterly
safety (24)		,	- Biannually
	Documentation of quality assurance	- Yes, documentation observed	- Yes, documentation reported
	information reviewed		not seen
	Ongoing quality improvement using Plan-Do-	- Yes, service-specific	- No
	Check-Study-Act approach	- Yes, across facility	
	Multi-disciplinary quality improvement team	- Yes	- No
	Departmental specific work improvement teams	- Yes	- No
	Documentation of improvement achieved as a	- Yes, documentation observed	- Yes, documentation reported
	result of quality improvement process		not seen
			- No
	Kenya Quality Model for Health completed in	- 2017	- 2014
	2017 or 2018	- 2018	- 2016
	 		- Don't know
	Formal case reviews carried out at least	- At least weekly	- At least quarterly
	monthly	- At least monthly	- No specific timing
	Death reviews results recorded	- Yes	- No
	Guidelines of events that are considered	- Yes, documentation observed	- Yes, documentation reported
	adverse and required to be reported		not seen
			- No
	Notes or reports that show evidence of review	- Yes, documentation observed	- Yes, documentation reported
	and plan of action for the reports about		not seen
	adverse events		- No
	Written guidelines that define nosocomial	- Yes, observed	- Reported not seen
	infections and the process for reporting	,	- No
	Report or record shows nosocomial infections	- Yes, observed	- Reported not seen
	reported over the past 6 months		- No
	Written policies and procedures for identifying	- Yes, observed	- Reported not seen
	and managing drug-use problems		- No
	Surgery related mortality and morbidity review	- At least weekly	- At least quarterly
	meetings at least monthly	- At least monthly	- No specific timing
	meetings at least monthly	Acted at monthly	- None conducted
	Surgery related mortality and morbidity review	- Yes, observed	- Reported not seen
	meeting results recorded	- 1es, observed	- No
	Written guidelines or instructions for reporting	Vas absorved	
		- Yes, observed	- Reported not seen
	on adverse events related to surgery		- No
			- Don't know
	Notes or reports that show evidence of review	- Yes, documentation observed	- Yes, documentation reported
	and plan of action for the surgery reports		not seen
			- No
	Guidelines of postoperative infection definition	- Yes, documentation observed	- Yes, documentation reported
			not seen
			- No
	Notes or reports that show evidence of review	- Yes, documentation observed	- Yes, documentation reported
	and plan of action for the reports about		not seen
	postoperative infection		- No
	Indicator on deaths prior to discharge among	- Yes	- No
	patients who had a procedure in a surgical		
	theater monitored		
	Indicator on deaths prior to discharge among <	- Yes	- No
	15 year old patients who had a procedure in a		
	surgical theater monitored		
	Indicator on post-operative surgical wound	- Yes	- No
	infection numbers monitored	1.03	1.0
	Facility monitor unplanned and unexpected	- Yes	- No
	hospital readmissions for any conditions	- 163	- 110
Surgor:		Voc	No
Surgery equipment and	Basic operating table functioning	- Yes	- No
	Overhead operating light functioning	- Yes	- No
medication (8)	Cardiac monitor functioning	- Yes	- No

			- Don't know
	EKG electrodes functioning	- Yes	- No
	EKG electrodes functioning	- 163	- Don't know
	Thermometer functioning	- Yes	- No
	The moneta random by		- Don't know
	Blood pressure apparatus functioning	- Yes	- No
	Suction apparatus functioning	- Yes	- No
	Anaesthesia machine available	- Yes available now	- No
Surgery service	Wound debridement service available	- Yes, outpatient	- No
(12)		- Yes, inpatient	
		- Yes both out and inpatient	
	Acute burn management service available	- Yes, outpatient	- No
		- Yes, inpatient	
	Classed associated for the second sec	- Yes both out and inpatient	N
	Closed repair of fracture service available	- Yes, outpatient - Yes, inpatient	- No
		- Yes both out and inpatient	
	Closed reduction of dislocated joint service	- Yes, outpatient	- No
	available	- Yes, inpatient	
		- Yes both out and inpatient	
	Cricothyroidotomy service available	- Yes, outpatient	- No
		- Yes, inpatient	
		- Yes both out and inpatient	
	Male circumcision service available	- Yes, outpatient	- No
		Yes, inpatientYes both out and inpatient	
	Hydrocele reduction service available	- Yes, outpatient	- No
	Tryaroccie reduction service available	- Yes, inpatient	110
		- Yes both out and inpatient	
	Biopsy of lymph node or mass service available	- Yes, outpatient	- No
		- Yes, inpatient	
		- Yes both out and inpatient	
	Appendectomy service available	- Yes, outpatient	- No
		- Yes, inpatient	
	Harnia ranair carvina available	- Yes both out and inpatient	- No
	Hernia repair service available	- Yes, outpatient - Yes, inpatient	- NO
		- Yes both out and inpatient	
	Open reduction and fixation service available	- Yes, outpatient	- No
	·	- Yes, inpatient	
		- Yes both out and inpatient	
	Any procedures using laparotomy service	- Yes, outpatient	- No
	available	- Yes, inpatient	
		- Yes both out and inpatient	
Internal	Defibrillator available	- Yes, available now	- No
medicine equipment and	Renal dialysis/haemodialysis machine available	- Yes, available now	- Yes, not available now
medication (3)	Lumbar puncture kit available	- Observed, at least one not	- No - Observed, available but expired
medication (5)	Lumbai puncture kit available	expired	- Not observed, reported
		Схриса	available but not seen
			- Not observed, not available
			today
			- Not observed, never available
Internal	ART prescription and follow-up for U5 children	- Yes, ART prescription and	- Yes, ART prescription, no
medicine	service available	clinical follow-up	clinical follow-up
service (10)			- Yes, clinical follow-up, no ART prescription
	HIV/AIDS care and support service available	- Yes	- No
	Diagnose and/or manage diabetes available	- Yes	- No
	Diagnose and/or manage acute myocardial	- Diagnose, treat and patient	- Patient follow-up only
	infraction available	follow-up	- No service/refer suspect case
	Diagnose and/or manage chronic respiratory	- Yes	- No
	disease available		
	Diagnose and/or manage chronic kidney	- Yes	- No
	disease available		
	Screening, diagnosis and/or treatment services for breast cancer available	- Yes	- No

	Screening, diagnosis and/or treatment services for colorectal cancer available	- Yes	- No
	Screening, diagnosis and/or treatment services for prostate cancer available	- Yes	- No
	Palliative care service available	- Yes	- No
Paediatrics	Phototherapy machine available	- Yes, available now	- No
equipment and medication (8)	Infant incubator available at outpatient	- Yes, available now	- Yes, not available now - No
	Bed or location for KMC caregiver overnight	- Yes, observed	- Reported, not seen - No
	Exchange transfusion blood available today	- Yes	- No
	Incubator available today	- Yes	- No
	Radiant warmer available today	- Yes	- No
	Artificial ventilation available today	- Yes	- No
	Device for intraosseous access available	- Observed, at least one not expired	Observed, available but expired Not observed, reported available but not seen Not observed, not available today Not observed, never available
Paediatrics	KMC for premature or LBW used	- Yes	- No
service (3)	Newborn sepsis service available	- Yes	- No
	Newborn sepsis full antibiotics regimen and	- Yes always	- Yes sometimes
	follow-up always available		- Never
OBGYN	Blood pressure apparatus functioning	- Yes	- No
equipment and medication (10)	Infant scale (with 100 gram gradation) functioning	- Yes	- Don't know
	Resuscitation table (with heat source) functioning	- Yes	- No
	Self-inflating bag and mask for resuscitation functioning	- Yes	- No
	Newborn bag and mask size 0 for resuscitation of pre-term babies functioning	- Yes	- No
	Newborn bag and mask size 1 for resuscitation of term babies functioning	- Yes	- No
	Magnesium sulphate injection available	 Observed, at least one not expired 	 Not observed, not available today
	Dexamethasone injection available	 Observed, at least one not expired 	 Not observed, not available today Not observed, never available
	Misoprostol tablet 200 mcg available	- Observed, at least one not expired	Not observed, not available today Not observed, never available
	Oxytocin injection available	- Observed, at least one not expired	Not observed, not available today Not observed, never available
OBGYN service (10)	Active management of third stage labour (AMTSL) service available	- Yes	- No
	Monitoring and management of labor using a partograph service available	- Yes	- No
	Hygienic cord care service available	- Yes	- No
	Parenteral administration of antibiotics carried out	- Yes	- No
	Parenteral administration of oxytocic for treatment of postpartum haemorrhage carried out	- Yes	- No
	Assisted vaginal delivery using manual vacuum extraction (MVE) or forceps carried out	- Yes	No, service not offeredNo, trained staff but no cases
	Manual removal of placenta carried out	- Yes	- No
	Removal of retained products of conception using D&C or manual vacuum aspiration	- Yes	- No, service not offered
	carried out PMTCT available	- Yes	- No
	Treatment of pre-invasive cervical cancer available	- Yes	- No
Mental health /	Any mental/neurological services offered	- Yes, inpatient only	- Not offered
neurology (6)	Mental health inpatient ward available	- Yes, inpatient only	- Not offered

Neurological health inpatient ward available	- Yes, inpatient only	- Not offered
Depression diagnosis and follow-up available	- Diagnoses and provides patient	- Diagnoses only
	follow-up	- Provides patient follow-up only
		- No
Psychosis diagnosis and follow-up available	- Diagnoses and provides patient	- Diagnoses only
	follow-up	- Provides patient follow-up only
		- No
Epilepsy diagnosis and follow-up available	- Diagnoses and provides patient	- Diagnoses only
	follow-up	- Provides patient follow-up only
		- No