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| **GENERAL QUESTIONS** | | |
|  | State: | |
| Name of health care facility: | |
| Address of health care facility: | |
| Phone number of health care facility: | |
| Date of data collection (dd/mm/yyyy): | |
| Name, professional title, and contact information of key hospital staff filling out form: | |
| Name, professional title, and contact information of NSOAP member completing form: | |
| What level facility is being evaluated? | District/Rural Hospital  General/Provincial/Secondary Hospital  Tertiary/Teaching Hospital  National Hospital |
| What type of hospital is being evaluated? | Public Private NGO Mission Other |

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| **INFRASTRUCTURE** | | |
| General Infrastructure | | |
|  | How often is electricity/operational power generator available? | 0 (Never) 1-25% (Rarely) 26-50% (Sometimes) 51-75% (Often)  76-99% (Almost always) 100% (Always) |
| How often is running water available? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often is internet available? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often is oxygen available? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| What is the total number of admissions in a year? | # |
| What is the total number of outpatients seen in a year? | # |
| How many total hospital beds are there? | # |
| How many beds are designated for surgical patients? | # |
| How many post-op recovery beds are there? (0 for none) | # |
| How many advanced care/ICU beds are there? | # |
| How many neonatal ICU beds are there? | # |
| How many functional ventilators are available in the ICU? | # |
| Operating Room | | |
|  | How many functioning operating rooms are there? | # |
| How often is pulse oximetry used in the operating room? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often is inhalational general anaesthesia available? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often is IV sedation anaesthesia (Ketamine, Midazolam, Propofol etc.) available? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often is spinal anaesthesia available? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often is regional anaesthesia available? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Operating Room Equipment | | |
|  | How many functional anaesthesia machines are available in the ORs? | # |
| Operating Room Supplies – How often are the following equipment accessible for surgery? | | |
|  | Adult oropharyngeal airway | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Paediatric oropharyngeal airway | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Adult endotracheal tube | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Paediatric endotracheal tube | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Adult laryngoscope | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Paediatric laryngoscope | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Adult facemask bag valve | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Paediatric facemask bag valve | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Adult Magill forceps | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Paediatric Magill forceps | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Blood pressure measuring equipment | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Pulse oximeter | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Stethoscope | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Suction apparatus | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Thermometer | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Nasogastric Tube | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Light source | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Chest tube | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Electrocautery | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Sterilizer | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Forceps | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Syringes with needles | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Scalpel | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Scissors | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Needle holder | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Retractor | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Sterile gloves | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Urinary catheters | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Tourniquet | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Face masks | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Gowns | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Disinfectant hand wash | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Sterilizing skin prep | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Eye protection | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Sharps disposal container | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Non-sterile Examination Gloves | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Sutures | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Pharmacy | | |
|  | How often are narcotics available post-operatively? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often are antibiotics available for surgery? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often are IV fluids available for surgery? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often are paralytics available for surgery? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often are sedatives available for surgery? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often is epinephrine available for surgery? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
|  | How often are other vasopressors (besides epinephrine) available for surgery? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Radiology | | |
|  | How often do you have 24-hour access to radiology imaging services? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often do you have access to a functioning X-ray machine? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often do you have access to a functioning ultrasound? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often do you have access to a functioning CT scanner? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often do you have access to a functioning MRI scanner? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Blood Supply | | |
|  | How often are you able to administer a blood transfusion within 2 hours in your facility? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Laboratory | | |
|  | How often is the lab able to run a Complete Blood Count (haemoglobin, haematocrit, WBC, platelets)? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often is the lab able to run a chemistry panel (BUN, creatinine, Na, K, etc.)? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often is the lab able to run coagulation studies (PT, PTT, BT, INR)? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often is the lab able to do a urinalysis? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often are you able to screen for an infectious panel (HIV, hepatitis)? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| Access and referral systems | | |
|  | What is the population served by this facility? | # |
| What percentage of your patients can reach the hospital within 2 hours of travel? | 0 (None) 1-25% 26-50% 51-75% 76-99% 100% (All) |
| What is the number of patients that you refer for surgical intervention to a higher level facility per year | # |

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| **SERVICE DELIVERY** | | |
| Procedures - **How many of the following procedures have you done in the past 1 year?** | | |
| *Obstetrics, gynaecology, family planning* | | |
|  | Normal delivery |  |
| Caesarean birth | # |
| Vacuum extraction/forceps delivery | # |
| Ectopic pregnancy | # |
| Manual vacuum aspiration and dilation and curettage | # |
| Tubal ligation | # |
| Vasectomy | # |
| Hysterectomy for uterine rupture or intractable postpartum haemorrhage | # |
| Inspection with acetic acid, cryotherapy for cervical lesions | # |
| *General Surgery* | | |
|  | Suturing laceration |  |
| Drainage of abscess |  |
| Male circumcision |  |
| Wound debridement |  |
| Removal of foreign body (throat/eye/ear/nose) |  |
| Biopsy (lymph node, mass, other) |  |
| Repair of perforations | # |
| Appendectomy | # |
| Bowel obstruction | # |
| Colostomy | # |
| Gallbladder disease | # |
| Hernia, including incarceration | # |
| Hydrocelectomy | # |
| Relief of urinary obstruction | # |
| *Injury* | | |
|  | Management of non-displaced fractures |  |
| Resuscitation with advanced life support measures, including surgical airway | # |
| Tube thoracostomy | # |
| Trauma laparotomy | # |
| Fracture reduction | # |
| Irrigation and debridement of open fractures | # |
| Placement of external fixator | # |
| Escharotomy/fasciotomy | # |
| Amputations | # |
| Skin grafting | # |
| Burr hole | # |
| *Non-trauma orthopaedic* | | |
|  | Drainage of septic arthritis | # |
| Debridement of osteomyelitis | # |
| Paediatric Surgery (children under age 15) | | |
|  | Male circumcision | # |
|  | Herniotomy | # |
|  | Paediatric laparotomy | # |
|  | Paediatric colostomy | # |
|  | Repair of anorectal malformation and Hirschsprung’s Disease | # |
|  | Gastroschisis repair | # |
| Specialty procedures | | |
|  | Repair obstetric fistula | # |
| Repair of cleft lip and palate | # |
| Repair of club foot | # |
| Shunt for hydrocephalus | # |
| Cataract extraction and insertion of intraocular lens | # |
| Eyelid surgery for trachoma | # |
| Surgical Volume | | |
|  | What is the total number of major surgeries your hospital performed last year? | # |
| What is the total number of minor surgeries your hospital performed last year? | # |
| What is the total number of paediatric surgeries (age <15 years) your hospital performed last year? | # |
|  | What percent of cases were emergency/urgent (non-elective) cases? | % |
| Quality and Safety | | |
|  | How many peri-operative deaths did you have last year? | # |
| How often is the WHO surgical safety checklist utilized in the operating rooms? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
|  | How often does the hospital hold a mortality and morbidity conference related to surgery patients? | Never Weekly Every 2 weeks Monthly Quarterly Yearly |

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| **WORKFORCE** | | | |
| Surgeon/Anaesthesiologist/Obstetrician/Provider Density | | | |
|  | **Providers** |  |  |
| Number of consultant general surgeons | # |  |
| Number of consultant orthopaedic surgeons | # |  |
| Number of consultant pediatric surgeons | # |  |
| Number of consultant OBGYNs | # |  |
| Number of other surgeons (consultants) | # |  |
| Number of consultant anaesthesiologists | # |  |
| Number of consultant pediatric anesthesiologists | # |  |
| Number of medical officers (MD/MBBS) providing surgery | # |  |
| Number of medical officers (MD/MBBS) providing anaesthesia | # |  |
| Number of nurse anesthetists | # |  |
| Number of midwives | # |  |
| Number of consultant radiologists | # |  |
| Number of consultant pathologists | # |  |
| Number of consultant pharmacists | # |  |
| Number of qualified biomedical technicians | # |  |
| What is your typical nurse to patient ratio on the adult surgical ward during the day? | 1 nurse to < 7 patients 1 nurse to 7-10 patients 1 nurse to > 10 | |
| What is your typical nurse-to-patient ratio on the adult surgical ward at night? | 1 nurse to < 7 patients 1 nurse to 7-10 patients 1 nurse to > 10 | |
| What is your typical nurse-to-patient ratio on the labour and delivery ward during the day? | 1 nurse to < 7 patients 1 nurse to 7-10 patients 1 nurse to > 10 | |
| What is your typical nurse-to-patient ratio on the labour and delivery ward at night? | 1 nurse to < 7 patients 1 nurse to 7-10 patients 1 nurse to > 10 | |
| How often is a surgical care (including emergency surgery, anaesthesia and obstetrics) available at night or 24 hours a day? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) | |
| How often is a surgical provider available for 24 hours a day? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) | |
| How often is an obstetrics/gynaecology provider available for 24 hours a day? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) | |
| How often is an anaesthesia provider available for 24 hours a day? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) | |
| Continuing Medical Education | | | |
|  | How often do you offer continuing medical education to your staff each year? | Never Weekly Monthly Quarterly Yearly | |

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| FINANCING | | |
| Health financing and accounting | | |
|  | What percentage of your patients have health insurance? | 0 (None) 1-25% 26-50% 51-75% 76-99% 100% (All) |
| Budget Allocation | | |
|  | What is your total annual hospital budget? |  |
| How much of your annual hospital budget is allotted to surgery and anaesthesia? | 0 (None) 1-25% 26-50% 51-75% 76-99% 100% (All) |
| What is the average out-of-pocket cost for each item? | | |
|  | CBC |  |
| Chest X-ray |  |
| 1 unit of blood |  |

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| **Cost of Common Operations** | |
| **Typical cost of procedure with admission/bed stay (N)** | |
| **Adults:** |  |
| Caesarean section | N |
| Laparotomy | N |
| Open fracture repair | N |
| **Paediatrics (children <15 years)** |  |
| Herniotomy | N |
| Colostomy | N |
| Repair of anorectal malformation/Hirschsprung’s Disease | N |

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| **INFORMATION MANAGEMENT** | | |
| Information Systems | | |
|  | What is the method of record keeping in your hospital? | Electronic Paper Both None |
| Are charts accessible across multiple visits for the same patient? | Yes No |
| How often is data prospectively collected for patient outcomes, such as surgical site infection, post-op stroke, etc.? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often is data prospectively collected for post-operative mortality rate? | 0 (Never) 1-25% 26-50% 51-75% 76-99% 100% (Always) |
| How often are you required to report information to the Ministry of Health or an equivalent agency? | Never Monthly Quarterly Yearly |
| Do you use telemedicine? | Yes No |
|  | If yes, what kind? |  |
| Research Agenda | | |
|  | Is there funding at your hospital for research? | Yes No |