Annex 2D Surgical procedures required to treat the GBD 2010 causes included in the basic surgical care scale-up model

Supplemental material for: Bickler SW, Weiser TG, Kassebaum NJ, Higashi H, Chand D, et al. 2015. Global burden of surgical conditions. In: *Essential Surgery*, edited by Debas HT, Donkor P, Gawande A, Jamison DT, Kruk ME, and Mock CN. Volume 1 of *Disease Control Priorities*, third edition. Washington, DC: World Bank.

The surgical procedures were identified by reviewing Surgical Care for the District Hospital (http://www.who.int/surgery/publications/scdh_manual/en/)

Major Category	GBD 2010 Cause	Surgical procedures required to treat GBD 2010 Cause
Digestive Diseases	Appendicitis	Appendectomy Drainage of appendiceal abscess
	Gall bladder and bile duct disease	Cholecystectomy Cholecystostomy
	Hernia	Elective repair of inguinal hernia Emergency repair of strangulated inguinal hernia
	Paralytic ileus & bowel obstruction	Nasogastric decompression Exploratory laparotomy Enterolysis Small bowel resection Colostomy (loop and end) Reduction of sigmoid volvulus (operative and non-operative)
Maternal-fetal	Maternal haemorrhage	Dilation and curretage Culdocentesis Colpotomy Salpingostomy or salpingectomy for ectopic pregnancy Repair of ruptured uterus Repair of bladder injury Manual removal of placenta Repair of cervical, vaginal an perineal tears Uterine inversion Uterine and utero-ovarian artery ligation Total and sub-total hysterectomy Bimanual compression of uterus
	Obstructed labor	Assisted vaginal delivery with forceps or vacuum Caesarean section Craniotomy & craniocentesis
	Abortion	Manual vacuum aspiration
	Neonatal encephalopathy	Assisted vaginal delivery with forceps or vacuum Caesarean section

Injuries

Road injury

Other transport injury

Falls

Fire, heat and hot substances Exposure to mechanical forces Adverse effects of medical

treatment

Animal contact (non-venomous)
Unintentional injuries not
classified elsewhere
Interpersonal violence

Trauma resuscitation

Airway management (tracheostomy, orotracheal

intubation, cricothyroidotomy)

Venous Access (venous cut-down, intraosseous)

Chest drain/tube Pericardiocentesis

Burr hole

Wound management (primary closure, secondary

closure and delayed primary closure) Amputations (guillotine, definitive) Diagnostic peritoneal lavage

Laparotomy

Repair of ruptured bladder

Burr hole (cranial)

Fracture management (cast application/removal,

splint, skeletal

traction, skull traction, external fixation, fasciotomy) Burn

management (split thickness skin graft,

escharotomy)