

Supplementary File

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1. List of Collaborators, South African Paediatric Surgical Outcomes Study (SAPSOS)

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Eersterivier Hospital and Khayelitsha Hospital

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Mahatma Gandhi Memorial Hospital

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2. Definitions of Anaemia

Author	Age group	Definition of anaemia		
Faraoni D	1 - 18 years	Nathan and Oski's Hematology of Infancy and Childhood		
Goobie SM,	Neonates	Haematocrit level < 40%		
Gunawardana RH	3 months - 5 years	Hb < 10.0 g.dl ⁻¹		
WHO; 2011		Mild (g/l)	Moderate (g/l)	Severe (g/l)
	6 - 59 months	100 - 109	70 - 99	< 70
	5 - 11 years	110 - 114	80 - 109	< 80
	12 - 14 years	110 - 119	80 - 109	< 80
	Non-pregnant women (15 years of age and above)	110 - 119	80 - 109	< 80
	Pregnant women	100 - 109	70 - 99	< 70
	Men (15 years of age and above)	110 - 129	80 - 109	< 80

3. Severity of the surgery as per SAPSOS definitions

This is the category of surgery which indicates a combination of complexity and amount of tissue injury.

Minor surgery would include procedures lasting less than 30 minutes performed in a dedicated operating room which would often involve extremities or body surface or brief diagnostic and therapeutic procedures. Examples include examination under anaesthesia, cystoscopy without intervention, removal of small cutaneous tumour, biopsy of small lesions, tenotomies, interventional radiology etc.

Intermediate procedures are more prolonged or complex that may pose the risk of significant complications or tissue injury. Examples include insertion of k-wires, tonsillectomy, inguinal hernia repair, appendectomy, tendon repair of hand, cleft lip and palate repair, ventriculoperitoneal shunts, strabismus surgery etc.

Major surgical procedures are expected to last more than 90 minutes and include major abdominal surgery, cardiac surgery, thoracotomy, procedures involving free flap to repair tissue defect, amputation, craniofacial surgery, craniotomy, cystectomy, resection of liver lesions, nephrectomy, transplant surgery, spinal surgery, osteotomy etc.

4. Definitions Complications

Anaesthetic complications

1. Arrhythmia
2. Aspiration
3. Birth asphyxia
4. Bradycardia
5. Bronchospasm
6. Cardiac arrest
7. Difficult BMV
8. Difficult intubation
9. Failed intubation
10. Laryngospasm
11. Low glucose
12. Severe hypoxia
13. Severe hypotension

Surgical complications

1. AKI
2. ARDS
3. Anastomotic breakdown
4. (Cardiogenic) pulmonary oedema
5. Gastro-intestinal bleed
6. Bloodstream infection
7. Pneumonia
8. Postoperative bleed
9. PE
10. Surgical site infection (superficial)
11. Surgical site infection (deep)
12. Surgical site infection (body cavity)
13. Urinary tract infection