

ANESTHESIA CHEAT SHEET

AIRWAY CLASSIFICATION

- Mallampati Classification:**
- Class 1: Visualize the soft palate, fauces, uvula, anterior and posterior tonsillar pillars
 - Class 2: Visualize the soft palate, fauces, & uvula only
 - Class 3: Only the soft palate and base of the uvula are visible
 - Class 4: Only the soft palate can be seen
- Laryngoscopic View Grades:**
- Grade 1: Full view of entire glottis opening
 - Grade 2: Posterior portion of the glottis opening is visible
 - Grade 3: Only the epiglottis is visible
 - Grade 4: Only the soft palate is visible

ASA CLASSIFICATIONS

- 1- Normal healthy patient
2- Mild systemic disease (2 functional limitations)
3- Severe systemic disease (some functional limitation)
4- Severe systemic disease w/ constant threat to life
5- Moribund patient who is not expected to survive without surgery
6- Brain dead patient whose organs are being removed for donation

NORMAL BLOOD GAS VALUES

pH: 7.35-7.45
pCO₂: 35-45 mmHg
pO₂: 80-100 mmHg
HCO₃: 22-26 mEq/L
BE: -2 to +2
SaO₂: 95-98%

RESPIRATORY FORMULAS

VO₂: 10 x kg/min
VO₂: 8 x kg/min
Alveolar Air Equation
P(AO₂) = (P_i - PH₂O) - PaCO₂/0.8
Arterial O₂ Content/100 ml bld
(mgb x 1.34 x SaO₂) + (PaO₂ x 0.003)

BLOOD LOSS MANAGEMENT

- Estimated Blood Volume (EBV):
- Premature Infant: 85 ml/kg
 - Full-term Infant: 85 ml/kg
 - Infant to 12 mo: 80 ml/kg
 - Adult/Child male: 75 ml/kg
 - Adult/Child female: 65 ml/kg
 - Morbid Obese: 60 ml/kg (BMI > 40)
 - Available Blood Loss (ABL):
- EBV x Hct_{initial} - [EBV x Hct_{current}] = ABL
- Fluid Replacement Equivalent:
- Crystalloid: 3 ml/1 ml EBL
 - Colloid: 1 ml/1 ml EBL
 - Whole Bld: 1 ml/1 ml EBL
 - Packed RBC: 3 ml/1 ml EBL
 - PRBC Hct = 70%
- Fully soaked Aa = 30 ml blood
Fully soaked "sag" = 100-150 ml blood

FLUID MAINTENANCE REQUIREMENTS

- 4 ml/kg/hr for first 10 kg
2 ml/kg/hr for next 10 kg
1 ml/kg/hr for each kg > 20 kg
- WATER DEFICIT**
- Main rule x hours H₂O
- EVAPORATIVE LOSSES**
- Minimal = 0-2 ml/kg/hr
Moderate = 2-4 ml/kg/hr
Severe = 4-8 ml/kg/hr

BMI

- 25-25 Healthy
>25 Overweight
28 Onset Wt related disease
>30 Obese
35-40 Morbid Obesity
>50 Super Morbid Obesity
- Wt in kg/ht in m²
Ht in cm-100-kilg men
Ht in cm-105-kilg women

TIER 1 RESCUE DRUGS

Drug	Dose	Supply
Hypotension		
Ephedrine 5% + 10	5 mg	10 mg/ml
Neosynephrine 10	100 mcg	10 mg/ml
Hypertension		
Labetalol 10	5 mg	5 mg/ml
Esmolol 0.5	10 mg	
Hydralazine 10mg	5 mg	20 mg/ml

LAB TEST	NORMAL RANGE	LAB TEST	NORMAL RANGE
Hct	Female 37-47% Male 42-52% (F/F)	PT	11-14 sec
Hgb	Female 12-16 g/dL Male 13.5-16.5 g/dL	INR	1.0
WBC	4,500 - 11,000/mm ³	PTT	20-35 sec
PLT	100,000-400,000/mm ³	APTT	25-35 sec
Cl _{cre}	1.0-1.3 ml/min/1.73m ²	TPA	100-200 mg
Cr _{ser}	0.6-1.2 mg/dL	PT/INR	1.0-1.5
Urea N	10-20 mg/dL	TPA	100-200 mg
Glucose	70-100 mg/dL	TPA	100-200 mg
BUN	10-20 mg/dL	TPA	100-200 mg
Ca	8.5-10.5 mg/dL	TPA	100-200 mg
Ca ²⁺	1.0-1.3 mmol/L	TPA	100-200 mg
Phosphorus	2.5-3.5 mg/dL	TPA	100-200 mg
Albumin	3.5-5.0 g/dL	TPA	100-200 mg

MALIGNANT HYPERTHERMIA

- Triggers: Halothane, Enflurane, Isoflurane, Sevoflurane, Desflurane, Succinylcholine
- Signs of Onset: Tachycardia, Tachypnea, ↑ EtCO₂, Skin Mording, Arrhythmias, ↑ Body Temp, Unstable BP, Cola-colored urine, Muscle Rigidity, Masseter Spasm
- Treatment:
1. Stop triggering agent immediately
 2. Hyperventilate with 100% O₂ at high flow
 3. Administer Dantrolene 2.5 mg/kg IV
Repeat Q 5-10 min until symptoms controlled
Max dose 10mg/kg
 4. Correct metabolic acidosis
 5. Correct hyperkalemia
 6. Actively cool patient
 7. Check labs Q 15 min until stable
 8. Maintain urine output > 2 ml/kg/hr with hydration, Mannitol, or Lasix

PEDIETT SIZES

Age & Wt	Size
Preemies < 1 kg	2.5
Preemies 1-2.5 kg	3.0
Term neonate < 6 mo	5.0-5.5
6 mo-1 yr	5.5-6.0
1-2 yrs	6.0-6.5
3-5 yrs	6.5-7.0
Tube Depth	Age/2 + 12

PEDIEMA SIZES

Size	Weight	Max cuff vol (ml)
1	1-5 kg	up to 4 ml (air)
2	5-10 kg	up to 7 ml
3	10-20 kg	up to 10 ml
4	20-30 kg	up to 14 ml
5	30-40 kg	up to 20 ml
6	Adult	up to 30 ml

Dedicated to the Class of 2012

By: Debra Maloy • Jeff Carroll • Amanjit Dhaliwal • Yvonne Murphy • Shana Thompson

Drug	Dose	Onset	Duration
Diazepam	0.1 mg/kg IV, 0.2 mg/kg PO	1-5 min	2-5 hr
Lorazepam	0.05 mg/kg	1-5 min	6-8 hr
Midazolam	0.05 mg/kg	1-5 min	15-30 min
Flumazenil	0.1 mg (Repeat 0.1 q 1 min, max 3mg)	1-5 min	30 min

Drug	Dose	Onset	Duration
Morphine	0.1 mg/kg	1-5 min	4-5 hr
Fentanyl	1-5 µg/kg	sec	1-1.5 hr
Sufentanil	0.5-1 µg/kg	sec	1-1.5 hr
Remifentanyl	1-2 µg/kg	sec	1-1.5 hr
Meperidine	1-2 mg/kg	1-5 min	2-4 hr
Hydromorphone	1-5 mg/kg	1-5 min	2-4 hr
Naloxone	40-80 mcg	1-5 min	30 min

Drug	Dose	Onset	Duration
Propofol	2 mg/kg	1-5 min	1-8 min
Esmolol	0.5 mg/kg	1 min	1 min
Ketamine	1.5 mg/kg	1 min	10-20 min
Etomidate	0.1 mg/kg	1 min	10-20 min

Drug	Dose	Onset	Duration
Sevoflurane	2	1-5 min	10-15 min
Desflurane	6	1-5 min	10-15 min
Isflurane	1.5	1-5 min	10-15 min
Nitrous Oxide	100	1-5 min	10-15 min

Drug	Dose	Onset	Duration
Succinylcholine	1.5	1-5 min	10-15 min
Cisatracurium (Nimbex)	0.1	1-5 min	10-15 min
Vecuronium (Norcuron)	0.1	1-5 min	10-15 min
Rocuronium (Zemuron)	0.5 (1.2)	1-5 min	10-15 min
Pancuronium (Pavulon)	0.1	1-5 min	10-15 min

Drug	Dose	Onset	Duration
Neostigmine	0.04-0.07 mg/kg	1-5 min	10-15 min
Edrophonium	0.5-1.0 mg/kg	1-5 min	10-15 min

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Drug	Dose	Onset	Duration
Amide			
Etomidate	0.1-0.2 mg/kg	1-5 min	10-15 min
Lidocaine	1-2 mg/kg	1-5 min	10-15 min
Propofol	2 mg/kg	1-5 min	10-15 min
Sevoflurane	2	1-5 min	10-15 min
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Anesthesia Drug Cheat Sheet

ML Morrison

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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