

## 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 aryepiglottic is visible
- Grade 4: Only the soft palate is visible

## ASA CLASSIFICATIONS

- I-Normal healthy patient
- II-Mild systemic disease (if functional limitation)
- III-Severe systemic disease (if functional limitation)
- IV-Severe systemic disease w/ constant threat to life
- V-Moribund patient who is not expected to survive without surgery
- VI-Dead patient whose organs are being removed for donation

## NORMAL BLOOD GAS VALUES

pH = 7.35-7.45  
 $\text{PaCO}_2$  = 35-45  
 $\text{PaO}_2$  = 80-100  
 $\text{HCO}_3^-$  = 22-26  
 $\text{Hb}$  = 12-16 g/dL  
 $\text{SaO}_2$  = 95-98%

## RESPIRATORY FORMULAS

$\text{VO}_2$  in L/min =  $\frac{\text{CO} \times (\text{SaO}_2 - \text{SvO}_2)}{100}$   
 $\text{Alveolar Air Equation}$   
 $\text{PACO}_2 = \text{PiO}_2 - \text{PaO}_2 / 0.8$   
 $\text{Arterial O}_2 \text{ Content (ml/dL)}$   
 $\text{SaO}_2 = 1.34 \times \text{Hb} \times \text{SaO}_2 + 0.003 \times \text{PaO}_2$

HEMODYNAMICS	NORMAL RANGE
MAP	70-105 mmHg
CO	4-8 L/min
CI	2.5-4 L/min/m <sup>2</sup>
CVP	2-6 mmHg
PCWP	8-12 mmHg
PIV	30-350 dynes/cm <sup>2</sup> /sec <sup>2</sup>
SVR	700-1400 dynes/cm <sup>2</sup> /sec <sup>2</sup>
BP	90-120/60
PAP	15-30/10-15/10-25

## BLOOD LOSS MANAGEMENT

### Estimated Blood Volume (EBV):

- Premature infant = 85 mL/kg
- Full-term infant = 85 mL/kg
- Infant 1g 1.2 mL/kg
- Adult/child male = 75 mL/kg
- Adult/child female = 65 mL/kg
- Morbidly obese = 60 mL/kg (BMI > 40)
- **Alveolar Blood Loss (ABL):**  
 $\text{ABL} = \text{Hct}_{\text{normal}} - \text{Hct}_{\text{actual}} \times \text{EBV} \times 10$

### Fluid Replacement Requirements:

- Crystalloid: 3 mL/kg mL/kg
- Colloid: 1 mL/kg mL/kg
- Whole Blood: 2mL/kg mL/kg
- Packed RBC: 10 mL/kg mL/kg
- FFP: 10-20 mL/kg
- **Fluid Resuscitation:**  
 Fully resuscitated = 20 mL/kg  
 Fully resuscitated "top" = 200-250 mL/kg

## FLUID MAINTENANCE REQUIREMENTS

- 4 mL/kg/hr for first 10 kg
- 4 mL/kg/hr for next 10 kg
- 2 mL/kg/hr for each kg > 20

### MAINTENANCE REQUIREMENTS

- **Fluid:** 2-3 mL/kg/hr
- **Electrolytes:** 2-3 mEq/kg/hr
- **Glucose:** 2-3 mg/kg/hr
- **Insulin:** 0.1-0.2 U/kg/hr
- **Calcium:** 0.1-0.2 mg/kg/hr
- **Magnesium:** 0.1-0.2 mg/kg/hr
- **Phosphorus:** 0.1-0.2 mg/kg/hr
- **Potassium:** 0.1-0.2 mg/kg/hr
- **Sodium:** 0.1-0.2 mg/kg/hr
- **Chloride:** 0.1-0.2 mg/kg/hr
- **Bicarbonate:** 0.1-0.2 mg/kg/hr
- **Acidosis:** 0.1-0.2 mg/kg/hr
- **Alkalosis:** 0.1-0.2 mg/kg/hr
- **Metabolic:** 0.1-0.2 mg/kg/hr
- **Respiratory:** 0.1-0.2 mg/kg/hr
- **Cardiac:** 0.1-0.2 mg/kg/hr
- **Renal:** 0.1-0.2 mg/kg/hr
- **Endocrine:** 0.1-0.2 mg/kg/hr
- **Neurologic:** 0.1-0.2 mg/kg/hr
- **Immunologic:** 0.1-0.2 mg/kg/hr
- **Other:** 0.1-0.2 mg/kg/hr

BMI	Weight (kg/m <sup>2</sup> )
<18.5	Underweight
18.5-24.9	Normal weight
25-29.9	Overweight
30-34.9	Obese
35-49.9	Severely Obese
≥50	Super Morbid Obesity

IBW	Weight (kg)
Male 165 cm - 190 kg	165-190
Female 150 cm - 160 kg	150-160

TIEN 1 RESCUE DRUGS	Dose	Supply
Epinephrine (1:1000)	0.5 mg	50 mg/10mL
Naloxone (0.1%)	100 mg	10 mg/10mL
Atropine (1%)	10 mg	10 mg/10mL
Amiodarone (0.5%)	10 mg	10 mg/10mL
Hydrocortisone (10%)	10 mg	10 mg/10mL

LAB TEST	NORMAL RANGE	LAB TEST	NORMAL RANGE
WBC	4.0-11.0 x 10 <sup>9</sup> /L	PT	11-14 sec
Neutrophils	40-75%	APTT	27-34 sec
Lymphs	20-40%	INR	1.0-1.2
Monocytes	2-10%	ACT	120-180 sec
Eosinophils	1-5%	TT	15-20 sec
Basophils	0-2%	TTT	10-15 sec
Platelets	150-400 x 10 <sup>9</sup> /L	Thrombin Time	14-18 sec
Prothrombin Time	11-14 sec	Thrombin Time	14-18 sec
Partial Thromboplastin Time	28-34 sec	Thrombin Time	14-18 sec
Fibrinogen	2-4 g/L	Thrombin Time	14-18 sec
D-Dimer	<0.5 mg/L	Thrombin Time	14-18 sec
Urea Nitrogen	10-20 mg/dL	Thrombin Time	14-18 sec
Creatinine	0.6-1.2 mg/dL	Thrombin Time	14-18 sec
BUN	10-20 mg/dL	Thrombin Time	14-18 sec
Glucose	70-100 mg/dL	Thrombin Time	14-18 sec
Lactate	<2 mmol/L	Thrombin Time	14-18 sec
Ammonia	<100 µmol/L	Thrombin Time	14-18 sec
Bilirubin	<1.2 mg/dL	Thrombin Time	14-18 sec
Alkaline Phosphatase	40-120 U/L	Thrombin Time	14-18 sec
Aspartate Aminotransferase	0-40 U/L	Thrombin Time	14-18 sec
Alanine Aminotransferase	0-40 U/L	Thrombin Time	14-18 sec
Liver Function Tests	0-100 U/L	Thrombin Time	14-18 sec
Renal Function Tests	0-100 U/L	Thrombin Time	14-18 sec
Cardiac Function Tests	0-100 U/L	Thrombin Time	14-18 sec
Endocrine Function Tests	0-100 U/L	Thrombin Time	14-18 sec
Neurologic Function Tests	0-100 U/L	Thrombin Time	14-18 sec
Immunologic Function Tests	0-100 U/L	Thrombin Time	14-18 sec
Other Function Tests	0-100 U/L	Thrombin Time	14-18 sec

## MALIGNANT HYPERTHERMIA

**Triggers:** Halothane, Enflurane, Isoflurane, Sevoflurane, Desflurane, Succinylcholine  
**Signs and Symptoms:** Tachycardia, Tachypnea, ↑P<sub>ET</sub>CO<sub>2</sub>, Skin Mottling, Arrhythmias, ↑Body Temp, Unstable BP, Cola-colored urine, Muscle Rigidity, Metabolic Acidosis

1. Stop triggering agent immediately
2. Hyperventilate with 100% O<sub>2</sub> at high flow
3. Administer Dantrolene 1.5 mg/kg IV  
 Repeat Q 2-5 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. Maximum urine output = 2 mL/kg/hr with hydration, Mannitol, or Lasix

## PEDIETT SIZES

Age & Wt	Size
Preterm 0-1 kg	2-5
Preemies 1-2.5 kg	3-6
Term neonates 3-6 mo	5-8-9-10
6 mo-1 yr	9-10-11-12
1-2 yrs	12-13-14-15
Beyond 2 yrs	16-18-20-22-24-26-28-30-32-34-36-38-40-42-44-46-48-50-52-54-56-58-60-62-64-66-68-70-72-74-76-78-80-82-84-86-88-90-92-94-96-98-100
Tubing Length	Length (cm) = 1.5 x Age (yr)

## PEDIUMA SIZES

Size	Weight	Max cuff vol (mL)
1	1-5 kg	up to 4 mL (2x)
1.5	5-10 kg	up to 7 mL
2	10-20 kg	up to 10 mL
2.5	20-30 kg	up to 14 mL
3	30-40 kg	up to 20 mL
4	40-50 kg	up to 25 mL
5	50-60 kg	up to 30 mL
6	60-70 kg	up to 35 mL
7	70-80 kg	up to 40 mL
8	80-90 kg	up to 45 mL
9	90-100 kg	up to 50 mL

## Dedicated to the Class of 2012

By: Debra Maly - Jeff Carroll - Amarnath Chhabra - Thomas Murphy - Thomas Thompson



# Anesthesia Cheat Sheet

## SEDATION/ANALGESICS

	Dose	Onset	Duration
Diazepam	0.1 mg/kg IV, 0.2 mg/kg PO	1-5 min	2-6 hr
Lorazepam	0.04 mg/kg IV	1-5 min	6-10 hr
Midazolam	0.05 mg/kg	1-5 min	1.5-2 hr
Flumazenil	0.2 mg (Reversal 0.1 q 1 min, max 5mg)	1-5 min	30 min

## OPIOIDS

	Intrasp	Parasp	Onset	Duration	Infusion
Morphine		5-20 mg	10-20 min	4-5 hr	
Fentanyl	1-5 µg/kg		sec	1-2 hr	
Sufentanil	0.5-1 µg/kg		sec	1-2 hr	0.5-1 µg/kg/hr
Ramifenanthol	10-20 µg/kg		sec	6-8 min	0.125-0.375 µg/kg/min
Meperidine		12.5 mg	5-15 min	2-4 hr	
Hydromorphone		3.5-4 mg	5-15 min	2-4 hr	
Naloxone	40-80 mg	40-80 mg	1-5 min	30 min	

## INDUCTION AGENTS

	Induction	Maintenance	Onset	Duration
Propofol	2 mg/kg	2-3 mg/kg/min	30-60 sec	1-2 hr
Ethomidate	0.5 mg/kg	1-2 mg/kg/min	1 min	1-2 hr
Etomidate	1.5 mg/kg	0.2-0.5 mg/kg/min	1 min	30-60 min
Thiopental	4 mg/kg	4-6 mg/kg/hr	sec	8-10 min

## INHALATION AGENTS

	MAC %	Blood Gas	Vapor Pressure
Sevoflurane	2	0.45	157
Desflurane	6	0.42	689
Isflurane	1.15	0.48	292
Nitrous Oxide	107	0.48	58,770

## Desflurane/Sevoflurane

Supply: 300mg/30mL  
 Mixture: 10%  
 Result: 10mg/mL  
 Bolus: 1mg/kg IV 10 min, then 0.2-0.7 mg/kg/hr

## NEURONAL MEDICATIONS

	Max Dose (mg/kg)
Ataxia (A)	10
Extr (E)	10
Lidocaine (L)	5
Propofol (P)	5
Meperidine (M)	5
Etomidate (E)	5
Rupivacaine (R)	2.5
Ropivacaine (R)	3
Procaine (P)	7
Chloroprocaine (C)	5
Tetracaine (T)	3

## CSE/LARV ANALGESIA

	Epidual	Spinal
Rupivacaine	0.025-0.125	0.25-0.5 mg
Ropivacaine	0.05-0.2 %	2.5-4.5 mg
Lidocaine	0.75-1.0 %	
Fentanyl	50-100 µg	25 µg
Sufentanil	5-10 µg	1.5-5 µg
Morphine		0.125-0.25 mg

## ANTHEMICS

	Dose (mg)	Onset	Duration
Droperidol	0.5-1	1-2 min	2-3 hr
Propofol	0.25-0.5	1-2 min	4-6 hr
Ondansetron	4	10 min	4-6 hr
Dexamethasone	8	2 hr	6-8 hr
Metoclopramide	10-20	10 min	2 hr
Sclerodermis	100	3-4 hr	10 hr

## POWV RISK FACTORS

## Pattern of Systemic Toxicity of Local Anesthetics in Order of Occurrence (not all stages may be seen)

1. Analgesia
2. Lightheadedness
3. Tremor
4. Tongue/Circumoral numbness/tingling/funny taste in mouth
5. Seizures
6. Unconsciousness
7. Respiratory arrest
8. Cardiovascular arrest

## Lipid Rescue for Local Anesthetic Induced Cardiac Arrest

If unresponsive to standard therapy, in addition to standard CPR:

- Bolus Intralipid 20% IV 1.5 mL/kg over 1 minute
- Intralipid 20% 0.25 mL/kg/min immediately after bolus
- Continue chest compressions to circulate lipids
- Repeat bolus q3-5 min up to 3mL/kg total dose until circulation is restored
- Increase infusion to 0.5mL/kg/min if BP declines. Continue infusion until hemodynamic stability is restored.
- Max total dose 8mL/kg is recommended
- [www.lipidrescue.org](http://www.lipidrescue.org)

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**ML Morrison**

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