

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 - P(H₂O)) - 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 cause: hours NPO
- 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
- IBW**
- Men: 50 kg
Women: 45 kg

TIER 1 RESCUE DRUGS

Drug	Dose	Supply
Ephedrine 5% + 10%	5 mg	10 mg/ml
Neosynephrine 10%	100 mcg	10 mg/ml
Drug	Dose	Supply
Lidocaine 1%	5 mg	5 mg/ml
Etomidate 0.3%	10 mg	10 mg/ml
Hydroxyzine 10mg	5 mg	20 mg/ml

LAB TEST	NORMAL RANGE	LAB TEST	NORMAL RANGE
Hct	Female: 37-47% Male: 42-52% (70L)	PT	11-14 sec
Hgb	Female: 12-16 g/dL Male: 13-17 g/dL	INR	1.0
WBC	4,000 - 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	INR	1.0-1.2
Cl _{cr}	1.0-1.3 ml/min/1.73m ²	PTT	20-35 sec
Urea N	10-20 mg/dL	INR	1.0-1.2
Cr	0.6-1.3 mg/dL	PTT	20-35 sec
Alb	3.5-5.0 g/dL	PTT	20-35 sec

MALIGNANT HYPERTHERMIA

- Triggers: Halothane, Enflurane, Isoflurane, Sevoflurane, Desflurane, Succinylcholine
- Signs of Onset: Tachycardia, Tachypnea, ↑ EtCO₂, Skin Mordred, Arrhythmias, ↑ Body Temp, ↑ Urinary BUN, 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
2-5 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 Shalwal • 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 IV	1-5 min	6-8 hr
Midazolam	0.05 mg/kg IV	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 IV	1-5 min	4-5 hr
Fentanyl	1-5 µg/kg IV	sec	1-1.5 hr
Sufentanil	0.5-1 µg/kg IV	sec	1-1.5 hr
Remifentanyl	1-2 µg/kg IV	sec	1-1.5 hr
Meperidine	1-2 mg/kg IV	1-5 min	2-4 hr
Hydromorphone	1-5 mg/kg IV	1-5 min	2-4 hr
Naloxone	0.1 mg/kg IV	1-5 min	30 min

Drug	Dose	Onset	Duration
Propofol	2 mg/kg IV	1-5 min	1-8 min
Etomidate	0.3 mg/kg IV	1 min	1-8 min
Ketamine	1.5 mg/kg IV	1 min	10-20 min
Propofol	4 mg/kg IV	1 min	8-10 min

Drug	Dose	Onset	Duration
Sevoflurane	2-4 MAC	1-5 min	1-8 min
Desflurane	1-2 MAC	1-5 min	1-8 min
Isflurane	1-2 MAC	1-5 min	1-8 min
Nitrous Oxide	100%	1-5 min	1-8 min

Drug	Dose	Onset	Duration
Succinylcholine	1-2 mg/kg IV	1-5 min	1-8 min
Vecuronium (Nimbex)	0.1 mg/kg IV	1-5 min	1-8 min
Rocuronium (Zemuron)	0.1 mg/kg IV	1-5 min	1-8 min
Pancuronium (Pavulon)	0.1 mg/kg IV	1-5 min	1-8 min

Drug	Dose	Onset	Duration
Neostigmine	0.04-0.07 mg/kg IV	1-5 min	1-8 min
Edrophonium	0.5-1.0 mg/kg IV	1-5 min	1-8 min

Drug	Dose	Onset	Duration
Amide	1-2 mg/kg IV	1-5 min	1-8 min
Ester	1-2 mg/kg IV	1-5 min	1-8 min
Lidocaine	1-2 mg/kg IV	1-5 min	1-8 min
Propofol	1-2 mg/kg IV	1-5 min	1-8 min
Etomidate	0.3 mg/kg IV	1-5 min	1-8 min
Neosynephrine	100 mcg/kg IV	1-5 min	1-8 min
Hydroxyzine	10 mg/kg IV	1-5 min	1-8 min

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Anesthesia Emergency Drip Cheat Sheet

JL Elias

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

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Small Animal Surgical Emergencies Lillian R. Aronson, 2022-08-02 Small Animal Surgical Emergencies A comprehensive and up to date guide in emergency surgical intervention for veterinary professionals Small Animal Surgical Emergencies Second Edition continues to be an important resource focusing on surgical emergencies combining the work of surgical specialists and critical care specialists and filling a void in educating and informing veterinarians The new edition of this book provides updated information on an array of topics such as preoperative stabilization new and innovative treatment options and aftercare Each chapter covers step by step information on emergency stabilization diagnostic approach operative techniques postoperative care common complications encountered in each case and how to troubleshoot any such complication should they occur It also offers simplified surgical techniques to ensure success and describes new and novel procedures throughout The Second Edition of Small Animal Surgical Emergencies features Nine new chapters covering operating room nursing tips rectal prolapse colonic torsion surgical intervention post celiotomy assisted enteral feeding tubes open chest CPR managing complications of skin flaps and grafts incisional infection and joint luxations Many chapters are written in collaboration by experts in small animal surgery and critical care combining these practices in one important resource Relevant anatomy imaging and full color illustrations and drawings incorporated into each chapter Inclusion of case presentations when relevant An important tool for small animal general practitioners veterinary surgeons critical care specialists as well as veterinary nurses and operating room technicians Small Animal Surgical Emergencies Second Edition is a crucial resource for this constantly evolving branch of veterinary medicine

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