

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
(mg/dl 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 Aka = 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
- Wt in kg/ht in m²
Ht in cm/100-kilogram
Ht in cm - 100-kilogram women

TIER 1 RESCUE DRUGS

Drug	Dose	Supply
Ephedrine 5% + 10%	5 mg	10 mg/ml
Neosynephrine 100	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	4,500 - 11,000/mm ³	PTT	20-35 sec
PLT	100,000-400,000/mm ³	APTT	25-35 sec
Cl _{cre}	1.2-1.7 mL/min/1.73 m ²	INR	1.0-1.2 sec
Cl _{cr}	1.2-1.7 mL/min/1.73 m ²	PT	11-14 sec
Urea N	10-20 mg/dL	INR	1.0-1.2 sec
Cr	0.6-1.3 mg/dL	INR	1.0-1.2 sec
Urea N	10-20 mg/dL	INR	1.0-1.2 sec
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Urea N	10-20 mg/dL	INR	1.0-1.2 sec
Cr	0.6-1.3 mg/dL	INR	1.0-1.2 sec

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 • Amanjot 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	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	1.5-4 mg	1-5 min	2-4 hr
Hydromorphone	1.5-4 mg	1-5 min	2-4 hr
Naloxone	40-80 mcg	1-5 min	30 min

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

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

Drug	Dose	Onset	Duration
Succinylcholine	1.5	20	30-60 sec
Cisatracurium (Nimbex)	0.3	1	2-5 min
Vecuronium (Norcuron)	0.3	1	2-5 min
Rocuronium (Zemuron)	0.5 (1.2)	1	2-5 min
Pancuronium (Pavulon)	0.3	2	2-5 min

Drug	Dose	Onset	Duration
Neostigmine	0.04-0.07 mg/kg	5-10	60
Edrophonium	0.5-1.0 mg/kg	1-2	5-15

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

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Anesthesia Emergency Drip Cheat Sheet

Nancy Burden



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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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Equine Ophthalmology Brian C. Gilger,2022-08-02 Ein umfassendes Nachschlagewerk in dem sämtliche Aspekte der Ophthalmologie beim Pferd behandelt werden perfekt für allgemeine Tierärzte und Fachtierärzte Die neu bearbeitete vierte Auflage von Equine Ophthalmology ist ein umfassender und maßgeblicher Leitfaden für alle Aspekte der Augenheilkunde beim Pferd Das Werk enthält aktualisierte Verfahren Protokolle und Therapien mit noch mehr Bildern zur Illustration Es ist in einem leserfreundlichen Tabellenformat gehalten und dient vor allem zur Erstbehandlung Dabei richtet es sich an alle Tierärzte die sich mit Pferden befassen von allgemeinen Tierärzten bis zu Spezialisten für Augenheilkunde beim Pferd In diesem Werk erhalten die Leserinnen und Leser außerdem Eine gründliche Einführung in die augenärztliche Untersuchung und die praktischen Techniken sowie die moderne Bildgebung in der Augenheilkunde Praktische Empfehlungen der neuesten Behandlungsmethoden bei Erkrankungen und Eingriffen an Augapfel Orbita den Adnexen dem nasolakrimalen System an Hornhaut Linse und Uvea sowie bei Uveitis und rezidivierender Uveitis Vertiefende Untersuchungen zum Glaukom zur Sehkraft zur Neuroophthalmologie zu systemischen Erkrankungen sowie eine Erläuterung der nationalen und internationalen Vorschriften in Bezug auf Augenerkrankungen und geeignete Medikamente Eine umfassende Darstellung zu vererbten Augenkrankheiten Die vierte Ausgabe von Equine Ophthalmology ist ein unverzichtbares Nachschlagewerk für alle Tierärzte die Augenerkrankungen bei Pferden behandeln **Ophthalmic Desk Reference** James F. Collins,1991 This desk reference is designed to be a single rapid reference source to answer any clinical question arising in an ophthalmic specialist's practice The first section covers the information needed to manage any condition and includes state of the art coverage of

surgical topics The second section lists the diagnostic possibilities for signs and symptoms and an appendices section includes a glossary basic science facts laboratory normals and information on diagnostic modalities pharmaceuticals and ophthalmic products *Essence of Anesthesia Practice* Michael F. Roizen, Lee A. Fleisher, 1997 Every page covers a single clinical topic over 550 in all presenting important information in an extremely accessible fashion A consistent format allows for efficient consultation Divided into 4 sections Diseases Procedures Drugs and Tests *Essence of Anesthesia Practice* allows you to approach a given problem from any of these directions to find the answers you need Key references point the way to further reading **Ambulatory Surgical Nursing** Nancy Burden, 1993 *Ambulatory Surgical Nursing* addresses the chronologic needs of pre intra and post procedure nursing care It provides information on issues such as infection control anaesthesia concerns legalities in relation to risk management and patients who have special health age related or social needs Important themes evident throughout the text include identification of risks and prevention of complications ongoing collaboration of all members of the healthcare team and application of a philosophy of wellness rather than illness

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