

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}] = B x S
- 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-kilogram
Ht in cm - 100-kilogram

IBW

Wt in kg/ht in m²

TIER 1 RESCUE DRUGS

Drug	Dose	Supply
Ephedrine 5% + 10% PO	5 mg	10 mg/ml
Neosynephrine 50	100 mcg	10 mg/ml
Drug	Dose	Supply
Lidocaine 1%	5 mg	5 mg/ml
Etomidate 0.3	10 mg	5 mg/ml
Hydroxyzine 1mg	5 mg	20 mg/ml

HEMODYNAMICS	NORMAL RANGE
MAP	70-105 mmHg
CO	4-8 L/min
CI	2.5-3.5 L/min/m ²
CVP	2-8 mmHg
PCWP	8-12 mmHg
PVR	10-150 dynes/cm ² /sec ²
SVR	200-1400 dynes/cm ² /sec ²
EF	55-70%
PAP	5-15-50 D-5-15 M-15

Drug	Dose	Onset	Duration
Diazepam	0.1 mg/kg IV, 0.2 mg/kg PO	1-5 min	2-5 hr
Lorazepam	0.04 mg/kg	1-5 min	6-8 hr
Midazolam	0.05 mg/kg	1-5 min	15-30 hr
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	0.125-0.375 µg/kg/min
Meperidine	1.5-4 mg	5-15 min	2-4 hr
Hydromorphone	1.5-4 mg	5-15 min	2-4 hr
Naloxone	40-80 mcg	1-5 min	30 min

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

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MALIGNANT HYPERTHERMIA

- Triggers: Halothane, Enflurane, Isoflurane, Sevoflurane, Desflurane, Succinylcholine
- Signs of Onset: Tachycardia, Tachypnea, ↑ EtCO₂, Skin Mording, 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
3-5 yrs	6.5-7.0
6-12 yrs	7.0-7.5
13-18 yrs	8.0-8.5

PEDIEMA SIZES

Size	Weight	Max cuff vol (Lair)
1	1 to 5 kg	up to 4 ml (Lair)
1 X	5-10 kg	up to 7 ml
2	10-20 kg	up to 10 ml
2 X	20-30 kg	up to 14 ml
3	= 30 kg	up to 20 ml
4	Adult	up to 30 ml

Anesthesia Drug Cheat Sheet

Michal Rosen-Zvi

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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Complications in Anesthesia E-Book Lee A. Fleisher, Stanley H. Rosenbaum, 2017-09-29 Using a unique problem solving approach Complications in Anesthesia 3rd Edition walks you through effective solutions to common complications in anesthesia and critical care This practical reference uses a highly structured clearly illustrated format to bring you up to date with what's new in the field help you anticipate potential challenges and guide you through life saving solutions Presents content in an updated logical organization covering various types of complications drugs testing intubation line insertion surgical procedures etc followed by differential diagnosis and treatment of signs of complications intraoperative such as hypoxia or hypotension and postoperative such as MI Follows a problem based practice oriented approach throughout case synopses are followed by concise coverage of recognition risk assessment implications management and prevention Allows you to review the case reports contemplate the implications then check your response against what the experts have to say Includes numerous photographs diagrams flow charts and tables that illustrate key concepts Ideal as a clinical reference and as a study tool when preparing for oral boards Brings you up to date with new safety standards and the latest ASA guidelines Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices **Mosby's Comprehensive Review for Veterinary**

Technicians E-Book Monica M. Tighe, Marg Brown, 2019-03-28 NEW Content mapped to the VTNE domains tasks and knowledge statements prepares you for taking the VTNE NEW The use and care of endoscopic equipment added to the Ultrasound and Other Imaging Modalities chapter **Skyrocketing Prescription Drug Prices** United States. Congress.

Senate. Special Committee on Aging, 1990 **Anesthesia Progress**, 1969 Small Animal Anesthesia Roger G. Warren, 1983 Location Aggie West Library *Clinical Anesthesia* Paul G. Barash, Bruce F. Cullen, Robert K. Stoelting, 1997 Chapters include practice management risk management quality improvement and professional liability value based anaesthesia management malignant hyperthermia and other inherited disorders delivery systems for inhaled anaesthetics anaesthesia for laparoscopic surgery monitored anaesthesia care and anaesthesia for non operative procedures

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Handbook of Clinical Anesthesia Paul G. Barash, Bruce F. Cullen, Robert K. Stoelting, 2001 From perioperative evaluation to postoperative care this pocket sized edition of Clinical Anesthesia Fourth Edition provides easy access to essential bedside information Its concise and readable outline format incorporates hundreds of tables graphs and algorithms all summarizing and prioritizing crucial clinical points This new edition includes up to date guidelines on office based anesthesia cost effective preoperative testing hazards of working in the OR prevention and management of OR fires preoperative preparation and fasting anesthesia for minimally invasive surgical procedures and drug interactions Appendices include an extensive ECG atlas plus guidelines for OR management of pacemakers and automated implantable defibrillators

The Pediatric Anesthesia Handbook Charlotte Bell, Zeev N. Kain, Cindy W. Hughes, 1997 New in this edition you will find an appendix on vascular access expanded resuscitation protocols and concise diagrams on current cardiac procedures This edition includes more discussion of outpatient procedures and unanticipated admissions as well as

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Journal of Oral Surgery, Anesthesia, and Hospital Dental Service ,1959 **Pharmacology** Bertram G.

Katzung,Anthony J. Trevor,1998 Designed to complement the chapter sequence in the 7th edition of Basic and Clinical Pharmacology Katzung this review includes a set of objectives providing students with a checklist against which they can assess their progress Each chapter provides a review of the core subject matter Important drug names are provided in each chapter dealing with specific drug groups and practice questions and answers are included at the end of each chapter Appendices include 17 case histories with questions and answers and test strategies **Introductory Clinical**

Pharmacology Sally S. Roach,Jeanne C. Scherer,2000 his text makes pharmacology easy for the beginning nursing student Now in its Sixth Edition this concise introduction to pharmacology is readable and complete Designed for the LPN LVN student the book focuses on basic principles and the nurse s responsibility in drug administration Organised by body system the book examines pharmacologic properties and therapeutic applications of drugs as a class or group Summary Drug Tables present generic and trade drug names uses adverse reactions and usual dosage ranges New in the Sixth Edition updated drug information throughout reorganised chapters reflecting current clinical usage of drugs new line art pedagogy including geri alerts pronunciation guide patient teaching checklists and dosage calculation exercises at end of chapters and a strengthened ancillary package including a testbank on disk **Perianesthesia Nursing** Cecil B. Drain,Jan

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Hankes,1973 **Basic Surgical Exercises Using Swine** M. Michael Swindle,1983 *Modern Pharmacology with Clinical Applications* Charles R. Craig,Robert E. Stitzel,1997 This fifth edition of this popular title has a much greater clinical focus The editors have added clinical cases and vignettes to drug chapters and clinical summaries closing each chapter **Survey of Analgesic Drug Prescribing Patterns** Philip G. Seitner,1975

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