

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 < 35 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 = Hct_{initial} x [EBV = Hct_{initial} x 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 rate x hours = PO
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
BMI in cm-100/kg men
Ht in cm - 105/kg women

IBW

Super Morbid Obesity

TIER 1 RESCUE DRUGS

Drug	Dose	Supply
Ephedrine 5% + 10	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

LAB TEST	NORMAL RANGE	LAB TEST	NORMAL RANGE
Hct	Female 37-47% Male 42-52% (F/M)	PT	11-14 sec
Hgb	Female 12-16 g/dL Male 13-17 g/dL (F/M)	INR	1.0
WBC	4,500 - 11,000/mm ³	PTT	12-15 sec
PLT	100,000-400,000/mm ³	APTT	25-35 sec
Cl _{cre}	1.0-1.3 ml/min/1.73m ²	TPP	10-15 sec
Ca	8.8-10.0 mg/dL	PT/INR/PTT	10-15 sec
Ionized Ca	1.1-1.3 mmol/L	TPP	10-15 sec
Prothrombin	11.0-13.0 sec (F/M)	TPP	10-15 sec
Thromboplastin	12.0-14.0 sec (F/M)	TPP	10-15 sec
Cl _{cre}	1.0-1.3 ml/min/1.73m ²	TPP	10-15 sec
BUN	10-20 mg/dL	TPP	10-15 sec
Creatinine	0.6-1.3 mg/dL	TPP	10-15 sec
Albumin	3.5-5.0 g/dL	TPP	10-15 sec

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. Snoop 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 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	1-5 min	1-8 min
Etomidate	0.3 mg/kg	1 min	1-8 min
Ketamine	1.5 mg/kg	1 min	10-20 min
Propofol	4 mg/kg	1 min	8-10 min

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Anesthesia Emergency Drip Cheat Sheet

Jason Smith, Ian Greaves, Keith Porter

A red circular graphic with a gradient, appearing as a partial circle or a stylized drop, located to the right of the authors' names.

Anesthesia Emergency Drip Cheat Sheet:

Small Animal Dental Procedures for Veterinary Technicians and Nurses Jeanne R. Perrone, 2012-09-10 Small Animal Dental Procedures for Veterinary Technicians and Nurses is a comprehensive procedures based resource for technicians and nurses involved with all aspects of canine feline and exotic animal dentistry Heavily illustrated and clinically oriented this training manual provides step by step instructions on the oral exam anesthesia cleaning and radiology as well as the necessary background on dental anatomy common diseases and terminology Each chapter includes learning objectives and key terms to promote retention and a companion website provides review questions training exercises images from the book and additional images in PowerPoint chapter glossaries and forms available for download Fully authored by Veterinary Technician Specialists in Dentistry the book covers all aspects of veterinary dentistry that a technician will encounter in daily practice with a special emphasis on the technician's role relative to dental procedures With extensive full color pictures review questions and glossary terms Small Animal Dental Procedures for Veterinary Technicians and Nurses is equally useful for veterinary technician or nursing students technicians or nurses in practice and those pursuing their specialty certification in veterinary dentistry [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

Quick Reference to Pediatric Emergencies Delmer J. Pascoe, Moses Grossman, 1978 **Essence of Anesthesia Practice E-Book** Lee A Fleisher, Michael F. Roizen, 2010-12-01 *Essence of Anesthesiology Practice* makes it easy to formulate

anesthesia plans through a consistent format and discussions of the problems causes comorbidities and anesthesia implications for over 600 clinical topics Drs Fleisher and Roizen present a completely revised new edition that includes coverage of many new conditions procedures and drugs Easily formulate anesthesia plans through a consistent format that covers a single clinical topic on each page with a review of its problems causes comorbidities and anesthesia implications Get state of art reliable coverage from an international team of experts who discuss common and rare conditions and how to manage them Understand the interactions of common drugs and alternative medicine so that you can develop anesthesia plans accordingly Quickly reference key information using the carefully templated text that highlights the most important anesthetic considerations in a consistent user friendly layout Stay current on the latest anesthetic implications in regards to coexisting diseases procedures drugs and alternative and complementary therapies including coverage of mitochondrial myopathy atrial fibrillation ablation awake craniotomy stereotactic neurosurgery neuroprotection dexmedetomidine and other hot topics *Iowa Emergency Resource Management Plan* ,1966 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

Nurse Anesthesia John J. Nagelhout,Karen L. Zaglaniczny,2001 This revised and streamlined guide to modern anesthesia practice is fully updated with hot topics such as non operating room anesthesia office based anesthesia and anesthesia for laparoscopic procedures The second edition includes the specifics of pharmacokinetics drug delivery systems opiate antagonists and several key induction drugs **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 *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 *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 **Equine Reproduction & Stud Medicine** Jonathan Pycock, 1997-04-01 Involvement with equine reproduction is very common for the veterinarian in practice and there is enormous demand for continuing education particularly in the light of recent changes in science and practice such as the routine use of ultrasound improved standards of foal care and the importance of artificial insemination The 22 contributing authors *Comprehensive Perioperative Nursing Review* Susan S. Fairchild, 1993

McDonald and Avery's Dentistry for the Child and Adolescent - E-Book Jeffrey A. Dean, 2021-02-02 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Dentistry Get the expert knowledge you need to provide quality oral care to pediatric patients Trusted for more than 50 years McDonald and Avery's *Dentistry for the Child and Adolescent* 11th Edition provides the latest diagnostic and treatment recommendations for infants children and adolescents It covers topics ranging from pediatric examination and radiographic techniques to development and morphology of the primary teeth dental caries dental materials and local anesthesia Another point of emphasis is the management of patients with special medical issues On the Expert Consult website you'll find a fully searchable version of the entire text along with case studies and step by step procedure videos From internationally known educator Jeffrey A Dean this resource provides everything you need to prepare for board certification and succeed in clinical practice Comprehensive coverage of pediatric dentistry includes the treatment of deep caries prosthodontics occlusion trauma gingivitis and periodontal disease cleft lip and palate facial esthetics and medically compromised patients More than 1 000 illustrations show oral structures and conditions along with dental procedures Five major areas of focus help you organize your thinking and practice around key clinical concepts diagnoses caries and periodontology pain control oral growth and development and management of special medical issues Expert Consult website includes fully searchable access to the text plus videos and case studies Diverse and respected team of authors contribute chapters on their areas of expertise Global readership includes translations of the text

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American Medicine ,1916 **Educational Film Guide** H.W. Wilson Company,1949 Oxford Desk Reference: Major Trauma Jason Smith,Ian Greaves,Keith Porter,2010-11-11 The Oxford Desk Reference Major Trauma is the missing link between basic trauma management and advanced specialist care Advanced Trauma Life Support courses have revolutionised trauma care in the last 3 decades but there is little advice for the key decision makers in trauma care once the primary and secondary surveys are complete This volume is a practical and evidence based desk reference giving a comprehensive walk through from the initial phases of injury through key decision making in the resuscitation room to surgical principles and rehabilitation Including chapters on damage control ballistic and blast injuries and bariatric trauma this text covers all the main areas of trauma care necessary for the trauma specialist in the 21st Century The Oxford Desk Reference emphasises practical help but also covers the evidence and science behind trauma management It includes the most up to date guidance from national bodies making recommendations for trauma care using an international team of contributing authors This book will become an essential tool for everyday use in the management of trauma *Educational Film Catalog* H.W. Wilson Company,1949

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