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Anesthesiology pocketcard Set						
General Anesthesia						
ASA Classification (Health Index at Time of Surgery)						
Class	Clinical Description	Example				
I	Healthy patient; no systemic disease; not at extremes of age	Healthy 21-year-old				
II	Disease of one system with no functional limitation	DM, HTN				
III	Disease with severe limitation	Stable angina				
IV	Severe disease with constant threat to life	Unst. angina, CHF				
V	Moribund patient not expected to survive without operation	Aort. aortic aneurysm				
VI	Organ donor	Brain death				
I = sufficient to indicate emergency surgery for any class.						
MAC Values of Different Gases						
Gas	MAC/Blood gas solubility at 20°C	Vp (mm)	Fat/Blood Effect on % solubility	CI (l)	MAC/Alcohol	MAC/Drug
Sevoflurane	2.0 (0.65)	160	48	decrease	5-8	decrease
Isflurane	1.5 (1.3)	240	45	decrease	0-0.2	increase
Desflurane	6.0 (0.42)	660	27	decrease	0-0.2	increase
Halothane	0.75 (2.5)	244	60	decrease	15-40	none
CI = cardiac index; SW = systemic vascular resistance; RR = respiratory rate; Vp = vapor pressure; MAC = mean alveolar concentration						
Important Calculations						
Allowable Blood Loss (ABL)	$Weight (kg) \times 40\% \times [Hb_{init} - Hb_{crit}] / Hb_{crit}$					
Total Body Deficit at BCD	$Weight (kg) \times [initial Cr - 24] \times 100$					
Fick Equation	$CO = \frac{VO_2}{Ca - Cv}$ Ca = arterial content, Cv = venous content					
Alveolar Gas Equation	$PAO_2 = (PB - PH_2O) - PaCO_2 / RQ$ PB = barometric pressure, PH ₂ O = aqueous pressure, RQ = respiratory quotient, Pa = arterial pressure, +0.2 = fraction of inspired O ₂					
O₂ Content	$CaO_2 = 1.39(Hb \times sat) + (PaO_2 \times 0.003)$					
Laplace's Law	$P = 2T / r$ = tension, T = tension, r = radius					
Boyle's Law	$P_1V_1 = P_2V_2$ = temperature, P = pressure, V = volume					
Hagen-Poiseuille	$Q = \frac{\pi r^4 \Delta P}{8 \eta L}$ = flow, ΔP = pressure difference, η = viscosity, r = radius of tube, L = length of tube					
Reynold's Number	$Re = \frac{\rho v d}{\eta}$ = linear velocity \times diameter \div density \div viscosity					
Shunt Fraction	$Q_{shunt} = \frac{C_{vO_2} - C_{aO_2}}{C_{vO_2} - C_{eO_2}}$ = end capillary O ₂ content					
Fluid and Electrolyte Administration						
Fluid Replacement	Fluid deficit = Maintenance + Ongoing losses 1. Fluid deficit: Maintenance \times # hrs. NPO 2. Maintenance: 4 ml/kg (1 st 10 kg) + 2 ml/kg (1 st 10 kg) + 1 ml/kg (every kg thereafter) 3. Ongoing losses: evaporative: min surg 4 ml/kg, mod surg 6 ml/kg, severe surg 8 ml/kg; blood loss: 1 ml = 3 ml crystalloid, 1 ml colloid hourly HF (crystalloid) 1x (1/3 fluid deficit) + hourly maintenance + hourly ongoing losses					
Hyperkalemia (> 5.5 mmol/L)	- D ₅₀ , CaCl ₂ 0.5-1 gm IV over 2-3 min or Ca gluconate 1 gm, hypervent - NaHCO ₃ 1-2 amp over 5-10 min - Glucose (D50 1 amp) with insulin 10 U IV - Albuterol 10-20 mg in 4 ml saline nebulized over 20 min - Furosemide 20-40 mg IV					
Hypokalemia (< 4.0 mmol/L)	KCl 10 mEq (increases K ⁺ by 0.3)					
Hyponatremia (< 125 mEq/L)	- Na 120-130: water restriction or isotonic saline, furosemide - Na 100-120: 2% or 3% hypertonic saline (monitor rate closely) correct by 1.5-2 mEq/L/hr and not > 12 mEq/L/day - Warning: rapid correction (> 20 mEq/day) can lead to demyelination					
Hyponatremia (> 145 mEq/L)	Free water (do not correct) = 0.5 mEq/L/hr and 12 mEq/L/day					
Hypocalcemia (< 0.8 mg/dL)	CaCl ₂ 100-200 mg IV or Ca gluconate 1 gm-2 gm IV over 10-20 min					
Hypercalcemia (> 14 mg/dL)	heparin saline (volume 1) at 200-300 mL/hr, adjust for goal urine output at 300-200 mL/hr, Calcitonin 4 U/kg, Zoledronic acid 1mg IV over 15min					

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