

Drugs for sedation/Sleep:

Remifentanyl 50 µg/ml iv
• Indication: Sedation > 3 days and in case of kidney or liver failure & obesity
Dosage: 0.025-0.25 µg/kg/min. For painful procedures: 0.25 - max 0.75 µg/kg/h.

Propofol 10 mg/ml, 20 mg/ml iv
• Maintenance for sedation: 0.1-4 mg/kg/h, only for patients > 16 years

Midazolam 1 mg/ml, 5 mg/ml iv (benzodiazepine. Effect within 3 min - max effect 5-10 min)
Dosage: bolus 0.5-2 mg iv, infusion: 1-25 mg/h. Intramuscular: 5-10 mg (5 mg / ml)

Dexmedetomidine 8 µg/ml iv (α1 α2 1:1620 agonist, $t_{1/2}$ = 2 h)
• Dosage: If circulatory stable bolus 1 µg/kg in 10 min. Maintenance infusion: 0.2-1.4 µg/kg/h
• Contraindication: AV block II-III, pregnancy, pronounced hypovolemia. Comb with clonidine

Clonidine - (α1 α2 1:200 agonist, parenteral = enteral dose, $t_{1/2}$ = 8 h - longer at cont infusion)
• Dosage: Infusion: max 0.33 µg/kg/h at 75-150 µg x 4. Same dose orally
• Contraindication: Bradycardia of SSS, AV block II-III, comb w DEX, severe hypotension

Propiomazine tablet 25 mg **Zopiclone**: tablet 7.5 mg
• Dosage: 1-2 tablets no later than 2000 $t_{1/2}$ -6h • Dosage: 1 tablet bn, give < 02:00. Max 15 mg

Haloperidol 5 mg/ml iv (low-dose neuroleptic, dopamine blocker, $t_{1/2}$ = 19 h)
Dosage: 1-5 mg iv, 2.5-5 mg x 4 can be used experimentally. Dose reduction in liver failure
• Caution: Parkinson's, long QT syndrome, hypokalaemia, extrapyramidal side effects

Dialysis: General indications: Urea > 40 mmol/l. Therapy resistance hyperkalaemia/Potassium above 6.0 + ECG despite diuretic

	Standard	Sepsis	
Blood flow	250 (x150) mL/min	250 ml or more	Effluent dose (% GFR) = dialysate + replacement fluids + fluids
Outflow dose	30 ml/kg/h	35 or more?	When filter (low) < 24 h
Dialysate	(cont): 1% of effluent dose	1% of effluent dose	Calculate Filtration Fraction (flow vs flow)
Replacement	1% of effluent dose	1% of effluent dose	EFF = 20-30% Increase predilution or blood flow
Heparin	bolus 0-10 IU/kg (always > 0.5 l post filter)	0-10-20 IU/kg (always > 0.5 l post filter)	Adjust anticoagulation
continuous	0-10-20 IU/kg/h	0-10-20 IU/h	Give 75 IU/kg bolus heparin + increase to 1-1.5/kg
			Measure HCT (should be in the upper normal range)

Nutrition:
Daily requirement: liquid 25-30 ml/kg, glucose 3-g/kg, electrolytes (mmol): 60 Na, 40 K, 20 Mg, 20 Phosphate

Energy demand kcal/kg/day (lean body mass):

5-10 kcal/kg/day Steady animal activity awake patient High metabolic need, volume resuscitation need, SIRS, increased whole blood	15-20 kcal/kg/day Unstable but no movement respiratory or circulatory threat Continuous high O2 and caloric support Deep sedation	20-25 kcal/kg/day Stable O2 & caloric support The process begins to reverse	30-35 kcal/kg/day Recovery phase with increasing mobilization
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• Enteral nutrition start within 24-48 hours
• PE nutrition is normally started after day 7

Medically stimulants:
Naloxone (Ox assay): 1 mg/ml - 2 ml x 3 iv. Not EPR Parkinson's
Naloxone - 1 mg/ml, 5-6 ml x 3 orally in table. Avoid in: Severe liver failure
Nalox - 0.12 mg x 1 iv (peripheral µ-opioid antagonist) injection

Contraindications to enteral nutrition:
• Intestinal compartment syndrome
• Intestinal ischaemia/perforation/obstruction
• Increased intubation/bronchial imaging
• Increased abdominal surgery

Vasopressor therapy/inotropy:
(α1 blood vessels, β1-cardiac, β2-cardiac, blood vessels, always, DA1-splanchnic, kidney)

Norepinephrine - α1 ----, β1----, β2- (SVR↑, CO↑, HR↑, BP↑) ~ 11--
• Indication: Sepsis, anaphylactic shock, hypotension with SVR↓
• Dosage: 0.01-0.5 µg/kg/min = 0.5-40 ml/h at 70 kg (0.1 mg/ml)

Epinephrine - α1 ----, β1----, β2 ---- (SVR↑, CO↑, HR↑, BP↑, bronchial dilatation)
• Indication: Circulatory shock, anaphylaxis, cardiac arrest, severe heart failure
Dosage: 0.05-0.3 µg/kg/min, Anaphylaxis/asthma: 0.3-0.5 mg iv, CPR 1 mg iv

Dobutamine - α1 +, β1----, β2 -- (SVR↓, CO↑, HR↑, BP↓)
• Indication: Heart failure, sepsis
Dosage: 2-15 µg/kg/min = 5-40 ml/h for 70 kg (2 mg/ml)

Dopamine - α1 --, β1----, β2 --, DA-1 ----
• Indication: Low cardiac output, heart failure, possible oliguria
• < 3 µg/kg/min - DA effect, 5-10 µg/kg/min β1 effect, > 10 µg/kg/min - α1 effect
Dosage: 3-15 µg/kg/min = 7-40 ml/h for 70 kg (2 mg/ml)

Isoprenaline - β1----, β2 ---- (SVR↓, CO↑, HR↑, BP↓)
• Indication: AV-block II, bradycardia
• Dosage: 0.01-0.15 µg/kg/min, 5-70 ml/h at 70 kg (0.8 µg/ml).

Milrinone (phosphodiesterase II inhibitor - (AMPT) SVR↓, CO↑, HR↑, BP↓
• Indication: Heart failure
• Side effect: VESVT, Hypotension
• Dosage: Bolus 10 min 50 µg/kg, 0.375-0.5-0.75 µg/kg/min (dose adjustment in case of renal failure)

Levosimendane (calcium sensitizer) SVR↓, CO↑, HR↑, BP↓
• Indication: Heart failure
• Contraindication: GFR < 30 ml/min, pronounced mechanical obstruction due to ventricular infarction/outline
• Side effect: VESVT, hypotension
Dosage: 6-12 µg/kg/min for 10 min -> infusion 0.1 µg/kg/min for 24 hours

Hypertension:
Dehydrilazine - peripheral vasodilator, maximum blood pressure response after 30 min, 12.5 mg/ml
Dosage: 2-12 - 0.25 mg (0.25-0.5 ml) iv
Labetalol - β1 & 2 + α1 antagonist, maximum effect within 5 min, duration about 6 h, 5 mg/ml
Dosage: 5-10 mg iv repeated doses until intended effect. Max dos 200 mg
Nitroglycerine - vascular dilation at vein & artery - duration of action 1-2 min. Caution: aortic stenosis
• "Emergency syringe" (50 µg/ml) - 1-2 ml when needed
• Infusion: (0.5 mg/ml) start 0.5 µg/kg/min - max 10 µg/kg/min

Antiarrhythmics
Amiodarone 50 mg/ml (-) Reduces the automatic sinus + prolongs AP phase 3, α + β block)
Dosage: 5 mg/kg bolus in 30 min - then 900-1200 mg/24 h. At CPR 300 mg in 20-ml glucose.
• Side effects: bradycardia, hypotension, hypothyroidism
Magnesium (Reduces the automaticity of the sinus node, raises seizure threshold)
Dose 20 mmol Mg-Sulphate in 100 NaCl
Dosage: 20 mmol in 20 min - then 20 mmol/20 h (in case of ectopical spasm: 4 mmol/h)
• Caution in case of renal failure

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Albert A Gayle



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