**PSA CHECKLIST**

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| --- | --- |
| Date: | PATIENT-ID |
| PSA-physician: |
| Procedure physician: |
| Resuscitation-competent personnel: |

|  |  |  |
| --- | --- | --- |
| **PROCEDURE** | | |
| * Cardioversion | * Reduction: | * Other: |

|  |  |  |  |
| --- | --- | --- | --- |
| **PLACE** | | | |
| * Resus | * Ortho-room | * Patient room | * Other: |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PATIENT** | | | | | | |
| Year: | Weight: | Height: | ASA-Class: | | DMV-Score: | Potassium: |
| Food / non-clear liquids last ingested: | | | | Allergy to PSA-meds: | | |

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| **PREPARE** | | | |
| * Pulse oximeter | * O2 10 L/min via reservoir mask | | * 3-lead EKG |
| * Ringer's Acetate via 3-way stop cock, good flow | | * BP-cuff on other side | |
| * Draw up medication(s) | | | |

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| **CHECK FUNCTION / AVAILABILITY** | | |
| * Suction | * OPA | * NPA |
| * Bag-valve-mask | * LMA | * Laryngoscope |
| * Adrenaline 0.1 mg/ml | * Atropine 0.5 mg/ml | * NaCl 0.9% 10 ml |
| * Gurney: raise head, Trendelenburg, lower side rails | | * Defibrillator/pacing |

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| **TIME-OUT: Team-plan for potential complications** | | |
| * Airway obstruction | * Laryngospasm | * Apnea |
| * Vomiting | * Hypotension | * Bradycardia |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **VITAL SIGNS** | | | | | **ADVERSE EVENTS** | | |
| Start of sedation= 0 = ..... : ..... | | | | | Vomiting | Yes | No |
| Time (min) | 0 | 5 | 10 | 15 |
| Resp Rate |  |  |  |  | Apnea > 20 sec | Yes | No |
| SpO2% |  |  |  |  | SpO2 < 90% | Yes | No |
| Systolic BP |  |  |  |  | SBT < 90 mm Hg or fall > 20% | Yes | No |
| Heart Rate |  |  |  |  | Heart Rate  < 50 bpm | Yes | No |
| End time = ..... : ..... | Comments: | | | | | | |

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| **ADMINISTERED MEDICATIONS (mg) AND REPLACEMENT** | | | | | |
| Propofol: | Ketanest: | | Midazolam: | : | : |
| * **Plan for monitoring** | | * **PSA-physician replaces equipment / medications** | | | |

**CONTRAINDICATIONS**

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| --- | --- | --- | --- |
| **Ketamine** | **Nitrous Oxide** | **Midazolam** | **Penthrox** |
| * Psychosis * < 3 months | * Nausea * Pneumothorax * Bowel obstruction * Pregnancy | * Hypersensitivity * Severe resp insufficiency * Severe hepatic insufficiency * Myasthenia gravis * Acute narrow-angle glaucoma | * Renal failure * Malignant hyperthermia * < 5 years |

**GENERIC DOSES**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Fentanyl **IN** | Midazolam **PO** | Oxycodon **PO** | Propofol **IV** | Ketanest **IV** | Ketanest **IM** |
| 2 mcg/kg | 0.3 mg/kg  Max 15 mg | 0.1 mg/kg  Max 5 mg | 2 mg/kg < 2 yr  0.5 - 1 mg/kg | 0.5-1 mg/kg  over 1-2 min | 2 mg/kg |

**PEDIATRIC DOSES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age | kg | Fentanyl  50 μg/ml  **IN** | Midazolam  1 mg/ml  **PO** | Propofol  10 mg/ml  **IV** | Ketanest  5 mg/ml  **IV** | Ondansetron  2 mg/ml  **IV** | Ketanest  25 mg/ml  **IM** |
| 2 mo | 5 kg | 0.2 ml | 1 ml | 1 ml | 1 ml | 0.3 ml | 0.4 ml |
| 6 mo | 7 kg | 0.3 ml | 2 ml | 1.5 ml | 1 ml | 0.5 ml | 0.6 ml |
| 1 yr | 10 kg | 0.4 ml | 3 ml | 2 ml | 2 ml | 0.7 ml | 0.8 ml |
| 3 yr | 15 kg | 0.6 ml | 5 ml | 2 ml | 3 ml | 1 ml | 1.2 ml |
| 5 yr | 20 kg | 0.8 ml | 6 ml | 2 ml | 4 ml | 1.5 ml | 1.6 ml |
| 6 yr | 25 kg | 1 ml | 8 ml | 2.5 ml | 5 ml | 2 ml | 2 ml |
| 8 yr | 30 kg | 1.2 ml | 9 ml | 3 ml | 6 ml | 2 ml | 2.4 ml |

**REVERSAL**

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| --- | --- | --- | --- |
| **Agent** | **Concentration** | **Adult** | **Child** |
| **Naloxone** | Naloxone 0.4 mg/ml | 0.5 - 1 ml/nostril | 0.5 - 1 ml/nostril |
| Naloxone 0.04 mg/ml | 2 ml IV or IM | 0.5 ml/10 kg IV or IM |
| **Flumazenil** | Flumazenil 0.1 mg/ml | 2.5 µg/kg  2 ml q2 min | 0.01 mg/kg  1 ml/10 kg (max dose 2 ml) |

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| **ASA PHYSICAL STATUS CLASSIFICATION**   |  |  | | --- | --- | | ASA 1 | Frisk | | ASA 2 | Mild systemsjukdom utan funktionsbegränsning (e.g. hypertoni) | | ASA 3 | Allvarlig systemsjukdom med funktionsbegränsning (e.g. KOL) | | ASA 4 | Allvarlig livshotande systemsjukdom (e.g. uttalad hjärtsvikt) | | ASA 5 | Moribund patient | | **DIFFICULT MASK VENTILATION SCORE**   |  |  | | --- | --- | | Age > 55 years | 1 point | | BMI > 26 kg/m2 | 1 point | | Beard | 1 point | | Edentulous | 1 point | | Snoring | 1 point | |
| **AIRWAY OBSTRUCTION**  Two-person ventilation with bag-valve-mask:  1. Jaw-thrust  2. OPA or NPA  3. LMA | **LARYNGOSPASM**  1-Jaw-thrust & neck extension  2-Bag-valve-mask two person ventilation  3-Pressure at Larson’s notch (under earlobe, press hard cranially and anteriorly)  4-Propofol 1-2 mg/kg IV  5-Succinylcholine 0.5 mg/kg IV or 4 mg/kg IM  6-Atropine 0.02 mg/kg IV/IM if bradycardia |
| **BRADYCARDIA / ASYTOLE**  1. Asystole: external pacing (100 mA, 60/min)  2. Bradycardia + hypotension: Adrenalin 20 µg IV  3. Mild bradycardia: Atropine 0,5 mg/ml 2 ml IV | **HYPOTENSION**  1. Ringer's acetate  2. Adrenalin 20 µg IV as push-dose pressor:   * 10 ml syringe * Adrenalin 0.1 mg/ml 1 ml * NaCl 9 ml * Give 2 ml (20 µg) IV |
| **ANAPHYLAXIS**  1. Adrenalin 1 mg/ml 0,5 ml IM; repeat PRN  2. Ringer's acetate  3. Adrenalin 20 µg IV as push-dose pressor |