



# Provincial High-Alert Medication List Poster

Independent Double-Checks by Visual Verification are required for listed medications.

For further administration details, refer to SDO-specific monograph or to Provincial HAML.

## Concentrated Electrolyte Solutions for Parenteral Administration

- **calcium injection** — pharmacy or nurse-prepared are HIGH-ALERT for ALL concentrations
  - ◊ Includes: **calcium chloride** 100 mg/mL (10%) and **calcium gluconate** 100 mg/mL (10%)
  - ◊ EXCEPTION: calcium chloride when administered in emergency situations, defer to SDO-specific procedures
- **dextrose injection** greater than 20% for IV continuous infusion
- **magnesium sulfate injection** in concentrations greater than 200 mg/mL or 20%
- **potassium injection** — ALL nurse-prepared concentrations are HIGH-ALERT
  - ◊ Pharmacy preparations are HIGH-ALERT if final concentration is greater than or equal to 80 mmol/L of K+
  - ◊ Includes: **potassium acetate** 4 mmol K+/mL (4 mmol acetate/mL), **potassium chloride** 2 mmol K+/mL, **potassium chloride** 20 mmol/100 mL minibag, **potassium phosphate** 4.4 mmol K+/mL (3 mmol phosphate/mL)
- **sodium injection** — pharmacy or nurse-prepared are HIGH-ALERT if final concentration is greater than 0.9% sodium chloride (greater than 0.154 mmol/mL Na+)
  - ◊ Includes **sodium acetate** 4 mmol/mL, **sodium bicarbonate** 1 mmol/mL, **sodium chloride** 23.4% (4 mmol/mL vial), **sodium chloride 3%** (250 mL minibag), **sodium phosphate** 4 mmol Na+/mL (3 mmol phosphate/mL)
  - ◊ EXCEPTION: sodium bicarbonate when administered in emergency situations, defer to SDO-specific procedures

### Cytotoxic Parenteral Agents

ALL parenteral routes of administration

### Insulin

ALL IV/IO/SUBCUT routes  
◊ EXCEPTION: self-administered

### Total Parenteral Nutrition (TPN)

- TPN basic solution, lipids, etc.
- ◊ Exclude lipids used outside of TPN applications

### Neuraxial Route

◊ ALL medications given as single dose or continuous infusions delivered via the spinal, epidural or spinal-epidural routes

### Peripheral Wound Infusions

◊ ALL medications given as continuous infusions including but not limited to peripheral nerve wound, pleural, paravertebral routes

### Neuromuscular Blocking Agents

- **cisatracurium, rocuronium, succinylcholine**
- ◊ ALL routes

## Opioids and High Potency Narcotics

- **fentaNYL** — ALL routes are considered HIGH-ALERT
  - ◊ INCLUDES ampoules or vials with total dose greater than 100 mcg per container and ALL patch strengths
- **HYDROmorphone** — IV/IO/SUBCUT/IM and ALL routes pediatrics
  - ◊ INCLUDES ampoules or vials with total dose greater than 2 mg per container
- **ketamine** — see Sedation Agents
- **methadone** — ALL routes
- **morphine** — IV/IO/SUBCUT/IM and ALL routes pediatrics
  - ◊ INCLUDES total dose greater than 15 mg per container for adults and total dose greater than 2 mg per container for pediatrics
- **morphine oral solution** in concentrations greater than or equal to 5 mg/mL
- **remifentanil** — ALL routes
- **SUFentanil** — ALL routes

**Narcotic Infusions** — ALL routes including IV, SUBCUT, epidural and patient controlled analgesia

## Parenteral Anticoagulants

- **argatroban, bivalirudin** — ALL IV infusions
- **dalteparin, tinzaparin** — IV/SUBCUT
  - ◊ anticoagulation during hemodialysis and ALL doses prepared in patient care area
  - ◊ EXCEPTION: when prepared by pharmacy or in a prefilled syringe
- **danaparoid, enoxaparin, eptifibatide, fondaparinux** IV/SUBCUT
  - ◊ INCLUDES ALL IV infusions and ALL doses prepared in patient care area
  - ◊ EXCEPTION: IV direct/IV intermittent/SUBCUT when prepared by pharmacy or in a prefilled syringe
- **heparin** — IV/SUBCUT
  - ◊ INCLUDES ALL IV infusions and ALL doses prepared in patient care area
  - ◊ EXCEPTION: IV intermittent/SUBCUT when prepared by pharmacy or in a 5000 unit prefilled syringe/vial or when used for CVAD maintenance

### Sedation Agents

- **chloral hydrate** — ALL routes for dose greater than 25 mg/kg per dose or 500 mg per dose
- **diazepam** — ALL routes pediatrics
- **ketamine** — IV/IO/intranasal in concentrations greater than 10 mg/mL and ALL routes pediatrics
- **LORazepam, midazolam** — IV/IO/SUBCUT continuous infusion and ALL routes pediatrics
- **propofol** — IV/IO continuous infusion and ALL routes pediatrics

### Antidotes

- **acetylcysteine** — IV route

### Miscellaneous

- **alteplase, tenecteplase** — IV/IO routes
  - ◊ EXCEPTION: alteplase when used for CVAD maintenance
- **oxytocin** — when administered for induction/augmentation of labour

### Anticonvulsant Agents

\*\*\*pediatric only\*\*\*

- **fosphenytoin, phenytoin** — IV/IO loading doses only
- **PENTobarbital, PHENobarbital**
  - ◊ ALL routes pediatrics

### Antiarrhythmic Agents

- **amiodarone, digoxin, diltiazem, ibutilide, lidocaine, procainamide, verapamil** — IV/IO infusions

EXCEPTION: when administered in emergency situations, defer to SDO-specific procedures

### Beta Blockers

- **esmolol, labetalol, metoprolol, propranolol**
  - ◊ IV/IO infusions

EXCEPTION: when administered in emergency situations, defer to SDO-specific procedures

### Vasodilators and Antihypertensives

- **enalaprilat, hydralazine, nitroglycerin, nitroprusside**
  - ◊ IV routes only

### Vasopressors and Inotropic Agents

- **DOBUTamine, DOPamine, EPINEPHrine, isoproterenol, milrinone, norepinephrine, phenylephrine, vasopressin**
  - ◊ IV/IO routes

EXCEPTION: phenylephrine when prepared by pharmacy or in a prefilled syringe