Unique Plan Description: Patient Controlled Analgesia PCA Adult/Pediatric Subphase
Plan Selection Display: Patient Controlled Analgesia PCA Adult/Pediatric Subphase
PlanType: Medical
Version: 8
Begin Effective Date: 2/12/2015 12:36
End Effective Date: Current
Available at all facilities

Patient Controlled Analgesia PCA Adult/Pediatric Subphase

Vital Signs/Monitoring
Enter physician and/or service pager and contact information for PCA problems in Notify Provider order(NOTE)*
Notify Provider
If severe pain, insufficiently controlled with PCA settings, notify________

Patient Monitor
Pulse Oximetry, Constant Indicator (DEF)*
Cardiorespiratory and Pulse Oximetry

PCA Monitoring Parameters
Deselect the monitoring records below if patient is admitted to an ICU bed(NOTE)*

PCA Monitoring Record
If RR less than defined in PCA Monitoring Record order, stop PCA pump infusion and start Oxygen Therapy at 5L/Min to maintain O2 Sats>90%, Q2HR, 12, time(s) (DEF)*
If RR less than defined in PCA Monitoring Record order, stop PCA pump infusion and start Oxygen Therapy at 5L/Min to maintain O2 Sats>92%, Q2HR, 12, time(s)
If RR less than defined in PCA Monitoring Record order, stop PCA pump infusion and start Oxygen Therapy at 5L/Min to maintain O2 Sats>95%, Q2HR, 12, time(s)

+24 Hours PCA Monitoring Record
If RR less than defined in PCA Monitoring Record order, stop PCA pump infusion and start Oxygen Therapy at 5L/Min to maintain O2 Sats>90%, Q4HR (DEF)*
If RR less than defined in PCA Monitoring Record order, stop PCA pump infusion and start Oxygen Therapy at 5L/Min to maintain O2 Sats>92%, Q4HR
If RR less than defined in PCA Monitoring Record order, stop PCA pump infusion and start Oxygen Therapy at 5L/Min to maintain O2 Sats>95%, Q4HR

Nursing
Patient must have IV access while on PCA. Order appropriate Intravenous Access Device orders for access, management and flushes, if not previously ordered.(NOTE)*
Saline flushes and locking are the preferred options whenever feasible.(NOTE)*
Volume of flushes varies according to patient/catheter size. Refer to policy.(NOTE)*

Peripheral IV Adult
Peripheral IV Insertion
Peripheral Venous IV
PIV Flush - Normal Saline Flush.
10 mL, INJ, Q12HR
Comments: Flush device if not in continuous use.

PIV Flush - Normal Saline Flush.
10 mL, INJ, PRN, PRN Other (see comment)
Comments: Flush device with each use.

Peripheral IV Pediatric
Peripheral IV Insertion
Peripheral Venous IV
PIV Flush - Normal Saline Flush.
2 mL, INJ, Q4HR
Comments: Flush device if not in continuous use.

PIV Flush - Normal Saline Flush.
2 mL, INJ, PRN, PRN Other (see comment)
Comments: Flush device with each use.

NS flush is preferred in patients with peripheral lines. However, if patient condition requires heparin flushes, order scheduled heparin flush below instead of scheduled saline order above.(NOTE)*

PIV Flush - Heparin Flush 10 units/1 mL
2 mL, INJ, Q4HR
Comments: Flush device if not in continuous use. Flush with Normal Saline prior to Heparin Flush.

PIV Flush - Heparin Flush 10 units/1 mL
2 mL, INJ, PRN, PRN Other (see comment)
Comments: Flush device if not in continuous use. Flush with Normal Saline prior to Heparin...
Flush.

**Continuous Infusions**

Do not discontinue IV fluids. If no current IV orders, run Dextrose 5% 0.2% NaCl at KVO rate for patients <=50kg or Dextrose 5% in water for patients >50kg. (NOTE)*

Default infusion rate for IV fluids = 2 mL/hour (KVO) - Please change to desired rate (NOTE)*

<table>
<thead>
<tr>
<th>Infusion Rate</th>
<th>Volume</th>
<th>Rate</th>
<th>Route</th>
<th>Medication</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000 mL</td>
<td>2 mL/hr</td>
<td>IV</td>
<td>Injection</td>
<td>D5W IVF</td>
</tr>
<tr>
<td>1,000 mL</td>
<td>2 mL/hr</td>
<td>IV</td>
<td>Injection</td>
<td>D5-1/4NS IVF</td>
</tr>
</tbody>
</table>

**Medications**

While patient is on PCA infusion, additional narcotic or sedative medication may be ordered only by physician or service responsible for PCA oversight (NOTE)*

**morphine** 1 mg/mL in NS 30mL PREMIX PCA

- 30 mL, IV, Q24HR, 10, day(s), Hard Stop, as directed

**hydromorphone** 0.2 mg/mL in NS 30mL PREMIX PCA

- 30 mL, IV, Q24HR, 10, day(s), Hard Stop, as directed

**HIGH DOSE** concentration of morphine and hydromorphone reserved for Oncology Unit opioid tolerant patients. (NOTE)*

**morphine** 5 mg/mL in NS 30mL **HIGH DOSE** PREMIX PCA

- 30 mL, IV, Q24HR, 10, day(s), Hard Stop, as directed

Comments: **reserved for Oncology Unit opioid tolerant patients**

**hydromorphone** 1 mg/mL in NS 30mL **HIGH DOSE** PCA

- 30 mL, IV, Q24HR, 10, day(s), Hard Stop, as directed

Comments: **reserved for Oncology Unit opioid tolerant patients**

For Patients <= 50 kg (NOTE)*

Naloxone dose for patients < 20 kg (NOTE)*

<table>
<thead>
<tr>
<th>Naloxone IV</th>
<th>(mg/kg)</th>
<th>Route</th>
<th>PRN</th>
<th>(DEF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05 mg/kg</td>
<td>IV, Injection</td>
<td>PRN</td>
<td>PRN Opiod Depression</td>
<td>(DEF)*</td>
</tr>
<tr>
<td>0.1 mg/kg</td>
<td>IV, Injection</td>
<td>PRN</td>
<td>PRN Opiod Depression</td>
<td>(DEF)*</td>
</tr>
</tbody>
</table>

Naloxone dose for patients >= 20 kg and <= 50 kg (NOTE)*

<table>
<thead>
<tr>
<th>Naloxone IV</th>
<th>(mg/kg)</th>
<th>Route</th>
<th>PRN</th>
<th>(DEF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2 mg</td>
<td>IV, Injection</td>
<td>PRN</td>
<td>PRN Opiod Depression</td>
<td>(DEF)*</td>
</tr>
</tbody>
</table>

For Patients > 50 kg (NOTE)*

Naloxone IV

<table>
<thead>
<tr>
<th>Naloxone IV</th>
<th>(mg/kg)</th>
<th>Route</th>
<th>PRN</th>
<th>(DEF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2 mg</td>
<td>IV, Injection</td>
<td>PRN</td>
<td>PRN Opiod Depression</td>
<td>(DEF)*</td>
</tr>
</tbody>
</table>

Promethazine IV (mg/kg)

<table>
<thead>
<tr>
<th>Promethazine IV</th>
<th>(mg/kg)</th>
<th>Route</th>
<th>Q6HR</th>
<th>PRN Nausea/Vomiting</th>
<th>(DEF)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.25 mg/kg</td>
<td>IV, Injection</td>
<td>Q6HR</td>
<td>PRN Nausea/Vomiting</td>
<td>(DEF)*</td>
<td></td>
</tr>
<tr>
<td>0.5 mg/kg</td>
<td>IV, Injection</td>
<td>Q6HR</td>
<td>PRN Nausea/Vomiting</td>
<td>(DEF)*</td>
<td></td>
</tr>
<tr>
<td>1 mg/kg</td>
<td>IV, Injection</td>
<td>Q6HR</td>
<td>PRN Nausea/Vomiting</td>
<td>(DEF)*</td>
<td></td>
</tr>
</tbody>
</table>

DiphenhydRAMINE oral liquid (mg/kg)

<table>
<thead>
<tr>
<th>DiphenhydRAMINE oral liquid</th>
<th>(mg/kg)</th>
<th>Route</th>
<th>Q4HR</th>
<th>PRN Itch</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mg/kg</td>
<td>PO, Liquid</td>
<td>Q4HR</td>
<td>PRN Nausea</td>
<td>(DEF)*</td>
</tr>
</tbody>
</table>

DiphenhydRAMINE IV (mg/kg)

<table>
<thead>
<tr>
<th>DiphenhydRAMINE IV</th>
<th>(mg/kg)</th>
<th>Route</th>
<th>Q4HR</th>
<th>PRN Itch</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mg/kg</td>
<td>IV, Injection</td>
<td>Q4HR</td>
<td>PRN Itch</td>
<td>(DEF)*</td>
</tr>
</tbody>
</table>

For Patients > 50 kg (NOTE)*

<table>
<thead>
<tr>
<th>Naloxone IV</th>
<th>(mg/kg)</th>
<th>Route</th>
<th>PRN</th>
<th>(DEF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2 mg</td>
<td>IV, Injection</td>
<td>PRN</td>
<td>PRN Opiod Depression</td>
<td>(DEF)*</td>
</tr>
</tbody>
</table>

Promethazine IV

<table>
<thead>
<tr>
<th>Promethazine IV</th>
<th>(mg/kg)</th>
<th>Route</th>
<th>Q6HR</th>
<th>PRN Nausea</th>
<th>(DEF)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.25 mg</td>
<td>IV, Injection</td>
<td>Q6HR</td>
<td>PRN Nausea</td>
<td>(DEF)*</td>
<td></td>
</tr>
</tbody>
</table>

DiphenhydRAMINE oral solid

<table>
<thead>
<tr>
<th>DiphenhydRAMINE oral solid</th>
<th>(mg/kg)</th>
<th>Route</th>
<th>Tab</th>
<th>Q4HR</th>
<th>PRN Itch</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 mg</td>
<td>PO, Tab</td>
<td>Q4HR</td>
<td>PRN Nausea</td>
<td>(DEF)*</td>
<td></td>
</tr>
</tbody>
</table>

DiphenhydRAMINE IV

<table>
<thead>
<tr>
<th>DiphenhydRAMINE IV</th>
<th>(mg/kg)</th>
<th>Route</th>
<th>Q4HR</th>
<th>PRN Itch</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.5 mg</td>
<td>IV, Injection</td>
<td>Q4HR</td>
<td>PRN Itch</td>
<td>(DEF)*</td>
</tr>
</tbody>
</table>

**Other**

Subphase Activated

*Report Legend:

DEF - This order sentence is the default for the selected order
GOAL - This component is a goal