ASPIRIN DESENSITIZATION

Location

- Desensitization must be done in an ICU

Aspirin Solution Preparation

- Dissolve 2 tablets of 81 mg chewable aspirin in 162 ml of water (Final concentration: **1mg/ml**)
- Draw up appropriate dose in each syringe and label as dose #1, dose #2, etc. based on physician’s order (for doses less than 40 mg)
  - 0.1 mg = 0.1 ml
  - 0.3 mg = 0.3 ml
  - 1 mg = 1 ml, etc
- Tablets in Omnicell can be used for doses of 40 mg or greater
  - 40 mg = Half of 81 mg tablet
  - 81 mg = One 81 mg tablet
  - 162 mg = Two 81 mg tablets
  - 325 mg = One 325 mg tablet

Order Entry

- When entering the aspirin dose in the order, please enter each dose as a one-time dose and schedule each dose at the appropriate administration time.
- Enter the aspirin solution doses as Non-Formulary
- Tablet doses can be entered as the regular aspirin entry
- If needing to reschedule aspirin desensitization, remember to select the new start time for the first dose and then appropriately reschedule all subsequent doses for the appropriate intervals based on physician’s order

Pre-Medications

- Should NOT pre-medicate patient for desensitization since allergic reaction symptoms may be masked by pre-medication
- If reaction occurs during desensitization, allergist should be notified
- Possible medications that can be given for allergic reaction include diphenhydramine, epinephrine, and corticosteroids
Example Desensitization Protocol (Dr. Akhtar's [allergist] previous order)

(This protocol is only one of many protocols [allergist to specify protocol])

<table>
<thead>
<tr>
<th>Dose #</th>
<th>Time in Minutes</th>
<th>Aspirin dose (mg)</th>
<th>Time (if starting at 9am)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0.1</td>
<td>09:00</td>
</tr>
<tr>
<td>2</td>
<td>15</td>
<td>0.3</td>
<td>09:15</td>
</tr>
<tr>
<td>3</td>
<td>30</td>
<td>1</td>
<td>09:30</td>
</tr>
<tr>
<td>4</td>
<td>45</td>
<td>3</td>
<td>09:45</td>
</tr>
<tr>
<td>5</td>
<td>60</td>
<td>6</td>
<td>10:00</td>
</tr>
<tr>
<td>6</td>
<td>75</td>
<td>10</td>
<td>10:15</td>
</tr>
<tr>
<td>7</td>
<td>90</td>
<td>20</td>
<td>10:30</td>
</tr>
<tr>
<td>8</td>
<td>110</td>
<td>40</td>
<td>10:50</td>
</tr>
<tr>
<td>9</td>
<td>130</td>
<td>81</td>
<td>11:10</td>
</tr>
<tr>
<td>10</td>
<td>150</td>
<td>162</td>
<td>11:30</td>
</tr>
<tr>
<td>11</td>
<td>180</td>
<td>325</td>
<td>12:00</td>
</tr>
</tbody>
</table>

Pharmnet Screen Shot

Dose #11 aspirin 325 mg / 1 tab Tab Oral Once 10/04/11 12:00 10/04/11 12:30 [p] MED
Dose #10 aspirin chew 162 mg / 2 tab Tab Chew Chewed Once 10/04/11 11:30 10/04/11 11:54 [p] MED
Dose #8 aspirin chew 40.5 mg / 0.5 tab Tab Chew Chewed Once 10/04/11 10:50 10/04/11 11:25 [p] MED
Dose #9 aspirin chew 81 mg / 1 tab Tab Chew Chewed Once 10/04/11 11:10 10/04/11 11:42 [p] MED
Dose #1 NF - aspirin oral solution 1 mg/ml 0.1 mg / 0.1 mL Oral Soln Oral Once 10/04/11 09:00 10/04/11 09:23 [p] MED
Dose #2 NF - aspirin oral solution 1 mg/ml 0.3 mg / 0.3 mL Oral Soln Oral Once 10/04/11 09:15 10/04/11 09:37 [p] MED
Dose #6 NF - aspirin oral solution 1 mg/ml 10 mg Oral Soln Oral Once 10/04/11 10:15 10/04/11 10:46 [p] MED
Dose #7 NF - aspirin oral solution 1 mg/ml 1 mg/ml Oral Soln Oral Once 10/04/11 09:30 10/04/11 09:58 [p] MED
Dose #4 NF - aspirin oral solution 1 mg/ml 3 mg=3ml Oral Syringe Oral Once 10/04/11 09:45 10/04/11 10:08 [p] MED
Dose #5 NF - aspirin oral solution 1 mg/ml 6 mg=6ml Oral Soln Oral Once 10/04/11 10:00 10/04/11 10:36 [p] MED

References