

Rapid Penicillin Desensitization Protocol - IV or Oral [3706]

Patient must be in ICU setting with continuous monitoring.

Notify Physician

Notify Physician

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| <input checked="" type="checkbox"/> Notify physician if patient needs treatment with any PRN medication due to a reaction to the desensitization protocol. | Routine, Until discontinued, Starting S, Notify physician if patient needs treatment with any PRN medication for a reaction to the desensitization protocol. |
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Nursing

Monitoring Parameters:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Vital signs - T/P/R/BP | Routine, As needed
Vitals prior to each dose of desensitization protocol |
| <input checked="" type="checkbox"/> Maintain IV access | Routine, Until discontinued, Starting S
Maintain IV access at all time, Start Normal Saline (0.9%) at a rate of 20 mL/hr if previous access has not been established |
| <input checked="" type="checkbox"/> Have code blue cart readily available prior to starting desensitization orders. | Routine, Once For 1 Occurrences
Have code blue cart readily available prior to starting desensitization orders. |

IV Fluids

Start Normal Saline (0.9%) at 20 mL/hr if previous IV access has not been established

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| <input type="checkbox"/> sodium chloride 0.9 % infusion | intravenous, at 20 mL/hr, continuous
Maintain IV access at all times. |
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Medications

Penicillin Desensitization - Oral or Intravenous Protocols (Single Response)

- | () Penicillin Desensitization Orders - Oral Solutions | "Followed by" Linked Panel |
|--|---|
| <input type="checkbox"/> penicillin V (1000 units/mL) oral solution - desensitization soln A | 100 Units, oral, once, Starting H+1 Hours, For 1 Doses
Dose 1 |
| <input type="checkbox"/> penicillin V (1000 units/mL) oral solution - desensitization soln A | 200 Units, oral, once, Starting H+75 Minutes, For 1 Doses
Dose 2 |
| <input type="checkbox"/> penicillin V (1000 units/mL) oral solution - desensitization soln A | 400 Units, oral, once, Starting H+90 Minutes, For 1 Doses
Dose 3 |
| <input type="checkbox"/> penicillin V (1000 units/mL) oral solution - desensitization soln A | 800 Units, oral, once, Starting H+105 Minutes, For 1 Doses
Dose 4 |
| <input type="checkbox"/> penicillin V (1000 units/mL) oral solution - desensitization soln A | 1,600 Units, oral, once, Starting H+2 Hours, For 1 Doses
Dose 5 |
| <input type="checkbox"/> penicillin V (1000 units/mL) oral solution - desensitization soln A | 3,200 Units, oral, once, Starting H+135 Minutes, For 1 Doses
Dose 6 |
| <input type="checkbox"/> penicillin V (1000 units/mL) oral solution - desensitization soln A | 6,400 Units, oral, once, Starting H+150 Minutes, For 1 Doses
Dose 7 |
| <input type="checkbox"/> penicillin V (10,000 units/mL) oral solution - desensitization soln B | 12,000 Units, oral, once, Starting H+165 Minutes, For 1 Doses
Dose 8 |
| <input type="checkbox"/> penicillin V (10,000 units/mL) oral solution - desensitization soln B | 24,000 Units, oral, once, Starting H+3 Hours, For 1 Doses
Dose 9 |
| <input type="checkbox"/> penicillin V (10,000 units/mL) oral solution - desensitization soln B | 48,000 Units, oral, once, Starting H+195 Minutes, For 1 Doses
Dose 10 |
| <input type="checkbox"/> penicillin V (80,000 units/mL) oral solution - desensitization soln C | 80,000 Units, oral, once, Starting H+210 Minutes, For 1 Doses
Dose 11 |
| <input type="checkbox"/> penicillin V (80,000 units/mL) oral solution - desensitization soln C | 160,000 Units, oral, once, Starting H+225 Minutes, For 1 Doses
Dose 12 |
| <input type="checkbox"/> penicillin V (80,000 units/mL) oral solution - desensitization soln C | 320,000 Units, oral, once, Starting H+4 Hours, For 1 Doses
Dose 13 |

[] penicillin V (80,000 units/mL) oral solution - desensitization soln C	640,000 Units, oral, once, Starting H+255 Minutes, For 1 Doses Dose 14
() Penicillin Desensitization Orders - IV Solutions "Followed by" Linked Panel	
[] penicillin G (400 units/mL) IV piggyback - desensitization bag 1	200 Units, intravenous, at 2 mL/hr, for 15 Minutes, once, Starting H+60 Minutes, For 1 Doses Dose #1: Begin Bag 1 (Dose = 200 units (VTBI = 0.5 mL)) infusion at 2mL/hr for 15 minutes, then increase rate to 5mL/hr on the next order using this same Bag 1.
[] penicillin G (400 units/mL) IV piggyback - desensitization bag 1	500 Units, intravenous, at 5 mL/hr, for 15 Minutes, once, Starting H+75 Minutes, For 1 Doses Dose #2: Continue Bag 1 (Dose = 500 units (VTBI = 1.25 mL)) infusion at 5mL/hr for 15 minutes, then increase rate to 10mL/hr on the next order using this same Bag 1.
[] penicillin G (400 units/mL) IV piggyback - desensitization bag 1	1,000 Units, intravenous, at 10 mL/hr, for 15 Minutes, once, Starting H+90 Minutes, For 1 Doses Dose #3: Continue Bag 1 (Dose = 1000 units (VTBI = 2.5 mL)) infusion at 10mL/hr for 15 minutes, then increase rate to 20mL/hr on the next order using this same Bag 1.
[] penicillin G (400 units/mL) IV piggyback - desensitization bag 1	2,000 Units, intravenous, at 20 mL/hr, for 15 Minutes, once, Starting H+105 Minutes, For 1 Doses Dose #4: Continue Bag 1 (Dose = 2000 units (VTBI = 5 mL)) infusion at 20mL/hr for 15 minutes, then STOP this infusion. Start next infusion using Bag 2.
[] penicillin G (4,000 units/mL) IV piggyback - desensitization bag 2	5,000 Units, intravenous, at 5 mL/hr, for 15 Minutes, once, Starting H+120 Minutes, For 1 Doses Dose #5: Begin Bag 2 (Dose = 5000 units (VTBI = 1.25 mL)) infusion at 5mL/hr for 15 minutes, then increase rate to 10mL/hr on the next order using this same Bag 2.
[] penicillin G (4,000 units/mL) IV piggyback - desensitization bag 2	10,000 Units, intravenous, at 10 mL/hr, for 15 Minutes, once, Starting H+135 Minutes, For 1 Doses Dose #6: Continue Bag 2 (Dose = 10,000 units (VTBI = 2.5 mL)) infusion at 10mL/hr for 15 minutes, then increase rate to 20mL/hr on the next order using this same Bag 2.
[] penicillin G (4,000 units/mL) IV piggyback - desensitization bag 2	20,000 Units, intravenous, at 20 mL/hr, for 15 Minutes, once, Starting H+150 Minutes, For 1 Doses Dose #7: Continue Bag 2(Dose = 20,000 units (VTBI = 5 mL)) infusion at 20mL/hr for 15 minutes, then increase rate to 40mL/hr on the next order using this same Bag 2.
[] penicillin G (4,000 units/mL) IV piggyback - desensitization bag 2	40,000 Units, intravenous, at 40 mL/hr, for 15 Minutes, once, Starting H+165 Minutes, For 1 Doses Dose #8: Continue Bag 2 (Dose = 40,000 units (VTBI = 10 mL)) infusion at 40mL/hr for 15 minutes, then STOP this infusion. Start next infusion using Bag 3.
[] penicillin G (40,000 units/mL) IV piggyback - desensitization bag 3	100,000 Units, intravenous, at 10 mL/hr, for 15 Minutes, once, Starting H+180 Minutes, For 1 Doses Dose #9: Begin Bag 3 (Dose = 100,000 units (VTBI = 2.5 mL)) infusion at 10mL/hr for 15 minutes, then increase rate to 20mL/hr on the next order using this same Bag 3.
[] penicillin G (40,000 units/mL) IV piggyback - desensitization bag 3	200,000 Units, intravenous, at 20 mL/hr, for 15 Minutes, once, Starting H+195 Minutes, For 1 Doses Dose #10: Continue Bag 3 (Dose = 200,000 units (VTBI = 5 mL)) infusion at 20mL/hr for 15 minutes, then increase rate to 40mL/hr on the next order using this same Bag 3.
[] penicillin G (40,000 units/mL) IV piggyback - desensitization bag 3	400,000 Units, intravenous, at 40 mL/hr, for 15 Minutes, once, Starting H+210 Minutes, For 1 Doses Dose #11: Continue Bag 3 (Dose = 400,000 units (VTBI = 10 mL)) infusion at 40mL/hr for 15 minutes, then increase rate to 79mL/hr on the next order using this same Bag 3.
[] penicillin G (40,000 units/mL) IV piggyback - desensitization bag 3	3,220,000 Units, intravenous, at 79 mL/hr, for 61 Minutes, once, Starting H+225 Minutes, For 1 Doses Dose #12: Continue Bag 3 (Dose = 3,200,000 units (VTBI = 80.5 mL)) infusion at 79mL/hr for 61 minutes, then STOP this infusion.

If patient develops a mild reaction such as itching, flushing, hives, self-limiting rash, or nausea with normal vital signs while undergoing desensitization, stop the medication and give:

[X] diphenhydrAMINE (BENADRYL) injection	25 mg, intravenous, once PRN, mild desensitization reaction Notify provider if this medication is used to manage a reaction to the desensitization protocol.
[X] hydrOXYzine (ATARAX) tablet	25 mg, oral, once PRN, itching, mild desensitization reaction Notify provider if this medication is used to manage a reaction to the desensitization protocol.
[X] fexofenadine (ALLEGRA) tablet	60 mg, oral, once PRN, allergies, mild desensitization reaction Notify provider if this medication is used to manage a reaction to the desensitization protocol.
[X] Famotidine (PEPCID) IV/PO	"Or" Linked Panel
[X] famotidine (PEPCID) tablet	20 mg, oral, once PRN, heartburn, mild desensitization reaction Notify provider if this medication is used to manage a reaction to the desensitization protocol. May crush and give per nasogastric tube if needed. Give the tablet if the patient can tolerate oral medication.
[X] famotidine (PEPCID) injection	20 mg, intravenous, once PRN, mild desensitization reaction Notify provider if this medication is used to manage a reaction to the desensitization protocol. Use injection if patient cannot tolerate oral medication or requires a faster onset of action. Per Med Staff Policy, R.Ph. will automatically switch IV to equivalent PO dose when above approved criteria are satisfied:

If patient develops a moderate reaction such as mild dyspnea or angioedema with normal vital signs, while undergoing desensitization stop the medication and give:

[X] diphenhydrAMINE (BENADRYL) injection	50 mg, intravenous, once PRN, moderate desensitization reaction Notify provider if this medication is used to manage a reaction to the desensitization protocol.
[X] methylPREDNISolone sodium succinate (Solu-MEDROL) injection	40 mg, intravenous, once PRN, moderate desensitization reaction Notify provider if this medication is used to manage a reaction to the desensitization protocol.

If patient develops a severe reaction such as hypotension, throat swelling, wheezing/respiratory distress, or decreased oxygen saturation with normal vital signs while undergoing desensitization, stop the medication and treat immediately with:

[X] epINEPHrine (ADRENALIN) 1 mg/1 mL injection	0.3 mg, intramuscular, once PRN, anaphylaxis, severe desensitization reaction Notify provider if this medication is used to manage a reaction to the desensitization protocol.
[X] famotidine (PEPCID) injection	20 mg, intravenous, once PRN, severe desensitization reaction Notify provider if this medication is used to manage a reaction to the desensitization protocol. Per Med Staff Policy, R.Ph. will automatically switch IV to equivalent PO dose when above approved criteria are satisfied:
[X] Supplemental Oxygen for severe reaction	STAT, Once For 1 Occurrences Give supplementary oxygen by facial mask and place the patient in a recumbent position for severe reaction. Notify provider if oxygen was used to manage a reaction to the desensitization protocol.
[X] methylPREDNISolone sodium succinate (Solu-MEDROL) injection	60 mg, intravenous, once PRN, severe desensitization reaction Notify provider if this medication is used to manage a reaction to the desensitization protocol.
[X] albuterol (PROVENTIL) nebulizer solution	5 mg, nebulization, every 30 min PRN, wheezing, severe desensitization reaction Notify provider if this medication is used to manage a reaction to the desensitization protocol. Aerosol Delivery Device: Hand-Held Nebulizer

Labs

Respiratory

Additional Orders