

MVH - PROCEDURE

ORIGINAL DATE: 05/18

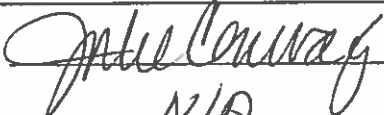
REVISED:


SUBJECT: MEDICATION ROUTE: INJECTIONS

PURPOSE: To outline care objectives and procedures for the clinical management of medication administered via Injections.

PROCEDURE:

1. MVH has adopted the VNAA recommended Hospice and Palliative Care approach as outlined in Section: 12.10. (See attached)

Nature of Change	N/A - New	
CCO Signature:		<u>5/21/18</u> Date
CEO Signature:	N/A	<u> / / </u> Date



11. Place needle appropriate for injection on syringe.
12. Dispose ampule and filter needle in sharps container.

Preparing medication from a vial

1. Remove metal cap and firmly wipe rubber seal with alcohol swab, allow to dry.
2. Prepare needle and syringe. Remove needle cap. Pull back on plunger to draw amount of air into syringe equivalent to volume of medication to be aspirated from vial.
3. Insert needle through center of rubber seal.
4. Inject air into vial's air space.
5. Invert vial, keeping hold on syringe and plunger.
6. Keep tip of needle in fluid and withdraw medication. Air pressure from vial will help fill syringe with medication.
7. When desired volume obtained, position needle into vial's airspace. Tap side of syringe gently to dislodge any air bubbles. Eject any air remaining at top of syringe into vial.
8. Hold syringe at eye level, 90° angle, with vial inverted, to ensure correct volume and absence of air bubbles.
9. Remove needle from vial and recap.

Preparing medication from vial containing a powder

1. Remove caps covering vial with powdered medication and proper diluents. Swab both rubber seals with alcohol swab, allow to dry.
2. Draw up manufacturers suggested volume of diluent into syringe.
3. Insert tip of needle through center of vial with powdered medication. Inject diluent into vial.
4. Remove needle from vial and discard needle/syringe in sharps container.
5. Mix medication thoroughly. Roll in palms. Do not shake. Medication usually becomes clear when completely dissolved.
6. Medication ready to be drawn into new needle/syringe.
7. Read label carefully to determine mLs for dose after reconstitution.
8. Draw up reconstituted medication.

Intradermal injection procedure

1. Follow Basic Injection Procedure through to step 8.
2. Hold syringe between thumb and forefinger of dominant hand with bevel of needle pointing up.
3. With non-dominant hand, stretch skin over site with forefinger or thumb.

4. With needle almost against patient's skin, insert slowly at 5° - 15° angle until resistance is felt. Advance needle through epidermis approximately 3 mm (1/8 inch) below skin surface. Needle tip can be seen through skin.
5. Inject medication slowly. Small bleb (about 6 mm [1/4 inch]) resembling a mosquito bite will appear on skin surface while injecting.
6. Withdraw needle. Apply gauze gently over site without pressure, which can displace medication.
7. Immediately discard needle/syringe in sharps container.
8. Remove gloves. Perform hand hygiene.

Intramuscular injection procedure

1. Follow Basic Injection Procedure through to step 8.
2. Hold syringe between thumb and forefinger of dominant hand; hold as dart, palm down.
3. Pull skin just below site laterally 2.5 to 3.5 cm. Hold skin laterally until drug injected.
4. Inject needle quickly.
5. If medication's directions indicate, aspirate by pulling back on plunger 5 - 10 seconds. If blood, withdraw needle, discard in sharps container. Prepare new injection.
6. Inject drug slowly; rate 1 mL/10 seconds.
7. Wait 10 seconds, if possible, before withdrawing needle.
8. Withdraw needle and release skin.
9. Apply gauze over site with gentle pressure. Do not massage site.
10. Apply bandaid if needed.
11. Immediately discard needle/syringe in sharps container.
12. Remove gloves. Perform hand hygiene.

Subcutaneous injection procedure

1. Follow *Basic Injection Procedure* through to step 8.
2. Grasp skin fold at site with thumb and forefinger.
3. Hold syringe between thumb and forefinger with dominant hand. Hold as dart, palm down.
4. Inject needle quickly and firmly at 45° - 90° angle into pinched fold. Release the pinch unless using injection pen or giving heparin.
5. Slowly inject medication over 30 seconds to allow medication to disperse. Avoid moving syringe.
6. Withdraw needle quickly while placing alcohol gauze over site gently.
7. Apply gentle pressure. Do not massage.
8. Immediately dispose needle/syringe in sharps container.
9. Remove gloves. Perform hand hygiene.

AFTER CARE

1. Communicate with primary care provider if any injection complications or if medication not achieving desired effect.
2. Instruct patient/caregiver to:
 - a. Observe site for complications to report to nurse.
 - b. Review fall precautions for frail elderly patients for whom ventrogluteal or vastus lateralis sites used.
 - c. Give injections, if indicated, by following steps and by evaluating learning with return demonstration.
3. Document in patient's medical record:
 - a. Medication name, dose, time, route, and site given
 - b. Response to medication, including adverse effects and effectiveness of medication at achieving desired effect
 - c. Instructions given to patient/caregiver comprehension
 - d. Communication with primary care provider based on patient condition

REFERENCES

- Crawford, C., & Johnson, J. (2009). *To aspirate or not to aspirate: An integrative review of the evidence*. Retrieved from <http://www.stti.iupui.edu/pp07/vancouver09/41810.Crawford,%20Cecelia%20L.-F%2010.pdf>
- Harrison, R. L. (2014). Safe medication preparation. In A.G. Perry & P. A. Potter (Eds.), *Nursing skills and techniques* (8th ed.) (pp.472-491). St. Louis, MO: Mosby.
- Ostendorf, W. R. (2014). Parenteral medications. In A.G. Perry & P. A. Potter (Eds.), *Nursing skills and techniques* (8th ed.) (pp.538-586). St. Louis, MO: Mosby.
- The Joint Commission. (2014). Preventing infection from the misuse of vials. *Sentinel Event Alert*, 52. Retrieved from http://www.jointcommission.org/assets/1/6/SEA_52.pdf

CLINICIAN EDUCATION RESOURCES

- CDC. (2014).
- *Managing patient safety, one injection at a time*. <https://www.youtube.com/watch?v=iLgwA53Bt40>
 - *Check your steps: Make every injection safe*. <https://www.youtube.com/watch?v=uibofZZVcLI>