

U: Medication Administration

Major Competency Area: U
Medication Administration

Competency: U-1
Principles of Pharmacology

Date: June 1, 2015

A Licensed Practical Nurse will:

- U-1-1 Demonstrate knowledge and ability to apply critical thinking and critical inquiry throughout the nursing process related to pharmacology and medication administration.**
- U-1-2 Demonstrate knowledge of chemical drug classifications:**
- animal (hormones, enzymes)
 - chemical synthesis (antibiotics, steroidal, radioactive)
 - natural (plant, mineral, herbal remedies)
- U-1-3 Demonstrate knowledge and understanding of pharmacological principles including:**
- pharmacokinetics
 - absorption
 - distribution
 - metabolism
 - excretion
 - pharmacodynamics
 - adverse effect
 - anaphylactic/allergic reaction
 - antagonistic effect
 - complementary and alternative therapy interactions
 - desired effect
 - drug interactions
 - drug toxicity
 - duration of action
 - idiosyncratic reactions
 - synergistic effect
 - therapeutic duration

A Licensed Practical Nurse will:

- U-1-4 Demonstrate knowledge of routes for medication administration including:**
- gastrointestinal (oral, orogastric/gastric, nasogastric, rectal)
 - inhalational
 - intra-arterial
 - intracerebral
 - intradermal/epicutaneous
 - intramuscular
 - intraosseous
 - intrathecal
 - intravenous
 - intravesical
 - mucous membranes (sublingual, buccal, nasal, optic, otic)
 - percutaneous (topical)
 - subcutaneous
 - vaginal
- U-1-5 Demonstrate knowledge and understanding of medication action and effect for client across the lifespan identifying:**
- contraindications
 - lab values
 - nursing implications
 - risk factors
- U-1-6 Demonstrate knowledge and ability to access credible resources for information and research related to medications prior to administration.**
- U-1-7 Demonstrate knowledge and ability to apply infection prevention and control standards in safe storage, handling, removal and disposal of medications according to agency policy including:**
- antineoplastic
 - autoimmune
 - cytotoxic
 - hormones
 - insulin
 - narcotics
 - non-cytotoxic hazardous
 - vasodilators, bronchodilators

A Licensed Practical Nurse will:

- U-1-8 Demonstrate knowledge and ability to perform drug counts on controlled medications according to agency policy including:**
- maintain accurate record
 - accurately record addition and/or removal
 - participate in shift count and accurately record inventory
 - co-sign waste of controlled medication
- U-1-9 Demonstrate knowledge and ability to provide health teaching and coaching related to medications and medication administration.**
- U-1-10 Demonstrate knowledge and ability to communicate and collaborate with inter-professional team.**

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Competency: U-2
**Medication Preparation
and Administration**

Date: June 1, 2015

A Licensed Practical Nurse will:

- U-2-1 Demonstrate knowledge and ability to accept, process, verify and initiate written, verbal, telephone or electronic medication orders based on:**
- date and time
 - client name
 - medication name
 - dose, route, frequency, duration
 - authorized prescriber (name, signature, designation)
 - order is accurate, appropriate and complete
 - follow-up with authorized prescriber as necessary
- U-2-2 Demonstrate knowledge and ability to accurately calculate dosages, concentrations, rates and volumes using formulas and standards of measurement associated with medication administration.**
- U-2-3 Demonstrate knowledge and ability to perform additional client assessment prior to medication administration.**
- U-2-4 Demonstrate knowledge and ability to appropriately prepare medications for administration according to agency policy.**
- U-2-5 Demonstrate knowledge and ability to apply the “rights” and “checks” of medication administration to reduce risk of medication error and ensure client safety.**

A Licensed Practical Nurse will:

U-2-6 Demonstrate knowledge and ability to adhere to agency policy and procedure for safe administration of medication by:

- gastrointestinal (oral, orogastric/gastric, nasogastric, rectal)
- inhalational
- intradermal/epicutaneous
- intramuscular
- intravenous - continuous, intermittent, direct
- mucous membranes (sublingual, buccal, nasal, optic, otic)
- subcutaneous
- percutaneous (topical)
- vaginal
- intravesicular (bladder instillation)

U-2-7 Demonstrate knowledge and ability to adhere to agency policy when monitoring client receiving medication administration by:

- intraosseous
- intrathecal
- intra-arterial
- intracerebral

U-2-8 Demonstrate knowledge and ability to provide ongoing assessment, monitoring and evaluation of medication effectiveness.

U-2-9 Demonstrate knowledge and ability to recognize and manage adverse medication reaction and anaphylaxis including:

- identify signs and symptoms
- implement protocol according to agency policy

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Competency: **U-3**
Nitrous Oxide

Date: June 1, 2015

A Licensed Practical Nurse will:

U-3-1 Demonstrate knowledge and ability to administer nitrous oxide:

- identify risks and precautions
- manage adverse reactions
- provide ongoing monitoring

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Competency: U-4
Contrast Agents

Date: June 1, 2015

A Licensed Practical Nurse will:

U-4-1 Demonstrate knowledge of diagnostic imaging contrast agents.

U-4-2 Demonstrate knowledge and ability to administer diagnostic imaging contrast agents:

- identify the different types
- identify risks and precautions
- manage adverse reactions
- provide ongoing monitoring