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
 - o absorption
 - distribution
 - o metabolism
 - o excretion
- pharmacodynamics
 - o adverse effect
 - o anaphylactic/allergic reaction
 - o antagonistic effect
 - o complementary and alternative therapy interactions
 - o desired effect
 - drug interactions
 - o drug toxicity
 - o duration of action
 - o idiosyncratic reactions
 - o synergistic effect
 - o therapeutic duration

Competency: U-1

Principles of Pharmacology

Page: 2

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

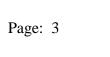
U-1-6 Demonstrate knowledge and ability to access credible resources for information and research related to medications prior to administration.

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

Competency: U-1

Principles of Pharmacology



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.

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.

Competency: U-2

Medication Preparation and Administration

Page: 2

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

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

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