

# **W: Medication Administration**

Major Competency Area: **W**  
**Medication Administration**

Competency: **W-1**  
**Principles of Pharmacology**

Date: January 16, 2017

A Licensed Practical Nurse will:

**W-1-1 Demonstrate knowledge and ability to apply critical thinking and critical inquiry throughout the nursing process related to pharmacology and medication administration.**

**W-1-2 Demonstrate knowledge of chemical drug classifications:**

- animal (hormones, enzymes)
- chemical synthesis (antibiotics, steroidal, radioactive)
- natural (plant, mineral, herbal remedies)

**W-1-3 Demonstrate knowledge and understanding of pharmacological principles including:**

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

A Licensed Practical Nurse will:

- W-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, transdermal)
  - subcutaneous
  - vaginal
- W-1-5 Demonstrate knowledge and understanding of medication action and effect for client across the lifespan identifying:**
- contraindications
  - lab values
  - nursing implications
  - risk factors
- W-1-6 Demonstrate knowledge and ability to access credible resources for information and research related to medications prior to administration.**
- W-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:

- W-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
- W-1-9        Demonstrate knowledge and ability to provide health teaching and coaching related to medications and medication administration.**
- W-1-10       Demonstrate knowledge and ability to communicate and collaborate with inter-professional team.**

Major Competency Area: **W**  
**Medication Administration**

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

Date: January 16, 2017

A Licensed Practical Nurse will:

- W-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
- W-2-2 Demonstrate knowledge and ability to accurately calculate dosages, concentrations, rates and volumes using formulas and standards of measurement associated with medication administration.**
- W-2-3 Demonstrate knowledge and ability to perform additional client assessment prior to medication administration.**
- W-2-4 Demonstrate knowledge and ability to appropriately prepare medications for administration according to agency policy.**
- W-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.**

View the Direct Intravenous Push Practice Document [here](#) for more information.

A Licensed Practical Nurse will:

**W-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, IV push (direct)
- mucous membranes (sublingual, buccal, nasal, optic, otic)
- subcutaneous
- percutaneous (topical)
- vaginal
- intravesicular (bladder instillation)

**W-2-7 Demonstrate knowledge and ability to adhere to agency policy when assisting in the monitoring of a client receiving medication administration by:**

- intraosseous
- intrathecal
- intra-arterial
- intracerebral

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

**W-2-9 Demonstrate knowledge and ability to recognize and manage adverse medication reactions according to agency policy.**

**W-2-10 Demonstrate knowledge and ability to recognize and participate in the management of anaphylaxis in accordance to agency policy.**

Major Competency Area: **W**  
**Medication Administration**

Competency: **W-3**  
**Nitrous Oxide**

Date: January 16, 2017

A Licensed Practical Nurse will:

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

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

Major Competency Area: **W**  
**Medication Administration**

Competency: **W-4**  
**Immunizations**

Date: January 16, 2017

View the Immunization Practice Guideline [here](#) for more information.

A Licensed Practical Nurse will:

- W-4-1 Demonstrate knowledge and ability to provide immunizations in accordance with professional Legislation, Regulation, Standards and Guidelines.**
- W-4-2 Demonstrate knowledge of concept of immunity and principles of communicable disease prevention and control.**
- W-4-3 Demonstrate knowledge of anatomy, physiology and pathophysiology of communicable diseases.**
- W-4-4 Demonstrate knowledge of the action, purpose, uses and nature of common immunizing/biological agents.**
- W-4-5 Demonstrate knowledge and ability to identify the factors which affect the action of immunizing/biological agents.**
- W-4-6 Demonstrate knowledge and ability to identify side effects, adverse effects, and contraindications of common immunizing/biological agents, and report appropriately.**
- W-4-7 Demonstrate knowledge and ability to adhere to the legal responsibilities, policy, procedure, and scope of practice in the preparation and administration of immunizing/biological agents.**
- W-4-8 Demonstrate knowledge and ability to maintain the cold chain in the transportation and storage of immunizing/biological agents.**
- W-4-9 Demonstrate knowledge and ability to review pertinent health information of client prior to immunization.**
- W-4-10 Demonstrate knowledge and ability to document assessment and nursing actions related to risk factors.**



Competency: **W-4**  
**Immunizations**

Date: January 16, 2017

**W-4-11 Demonstrate knowledge and ability to perform critical elements to ensure safety in preparation and administration of immunizing/biological agent.**

**W-4-12 Demonstrate knowledge and ability to ensure client, family or guardian has sufficient information to give informed consent for immunization including:**

- name of immunizing/biological agent to be administered
- disease being prevented
- benefits of immunizing/biological agent
- common side effects
- risks and rare side effects
- rationale for 15-30 minute wait following injection
- contact for follow-up or emergency

**W-4-13 Demonstrate knowledge and ability to record immunizing/biological agent administration and client's response.**

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