

# Connecticut Uniform Interagency Medication Administration Certification Program



## Student Manual

Name: \_\_\_\_\_



## **State of Connecticut Uniform Interagency Medication Administration Certification Training Program**

Welcome to the Uniform Interagency Medication Administration Certification Training Program. The Department of Developmental Services (DDS), Department of Children and Families (DCF), Department of Public Health (DPH), and stakeholders have collaboratively developed an interagency uniform curriculum for medication administration certification. This curriculum is entitled the “Uniform Interagency Medication Administration Certification Training Program” and represents Phase 1 of the medication administration certification process, which has reciprocity for all three state agencies and associated providers.

The goal of this training is to prepare non-licensed personnel to safely administer medications to individuals who are supported by the Department of Children and Families (DCF), Department of Developmental Services (DDS), and Department of Public Health (DPH).

This Student Manual shall be used in conjunction with the online self-paced Medication Administration Training Program as well as with classroom courses. This course represents Phase 1 of a two-phase certification process which will enable the participants to safely administer medications. At the completion of this training the participant will receive a certificate acknowledging completion of Phase 1. Phase 2 consists of an agency-specific training which focuses on processes which are unique to the one or more of the three specified state agency affiliates, DCF, DDS, and DPH.

## **State of CT Medication Administration Program Statement**

The Department of Children and Families, Department of Developmental Services, and Department of Public Health are collaboratively committed to providing high quality training which adheres to Connecticut state statutes and regulations for non-licensed personnel to administer medications.

## **State of CT Medication Administration Program Statutory and Regulatory Authority**

The medication administration training program was established in accordance with the State of Connecticut General Statute 370, Section 20-14h-j. DCF regulation 12a-6(g)-12-16, DDS regulation Chapter 319b section 17a-210-1-10, and DSS regulation section 20-14-j of the CGS to provide training for non-licensed personnel to safely administer medications to individuals who are supported by DCF, DDS and DPH.

Regulations differ for each state agency pertaining to nursing oversight of medication administration.

Participants are responsible for knowledge regarding agency-specific regulatory requirements for completion of the certification process.

All participants shall complete agency-specific training (Phase 2) requirements prior to receipt of medication administration certification and administering medications.

### **Eligibility Requirements for Participation**

1. High School Diploma or General Education Development (GED) high school equivalency diploma
2. Recommendation from a DCF, DDS, or DPH sponsoring agency
3. Completion of criminal background check through the employing agency
4. Review of medication certification or professional license history

## **Overview of Phase 1: Basic Medication Administration Concepts**

1. Recommendation of sponsor or employer (DDS/DCF/DPH)
2. Successful completion of online curriculum or classroom course
3. Skills verification with a State of CT Endorsed Instructor (EI) or designated registered nurse (RN)
4. Successful passing of mandatory exam at one of the approved testing sites; the passing score is 85% or above

## **Overview of Phase 2: Authorization to Administer Medication**

Phase 2 involves nursing oversight by a Connecticut licensed registered nurse. Nursing oversight varies among the three state agencies which is outlined below.

### **Department of Children and Families (DCF)**

Internship which involves supervision by a registered nurse. The supervising nurse completes and onsite practicum with the employee.

### **Department of Developmental Services (DDS)**

Nursing Delegation in which a registered nurse oversees the medication administration and other delegated tasks by employee who perform specific nursing-related responsibilities under the delegation of the licensed nurse. The delegating nurse completes an onsite practicum with the employee.

### **Department of Public Health (DPH)**

A registered nurse completes an on-site practicum with the participant/employee.

## **Certification**

The participant receives a medication administration certification certificate upon successful completion of Phases 1 and 2. Non-licensed personnel may not administer medication until they have received their certification card. Medication administration certification is valid for two years.

## **Recertification**

Medication administration certified persons may be complete their recertification up to 90-days prior to existing certification expiration date. The recertification process requires the medication certified person to submit a recertification application and to pass the recertification examination. Recertification also requires the completion of and on-site practicum with the nurse.

## **Statewide Database**

A statewide centralized database shall be maintained with a list of all persons who have successfully completed the medication administration certification process and are authorized to administer medication.

This database shall also include:

1. All Initial and Recertification documents
2. Expiration date of certification
3. Initial & Recertification Exam Scores
4. Suspensions
5. Revocations
6. Medication errors may also be included in the database

## **Program Training Curriculum**

The training curriculum is divided into 9-modules. The subject of each of the modules are outlined below.

### **Modules:**

1. Medical Terminology
2. Licensed Practitioners/Prescribers Order/Dosage verification
3. What to know about a medication and its effects on the body
4. Medication Classification
5. Medication Administration Process
6. Routes and Techniques of Medication Administration

7. Storage and Control
8. Documentation
9. Medication Errors/Revocation

### **Module Quizzes**

Quizzes are embedded in each module. The quizzes are focused on important information regarding various aspects of medication administration. Supplemental information which adds in learning is included throughout the modules; however, participants will not be tested on supplemental information, such as the names of medications.

Each quiz must be passed by 100% before proceeding to the next module. The online program will not allow participants to progress to the next module until they have achieved the quiz passing score of 100%. However, any portion of the module may be reviewed prior to retaking the quiz. There is no limit on the number of times the participant can retake a quiz in order to pass it.

## Module 1

### Objectives

Upon completion of Module 1 learners will:

1. Define abbreviations and definitions necessary for safe medication administration
2. Understand what Standard Precautions are in medication administration
3. Define the medication administration (med admin) process and the 5-Rights
4. Understand the difference between active and inactive ingredients in a medication
5. Know the difference between Brand or Trade and Generic names of medications
6. Understand off-label medication use
7. Define the three documents necessary for safe medication administration – Practitioner/Prescriber orders, medication administration record (MAR), and pharmacy label

### Abbreviations Associated with Time

Q - Every	Q2h/Q4h - Every 2 hours/every 4 hours
QD - Every Day or once daily	QH - Every Hour
BID - Twice a day	AC - Before meals
TID - Three times a day	PC - After meals
QID - Four times a day	STAT - Immediately
QOD - Every other day	HS - Hour of sleep, bedtime
PRN (Pro Re Nata- Latin phrase) - As needed	

### Abbreviations Associated with Route or Location of Administration

AS - Left ear	SL - Sublingual
AU - Both ears	NPO - Nothing by mouth

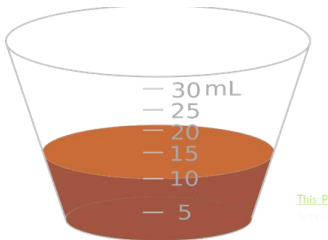
OD - Right eye  
OS - Left eye  
OU - Both eyes

Optic - Eye  
Otic - Ear  
PR - Per rectum, rectal

### **Abbreviations Associated with Medication Dosage Verification**

cc - cubic centimeter  
mcg - microgram  
oz - ounce  
i - one  
gtt - drop

gm - gram  
mg - milligram  
tsp - teaspoon  
tbsp - Tablespoon  
ml - milliliter



### **Additional Abbreviations**

NKA - No known allergies  
NKDA - No known drug allergies  
Tab - Tablet  
Cap - Capsule  
Liq - Liquid  
NTE - Not to exceed

MAR - Medication administration record  
Supp - Suppository  
D/C - Discontinue  
Rx - Prescription  
OTC - Over-the-counter

### **Standard Precautions**

The Centers for Disease Control and Prevention (CDC) recommends Standard Precautions for the care of all patients, regardless of their diagnosis or presumed infection status. Standard precautions are designed to reduce the risk of



transmission of microorganisms from both recognized and unrecognized sources of infection.

**Standard Precautions apply to:**

- 1) Blood
- 2) All body fluids, secretions, and excretions except sweat regardless of whether they contain visible blood (i.e., urine, saliva, bowel movement/stool)
- 3) Non-intact skin (i.e., cuts or abrasions)
- 4) Mucous Membranes (i.e., nose and mouth)

Standard Precautions include the use of hand washing and appropriate personal protective equipment (PPE) such as gloves, gowns, masks, eye protection, whenever contact with an individual's body fluids is anticipated (i.e., toileting, wound care, toothbrushing).

**The 5-Rights of Medication Administration**

1. Right Individual
2. Right Time
3. Right Drug
4. Right Dose
5. Right Route

*Additionally, the Right Documentation is also required. This refers to the signed practitioner's/prescriber's orders and completing the required documentation on the medication administration record (MAR) or kardex.*

**Active and Inactive Ingredients in a Medication**

**Active Ingredient**

An active ingredient is any component of a drug product intended to produce the desired effect of the medication or other direct effect in the diagnosis, cure, mitigation, treatment, or prevention of disease.

### **Inactive Ingredient**

An inactive ingredient is any component of a drug product other than the active ingredient. Examples might be preservative, coloring, flavoring.

### **Different Names of Medications – Brand/Generic**

1. When a medication is discovered, it is given a Chemical Name which describes the molecular structure of the drug. The participant will not be responsible for knowing the chemical name of a medication.
2. Once a medication is approved by the U.S. Food and Drug Administration (FDA) it is then assigned a short-hand version of the chemical name, which is known as the Generic Name (i.e. acetaminophen). The generic name of a medication is usually in lowercase letters when compared to the brand name which starts with an uppercase letter.
3. The Brand Name (i.e., Tylenol) is developed by the company requesting approval for the drug. The drug is the property of that company and is protected by a patent for that drug. The brand name of a medication starts with an uppercase letter.
4. Although a generic name is given before a brand name, the company that has the patent on the drug will sell it first as a brand name, before it is sold as a generic.
5. When the drug is no longer protected under the patent, the initial company along with the other companies can market the off-patent drug using the generic name or their own brand name

### **Brand and generic name medication examples:**

Generic name: acetaminophen

Brand name: Tylenol

Generic name: ibuprofen

Brand name: Motrin or Advil

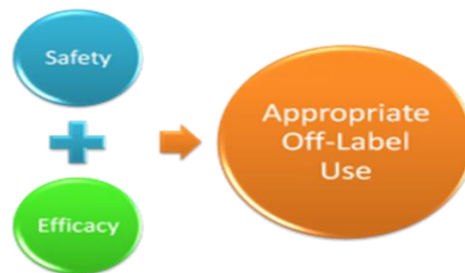
## Labeled vs Off-Label Use of a Drug

### **Labeled Use of a Medication**

FDA has evaluated the benefits and risks for that medication. The medication use is supported by scientific data. Approved labeling on how to use the drug safely and effectively. Approved for specific diseases and conditions

### **Off-Label Use of a Medication**

FDA approved the medication for a specific illness; However, the medication is being used as an off-label medication (off-label use means the medication is being used for something other than what it was intended for). A licensed practitioner has determined that this medication is appropriate for treatment of the patient. Usually, other medications have not been successful in treating the specific medical condition.



### **Examples of Off-Label Medication Use:**

#### **Neurontin (gabapentin)**

Labeled use: Seizures, Epilepsy

Off-label use: Nerve pain & Migraines

#### **Vyvanse (lisdexamfetamine dimesylate) (Available as brand name only until 2023)**

Labeled use: Attention Deficit Hyperactivity disorder (ADHD), Binge eating disorder (BED)

Off-label use: Depression

#### **Zoloft (sertraline)**

Labeled use: Depression, Obsessive compulsive disorder(OCD)

Off-label use: Generalized anxiety disorder (GAD)

### Three Documents Necessary for Safe Medication Administration

#### 1. Licensed Practitioner's/ Prescriber's Order

This may also be referred to as a **Prescription**. It is written by a medical professional who is licensed to prescribe in Connecticut.

PHYSICIAN'S ORDERS						
MONTH:	January	2015	FACILITY:	EXAMPLE FACILITY (860)563-1223	UNIT	ROOM
PATIENT'S NAME		DATE OF BIRTH	SEX	PHYSICIAN'S NAME	UNIT	ROOM
CLAUS, SANTA		01/01/01	M	FAIRY, TOOTH 1234567890 (860)555-1212	IC	02
DNR: DNI: RN MAY PRONOUNCE S/P CABG OTHER: ACUTE RENAL FAILURE: PERITONITIS/ACUTE FUNGAL TENCKHOFF/CAT: MALNUTRITION: INTESTINAL OBSTRUCTION - PARTIAL SMALL BOWEL: S/P COLOSTOMY: PERFORATED BOWEL SIGMOID: DELUSIONS OF GRANDEUR: MYOTONIA/PTDM: OSTEOPOROSIS: CHRONIC INSOMNIA						
ADMISSION DATE		01/14/05		READMISSION DATE		03/01/09
ALLERGIES			DIET		PAGE	OF
PENICILLIN: ERYTHROMYCIN: SULFAS: ASPIRIN			NAS: LOW FAT & CHOL: WHOLE CONSISTENCY		1	- 1
DEAN'S TEST						
REGULAR SCHEDULED MEDICATIONS						
04/01/09 SYNTHROID 75mcg (0.075mg) Take 1 tab by mouth every morning (Levothyroxine)						
03/01/09 COUMADIN 2mg by mouth once daily (Warfarin)						
03/01/09 SEROQUEL 100mg Take 1 tab by mouth two times daily (Quetiapine)						
03/01/09 VIACIV CHEW 500mg Take 1 tab by mouth three times daily before meals *Chew Thoroughly*						
03/01/09 AMBIEN 5mg Take 1 tab by mouth at bedtime (Zolpidem)						
03/01/09 MILK OF MAGNESIA 30ml by mouth every third day at 5pm as needed PRN (AS NEEDED) MEDICATIONS						
03/01/09 DULCOLAX 10mg SUPP Insert 1 rectally at 6AM as needed for constipation if MOM ineffective (Bisacodyl)						
03/01/09 FLEET ENEMA Insert 1 rectally on second shift as needed if no results from Dulcolax (Sodium Phosphates)						
03/01/09 TYLENOL 325mg Take 2 tabs (650mg) by mouth every four hours as needed for pain or temp greater than 101 (Acetaminophen)						
TREATMENTS						
03/01/09 BLOOD PRESSURE AND PULSE taken weekly on Friday morning.						
03/01/09 IRRIGATE COCCYX WOUND with NORMAL SALINE, pat dry apply ALOE VESTA CREAM to periwound followed by dry clean dressing daily and as needed						
03/01/09 RECORD BOWEL MOVEMENT every shift. Last BM: _____						
03/01/09 ENSURE 1 can by mouth three times daily as needed for meal refusal						
LABORATORY ORDERS						
03/01/09 PT/INR WEEKLY OR AS DIRECTED BY MD						
VACCINES						
03/01/09 INFLUENZA VACCINE: 0.5ML IM ANNUALLY WHEN IN SEASON						
SPECIAL INSTRUCTIONS						
ACTIVITY: STRETCHER TRANSPORTS ONLY.						
THERAPY ORDERS: PHYSICAL/OCCUPATIONAL THERAPY EVAL AND TREAT AS INDICATED. THE ABOVE ORDERS ARE IN EFFECT FOR THE NEXT 60 DAYS UNLESS OTHERWISE INDICATED.						
EDITED BY: _____			DATE: _____			
MD SIGNATURE: _____			DATE: _____			

## 2. Medication Administration Record (MAR)

A legal record of the medication(s) ordered for an individual by a practitioner/prescriber. The MAR (also known as the Kardex) is a part of the individual's permanent record.

MEDICATION RECORD				NAME:	ROOM #	ALLERGIC TO:																																
DATE: December 2014		FACILITY: CLAUD, SANTA EXAMPLE FACILITY		02	PENICILLIN; BRYTHONICIN; SUCRAF; ASPIDIN																																	
NURSE ALERT: MAY CRUSH MEDICATION		CODE STATUS: DNR; DNI; RN MAY PRONOUNCE:		IC	DIAGNOSIS: S/P CABG OTHER: ACUTE RENAL FAILURE; PERITONITIS/ACUTE FUNGAL																																	
IS APPROPRIATE					TENDINOFF/CAT; MALNUTRITION; INTESTINAL OBSTRUCTION - PARTIAL SMALL BOWEL; S/P COLOSTOMY; PERFORATED BOWEL SIGMOID; DELUSIONS OF GRANDEUR; HYPOTHYROIDISM;																																	
V.D. FAIRY, TOOTH (860)555-1212				Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We																																		
ORIGINAL DATE RECEIVED	RENEWAL DATE	DRUG - DOSE - ROUTE - INTERVAL	EXPIRATION DATE	TOA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
04		SYNTHROID 75mcg		7:30 AM																																		
01		(0.075mg) Take 1 tab by mouth every morning (Levothyroxine)																																				
09																																						
				SE: Headache; nervousness; diarrhea; chest pain; increased pulse.																																		
03		COUMADIN 2mg by mouth once daily (Warfarin)		9:00 AM																																		
01																																						
09																																						
				NO Aspirin!!!, S.E: Unusual Bleeding/Bruising. Watch Diet Changes.																																		
03		SEROQUEL 100mg Take 1 tab by mouth two times daily (Quetiapine)		9:00 AM																																		
01				5:00 PM																																		
09																																						
				Drowsiness, seizures, dizziness, hypotension, nausea, vomiting, fever.																																		
03		VIACITV CHEW 500mg Take 1 tab by mouth three times daily before meals *Chew Thoroughly*		A.M.																																		
01				NOON																																		
09				P.M.																																		
				Chew/Crush tablets before swallowing. Follow with a glass of water.																																		
03		AMBIEN 5mg Take 1 tab by mouth at bedtime (Zolpidem)																																				
01																																						
09																																						
				HS																																		
				Watch for excessive drowsiness, lethargy in the AM leading to falls.																																		



### 3. Pharmacy Label

The pharmacy label is the printed information on a medication package that comes from a pharmacy. It will have important information known as the “5-Rights;” the right individual, time medication is to be administered, drug name, dosage, and route/site. This information helps guide the individual, family member and/or med-certified employee/person in using or administering the medication correctly.

## How to Read the Medication Label

The diagram illustrates a medication label with the following information and annotations:

- Prescription Number:** Points to Rx# 7660502.
- Directions:** Points to TAKE ONE CAPSULE BY MOUTH DAILY AS NEEDED FOR CONSTIPATION \* TAKE MEDICATION WITH 8 OZ GLASS OF WATER \*.
- For Use Refill:** Points to 06/28/2013.
- Expiration Date:** Points to Discard after 6/28/2014.
- Total Pills:** Points to Qty: 30 CAP.
- Medication Name and Dosage:** Points to DOCUSATE NA 250MG CAP.
- Refills Remaining:** Points to Fill 2 OF 12.
- Doctor that Prescribed the Medication:** Points to MILLER, JEFFREY P.

**Label Text:**

VAMC LONG BEACH, CA 90822-5299  
600 (12558/203018) PH: (562) 826-5503

Rx# 7660502 06/28/2013 Fill 2 OF 12

ZZQWERTY, ELIZA

TAKE ONE CAPSULE BY MOUTH DAILY  
AS NEEDED FOR CONSTIPATION \*  
TAKE MEDICATION WITH 8 OZ GLASS  
OF WATER \*

Discard after 6/28/2014 Mfr Natl Vit Co  
Max refill 10X by FEB 11, 2014  
Qty: 30 CAP MILLER, JEFFREY P

DOCUSATE NA 250MG CAP

Honoring Veterans.  
Providing exceptional health care.  
VA LONG BEACH PHARMACY

## **Module 2**

### **Objectives**

Upon completion of Module 2 learners will:

1. Identify the components of a Practitioner's order
2. Identify what must be included on a pro re nata (PRN)
3. Identify what is needed for an over-the-counter (OTC) medication order
4. Understand who is authorized to prescribe medication
5. Understand how homeopathic and herbal remedies differ from prescribed medication
6. Identify different measurements
7. Understand dose verification

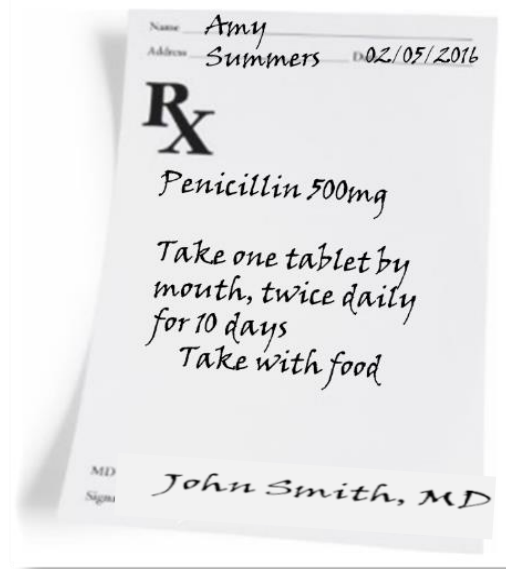
### **What is needed for a Licensed Practitioner's/Prescriber's Order**

A licensed practitioner's/prescriber's order is written by a medical professional who is licensed in the State of Connecticut and it must contain the following:

1. The 5-Rights
2. Date the order was written and a stop or end date (expiration date)
3. Any special instructions
4. Signature of the prescriber

*Orders are usually written for a duration of 90 days or 180-days, unless otherwise specified.*

Sample of a prescription (prescriber's order):



### **What is Needed for a PRN Order**

PRN (pro re nata) is a Latin phrase meaning "in the circumstances" or "as the circumstance arises," which is used in medical terminology to mean "as needed." If a medication is ordered as needed (PRN) it must contain the reason for the medication to be administered and the frequency of administration.

Examples of PRN medication orders:

Motrin 400 mg PO q 6 hours PRN for menstrual cramps x 180 days

Robitussin 10cc PO q 4 hours PRN for cough x 21 days

Tylenol 500mg PO q 4 hours PRN for headache x 180 days

*Orders cannot be written with a time range for example, "take 200mg - 400mg every 2-4 hours"*



## **Over-the-Counter Medications**

Typically, over-the-counter medications are drugs that can be found on the shelf and purchased at the store without the use of a pharmacist.

According to State of Connecticut statutes and regulations a licensed practitioner's/prescriber's order is required for the administration of any medication. This includes over-the-counter (OTC) medications.

All orders must include the 5-Rights, signature of prescriber/practitioner, date signed, and expiration date which is usually for a duration of 90 days or 180-days; however, some medications may be ordered for a longer or shorter duration (depending on the medication and the agency's policy).

Many OTC medications are ordered to be used as needed (PRN) to treat common illnesses or symptoms such as a headache or fever.

According to State of Connecticut statutes and regulations a licensed practitioner's order is required for the administration of any medication. This includes over-the-counter (OTC) medications.

All orders must include the 5-Rights, signature of Prescriber/Practitioner, date signed, and expiration date usually for a duration of 90 days or 180-days; however, some medications may be ordered for a longer or shorter duration (depending on the medication).

## **Homeopathic, Naturopathic and Herbal Remedies (Complementary and Alternative Medicines (CAMS))**

Homeopathic and naturopathic medicines and herbal remedies are different types of natural or plant-based treatments which may be used to help the body heal itself. Homeopathic, naturopathic, and herbal remedies are not considered medications by the FDA. However, prescribers may use such remedies to treat an individual's condition. They require a prescriber's order. These treatments are also classified as Complementary and Alternative Medicine (CAM).

Examples of Complementary and Alternative Medicines (CAM):  
acupuncture ear seeds, ginger root, meditation, reiki

### **Professionals Authorized to Prescribe Medications**

Licensed Practitioners/Prescribers who can write orders for medication and treatment include (the list below is not all inclusive of professionals licensed to prescribe in CT) :

Medical Doctor (MD),  
Nurse Practitioner (NP) or Advanced Practice Registered Nurse (APRN),  
Physician's Assistant (PA),  
Dentist  
Naturopathic physician  
Homeopathic physician  
Osteopathic (DO)

### **Medication Measurements**

#### **Solid Measurements**

The most common medication measurements are gram, milligram, and microgram. Medication tablets and capsules are often supplied in milligrams. Antibiotics may be supplied in grams, milligrams, or units. Vitamin supplements are often supplied in units/international units.




- Gram – gm
- Milligram – mg
- Microgram – mcg
- International Units – IU

*Most tablets or capsules will have a numerical value.*

### Dosage Verifications

It is important to understand a medication order and to accurately administer the correct dosage based on the prescriber’s order or prescription.

For example, the licensed prescriber orders 500mg of a medication, when it arrives from the pharmacy each capsule is 250mg. How many capsules do you give?

	+		=		250mg
1 capsule		1 capsule		2 capsules	<u>+250mg</u>
250mg		250mg		500mg	500mg

**Answer:** You would administer 2-capsules for the 500mg dose.

Another example:

If the Licensed Prescriber writes an order for 300mg of a drug, when it arrives from the pharmacy each tablet is 100mg.

How many tablets do you give?

	+		+		=	
1 tablet		1 tablet		1 tablet		3 tablets
100mg		100mg		100mg		300mg

**Answer:** You would administer 3-tablets for the 300mg dose.

## **Liquid Medication Measurements**

Common measure liquid medication measurements are listed below.

teaspoon – tsp

tablespoon – Tbsp

ounce – oz

cubic centimeter - cc

milliliter - ml

**1 tsp = 5cc = 5ml**

**1 Tbsp = 15cc = 15ml**

**1 oz = 30cc = 30ml**

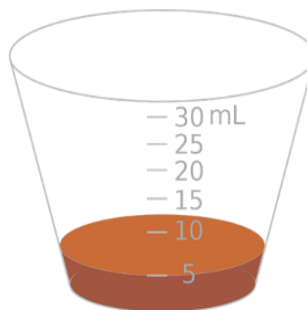
Liquid medication measuring devices should always be used when administering liquid medications.

***NEVER USE HOUSEHOLD MEASUREMENTS to administer liquid medications.***

If the licensed prescriber writes an order for 375mg of a drug, when it arrives from the pharmacy it comes as a liquid. The pharmacy has written on the label 125mg/5cc this means every time you pour 5cc of the liquid medication it contains 125mg of medication.

How many cc's would you pour to administer the 375mg dose?

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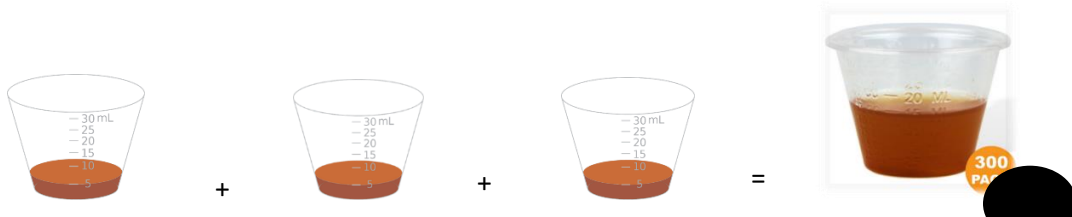


125mg/5cc

125mg/5cc

Remember 125mg/5cc

The order was for 375mg; therefore, you need to determine how many cc's are equivalent to 375mg of this medication.



The diagram illustrates the process of combining medication. On the left, three identical measuring cups are shown, each containing 5cc of a brown liquid. Below each cup is the text '125mg/5cc'. These three cups are separated by plus signs. An equals sign follows, leading to a single, larger measuring cup on the right. This larger cup contains 15cc of the same brown liquid and is labeled '375mg/ 15cc'. A black circle is partially overlapping the bottom right corner of the larger cup.

**Answer =15cc** You would administer 15cc of the medication.

**Remember that cc and ml are equal measurements.** If the measuring device is listed as ml, then you would administer 15ml of the medication.

## **Module 3**

### **Objectives**

Upon completion of Module 3 learners will:

1. State what is necessary to know about a medication before it is administered
2. State what effects a medication can have on the body
3. Understand drug to drug interaction
4. Understand drug to food interactions
5. Understand the difference between a controlled and non-controlled medication

### **What to know before you administer a medication**

1. Medication orders are current
2. The 5-Rights
3. The reason for medication use
4. If the medication is considered “controlled” or “non-controlled”
5. Precautions and considerations
6. Key side effects

### **Medication Effects**

#### **1. Therapeutic Effect (Desired Effect)**

This is when the medication worked the way it was intended; for example, a pain medication is given to an individual for complaint of a headache, 30 – 60 minutes later the individual reports that the headache is gone. The medication worked as intended.

#### **2. No Effect**

The medication did not work as intended; for example, a pain medication is given to an individual for complaint of a muscle ache, 30 – 60 minutes later the individual reports that they are still in pain.

### 3. Side Effect

Any response to medication that is not the desired/therapeutic effect. Side effects are usually mild and may not warrant discontinuing the medication. Side effects may include nausea, headache, difficulty sleeping, fever, muscle twitching or tics. Must be reported per your agency policy.

### 4. Adverse Effect

An adverse effect is an undesired harmful effect which may be mild, moderate, or severe. The prescriber will usually discontinue the medication if there is an adverse effect.

### 5. Allergic Reaction

An allergic reaction is a serious body response that must be reported per your agency policy. It may include a rash, hives, watery eyes, wheezing and coughing.

### 6. Anaphylactic Reaction

A whole body (systemic) allergic reaction, that may include wheezing, swelling, difficulty swallowing and breathing or death. **This is a 911 emergency.** If the individual has an auto-injectable epinephrine pen (EpiPen) and you have received training, it should be administered, however the person still needs to be seen at the emergency department.

## Drug to Drug Interactions

Drug-to-drug interactions occur when two or more drugs interact with each other. Interactions can involve prescription or non-prescription medications. Types of drug-to-drug interactions include enhancing, diminishing, and altering how medications work in the body. The presence of other drugs in the body can have both a negative and positive effect. The effects of drug interactions are usually unwanted and can sometimes be harmful.



## **Drug to Food Interactions**

It is important to read the pharmacy label for specific instructions regarding the administration of each medication.

### **Some medications have specific food restrictions for example**

- A. No grapefruit or grapefruit juice
- B. No dairy products
- C. Some medications need to be taken with food
- D. Some medications should be taken on an empty stomach (1-hour before a meal or 2-hours after).



## **Controlled Medications and Non-Controlled Drugs**

### **Controlled Medication**

Controlled medication is a drug or other substance that is tightly controlled by the government because it may be abused or cause addiction. Controlled substances include opioids, stimulants, depressants, hallucinogens, and anabolic steroids.



Controlled medications are habit forming, prescribed in small quantities, must be counted each time keys change hands and when dispensing, and must be document on a Receipt & Disposition form.

### **Non-Controlled Medication**

Non-controlled medication can only be obtained through a practitioner's/prescriber's order/prescription and is dispensed by a pharmacist but are not considered controlled substances by the government. Non-controlled medications are not habit forming and include prescription as well as over-the-counter (OTC) medications.

## **Module 4**

### **Objectives**

Upon completion of Module 4 learners will:

1. Identify medications listed and their uses
2. Have basic knowledge of medications that treat medical and psychiatric conditions
3. Identify specific uses for certain medications
4. Identify special considerations (things to be aware of when administering medications)
5. Be aware of medications that sound (in pronunciation) alike or look (in spelling of the medication name) alike

### **Medication Classifications**

Antibiotic  
Antiviral  
Antifungal  
Antipyretic  
Laxative  
Scabicide  
Pediculicide (lice)  
Analgesics  
Birth Control/Hormone  
Decongestant  
Antitussive  
Anticonvulsant  
Expectorant  
Bronchodilator  
Antihistamine  
Antacid  
Histamine Blocker  
CNS Stimulant  
Vasodilator  
CNS Depressant  
Anticoagulant

Hypnotic  
Antihypertensive  
Sedative  
Diuretic  
Cholesterol-  
lowering Meds  
Psychotropic  
Bisphosphonate  
Antianxiety/Anxiolytic  
Antidepressant  
Mood Stabilizer  
Antipsychotic

### **Prefixes that will assist with understanding medication classifications and purpose.**

A prefix comes before the root word to help define the word

#### **Common Prefixes**

**“Anti”** means **“against”**

A medication classification which starts with “anti” will work against or fight something

#### **Antianxiety**

An antianxiety medication helps to fight **against** anxiety; it helps to reduce feelings of anxiety.

#### **Antihypertensive**

An antihypertensive medication fights **against** hypertension or high blood pressure. These medications assist with lowering a person’s blood pressure and keeping it at a normal or lower level. ( )

**“Hypo”** means below the normal level, beneath, or low

#### **Hypoglycemia**

Hypoglycemia means a person’s blood glucose or blood sugar is below

normal or it is low.

“**Hyper**” means above or excessive

**Hyperglycemia** mean’s a person’s blood glucose or blood sugar is above the normal range or it is higher than normal.

### **Antibiotic**

Antibiotics are medications that are used to treat a range of medical conditions caused by bacteria. They work against bacteria by killing or preventing it from multiplying and spreading.

#### **Special Considerations**

- a) Observe for allergic reactions
- b) Observe for gastrointestinal upset such as nausea, vomiting or diarrhea
- c) Finish the entire medication as prescribed
- d) Follow any specific instructions included on the medication label or in the prescriber’s order

**Common Side Effects:** Gastrointestinal upset; nausea, vomiting or diarrhea

**Examples of Antibiotics:** Amoxicillin (brand name Amoxil), Bactrim (generic name sulfamethoxazole/trimethoprimoral), Augmentin (generic name amoxicillin/clavulanate potassium)

### **Antiviral**

Antiviral medications fight against infections caused by viruses. There are some antivirals which are used for specific viral infections while others are used for a wide range of viruses. Antivirals do not kill viruses but inhibit growth of the virus, thus decreasing the severity of an illness.

#### **Special Considerations**

- a) Antiviral medications may increase side effects if used with alcohol or marijuana. They should be used cautiously in treating anyone with a weakened immune system.

b) It is important to read information on provided from the pharmacist specific to the antiviral being administered.

**Common Side Effects:** Nausea, vomiting, headache, fatigue, joint pain

**Examples of Antivirals:** Tamiflu, Acyclovir

### **Antifungal**

Antifungal medications are used to fight against (treat and prevent) fungal infections such as ringworm (a common skin infection caused by a fungus), athlete's foot, and toenail fungal infections. These medications may be ordered as topical or oral treatments.

**Special Consideration:** Antifungals should be used cautiously in persons with heart, liver, or kidney disease. They can interfere with some birth control medications/oral contraceptives.

**Common Side effects:**

**Topical medications:** skin burning, irritation, redness

**Oral medications:** nausea, diarrhea, headache, rash, abdominal pain

**Examples of Antifungals:** Clotrimazole (brand name Lotrimin), Ketoconazole (Nizoral)

### **Analgesics**

Analgesics are medications which relieve pain without causing a loss of consciousness.

**Examples:**

Over-the-counter Acetaminophen (Tylenol) and Non-steroidal anti-inflammatory drugs (NSAID) such as ibuprofen (Motrin, Advil), and controlled drugs such as opioid medications (oxycodone acetaminophen [Percocet], hydrocodone [Vicodin]).

## **Antipyretic**

Antipyretics are medications used to work against a fever by lowering the body temperature. Some analgesics also have antipyretic effects.

There are three types of medication used to lower a fever:

Examples:

Salicylates (Aspirin)

Acetaminophen (Tylenol)

Non-Steroidal Anti Inflammatory (NSAID) ibuprofen (Motrin)

## **Decongestant, Antitussive and Expectorant**

### **Decongestant**

A decongestant is a medication that shrinks the swollen membranes in the nose, making it easier to breathe.

Example: pseudoephedrine (Sudafed)

### **Antitussive**

An antitussive medication is used fight against a cough by preventing or relieving it.

Example: dextromethorphan (Delsym, Robitussin)

### **Expectorant**

An expectorant medication that helps bring up mucus and other material from the lungs, bronchi, and trachea.

Example: guaifenesin (Mucinex)

## **Bronchodilator and Antihistamine**

### **Bronchodilator**

A bronchodilator medication dilates (opens) the airway (bronchial tubes) of the lungs by relaxing bronchial muscles, which improves breathing when a person is

experiencing shortness of breath or difficulty breathing, such as during an asthma attack.

Examples: albuterol (ProAir, Proventil, Ventolin)

### **Antihistamine**

An antihistamine medication works against the histamine (a chemical in the body that helps protect against potential allergens) released in the body during an allergic reaction by blocking the action of the histamine on the tissue.

Examples: diphenhydramine (Benadryl), loratadine (Claritin)

### **Laxative**

A laxative is a medication which facilitates emptying of the bowels (bowel movement). Laxatives are used to combat constipation. There are different types of laxatives that come in pills, capsules, liquids, suppositories, powders, and enemas. Each type of laxative has specific benefits and possible side effects.

Examples:

Milk of Magnesia (magnesium hydroxide)

Dulcolax (Bisacodyl) suppository or tablets

Miralax (polyethylene glycol 3350)

### **Scabicide and Pediculicide**

#### **Scabicide**

A scabicide medication is used to treat scabies. Scabies is a contagious, itchy skin condition caused by a tiny, burrowing mite (a group of insect-like organisms).

#### **Pediculicide**

A pediculicide medication is used to treat lice. Lice are tiny insects which infest and irritate the scalp or skin or other parts of the body. Louse (one insect) is the singular of lice (multiple insects).

## **Bisphosphonate**

Bisphosphonate medications are prescribed to treat osteoporosis, a condition in which the bones become brittle and fragile from loss of tissue, typically due to hormonal changes or deficiency of calcium or vitamin D. Bisphosphonates limit the loss of bone density and strengthen bones.

Examples:

Fosamax (alendronate)

Evista (raloxifene)

Acetonel (Risedronate)

Reclast (zoledronic acid)

### **Specific Considerations:**

These medications should be taken with 6-8 ounces of water and the person should not lie down, eat or drink anything for 30-minutes after taking the medication because this can cause irritation of the esophagus.

## **Anticonvulsant**

Anticonvulsants are medications used to control or prevent seizures.

They may also be prescribed for treatment of nerve pain, mood disorders, prevention of migraine headaches, and restless leg syndrome.

### **Special Considerations:**

Frequently will see fasting lab work associated with this type of medication, to monitor blood levels working toward maintaining a therapeutic level of the medication. ***\*Fasting lab work means the person cannot eat or drink anything except for water for 8 – 12 hours prior to having the labs drawn.***

Examples: Dilantin (phenytoin), Depakote (divalproex sodium)

## **Cardiovascular Classifications of Medications**

Cholesterol Lowering Medications

Anticoagulants

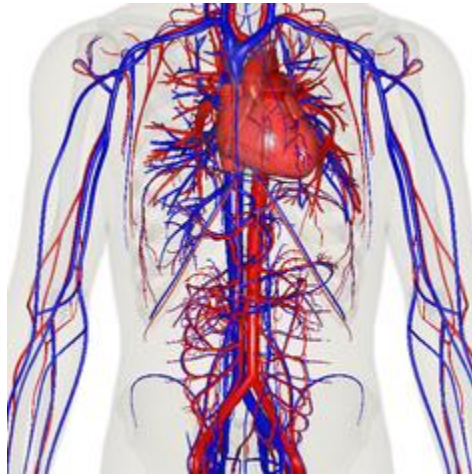
Antiarrhythmic

Antihypertensive

Diuretics



## Vasodilators



### **Antiarrhythmic and Anticoagulant**

#### **Antiarrhythmic**

An antiarrhythmic medication =works against irregular heart rhythms and allows the heart to beat at a regular rhythm and rate. Some of these medications may lower the heart rate, taking a pulse may be required prior to giving these medications.

Examples: Digoxin (digitalis), Rythmol (propafenone)

#### **Anticoagulant**

An anticoagulant medication works against the clotting process in the body, to prevent the blood clots. This type of medication may cause the person to bruise easily or have prolonged bleeding. Sometimes referred to as a “blood thinner.” Anticoagulants may be prescribed to help reduce the risk of having a stroke or myocardial infarction (heart attack).

Examples: Coumadin (warfarin), Xarelto (rivaroxaban)



## **Antihypertensive and Cholesterol Lowering Medication**

### **Antihypertensive**

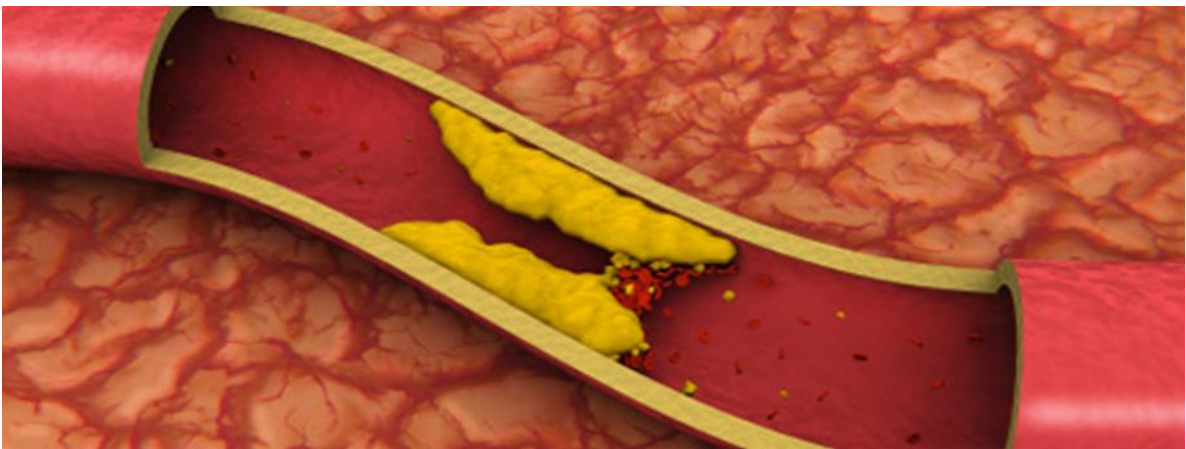
An antihypertensive medication works against or to reduce high blood pressure by decreasing it.

Examples: lisinopril (Zestril), Norvasc (amlodipine)

### **Cholesterol Lowering Medication**

Cholesterol lowering medications decrease the level of cholesterol.

Examples: Lipitor (atorvastatin), Zocor (simvastatin)



### **Diuretic and Vasodilator**

#### **Diuretic**

A diuretic is a medication that causes the kidneys to make more urine, which helps the body get rid of extra fluid. Diuretics may also be referred to as “water pills.”

Examples: hydrochlorothiazide - HCTZ (Microzide, HydroDiuril), Lasix (furosemide)

## Vasodilator

A vasodilator medication causes the blood vessels to expand which allows for a greater blood flow.

Example: hydralazine (Apresoline)

## CNS Stimulant

CNS stimulants are medications that stimulate the central nervous system (CNS), the brain and spinal cord, in most individuals.

- Stimulants can be addictive and are often abused.
- Stimulants are used most often for treatment of attention deficit hyperactivity disorder (ADHD) and narcolepsy (a chronic sleep disorder).

Examples:

Adderall (amphetamine/dextroamphetamine)

Vyvanse (lisdexamfetamine)

Phentermine (amphetamine)

Provigil (modafinil)

## CNS Depressant

Central Nervous System (CNS) depressants are medicines that include **sedatives**, **tranquilizers**, and **hypnotics**. These drugs can slow brain activity, making them useful for treating anxiety, panic, acute stress reactions, and sleep disorders.

Examples: Klonopin (clonazepam), Luminal Sodium (phenobarbital)

## Antianxiety

Antianxiety medications calm and relieve anxiety

Examples: Valium (diazepam), Xanax (alprazolam), Buspar (buspirone)

## Sedatives and Hypnotics

### Sedatives

Sedatives are medications used for calming and promoting sleep

Examples: Ativan (lorazepam), Klonopin (clonazepam)

### Hypnotics

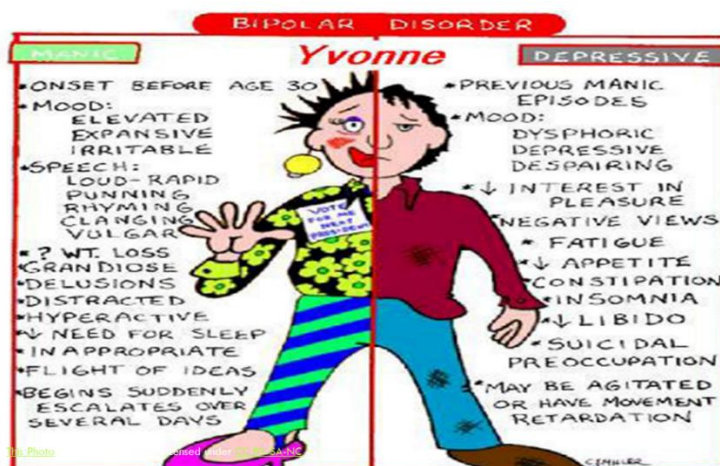
Hypnotics are medications used to help people fall asleep and improve the quality of their sleep. Drug classification that are hypnotics include benzodiazepine receptor agonists – BzRAs, antidepressants, antipsychotics, antihistamines, and melatonin or melatonin receptor agonists.

Example: Ambien (zolpidem), Sonata (zaleplon), Lunesta (eszopiclone)

### Mood Stabilizers

Mood stabilizers are medications that treat and prevent emotional highs (mania) and lows (depression). Mood stabilizers may also be classified as anticonvulsants or antipsychotic medications.

Examples: lithium (Lithobid), divalproex (Depakote), valproic acid (Depakene), carbamazepine (Tegretol)



## **Hormonal Medications**

Hormonal medications include oral contraceptives and hormone replacement for conditions in which the body does not produce enough of a specific hormone such as hypothyroidism.

### **Oral Contraceptives**

An oral contraceptive is a pill form of medication containing hormones and is designed to prevent pregnancy. Oral contraceptives are also known as birth control pills.

These medications may also be used to regulate menstrual cycles. Oral contraceptives may contain one hormone (progestin-only contraceptives) or a combination of hormones (estrogen and progestin).

Examples: Lo Loestrin Fe or Junel Fe (ethinyl estradiol and norethindrone acetate), Yasmin (drospirenone and ethinyl estradiol),

### **Thyroid Medication**

Thyroid hormones are essential to life. If the body does not create sufficient thyroid hormones this is known as a condition called Hypothyroidism. Thyroid medications replace deficient thyroid hormones.

Example: levothyroxine (Synthroid)

## **Potential Medications Effects**

Medications are designed to have a desired effect when taken. However, all medications have the potential to have some type of negative effect. Any medication may have additional negative effects if there is alcohol or drug use.

It is your responsibility to understand what medication is being administered and the reason for its use.

Always be aware of any special instructions provided by the pharmacy before giving any medication.



## Medications that May Look Alike or Sound Alike

### These medications may look or sound like these medications:

- Adderall
- Clonazepam
- Darvon
- Flovent
- Glipizide
- Miralax
- Noroxin
- Os-cal
- Paxil
- Inderal
- Lorazepam
- Diovan
- Flonase
- Glyburide
- Mirapex
- Neurontin
- Asacol
- Taxol

***These are only examples, there are hundreds of medications with names that may look or sound alike. It's important be aware of this when administering medications.***



## **Module 5**

### **Objectives**

Upon completion of Module 5 learners will:

1. Know the steps of the State of Connecticut Medication Administration Procedure
2. Understand components of a pharmacy label when performing the steps of the medication procedure
3. Know what to do in the event an individual refuse a medication
4. Identify times when a medication should not be administered and the steps to take
5. Understand Self- Administration of medications

### **Safe Medication Administration**

The State of Connecticut has approved a set of steps that must be followed with each medication administered. The purpose of following these steps is to ensure consistent and safe practices while administering medications to individuals.

#### **Safe medication administration includes:**

1. Following specific steps that should occur prior to, during, and after all medication administrations
2. Completing specific tasks prior to and following each individual medication administration
3. Verifying the 5-Rights, the licensed prescriber's orders, MAR, pharmacy label, and controlled drug disposition sheet

#### **Before Medication Administration:**

1. Count controlled medication
2. Read the communication log if applicable for any medication related issues that may affect medication administration including: scheduled appointments and lab work, recent health related concerns or changes in condition
3. Review any new medication orders, check to ensure that all information is complete

4. Ensure familiarity with new medications, this may require reviewing the medication in a drug reference book or a reputable online resource

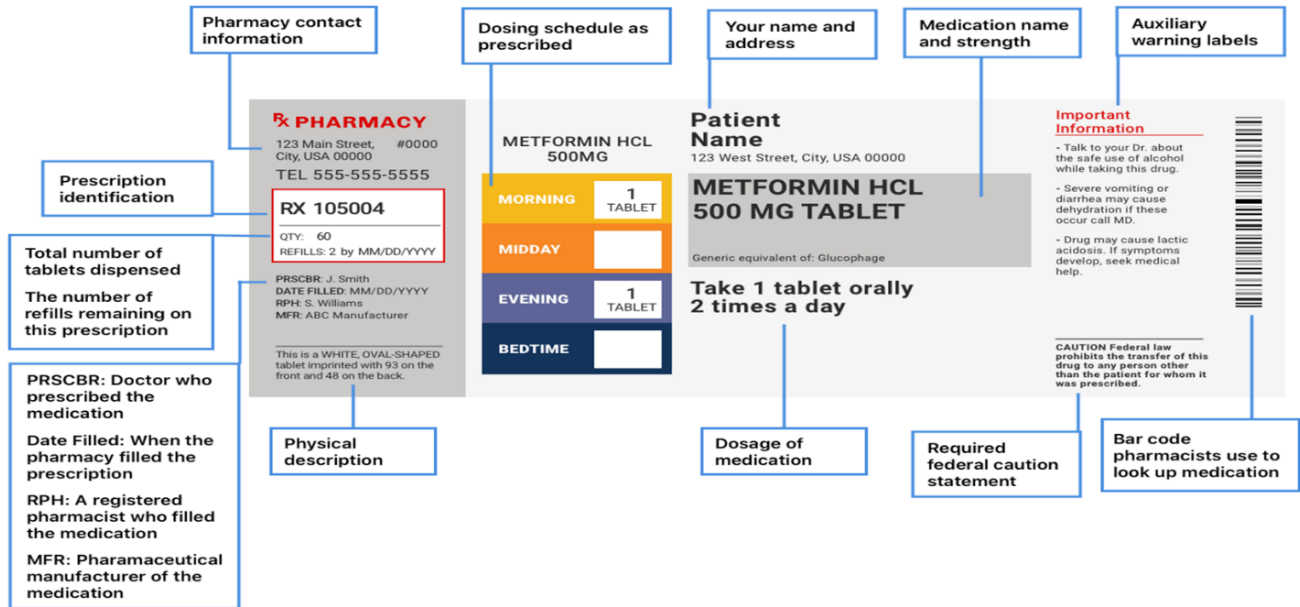
**During Medication Administration:**

1. Perform hand-hygiene
2. Approach the task calmly without any distractions
3. Assemble appropriate equipment necessary for medication administration to a single individual (pre-pouring medications for multiple individuals at one time is *not allowed*)
4. Unlock secured medication storage area (i.e., drawer, cabinet, closet, etc.)
5. While pouring the medication ensure that the 5-Rights are correct (follow agency-specific policy to verify accuracy)
6. Ensure medication is locked/secured
7. Identify the correct person per agency policy
8. Administer the medication according to proper technique.
9. Check that the individual has swallowed the medication per agency procedure

**After Medication Administration:**

1. Ensure that all documentation is completed accurately
2. Double check documentation for accuracy and completion
3. Ensure the area is cleaned
4. Perform hand hygiene

## Understanding Components of a Pharmacy Label



## Refusal of Medication

1. All individuals, regardless of their age, have the right to refuse their medication
2. Some medications may be medically necessary for an individual's well-being and could cause harm if refused
3. If an individual refuse their medication, make attempts at offering the medication again during the allowed time frame for administration, but do not force or coerce the individual to take it
4. If an individual continues to refuse their medication beyond the allowed time frame for administration, label and secure the medication, and follow the agency's policy regarding notifying the nurse or contacting the chain of command and documenting the medication refusal

## **When not to Administer Medications**

When Medications **cannot be given, contact the Nurse or Chain of Command per the agency's policy.** These circumstances include (but are not limited to) the following:

1. There is no current or valid prescriber's order for the medication
2. The medication label cannot be read or there is no label on the medication
3. The time is outside of the allowed time frame for medication administration (1- hour before and 1-hour after the medication is due)
4. The medication is in the incorrect form (i.e., the order specifies the medication is to be given by mouth and a suppository is available)
5. There is a change in the person's level of consciousness (i.e., the person has a seizure and is not alert during the post-ictal period), or the individual's condition has changed (vomiting, shortness of breath, rash, etc.)
6. If ANY of the 5-Rights do not match on the Licensed Practitioner's order, MAR, and the Pharmacy Label

## **Self-Administration of Medications**

1. Each agency has policies and procedures for assessing if an individual has the ability to self-administer their medications.
2. An assessment, by a registered nurse (RN), or a primary care practitioner is generally completed to determine the individual's ability to administer medications with or without assistance.
3. In some cases, a teaching strategy or monitoring process may be implemented for staff to assist the individual.
4. A Licensed Prescriber must write an order for the individual to self-administer medications.

## **Module 6**

### **Objectives**

Upon completion of Module 6 learners will:

1. Identify different routes of medication administration and how they are administered
2. Identify different forms of oral medications
3. Describe the two types of asthma medications (rescue and prevention)
4. Describe the relationship between dysphagia and medication administration
5. Understanding how to administer emergency medications
6. Identify different ways to administer medications

### **Routes of Medication Administration**

#### **Oral Route**

##### **1. Oral**

Oral medications are taken by mouth, sublingual (under the tongue), or ingested (swallowed)

##### **2. Forms of Oral Medication**

###### **A. Tablets**

Tablets are the most common type of pill. These are medication which consist of one or more compressed powdered ingredients to form a hard, solid, smooth-coated pill that breaks down in the digestive tract. Tablets include:

- a) Enteric Coated
- b) Scored
- c) Time-released

###### **B. Capsules**

Capsules are medication enclosed in an outer shell This outer shell is broken down in the digestive tract.

There are two main types of capsules:

- a) hard shelled
- b) soft gel.

### C. Liquids

Liquid medications are designed to be easy to swallow. They include:

- a) Suspension
- b) Syrup
- c) Elixir

## Tablets

1. **Oral tablets** can take **30 to 60 minutes** for the medication to **work if swallowed**
2. **Sublingual medications** dissolve rapidly under the tongue
3. **Enteric coated tablets** have a special coating that prevent them from dissolving in the stomach and/ or protects the stomach from the damaging effects of the medication. *May **not be crushed or chewed** because this damages the enteric coating and may cause stomach upset.*
4. **Time-released tablets** are designed to slowly release the medication into the body over an extended period of time. Time-released medications may have any of the following abbreviations after the medication name: ER, XR, and XL (extended release) or CR (continuous release). May **not be crushed or chewed**.
5. **Scored tablets** have an indentation which can be divided into two equal parts; the indentation indicates where the tablet should be cut if needed.



## **Capsules**

1. Capsules are a solid dosage form of medication in which the drug is enclosed in a hard or soft soluble gelatin shell.
2. The consistency of the drug within the capsule may be powder, liquid, or sprinkles.
3. The capsule may be opened to be mixed with a substance (i.e., food or liquid) for ingesting.
4. A prescriber's order usually states if a capsule is to be opened.

## **Liquid Medications**

Liquid medications must be measured very carefully to avoid over or under medicating.

Always use the calibrated measuring tools that come with the medication, or those approved by your facility.

Always pour liquid medication on a flat surface at eye level



**Liquid medications may come in different forms:**

### **1. Suspension**

A liquid which contains small particles of the drug, which separate from the liquid.

**Shake the container prior to pouring** in order to thoroughly mix the medication. This ensures the right amount of the drug is ingested.

### **2. Syrup**

A liquid syrup is prepared with sugar

Sugar-free syrup is available and should be used for diabetics

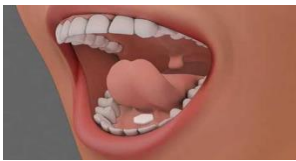
### **3. Elixir**

A liquid prepared with sugar and alcohol

Elixirs should be avoided for people with alcohol addiction

### **Sublingual or Buccal Medications**

Sublingual administration involves placing a medication (i.e., tablet, film, or strip) under the tongue where it dissolves and is absorbed into the bloodstream.



Instructions to the individual may include:

1. Swallow a sip of water to moisten the mouth.
2. Place medication under the tongue
3. Close the mouth
4. Do not chew or swallow the medication
5. Allow time for absorption (dissolving) of the medication

Buccal administration involves placing a medication between the gums and cheek where it dissolves and is absorbed into the bloodstream.



### **Crushing or Cutting Tablets**

There are many different types of pill crushers and cutters on the market; always use equipment approved and provided by your facility



## **Crushing**

1. Make sure that the equipment used is clean and dry
2. Mix the crushed medication with a small amount (2 tablespoons) of food or beverage in the appropriate consistency (i.e., applesauce, pudding, yogurt, etc.)
3. Offer a glass of water after administering the medication
4. Dysphagia (difficulty swallowing) always must be considered if the person has an altered dietary consistency ordered



***Not All Meds can be Crushed***

There are many different types of pill cutters and crushers on the market; always use equipment approved and provided by your facility

## **Cutting**

1. Only scored tablets may be cut
2. Use a pill cutter or knife
3. If a half tablet is required for a routine medication dose, the pharmacy shall provide the medication already cut/split



## **Ear (Otic) Medication: Cleaning the Ear**

Before administration of ear medications, you must make sure that the outer ear canal is clean and dry

### **Steps to clean the outer ear:**

1. Wash hands and put on disposable gloves
2. Use a clean cloth or gauze pad to gently wash the outer ear in a downward motion
3. Never insert cotton swabs into the ear canal as this could cause damage to the ear canal
4. Remove gloves, wash hands, and put on a clean pair of disposable gloves before handling the medication

## **Ear Medication: Techniques for Administering Medications**

1. **Warm** the medication to body temperature by gently rolling it in the palm of the hands
2. **Position** the person comfortably in a sitting or lying position, with ear to be treated facing up
3. **Straightening the ear canal** for individuals 3 years and older- gently pull the upper part of the ear (Pinna) **up and back**
4. Position tip of dropper near, but not touching the ear canal
5. Place the prescribed number of drops against the side of the ear canal
6. Have the person remain positioned with treated ear up for 3-5 minutes to allow medication to drain into ear
7. DO NOT place a cotton ball in the ear unless specifically ordered as this may absorb the medication
8. If ordered, instill medication in the other ear after waiting approximately 5-minutes



## **Eye (Ophthalmic) Medication**

### **General Information to consider when administering eye medication:**

1. Always wear clean disposable gloves when administering eye medication
2. The individual's eye may need to be cleaned prior to administration
3. Eye medication may be in the form of a liquid or ointment
4. Never touch the individual's eye with medication bottle or applicator

### **Eye Medication: Technique for Administration**

Position individual comfortably, with head slightly titled back (sitting or lying down is best)

Clean eye if necessary

Gently wipe with warm water and washcloth, from the inner to the outer corner of eye

### **Administering Eye Drops:**

1. Pull lower eyelid down to form pocket
2. Ask the individual to look up and away to avoid excess blinking, let them know it may sting
3. Place eye dropper close to the eye **without touching** the eye
4. Place prescribed number of drops into the lower eyelid pocket, avoid placing drops directly onto the eyeball  
If more than 2-drops are administered into one eye at the same time, it is necessary to wait prior to adding additional drops to avoid the medication spilling out of the eye
5. Ask the individual to gently close eye
6. Wipe away any drops that drip out of eye



### **Administering Eye Ointment**

1. Hold the eye ointment in dominant hand
2. With non-dominant hand, pull lower eyelid down to expose the inner portion of the lower lid

3. Ask the individual to look up
  4. Apply a thin strip of ointment in lower lid, do not let the tip of the ointment applicator touch the eye
  5. Ask individual to gently close eyes for 2-3 minute
  6. Stay with individual – ointment will temporarily blur vision
- \*\*Rubbing of the eye should be avoided after application**



### **Topical Medication:**

A topical medication is one that is applied to a particular place on or in the body, usually the skin.

Topical medications may include lotions, creams, ointments, aerosol, sprays, and powders

### **Topical medication administration:**

1. Wear gloves
2. Cleanse skin with soap and water; pat dry (*make sure skin is intact, no cuts or abrasions*)
3. Apply the topical medication as directed by the licensed prescriber's order



### **Topical Medication: Transdermal Patch**

**Transdermal Patch** - This is an adhesive patch that contains medication which is absorbed directly through the skin.

### **Application:**

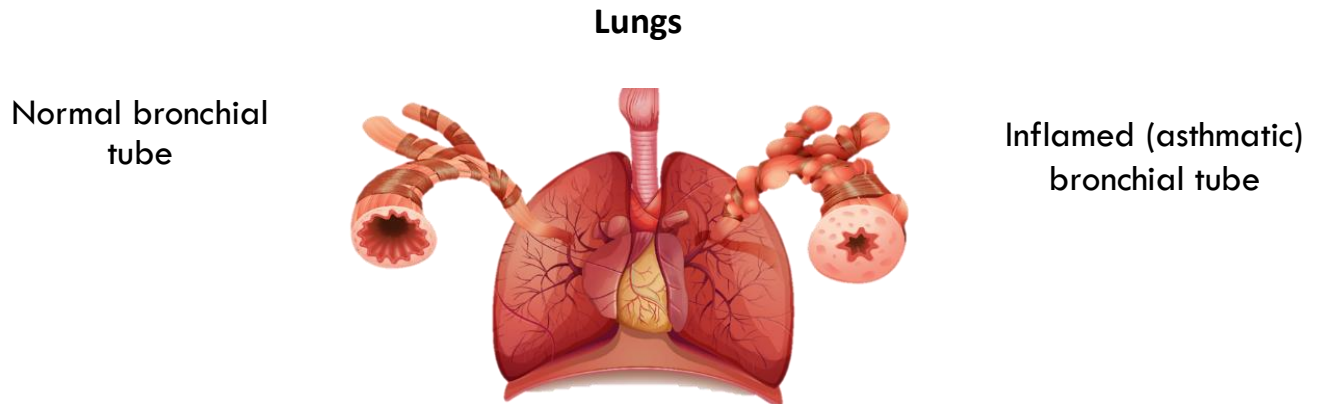
1. Wear gloves
2. Remove old patch first

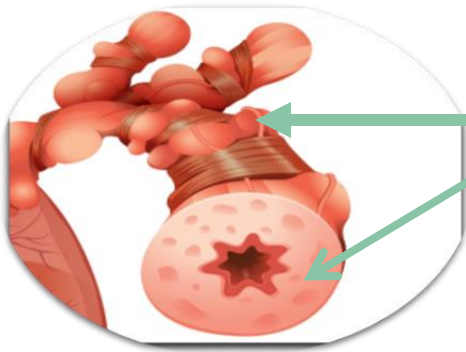
3. Clean and dry the skin (*make sure skin is intact*)
4. Rotate sites of application
5. Discard patch according to agency policy



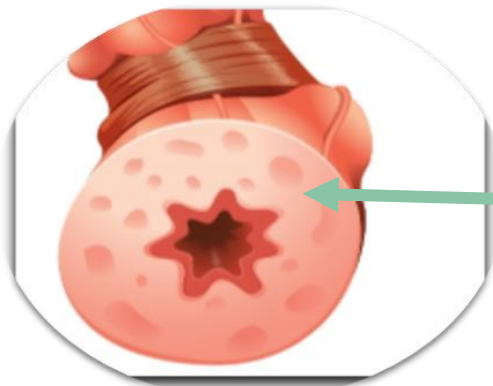
### **Physical Changes that may Occur in the Lungs of a Person with Asthma**

Asthma is a chronic disease that causes airways to become inflamed, making it hard to breathe. There is no cure for asthma. The best way to manage asthma is to avoid triggers, take medications to prevent symptoms and prepare to treat asthma episodes (asthma attacks) when they occur.





Bronchial constriction-the airway "tubes" tighten, making the airway smaller so that less air can move in and out.



Inflammation-the lining of the airway becomes inflamed. Swelling further blocks the airway making breathing more difficult.



Increased mucus- the airway also fills with mucus which blocks the airway even further.

## Common Asthma Triggers that Should be Avoided



Cockroaches/Mice



Smoke/Fumes



Pet dander



Mold



Dust and Pollen



Strong emotions



Exercise

## The Most Common Signs of an Asthma Attack

Difficulty breathing

**Coughing** (especially at night, during exercise or when laughing)

Chest tightness

Shortness of breath

Wheezing (a whistling sound or squeaky sound coming from the chest when breathing, especially when exhaling)

## Asthma Management Plan

Asthma can be controlled and most people with asthma can live full, active lives. Poorly controlled asthma can cause missed days from school/work, emergency department visits, hospital stays, or even death. In order to effectively manage asthma, a clear asthma management plan is essential for anyone who has this diagnosis.

### The Asthma plan should include:

1. The specific triggers for that individual and how to avoid them
2. Monitoring the individual's breathing with a peak flow meter
3. Use of prevention (management) medications to keep the asthma under control
4. Rescue medication to treat asthma attacks when they occur

### Two General Types of Asthma Medication

#### 1. **Rescue (Short-Acting Beta-Agonists - SABAs):**

Quick acting inhaled bronchodilators are used during an asthma attack.

#### **Rescue Medication (Inhaled Bronchodilators)**

Are usually administered by a "metered dose inhaler" (MDI) and provide rapid relief;

***Rescue inhalers are used to stop an asthma attack***



After using a rescue inhaler, the individual may complain of feeling “jumpy” or may be visibly shaky – this is a side effect of the medication and should be reported to the nurse or chain of command.

If symptoms of the asthma attack do not improve within a few minutes, follow your facility's medical emergency procedures.

**2. Maintenance or Prevention (Long-Acting Beta Agonists – LABAs):**

Long-term medications taken daily even in absence of symptoms to control asthma, helps to prevent asthma attacks. There are several types of prevention medications.

**Asthma Maintenance or Prevention Medications**

Asthma medication comes in different forms and may be administered via a MDI, diskus, nasal spray, nebulizer or inhaler, or an oral medication taken on a daily basis.

These medications work to reduce inflammation in the airway keeping asthma symptoms under control and preventing asthma attacks.

The Individual should rinse their mouth after administration of an inhaled steroid medication to prevent mouth and throat irritation or infection.

***Asthma management/maintenance medications do not stop an asthma attack***

### **Technique for using Asthma Inhalers**

1. Some inhalers may have counters to keep track of how many doses are left
2. Remove Cap
3. Have individual breathe out (exhale) slowly
4. Have individual place inhaler in their mouth and form a tight seal around the mouthpiece with their lips
5. Press down on inhaler to discharge one puff of medication while the individual simultaneously inhales
6. After inhaling ask individual to hold their breath for 10 seconds if possible. If inhaling a second dose, which is usually recommended, wait 1-minute between doses
7. Have individual rinse their mouth with water after each use of the inhaler

## Dysphagia and Medication Administration

When administering medications to an individual with dysphagia, it is important to remember to administer medications **according to their prescribed dietary consistency**.

The prescriber's orders may include instructions for crushing medications or administering medications in applesauce or another food consistency.

Medications ordered in liquid form may require thickening with a powdered supplement or other thickening agent as indicated, to meet the prescribed dietary consistency of the individual.

## Emergency Medication – EpiPen

Training by a Qualified Medical Professional (Nurse, Pharmacist, Authorized Prescriber) is required. Training for staff is required annually. Staff do not have to be med certified to administer emergency epinephrine (EpiPen).

Medication must be carried by staff, or the individual wherever they go.

A hospital emergency room (ER) or emergency department (ED) visit is required any time an Epi-Pen is administered to an individual; therefore, 911 should be called anytime the Epi-Pen is utilized.

In some cases, staff may administer oral medication in conjunction with the Epi-Pen and those staff are not required to be med-certified, but this must be pre-approved (this policy may vary between agencies).



## Emergency Medication – Narcan

NARCAN® Nasal Spray is a prescription medicine used for the treatment of a known or suspected opioid overdose emergency with signs of breathing problems and severe sleepiness or unresponsiveness.

***Agency policy may vary with regard to the use of Narcan***

### **General information regarding Narcan:**

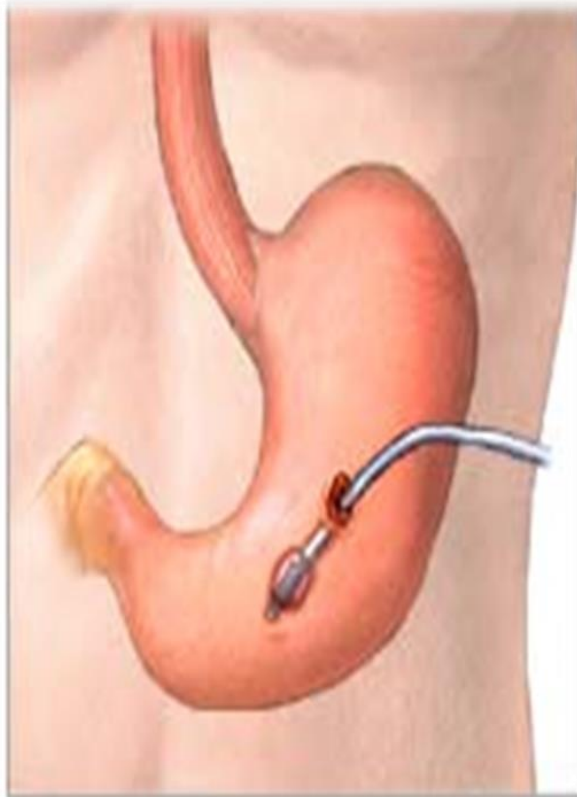
1. Use of Narcan may not be limited to staff who have been certified to administer medications
2. Staff who have been properly trained in the use of the medication may be allowed to administer in an emergency
3. Staff should be trained on how to recognize the signs and symptoms of an overdose
4. Use of Narcan may not be limited to staff who have been certified to administer medications
5. Staff who have been properly trained in the use of the medication may be allowed to administer in an emergency
6. Staff should be trained on how to recognize the signs and symptoms of an overdose



## **Medication Certified Staff's Role in Administering Medication via an Enteral Feeding Tube**

Individuals may receive medications through enteral feeding tubes called either a gastrostomy (G-Tube) or jejunostomy (J-Tube). G-Tubes and J-Tubes are tubes that are surgically placed into the stomach. This is how the individual receives their medications, food, and fluids.

***Administering medications via enteral feeding tube requires additional training from a nurse or licensed practitioner.***



## **Rectal Suppositories**

1. Rectal suppositories are a form of medication administered via the rectum (per rectum)
2. Suppositories consist of ingredients designed to melt at body temperature
3. Medication takes effect in 15-30 minutes

### **Technique for Administration**

1. Staff should provide privacy and properly prepare the individual
2. Gloves must be worn, and lubricant applied to the suppository and staff's gloves
3. Suppository should be inserted with individual in the SIMS position (lying on the left side with the right leg bent up and over the left leg)
4. Lift the buttocks and expose the anus
5. Insert suppository approximately 3-4 inches into the rectum
6. Individual should lay in bed for 10-15 minutes before getting up

***This form of medication administration requires additional training from a nurse or licensed practitioner***

## Module 7

### Objectives

Upon completion of Module 7 learners will:

1. Understand what a controlled med is vs a non-controlled med
2. Understand the storage requirements for controlled vs non-controlled meds
3. Understand what is required for a controlled med count
4. Understand the requirements for destruction of controlled vs non-controlled meds
5. Understand the storage requirements for internal vs external meds
6. Understand the proper temperature for the medication refrigerator
7. Understand the rules for accessing and carrying med keys including controlled med keys
8. Understand what is required when transferring medication during a home outing or visitation

### Controlled vs Non-Controlled Medication

**Controlled Medications** are those drugs which contain any quantity of a substance which has been designated as subject to the federal Controlled Substances Act, or as a depressant or stimulant drug pursuant to federal food and drug laws, or which has been designated by the Commissioner of Consumer Protection pursuant to section 21a-243, as having a stimulant, depressant or hallucinogenic effect upon the higher functions of the central nervous system and as having a tendency to promote abuse or psychological or physiological dependence, or both.

Controlled Medications are habit forming, prescribed in small quantities, must be counted each time keys change hands and when dispensing, and ***must be*** documented on a Receipt & Disposition form.

**Non-Controlled Medication** can only be obtained through a practitioner's/prescriber's order/prescription and is dispensed by a pharmacist but are not considered controlled substances by the government. Non-controlled

medications are not habit forming and include prescription as well as over-the-counter (OTC) medications.

### **Controlled vs Non-Controlled Medication Storage**

#### **Non-Controlled Medication Storage:**

These medications should be kept under one lock. They do not have to be counted, please refer to your agency's policy for additional instruction.

#### **Controlled Medication Storage:**

These medications require **documentation on a Receipt and Disposition** form with every pill dispensed. Controlled medication must **be stored under double lock in a non-removable box.**





## Controlled Medication Count

**Controlled medication change of shift count**

**March 2016**

Signing below acknowledges transfer of responsibility for the controlled medication and that you have counted the controlled medications and are in agreement with the quantity recorded on the controlled medication count sheet

Date: March	1 <sup>st</sup> shift		2 <sup>nd</sup> shift		3 <sup>rd</sup> shift		Comments
	Off 11-7	On 7-3	Off 7-3	On 3-11	Off 3-11	On 11-7	
1							
2							
3							
4							
5							
6							
7							

### **Documenting controlled medications**

- a. Regulations require that you perform a controlled medication count every time the responsibility for medications is transferred from one staff member to another.
- b. Prior to assuming this responsibility, the oncoming staff must count all the controlled medications in the facility/residence with the outgoing staff.
- c. If the medication count matches the documented amount both staff must sign the count sheet; the signatures acknowledge that the medication was counted and that it matches the recorded quantity.
- d. Regulations require that you perform a controlled medication count every time the responsibility for medications is transferred from one staff member to another.
- e. Prior to assuming this responsibility, the oncoming staff must count all the controlled medications in the facility/residence with the outgoing staff.
- f. If the medication count matches the documented amount both staff must sign the count sheet; the signatures acknowledge that the medication was counted and that it matches the recorded quantity.

## **Destruction of Controlled vs Non-Controlled Medication**

1. Controlled medications shall be destroyed by two employees. One must be a licensed nurse. The other does not need to be licensed or med-certified they can act as a witness.
2. Non-controlled medications shall be destroyed by two employees. One staff must be med-certified, the other staff may be a witness if not med certified.
3. Per regulations, medications may not be destroyed in a garbage disposal (sink incinerator) or by flushing down the toilet. Check with your agency's policy for proper disposal methods.
4. Refer to the website link below for the CT Department of Energy and Environmental Protection (DEEP) for acceptable methods to dispose of medications:  
<https://portal.ct.gov/DEEP/Waste-Management-and-Disposal/Medicine-Collections/Medicine-Collections>

## **Storage of Internal vs External Medication**

Medications for internal administration shall be stored separately from medications that are for external administration

Internal preparations are those that are intended to be administered orally/swallowed or inserted into the GI tract

Externals are all other medications that are not intended to be swallowed. External preparations should be further divided/separated as necessary

***Lighting, temperature, and humidity can affect medications, they should be stored at a controlled room temperature in a dry area.***

## Storage Requirements for Refrigerated Medication

1. Must be stored separately from food – preferably in a separate refrigerator
2. If no separate refrigerator is available, medication can be placed in a locked container in the same refrigerator in which food is stored
3. Temperature of the refrigerator must be within 36-46 degrees Fahrenheit
4. Follow agency policy on how often to check and verify the temperature of the refrigerator
5. If controlled medications require refrigeration, such medications must be stored in a non-removable secure locked box within a locked medication container (double locks)

## Medication Keys Including Controlled Medications

1. Medication storage keys are to be secured at all times, according to agency policy
2. Controlled Medication keys must be kept on a separate key ring from the non-controlled medication keys
3. Keys must be stored in a locked box per your agency policy



## **Leave of Absence Transfer of Responsibility**

1. When transferring medication during a home outing or visitation, specific procedures shall be followed depending on agency policy.
2. Documentation of leave of absence (LOA) medication transfer and administration may be necessary depending on agency policy.
3. The pharmacy may prepare medications and provide them to the family, individual, or authorized persons.

## **Module 8**

### **Objectives**

Upon completion of Module 8 learners will:

1. State the general rules of documentation
2. Identify the components of a Medication Administration Record (MAR) front & back and how to document
3. Understand how to safely transcribe a Licensed Prescriber's order
4. Know when to question an order, and the steps to take when questioning
5. Know how often medication orders need to be reviewed and renewed
6. Know how to document requirements for controlled medications

### **General Rules of Documentation**

1. Use permanent ink – no pencils, erasable or gel ink pens
2. Write legibly
3. Use only approved abbreviations
4. Do not use white-out
5. Do not obliterate (destroy) a documentation error
6. Draw a single line through the mistake, write your initials and the date above it
7. Use full legal names and titles
8. The time and date should be noted in all documentation
9. Do not use an Individual's name in another person's record. It is important to maintain confidentiality at all times.

### **Understanding the Front of the MAR**

#### **Front of Kardex**

1. Each box will contain transcription of one medication
2. Numbers across top are days of month



## Understanding the Back of the MAR

### The Back of MAR is used to document:

1. PRN is given
2. Med refused
3. Omission
4. Given outside the window
5. No med available
6. In Hospital / LOA
7. Charted in wrong place
8. Not given - identify reason

***Always complete the back of the MAR in full and include a signature and date***

**BACK OF KARDEN**  
The one your agency uses may look different.

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6/3/21	10:00am	Tylenol 650 mg PO	JF	States "I have a headache"	States "Headache better"	10:45am	Jean Palmer																																																																																																																																		
6/6/21	6:00pm	Colace 100 mg PO	SW	Individual Refused medication. RN W. Wonka notified.		6:00pm	SW																																																																																																																																		
6/22/21	8:00pm	Claritin 10 mg PO	CF	Dose of Claritin Omitted in Error, RN J. Rabbit Notified		8:30pm	Lou LaLorow																																																																																																																																		
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## Transcribing Orders

1. Write in start date.
2. Copy the authorized prescriber's order exactly.
3. Follow your agency guidelines and pharmacy delivery schedule to determine when the med is available for administration.
4. Draw a bracket in front of the days you will be starting the med, then count out your doses and draw a corresponding bracket at the end of the course of medication.
5. Write in your stop or expiration date
6. Put your initials in the date column block that the transcription has been completed
7. Have another non-licensed personnel med staff check the transcription to verify it is correct and have them also initial the date column block.
8. Review any additional agencies procedures.

Order Date	Medication, dose, route, frequency	Exp Date	H	1	2	3	4	5	6	7	8	9	10	11	12	13								
5-5 <i>dtH/ LoR</i>	Keflex 500mg PO BID @ 8am and 8 PM X 7 days	5/12	8a											8p										



## Questioning an Order

### A Prescriber's order should be questioned when:

1. The 5-Rights are not present
2. The order is not signed and dated
3. There is no specified expiration date
4. If there is no reason for a PRN
5. If there are individual-specific concerns:  
Allergies, Dietary Consistency Conflicts

***Whenever there is a question or concern about a medication order the nurse should be contacted. Follow all agency specific recommendations and requirements for documenting all communication related to the concern.***

### Reviewing and Renewing Medication Orders

- A. Review the order when received from the licensed prescriber to ensure its complete.
- B. Follow your Agency's policy regarding communicating with the nurse to ensure they are aware of the order, and it can be transcribed.
- C. Verify that there is a valid prescriber's signature and expiration date for each order. **Orders can be written for 90-180 days depending on your agency's policy.**
- D. Compare the licensed prescriber's order to the MAR to ensure all orders have been properly transcribed.
- E. Follow agency policy and procedures to ensure that all expiring orders are properly renewed by the licensed prescriber without interruption or discontinued if appropriate.

## Documenting a Controlled Substance

Department of Developmental Services  
Documentation of Controlled Drug Count

Month: \_\_\_\_\_ Year \_\_\_\_\_ Location \_\_\_\_\_

	1 <sup>st</sup> Shift		2 <sup>nd</sup> Shift		3 <sup>rd</sup> Shift	
	Signature of On-coming Staff	Signature of Off-going Staff	Signature of On-coming Staff	Signature of Off-going Staff	Signature of On-coming Staff	Signature of Off-going Staff
1	<i>Charlie Brown</i>	<i>Jinker Ball</i>	<i>Lucy van Pelt</i>	<i>Charlie Brown</i>	<i>Jinker Ball</i>	<i>Lucy van Pelt</i>
2	<i>Charlie Brown</i>	<i>Jinker Ball</i>	<i>Lucy van Pelt</i>	<i>Charlie Brown</i>	<i>Peter Pan</i>	<i>Lucy van Pelt</i>
3	<i>Charlie Brown</i>	<i>Peter Pan</i>	<i>Lucy van Pelt</i>	<i>Charlie Brown</i>	<i>Jinker Ball</i>	<i>Lucy van Pelt</i>
4						

**Do not forget, Proper Documentation of Controlled Substances starts with a Controlled Drug Count which is performed at the beginning and end of every shift as well as at any transfer of medication administration responsibility.**

Department of Developmental Services Appendix E

**RECEIPT AND DISPOSITION RECORD FOR CONTROLLED DRUGS**

Carter, Mary Lou Rx 32865C  
Lorazepam 1mg PO qHS  
Dr. Joy Smith

Pharmacy: OMNICARE OF CT.

**MEDICATION**

Name: LORAZEPAM

Form: TAB

Strength: 1mg

Expiration Date: \_\_\_\_\_

Received by: Martin RN

Location: \_\_\_\_\_

Date Received: 1-3

Time Received: 6:15 PM

**Amt.**  
Received: 30

Date	Time AM/PM	Dose Withdrawn	Signature of Person Removing Dose	Amount Remaining	Date	Time AM/PM	Dose Withdrawn	Signature of Person Removing Dose	Amount Remaining
1-3	6:15P	Received from Pharm.		30					
1-3	8:00P	1mg	<i>F. Gerwin</i>	29					
1-4	8:00P	1mg	<i>J. Jones</i>	28					
1-5	8:00P	1mg	<i>Lucy van Pelt</i>	27					
1-6	8:00P	1mg	<i>V. Allen</i>	26					
1-7	8:00P	1mg	<i>F. Gerwin</i>	25					

**Receipt and Disposition Record:**

- 1) One form for each controlled prescription
- 2) 5-Rights must match the MAR exactly
- 3) The Count on the form must exactly match the Count in the Blister Pack.
- 4) Date, Time, and Dose must be Documented and signed each time a pill is removed

## **Module 9**

### **Objectives**

Upon completion of Module 9 learners will:

1. Understand the term Prohibited Practices
2. Identify the types of Medication Errors that can occur
3. Understand the documentation required following a Medication Error
4. Understand the State of Connecticut Medication Error reporting system
5. Understand the sanction and revocation process related to the Medication Error

### **Medication Errors**

#### **Medication Errors consist of the following:**

Failure to administer medication to an individual;  
Failure to administer medication within 1-hour of the time designated by the licensed prescriber or delegating nurse;  
Failure to administer the specific medication prescribed for an individual;  
Failure to administer the correct dosage of medication;  
Failure to administer the medication by the correct route;  
Failure to administer the medication according to generally accepted standards of practice.

#### **Prohibited Practices**

Prohibited Practices means an action or inaction that violates state or federal statute or regulation, or generally accepted practices as it relates to medication administration.

***Prohibited Practices are considered as medication errors***

## **Types of Medication Errors**

*These are potential types of medication errors but may not represent all possible situations that may result in being held accountable for an error.*

### **Class A**

- Administration of medications without appropriate documentation
- Failure to transcribe a medication order according to procedure
- Medication not given by a parent/guardian while the individual is with them
- Failure to document that medication was received from the pharmacy
- Failure to order medication resulting in an inadequate supply
- Failure to secure/maintain medication keys according to agency policy
- Failure to submit required documentation relative to medication error per agency reporting policy

### **Class B**

- A medication error involving one of the 5-Rights (Individual, time, drug, dose, site); can also include medication given outside of the allowed window (typically 1 hour before and 1 hour after medication administration time)
- Transcription errors resulting in the violation of one of the 5-Rights
- Medication given without a Licensed Prescriber's order
- Failure to order medication resulting in an individual not receiving medication (an omission)
- Medication pre-packaged by unlicensed employees not within agency policy
- Medication not given to a Parent/Guardian for leave of absence (LOA)/home visit

### **Class B Prohibited Practices**

- Non-licensed employees taking telephone/verbal prescriber's order
- Improper storage of medication
- Medication destruction against agency policy

### **Class C**

- Errors resulting in the need for immediate medical care (including emergency department or medical office visits) or hospitalization
- Errors resulting in death

### **Class C Prohibited Practices**

- Falsification of records/certification paperwork
- Administration of medication in the absence of a valid certification (i.e., certification was suspended, expired, revoked, etc.)

## **Documentation of Errors**

When a medication error is discovered, follow your agency's policy for notification of the nurse or chain of command.

Fill out an incident report form .

The incident report is not part of the individual's medical record and should not be stored with the medical records. Incident reports are required to be stored with the agency's records.

## **Medication Error Reporting System**

Medication errors shall be reported to a delegating or supervising nurse.  
Medication errors shall also be reported based on the agency's policy.

## **Revocation**

Revocation is the removal of the ability of a non-licensed person to maintain medication administration certification. The decision to revoke a person's ability to maintain their medication administration certification is based on significant violation(s) in any or multiple areas of medication administration, drug-related charges or conviction, and any action(s) or inaction(s) which may endanger the health and safety of an individual(s).

The process for revocation may vary by agency.

Upon notification of a revocation of medication administration certification, the employee shall be notified of the option and process to appeal the decision to revoke their certification by requesting a hearing. If the employee requests a hearing, the outcome may vary from retraining, suspension, or certification revocation.

# What's Next?

After successful completion of Phase 1, a certificate of completion will be provided.

Phase 2 completion is agency specific for DCF, DDS, and DPH. The agency associated with access to Phase 1 will be notified of the employee's successful completion of Phase 1.



If employed by DCF or an agency sponsored by them, Phase 2 will consist of:

- Successful completion of a Lab Practicum
- Successful completion of a DCF Internship



If employed by DDS or an agency sponsored by them, Phase 2 will consist of:

- Successful completion of the Nursing Delegation and Process Review Training (DPR Training)
- Successful completion of a Lab Practicum



If employed a DPH sponsored agency them, Phase 2 will consist of:

- Successful completion of an onsite practicum with a nurse