Medication Administration Review
DEPARTMENT OF DEVELOPMENTAL SERVICES
May 2016
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Welcome to the Medication Administration Review Guide

The purpose of the medication administration review manual is to provide study guide material for the medication administration recertification exam.

In it is information regarding the regulations that go with your medication certification. Please remember that your agency may have additional requirements which go beyond these requirements. Your delegating nurse will instruct you in those areas.

There are quizzes throughout the guide for you. We recommend that you try to work out the problems before looking at the answers. The answers to the questions will be on the back side of the page on which you are working.

Thank you for all the hard work you do in providing medication certification services to people with a Developmental Disability. We appreciate your effort.
Requirements for Renewing your medication certification card.

It is the card holder’s responsibility to know when their med cert card expires. Please note that the month and day on your card will not change unless you let your card expire before completing the process. When you complete the process, no matter if it is 30 days or 90 days before your expiration date, only the year will be updated on your card to reflect your new certification expiration date. Your card will be valid for 2 years. There are, at times, special situations which can arise with your med certification card. Please contact your agency med coordinator to discuss these situations.

Steps to be taken to maintain your certification

- Complete pass/pour and med recert exam by 11:59 p.m. on the date your card expires.

- May start process up to 90 days in advance of the expiration date (not 91 days).
  - It gives you the advantage of taking the exam more than once if needed
  - If your card expires, you cannot pass medications until you have your new card in hand.

If you work at more than one agency

- You may start the process at either agency but whichever agency you start the process with, you must complete the process with.
  - Example, you take the recertification exam at agency 1 and fail. You cannot switch and go to agency 2 to take the next exam. You must stay with agency 1 to complete the process.
  - You will still to complete checklist A & B at both agencies to maintain your delegation with each one.

Staff must have their card with them when administering medications.
Medication Administration Responsibilities

When you are the person who will be passing medications, you must:

- Check the communication log when you come on duty for any changes in the medication regime.

- Check for a signed, current or new order from the authorized prescriber. These are your “permission slips” to give medications. If you do not have current orders, you may not administer the medication. Contact your nurse for further instructions.

- You must compare the orders to the MAR to make sure what is transcribed on the MAR is accurate. This is to be done minimally at the beginning of each month, if you have been off a few days or if a new order has been added.

- You also must check for any allergies. New allergies may arise at any time for a person taking a medication.
Medication Administration Responsibilities continued

Control Drugs

Control drugs are medications that have been identified by the government as those that have the potential to be abused. Because of this fact, there are additional steps which must be followed when working with these medications.

- A count of these medications should be done by 2 authorized people when possible.
- You are to count these medications at:
  - The beginning of your shift
  - The end of your shift
  - When you are removing them from the bubble pack or container.
  - When they are obtained from the pharmacy. If the receipt and disposition form and the amount of medication supplied do not match, do not sign for accepting the medication. This must be resolved before you do.
  - Any time the keys are exchanged between med certified staff.

- These medications must be kept in a locked cabinet in a locked non-removable box.

If at any time, you discover an incorrect count, you must notify your nurse immediately!
Medication Administration Responsibilities continued

KNOW THE MEDICATIONS YOU ARE GIVING!

It is your responsibility to know the:

- **Desired effect**—what will this med do to help the person
- **Side effects**—what things could possibly happen that are not what the person is receiving it for.
- **Usual dose**—what is the typical amount of medication a person would receive when taking this medication.
- **Any special instructions**—does it need to be taken with food, without food, empty stomach, not with grapefruit, in the morning, etc.
- **Drug to drug interactions**—are there any medications that should not be taken at the same time as this medication

If you are unsure of the answer to any of these questions, ask your nurse or pharmacist.

**Do not pass a medication for which you do not know this information!**
Notification Responsibilities

Call the nurse or the nurse on call:

- With any new med or change in med dose, time, or manner to be given.
  - Regarding a change to a med, the bottom line to remember is that if you are going to make any changes to something already written on the med kardex, it must be approved by the nurse first.

- With any change in an individual’s status
  - This includes if PRN medications are needed. Call before giving a PRN medication, as it indicates a change in the person’s health status, unless they have already given you a written protocol.
  - Once the nurse has been notified about that change in condition, they may give you additional instructions, for that occurrence only, for that medication.
    - Example, Mary had a tooth pulled. You notify the nurse and they tell you, you may give the pain med the next 24 hours if needed, without notifying the nurse each time, unless there is a further change in the person’s condition.

When you call the nurse, remember to write down the directions and read them back to the nurse before you complete the call.
Notification Responsibilities

Call the nurse or the nurse on call:

- Any time you discover a med error—the nurse, no one else, determines the action to be taken.

- When you need information on a medication or with any health related questions.

For a **MEDICAL EMERGENCY CALL 911**!

If a medical emergency arises, call 911 first and then notify your nurse as soon as possible. You want to get the emergency care started to your location as soon as possible.
Notification Responsibilities

Call the Pharmacy

- When you notice a change in the color/size of a medication—Verify with the pharmacist it is the correct medication.

- When you need information on a medication—new meds are coming out every day which may not be listed in a drug book.

- When you can’t read the medication label—remember you cannot give a medication if you cannot do the rule of 3!
General Concepts

One hour window

- Applies to routine medications which are the medications scheduled to be given every day.
  - Example: Risperdal 1 mg PO at 8 pm is ordered to be given every day. The earliest you could give it is 7 pm and the latest is 9 pm.

- This rule does not apply to PRN medications. PRN medications must be given at the exact time frame identified or longer.
  - Example: Tylenol 650 mg PO q4h if needed for headache. You last gave it to John at 8 am. The earliest you could give it to him is 12 noon or later.

- Refusals---If the person refuses a medication, do not force them to take it.
  - Place the medication back in the med cabinet labeled with all the appropriate information listed on it.
  - Offer the person the medication again, within the hour window.
  - If the person still refuses the medication, contact your nurse.

Remember!

Any time a med would be given outside the one hour window (for any reason), a nurse must be notified and directions received on how to handle the situation.
General Concepts

Empty Stomach

The times that medications may be ordered to be given, can depend upon whether or not the med needs to have more or less acid in their stomach at the time they take it to work effectively.

The term empty stomach is referring to taking the medications in relation to when they would eat a meal, not just a snack.

If a medication is ordered to be given on an empty stomach, it means the medication would be given

One hour before a meal

or

Two hours after a meal
Medication Administration Process
Preparation Reminders

1. Before you ever go into a med cabinet---**WASH** your hands.

2. Stay **focused** and allow no distractions
   
   a. Do not text, talk on cellphone or with co-workers.
   b. Administering meds properly should be your only focus

3. You are only allowed to prepare **one** individual’s medications at a time.

4. **Check** the MAR to make sure the med hasn’t been given and there are no changes to the MAR.

5. Do not use one person’s meds for **another person**.
   
   a. Federal law states meds may only be used by the person they are set up for.
   b. The person has purchased the meds with their funds so it would be stealing.
   c. You cannot do the rule of 3 and 5 if you are using someone else’s medication.
Medication Administration Process

The Five Rights

C Consumer
(The person’s name)

T TIME
(When med should be given.)

D DRUG
(name of the med)

D DOSE (How much of the medication they should receive. Look for mg or percent of solutions.)

S SITE (ROUTE) (How the medication gets into the body.)

The Five Rights **MUST** be on the MAR and med label in order to pass a medication.
Medication Administration Process

The Rule of 3

The 5 rights and the rule of 3 go together. What this means is that you will compare the 5 rights on the MAR against the medication label (which will also have the 5 rights) 3 times before the person ever receives the med.

This will be done when

- Removing it from the cabinet.
- When pouring/preparing the medication.
- Before administering the medication.

REMEMBER
This is done before ever giving the medication to the person!
Requirements for a complete prescriber order
You must have all of the following
For an order to be complete:

➢ The 5 Rights

  o Consumer, time, drug, dose, site

➢ Expiration date---Example x 90 days, x 2 days
  o The longest length of time is 180 days for group homes.
  o ICF facilities have a 90 day maximum order time.
  o Example: Keflex 500 mg PO QID x 10 days

➢ PRN medications
  o Need a reason or rationale
  o Example: Benadryl 25 mg PO q4hrs PRN for itching for 7 days.
  o Can only be given for the condition identified.

➢ Prescriber signature and date
What is wrong or missing with these orders
OR
Is the order correct?
Assume you have a person’s name, prescriber signature and date.

1. Depakote 500 mg PO BID ____________________

2. Benadryl 25 mg PO PRN for allergy symptoms x 10 days ____________________

3. Lasix 2 tabs PO QD x 90 days ____________________

4. Haldol 5 mg TID x 90 days ____________________

5. Tylenol 625 mg PO Q4hours PRN x 10 days __________

6. Multivitamin 1 tab PO qAM x 180 days __________

7. Topamax 25 mg PO BID x 7 days __________

8. Synthroid 0.175 mg PO every day __________

9. Zyprexa 1 tab PO qHS x 90 days __________

10. MOM 30 cc PO qHS PRN x 180 day __________________________________

(Answers are on the next page)
Answers to questions on previous page

1. Depakote 500 mg PO BID  No expiration date

2. Benadryl 25 mg PO PRN for allergy symptoms x 10 days
   No time frame for how often may be given (i.e. q4h, etc.)

3. Lasix 2 tabs PO QD x 90 days  No mg strength on tabs

4. Haldol 5 mg TID x 90 days  No site (route)

5. Tylenol 625 mg PO Q4hours PRN x 10 days  No reason

6. Multivitamin 1 tab PO qAM x 180 days  Correct

7. Topamax 25 mg PO BID x 7 days  Correct

8. Synthroid 0.175 mg PO every day  No expiration date

9. Zyprexa 1 tab PO qHS x 90 days  No mg strength for tab

10. MOM 30 cc PO qHS PRN x 180 day  No reason

How did you do?
Review the material on what is needed for a complete order if you had difficulty.
Any medication administration is a delegated task. This means your nurse has provided you with training, directions and indicated you are delegated to administer this form of medication.

Certain medications require additional training from your delegating RN before you administer the medications. What are they???

The things listed above are true, but the most accurate answer is:

**Medications requiring additional training are ANY form of medication in which the RN has NOT PREVIOUSLY INSTRUCTED and DELEGATED to you.**

Remember----there are other delegated tasks that require training from your RN but may not be associated with medications.
When Administering Medications

Follow the rule of 3 and the 5 rights previously reviewed.

You compare the 5 rights on the MAR against the 5 rights on the medication label, 3 times **before the person ever receives the med**.

Critical points to remember include:

- **Know the correct consistency for each individual**
  - If they are on a pureed diet, you will probably need to crush the medication. Remember you must have a prescriber order to crush medications.
  - If you use a thickening agent in their liquids, you will probably need to use a thickening agent in liquid medications. Ask your nurse for directions.

- **Sign** for controlled drugs on the receipt and disposition record **when you remove them** from the container.
Critical points continued:

- **Identify the correct individual**
  - Use a photo ID
  - Ask the person to tell you their name.
  - If you get distracted while passing a medication, here are things you can do to be sure you have the correct person:
    - Look at the picture before you give the medication and verify that you are giving it to the correct person.
    - You can ask the person to tell you their name. Do not address them with their name as some people may not be good reporters.

Can you tell me your name?

My name is Sarah.
Medication Routes

Oral Medications

- **Be sure of appropriate consistency and diet orders**
  - Remember, meds should be given with the same criteria as the food they eat or liquids they drink.
  - Ask your nurse if you have questions.
  - You must have an order to crush a med.

- **Be sure the person is sitting up.**
  DO NOT give oral meds to a person who is lying down.

- **Give the person a choice of water or juices.**
  - The fluids will help wash down any particles of the medications, especially if they were crushed.
  - It is a good way to help with adequate hydration or fluid intake for a person.
Medication Routes

Oral Medications continued

- **Make sure the med is swallowed.**
  - Ask the person to open their mouth so you can see.
  - **Why is this step important**
    - A person hides/cheeks their medications or does not take them.
    - Medical professionals look at the response to what they ordered and make adjustments based on what is seen.
    - Outcome could be unpredictable if they do not take them as ordered.

A reminder again
Make sure that medications---especially liquids---are in the **correct consistency** for administration.
Medication Routes

Oral Medications continued

➢ Advantages
  o Most commonly used form
  o Easy to administer
  o Have the ability to remove them if an overdose situation occurs.

➢ Disadvantages
  o Can irritate the GI track
  o Absorption can be unpredictable
  o Absorption is usually in 30 to 60 minutes
  o Not good in an emergency situation due to absorption time frame.
Medication Routes

Oral Medications---**Enteric Coated**

- Coated with hard shell so it will pass through the stomach and dissolve in the intestines.
- **Advantage**
  - Will not cause stomach upset
- **Disadvantage**
  - Cannot be crushed or chewed

Oral Medications---**Time Released**

- Medication is released into the body system over a period of time.
- **Advantages**
  - Decreases the number of times a day a med may need to be taken
  - Effects last longer in the body
  - Abbreviations generally seen: XL, ER, SA, LA, DR, X
- **Disadvantages**
  - Cannot be crushed or chewed
  - May cause an overdose

Fig. 2—“Do not crush” label.
Medication Routes

**Sublingual Medications** (abbreviation SL)

- **General information**
  - Medication placed under tongue to dissolve.
  - Wear gloves if you are administering the med.

- **Advantages**
  - Good in emergency
  - Absorbed directly into the bloodstream
  - Fast acting

- **Disadvantages**
  - Unpleasant taste
  - May irritate lining of the mouth.

- **Administration Procedure**
  - Give a sip of water to moisten mouth prior to administration
  - Person should swallow water before giving med
  - Med should not be chewed or swallowed
  - Give nothing to eat or drink until med has dissolved.
  - Wear gloves if you are putting med in the mouth
Medication Routes

Liquid Medication

➤ Suspensions

**SHAKE SHAKE SHAKE**

- Be sure to shake container before pouring
- If not shaken, can under or over dose a person as med particles are not evenly mixed

➤ Syrups

- Can contain a high sugar content
- Be careful with diabetics as can increase blood sugar level unless using a sugar free syrup

➤ Elixirs

- Contain an alcohol base
- Use with caution with people who have addiction history

The Golden Rule for pouring liquid medications

✔ Set the cup on a FLAT SURFACE
✔ Be at EYE LEVEL with the cup
✔ Keep the LABEL IN THE PALM OF YOUR HAND

NOTE: If you do not follow the golden rule for pouring liquid medications, you may not be administering the correct amount of medication. You have the potential to over dose or under dose a person when process is not followed.

Also, be sure you know if the person has an order to have liquids thickened to a specific consistency.
Medication Routes

**Pulmonary Medications** (meds that help you breathe easier)

- **Advantages**
  - Absorbed quickly so can work within minutes
  - Have a local and systemic effect
  - Good in an emergency

- **Disadvantages**
  - Can increase the heart rate
  - Can cause tremors
  - Can cause hyperactivity
  - Can cause restlessness
  - May have an unpleasant taste
  - May be difficult to administer correct dose

- **Process**
  - Make sure canister is not empty—many have counters
  - Ask person to exhale (blow their air out)
  - Administer medication when they begin to inhale deeply (take a breath in)
  - Instruct person to hold their breath for several seconds and then exhale slowly.
  - If **2 puffs** are to be administered, wait at least one minute before administering the second puff
    - This is critical as it allows the first puff to open up the breathing tubes to the lungs so that when the second puff is given, it can get farther down into the lungs.
  - Provide a mouth rinse after the med is given
    - This step helps prevent the possibility of getting thrush with the use of this medication. (mouth infection)
  - If a person has difficulty following the administration process, a spacer may be used to help them inhale the medication.
Medication Routes

Topical Medications (Always wear gloves when applying)

➤ Types of Medications
  o Ointments
  o Creams
  o Lotions
  o Powders

➤ Advantages
  o Usually easy to apply
  o Generally produces a local effect depending on function of medication.
  o Can be absorbed systemically over time

➤ Disadvantages
  o May be toxic if swallowed
  o Accurate dose cannot be specified
    ▪ I.E. apply liberally or sparingly is unique to a person’s definition
  o Particles from powder may be inhaled

➤ Process
  o Always wear gloves when applying medication
  o Sprinkle powders onto gauze and then apply. Do not shake above area to be applied to unless directed.
Medication Routes
Topical Medications continued

Transdermal Medications---medications are delivered via a patch on the skin

➢ General Guidelines
  o Wear gloves when applying or taking off. You could have contact with the med and absorb it through your skin if not wearing gloves.
  o Remove the old patch. If you are putting on a new patch, be sure the old patch has already been removed or remove it.
  o Discard it appropriately
    ▪ Take the patch off.
    ▪ Fold it in half so the medication is on the inside when folded.
    ▪ Throw it away in the med room for safety.
  o Apply new patch to clean, dry, intact skin
    ▪ Do not apply over an open sore or wound
    ▪ Apply patch where the body has good blood flow
    ▪ Do not apply over scar tissue or callused tissue.
  o Rotate the sites where you place the patch
    ▪ If sites are not rotated, increased chance for skin irritation
  o Document where you place the patch
    ▪ Ask your delegating nurse the procedure for your agency regarding documentation of these patches.
Medication Routes

Topical Medications continued

Transdermal Medications continued

➤ Advantages
  o Systemic effect
    ▪ Typically will impact the whole body but some are designed for local effect. Learn about the med to see which it is.
    ▪ Specific dose is contained in the patch. Pre-determined by manufacturer.

➤ Disadvantages
  o Not effective in an emergency. These are slowly released over a long period of time.
  o May irritate the skin
  o Absorption of dose may be affected by skin condition and circulation.
Medication Routes

Otic/Ear medications—Produce a local effect

- Warm bottle by rolling it in the palm of your hands for a few minutes
  - Do not heat in microwave or boiling water---could burn ear
  - If process not done, can cause pain, nausea and dizziness
- Position head with effected ear up
- Pull the pinna (the cartilage part of the ear) up and back for an adult
  - Think of grown **up** for an **adult** regarding the pinna
  - For a child, pull the pinna down
- Administer the proper number of drops without touching the inside of the ear
- The person should stay in the position 3 to 5 minutes before moving.

**DO NOT** PUT ANYTHING IN THE EAR CANAL UNLESS PRESCRIBED BY A PRESCRIBER!

**YOU ARE NOT ALLOWED** TO EVER CLEAN THE EAR CANAL WITH A Q-TIP
Medication Routes

Optic/Eye Medications---Produces a local effect

Procedure for eye drops

- Have the person seated with head back, looking up and away.
- Pull the lower lid down to form a pocket
- Instill ordered amount of drops in pocket without letting dropper touch the eye
- Have the individual lean towards the effected side to eliminate chance of cross contamination
- Remember to wear gloves and have a tissue in case drops run down cheek.
- Some drops may burn when administered

Procedure for eye ointments

- Have the person seated with head back, looking up and away.
- Pull the lower lid down to form a pocket
- Begin at the inner corner of the eye moving to the outer corner
- Squeeze a thin ribbon of medication into the lower lid
- Stay with the person and observe as vision may be cloudy

Remember when you administer an eye ointment the vision could be blurred so they are a fall risk until the vision clears.
Medication Routes

**Nasal Medications**——Produce a local effect

Types of nasal medications include: sprays, pumps, drops

Procedure:
- Have the person clear their nose by blowing
- Head should be tilted slightly back
- Insert bottle tip no more than 3/8”
- The other nostril should be held closed
- Ask the person to breath in as bottle/pump is depressed
- Person should not blow nose after administration
- If order is for administration of medication to both nostril, you do not have to wait a specific time interval before administering in the other nostril
Medication Routes

Rectal Medications

General Information
- Types of rectal medications include suppositories and enemas
- They are given via the rectum or PR
- They do not melt till reach body temp
- They take approximately 15 to 30 minutes to start working
- Advantages
  - May be used with unconscious person
  - May be used if vomiting present or difficulty swallowing
- Disadvantages
  - May be embarrassing for giver and receiver of medication
  - Person may have difficulty retaining medication

Procedure
- Do with two staff whenever possible
- Assemble all equipment prior to starting
- Wear gloves!
- Place suppository in med cup with lubricant
- Position the person in the **Sims** position (lying on left side with right knee slightly bent)
- Insert the medication approximately 3 to 4 inches
- Person should retain the medication for 10 to 15 minutes
Medication Routes Quiz

1. Medication is placed under the tongue _________________

2. When giving nose drops, do not go in more than _____ inch.

3. Enteric coated or time released meds should not be _______.

4. When pouring a liquid medication, the rules are _______ ________, ________________, and ________________.

5. When preparing a suspension, be sure to ________ the bottle.

6. It is important to wait how long between 2 puffs of a pulmonary inhaler medication. _____________________

7. If you instill an eye ointment into a person’s eye, what risk factor could they have? _____________________

8. When placing eye drops in a person’s eye, you have them lean __________ the affected eye.

9. When giving a suppository or enema, a person should be in the ____________ position.

10. When applying a topical medication, make sure you are wearing ________________.

11. Med given on an empty stomach are given ____________
Medication Routes Quiz Answers

1. Medication is placed under the tongue **sublingual**

2. When giving nose drops, do not go in more than **3/8** inch.

3. Enteric coated or time released meds should not be **crushed**.

4. When pouring a liquid medication, the rules are **flat surface**, **eye level**, and **label in the palm of your hand**.

5. When preparing a suspension, be sure to **shake** the bottle.

6. It is important to wait how long between 2 puffs of a pulmonary inhaler medication. **one minute**

7. If you instill an eye ointment into a person’s eye, what risk factor could they have? **Fall risk till the vision clears**

8. When placing eye drops in a person’s eye, you have them lean **toward** the affected eye.

9. When giving a suppository or enema, a person should be in the **Sims** position.

10. When applying a topical medication, make sure you are wearing **gloves**.

11. Meds given on an empty stomach, are given **1 hour before or 2 hours after a meal**.

How did you do?
Be sure to review the information if you have any concerns about types of medications.
After Administering Medications

✓ Complete all documentation/review MAR for initials

✓ Wash your hands

✓ Monitor the individual for response

✓ Notify RN of any observations/problems with med administered

✓ Clean up/restock the med area
Documentation of Medication

✓ Documentation of medications may be done at the time of pouring the medication or as soon as possible following administration

✓ Control drugs have a separate form called the Receipt and Disposition Record
  o Best practice is to sign at the time of pouring
  o This is the sheet you sign unique to each control medication, which lists how much medication was received, and how much is left each time after it is administered.

✓ Use only approved abbreviations when documenting

✓ ALL new orders require you to notify RN prior to starting medication

✓ Orders transcribed onto MAR need to be checked by another med certified staff or nurse before med is administered. Both sets of initials must be on MAR. If this is not possible, discuss situation with RN.

✓ Changes to medication dosages or frequency of administration are treated as new orders.

✓ PRN documentation is required on the front and back of the MAR along with the effect of the medication.

REMEMBER: A PERSON’S RECORD IS A LEGAL DOCUMENT!
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPO</td>
<td>nothing per os</td>
</tr>
<tr>
<td>qHS</td>
<td>before sleep</td>
</tr>
<tr>
<td>QID</td>
<td>four times a day</td>
</tr>
<tr>
<td>OU</td>
<td>ophthalmic both eyes</td>
</tr>
<tr>
<td>SI</td>
<td>auricular both ears</td>
</tr>
<tr>
<td>TID</td>
<td>three times a day</td>
</tr>
<tr>
<td>AC</td>
<td>auricular both ears</td>
</tr>
<tr>
<td>PR</td>
<td>per os</td>
</tr>
<tr>
<td>PRN</td>
<td>prn</td>
</tr>
<tr>
<td>Q2h</td>
<td>every 2 hours</td>
</tr>
<tr>
<td>AD</td>
<td>after meals</td>
</tr>
<tr>
<td>AS</td>
<td>auricular both ears</td>
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<tr>
<td>AF</td>
<td>auricular both ears</td>
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<tr>
<td>TBSP</td>
<td>tablespoon</td>
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<tr>
<td>BID</td>
<td>twice a day</td>
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<td>TD</td>
<td>three times a day</td>
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<tr>
<td>OD</td>
<td>auricular right eye</td>
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<td>AU</td>
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<td>LA</td>
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<td>QA</td>
<td>auricular both ears</td>
</tr>
<tr>
<td>PC</td>
<td>per os</td>
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</tbody>
</table>
ABBREVIATIONS REVIEW ANSWERS

NPO = nothing by mouth
qHS = at bedtime
QID = 4 times a day
Twice a day = BID
OU = both eyes
SI = sublingual
Gtt = drop
Left eye = OS
Every 4 hr = q4h
AD = right ear
Q2h = every 2 hours
4 times a day = qid
Stat = immediately
Both ears = AU
Right eye = OD
Three times a day = tid
OD = right eye
At bedtime = qHS
tsp = teaspoon
ounce = oz
NKA = No known allergy
PR = per rectum
TID = three times a day
Both ears = AU
AC = before meals
D/C = discontinue
Every other day = qod
PRN = as needed
After meals = pc
AS = left ear
Once daily = qd
TBSP = tablespoon
BID = twice a day
AU = both ears
Per rectum = PR
PC = after meals

Hint: For before meals and after meals = you have the appetizer and cocktails (ac) before a meal and the pie and coffee (pc) at the end of the meal.
Drug Classifications

You do not need to know the examples of meds in each class but you do need to know the expected action in each class.

Whenever you see the sun before a drug class, it means that if a person is on a medication in this class, they are more sensitive to a sunburn occurring. This is called photosensitivity. If you see this, precautions you would take include using sunscreen, have them wear a cap and sunglasses whenever possible.

Analgesic—Drugs that relieve pain without loss of consciousness (pain reliever). Can range from OTC to narcotics. Examples: Aspirin, Percocet, Vicodin

Antibiotics—Drugs used to prevent or destroy growth of harmful organisms. Meds in this group can cause an allergic reaction all of a sudden even if the person has taken them before with no difficulty. Examples: Ampicillin, Erythromycin.

Anticonvulsants—also called antiepileptic’s. These meds are used to control seizure disorders. They require fasting blood work to check for therapeutic or toxic levels in the blood. Your nurse will provide you with directions regarding the meds if lab work is ordered. If you make a mistake and give these meds when you were told to hold them, notify your nurse immediately as it can change the lab outcome. Two key signs of when these levels might be high are tiredness and difficulty walking. Examples include: Dilantin, Klonopin, Tegretol, and Depakote.
Drug Classifications

**Antidepressants**—Drugs used to elevate mood. They may take 2 to 4 weeks before you see an effect. Examples include Lexapro, Zoloft, Paxil, Prozac.

**Antihistamines**—Drugs used to reduce symptoms of allergic conditions. Examples include Benadryl, Claritin, Chlor-Trimeton, Allegra

**Antitussives**—Drugs that suppress the cough reflex. Example: Robitussin DM

**Hypnotics**—Drugs used to produce sleep. Example: Ambien, Restoril, Halcion

**Sedatives**—Drugs used to relax a person without producing sleep. Examples: Chlora Hydrate, Ativan.

**Antianxiety**—Drugs used to treat anxiety/tension. Examples: Ativan, Xanax, Valium.

**KEY POINT**—an important consideration when someone is on a sedative or antianxiety medication is that it can make them very tired so they could become a fall risk. This is especially important to remember if they are used only for a pre-sedate purpose.
Drug Classifications

Cardiovascular Medications---Drugs that are given for the heart and/or circulatory system. There are different groups in this category.

- **Antihypertensives**---meds given to treat high blood pressure. Your nurse may instruct you to take their blood pressure on a specific time interval. Examples: Toprol-XL, Lisinopril, Catapres.

- **Diuretics**—meds given to rid the body of excess fluids.
  - The fluid loss contains potassium. Some foods high in potassium that you may be instructed to include in their diet are: potato skins, bananas, dark green vegetables, leafy green vegetables or orange juice.

- **Digitalis**—meds given to strengthen the heart but cause it to beat slower. Examples: Digoxin, Lanoxin
  - You must take the pulse at the wrist for a full minute.
  - Do not give if the pulse is under the rate of 60.
  - Notify nurse if indicated.

- **Anticoagulants**—used to prevent or decrease clot formation. These meds will cause a person to bleed for a longer period before the bleeding stops which is a safety issue. Examples—Coumadin, Miradon.
  - Notify the nurse if you see an increase in bruising or nose bleeds
  - Be sure to use electric razors for safety.

- **Vasodilators**—Increase blood supply to tissues with a poor blood supply by dilating vessels. Examples: Loniten, Apresoline
Drug Classifications

Antipsychotics---also called neuroleptics

General information
✓ These are drugs that treat psychotic symptoms.
✓ Do you remember what the sun means...photosensitivity. What do you need to remember to do for this?
✓ These meds can cause early onset, late onset, and anytime side effects
✓ Examples: Zyprexa, Risperdal, Haldol, Clozaril, Mellaril, Geodon

Early Side effects ---typically occur in months 1 to 3
✓ Akathesia---this is the inability to remain still, restlessness
✓ Acute Dystonia---muscle spasms of small muscle groups
✓ Parkinsonism---tremors, shuffling gait, rigidity
✓ If you see any of these, notify your nurse. There may be meds that could be given to help these symptoms

Late Onset Side Effect—Tardive Dyskinesia
✓ Generally occurs after 3-6 months
✓ Characterized by abnormal, involuntary movements of the lips, tongue, and jaw-blinking, frowning, twitching and jerking movements of arms and legs.
✓ Early recognition is essential to the person’s well-being.
✓ Notify the nurse right away if symptoms seen.
✓ These effect may be irreversible
Drug Classifications

Antipsychotics - side effects continued...

Neuroleptic Malignant Syndrome (NMS)

✓ Any time onset---from first day to months after starting med, but typically within 30 days of starting medication

✓ Symptoms include
  o Muscle rigidity
  o Parkinsonian like symptoms (drooling, stiffness, shuffle gait, etc.)
    ▪ **F** (fever)
    ▪ **E** (encephalopathy/brain swelling)
    ▪ **V** (vitals unstable)
    ▪ **E** (elevated enzymes if blood work drawn)
    ▪ **R** (muscle rigidity)

**THIS REQUIRES EMERGENCY CARE! CALL 911!**

HAS A 10% DEATH RATE ASSOCIATED WITH IT.
Medical Terms

- **Adverse effect**: Undesired side effect or toxicity usually requiring the med be discontinued or change the med.

- **Side effect**: A mild or predictable reaction to the drug other than one for which it is administered. Example: A person is on a pain medication. They get constipated from taking it. The constipation is a side effect but it is one that can be treated.

- **Therapeutic effect**: The medication gives us the desired effect. The med does what it needed it to do. Example: Someone has high blood pressure. They take a medication designed to lower the blood pressure and it does.

- **No apparent effect**: The medication is not doing what it is supposed to do. Example: The person was given a medication to lower their blood pressure and their blood pressure is still too high. The medication did not lower it.

- **Synergistic**: A drug to drug interaction that causes the effect of one drug to be increased. Example: You are depressed. Your antidepressant has helped a lot but it has not fully resolved. The drug Abilify could be added to increase the antidepressants effect.

- **Antagonistic**: A drug to drug interaction that causes the effect of one drug to be decreased. Example: You are on a birth control pill which has been working well. You get an infection and they order an antibiotic. Together the antibiotic can knock out the effect of the birth control pill.

- **Allergic Reaction**: A reaction to a drug that usually involves the skin, lungs or mucous membranes.

- **Anaphylaxis**: A life threatening, acute, systemic, allergic reaction. CALL 911!!

- **Objective**: A change that you can see, hear, feel, or smell.

- **Subjective**: A change that only the person experiencing it truly can know.

- **Dysphagia**: Difficulty in swallowing or the inability to swallow.
**Drug Classification Quiz**  
*(Answers are on the next page)*

Match the med topics in Column A with the answer in Column B

<table>
<thead>
<tr>
<th></th>
<th><strong>Column A</strong></th>
<th><strong>Column B</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Analgesics</td>
<td><strong>A</strong> Life threatening antipsychotic reaction that can occur at any time</td>
</tr>
<tr>
<td>2</td>
<td>Antibiotics</td>
<td><strong>B</strong> Used to treat psychotic behavior, also call neuroleptic</td>
</tr>
<tr>
<td>3</td>
<td>Anticonvulsants</td>
<td><strong>C</strong> All produce photosensitivity, apply sunscreen</td>
</tr>
<tr>
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<tr>
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<td>Diuretics</td>
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<tr>
<td>12</td>
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<td><strong>L</strong> Relives pain without loss of consciousness</td>
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<td>Antipsychotic early side effect</td>
<td><strong>M</strong> Used to control seizures, also called antiepileptic’s</td>
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<td>Antipsychotic late adverse reaction</td>
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<tr>
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<td><strong>O</strong> Produce sleep</td>
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When **not** to pass medications

- **If you can’t read the label**....how could you do the rule of 3 and 5 if you can’t read the label.

- **If there is a change in status**.....call the nurse. This includes if a PRN medication is needed, and you don’t have a protocol, as that is a change in status.

- **If the person refuses the meds**.....put them back in cabinet labeled. Then try in a bit to see if they will take them. When the end of the 1 hour window comes, notify RN if they have still refused for directions.

- **If any of the 5 rights are missing**........all must be present to pass med.

  **Consumer Time Drug Dose Site**

- **If signed orders are not present**......you need orders as they are your permission slip to give the medications.
Remember don’t.....................

- **Replace a medication in a blister pack or bottle**.....this is not allowed by med cert regulations and is a major risk potential

- **Give meds that you have not poured**.....if within the group home setting, if you are giving it then you must set it up. You may give meds that a nurse has poured for you.

- **Pour more than one person’s meds at a time**.....the regulations do not allow this for med certified staff

- **Use one person’s meds for another person**.....the reasons are the other person purchased it so it would be stealing, meds are only set up for the person identified per federal law, and you would not be able to do the rule of 3 and 5.

- **Falsify documentation** .....don’t try to cover up an error. Contact RN for directions on how to address. The information that you report is critical for the care of those we help.
Remember don’t………..

- Leave your keys unattended or the med cabinet open where others can then gain access to it.....major safety issue as anyone could have access to the medications.

- Destroy meds in any other manner other than identified by your agency’s policy.......this must be done in a non-retrievable manner and 2 people must witness the destruction. Control meds must be destroyed by a licensed nurse.

- Memorize medications......don’t learn meds by saying they take 1 pink, 2 white and 1 purple pill. You must know the medications by name, use, effect, side effects and precautions.

Susie gets 1 pink, 2 purple and 1 yellow pill....NO! I Must do the rule of 3 and 5!
**LOA**

**Leave of Absence**

**One Dose**

When a person is going out on an LOA, and they only need one dose, it can be **packaged by med certified staff**. The container or envelope in which the medication is placed in must contain the **5 rights**. Remember, **dose refers to a time period and not the number of medications** to be given at a specific time.

**When leaving for more than one dose period**

There are 3 options for when people are leaving for more than one time period. Do one of the following:

- Get a prescription from the MD that the responsible person can fill.
- If given enough notice, see if the pharmacy could prepackage the meds for you.
- You may give the household supplies with instructions. (means you send the original bubble packs, bottles or containers)

---

**Don’t memorize.** Know the actual med use, side effects, precautions, interactions.!
REMEMBER TO FILL OUT THE LOA PAPERWORK FOR YOUR AGENCY!!!

WHEN ERRORS OCCUR

When you become aware of a med error, notify the nurse, UNLESS it is life threatening. If it is life threatening, you would call 911 and then notify the nurse as soon as able.

The following are examples only of each level of med error. The nurse makes the final determination depending on the circumstances.

Retraining will occur after each error as determined by the nurse & agency protocol.

Class A med errors: Failure to document, return the keys, reorder medications or document on the controlled sheet

Class B med errors: Any violation of the 5 rights (wrong person, time, drug, dose, site), taking a telephone/verbal order, omission of med due to it not being ordered.

Class C med errors: Any error resulting in hospitalization, serious injury or death; administration of med when certification has expired; falsification of records and/or certification paperwork.
Sanctions

- Any error(s) will result in progressive retraining and discipline.
- Agency policy will be followed for corrective action in the event a med cert staff makes more than 3 med errors during a one month period.
- A RN may say you are not delegated to pass medications under them.

Measurements and Calculations

You must **know** these equivalents:
Remember: A cc and ml are exactly the same.

- 1 tsp = 5 cc/ml
- 1 Tbsp = 15 cc/ml
- 1 oz = 30 cc/ml

You have an order that reads:
Dilantin 500 mg PO TID. On hand you have Dilantin 250 mg/5cc.
There are two ways you can get to the answer.

**Method #1**

- Divide what you want by what you have--- 500 divided by 250 would be 2.
- Multiply that number by what it took to reach each of the on hand doses.
  In this case you would multiple the 5 cc (what it took for each 250 mg) x2 to get the answer of 10 cc per dose.
  
  \[
  \begin{array}{c}
  500 \text{ mg} \\
  250 \text{ mg} \\
  \times 5 \text{ cc} = 10 \text{ cc}
  \end{array}
  \]

**Method #2**

<table>
<thead>
<tr>
<th>Medication Dose</th>
<th>Quantity Required to make the dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>(this could be cc/ml/tab-cap, etc)</td>
<td></td>
</tr>
</tbody>
</table>
This is what you have on hand and you keep adding till you reach the desired amount. Each time you add a dose to the left column, you add the amount it took to get that dose in this column. When the left column reaches the dose you want, you add the quantities in this column to see how much of the item it will take.

<table>
<thead>
<tr>
<th>250 mg</th>
<th>5 cc</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ 250 mg</td>
<td>+ 5 cc</td>
</tr>
<tr>
<td>= 500 mg</td>
<td>Total cc’s needed =10 cc (or ml)</td>
</tr>
</tbody>
</table>

How much do you pour?

1. The prescriber orders 400 mg of Robitussin liquid. You have 200 mg/5cc on hand. How much do you pour? ________________

2. The prescriber orders Depakote 1000 mg for a person. You have 250 mg tablets on hand. How many tabs do you pour? ________

3. The prescriber orders Lasix 60 mg. You have 20 mg / 5cc on hand. How many cc’s do you pour? __________________________

4. The prescriber orders Neurontin 300 mg. You have Neurontin 600 mg scored tablets on hand. How many tabs do you pour? ________

5. The prescriber orders MOM 30 cc to be given. How many TBSP would that be? ________ How many ounces? ________ How many tsp? ________

6. The prescriber orders Zoloft 120 mg for a person. You have Zoloft 20 mg /5cc. How many ml would you pour? ____________________
How much do you pour answers

1. The prescriber orders 400 mg of Robitussin liquid. You have 200 mg/5cc on hand. How much do you pour? 10 cc

2. The prescriber orders Depakote 1000 mg for a person. You have 250 mg tablets on hand. How many tabs do you pour? 4 tabs

3. The prescriber order Lasix 60 mg. You have 20 mg / 5cc on hand. How many cc’s do you pour? 15 cc

4. The prescriber orders Neurontin 300 mg. You have Neurontin 600 mg scored tablets on hand. How many do you pour? ½ tab

5. The prescriber orders MOM 30 cc to be given. How many TBSP would that be? 2 TBSP How many ounces? 1 oz How many tsp? 6 tsp.

6. The prescriber orders Zoloft 120 mg for a person. You have Zoloft 20 mg /5cc. How many ml would you pour? 30 ml