



Medication Administration in the Child Care Setting



Army Public Health Nursing
Department of Preventive Medicine
Irwin Army Community Hospital

Objectives

Upon completion of this class, you will have an understanding of:

- Army & local policy on medication administration in the childcare setting
- Safe medication administration practices
- Medication storage
- 6 Rights of medication administration

Why Give Medication in Child Care?

- There are 3 main reasons for giving medication in the child care setting:
 - To maintain the health of the child
 - To allow a child who is not acutely ill to attend the program
 - To comply with laws, regulations and best practice



Administering Medication and Performing Caregiving Health Practices

- Per 608-10, on occasion CYSS personnel may be required to perform health related practices(such as medication administration) as a reasonable accommodation for children with disabilities as outlined by the Rehabilitation Act of 1973.
- The Rehabilitation Act of 1973 prohibits discrimination against people with disabilities. The law applies to programs conducted by Federal agencies, programs receiving Federal funds, Federal employment, and in the employment practices of Federal contractors.
- The standards for determining employment discrimination under the Rehabilitation Act are the same as those used in Title I of the Americans with Disabilities Act.

Americans with Disabilities Act (ADA)

- What the law says:
 - Centers have to make reasonable modifications to their policies and practices to integrate children, parents, and guardians with disabilities into their programs.
 - You can not refuse to give medication to a child with disabilities. In some circumstances, it may be necessary to give medication to a child with a disability to make a program accessible to that child.
 - There is no military exemption for ADA.



AR 608-10 regulates that CDC Staff and FCC Providers may:



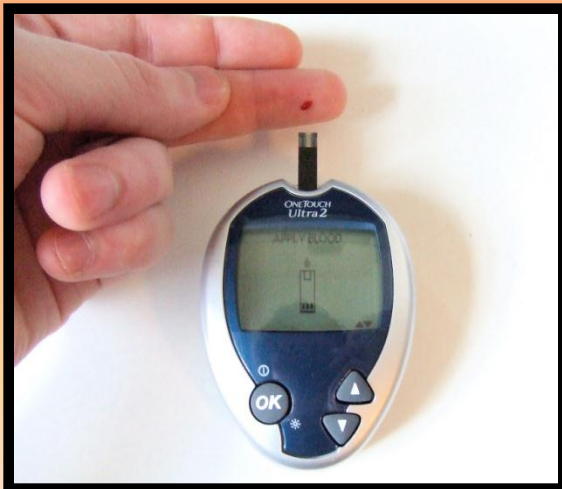
Administer Medications



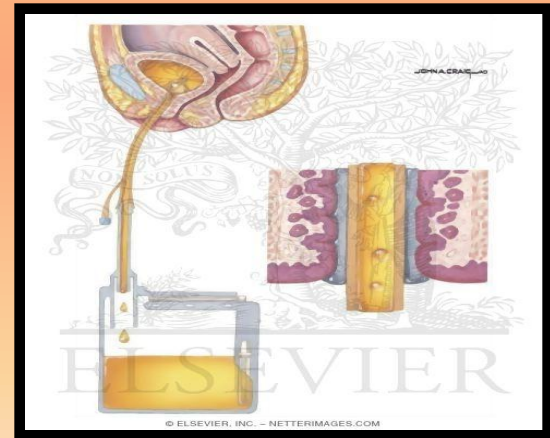
Administer Nebulized Medications



Administer Medications & Feedings via G-tube



Assist with Glucose Monitoring



Perform Clean Intermittent Catheterization

What CDC STAFF and FCC Providers Can't do, per 608-10

- **CAN'T** perform functions that require extensive medical knowledge, such as:
 - Determining the dosage of a prescribed medication such as a dose of insulin based on the result of a child's blood sugar
 - Determining the frequency of a prescribed medication.
- **CAN'T** perform a function that if improperly performed could lead to a high medical risk. An example would include:
 - Injection of insulin
- **CAN'T** perform functions that are considered medical intervention therapy (for example those functions not typically taught to parents by physical, occupational, speech therapists, or special educators as part of a home program)

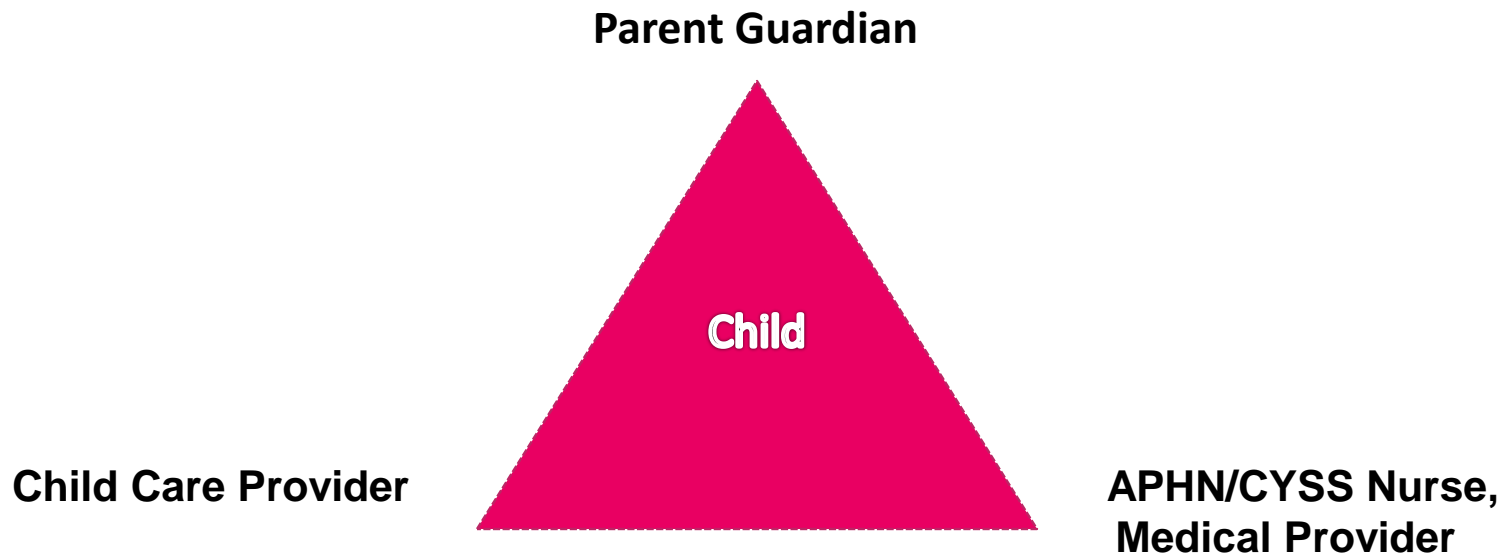
MEDICATION ADMINISTRATION:

**WHAT YOU
NEED TO
KNOW TO
SAFELY
ADMINISTER
MEDICATION
IN THE CHILD
CARE SETTING**



Medication Administration: Responsibility

- Medication administration is dependent on:
 - The competency of the individual administering the medication
 - Communication and cooperation between the parent/guardian, child care provider, and health care professional
 - A caring environment with the common goal of maintaining the health of the child





Medications are substances used to treat diseases, illnesses, or symptoms of a disease/illness.

Approved Medication List

- CYSS has an Approved Medication List
- IF a medication is not on the Approved Medication List, it **MAY** be administered:
 - Only if it's approved by the health consultant per AR 608-10 guidelines.
 - Only after an Exception to Policy is completed by the health consultant
- The Approved Medication List contains the following categories of medications:
 - Antibiotics
 - Antihistamines
 - Decongestants



2014 Approved Medication List

2014 Approved Medication List

Child, Youth and School Services

1. ANTIBIOTICS/ANTIFUNGALS

Brand Name:

Amoxil®, Trimox®
 Augmentin® (ES/XR)
 Zithromax®
 Celcor®
 Duricef®
 Omnicef®
 Suprax®
 Cefzil®
 Cefin®
 Keflex®
 Biaxin®
 Cleocin®
 E.E.S.®, Ery-Tab®, EryPed®
 Furadantin®, Macrochantin®
 Mycostatin®
 Penicillin-VK®
 Bactrim®, Septra®

Generic Name:

Amoxicillin
 Amoxicillin/Clavulanic Acid
 Azithromycin
 Cefaclor
 Cefadroxil
 Cefdinir
 Cefixime
 Cefprozil
 Cefuroxime
 Cephalixin
 Clarithromycin
 Clindamycin
 Erythromycin
 Nitrofurantoin
 Nystatin
 Penicillin
 Sulfamethoxazole/Trimethoprim

2. COUGH and COLD PREPARATIONS

Due to concerns with cough and cold medications in the pediatric population, the FDA has issued warnings about the appropriate use in this population.

Medication	Age Limitations	Product Strength
Benadryl®	Do not use < 6 months	Diphenhydramine 12.5 mg per 5 ml
Claritin®	Do not use < 6 months	Loratidine 5 mg per 5 ml
Robitussin®	Do not use < 2 years	Guaifenesin 100 mg per 5 ml
Robitussin DM®	Do not use < 2 years	Guaifenesin 100 mg/Dextromethorphan 10 mg per 5 ml
Sudafed®	Do not use < 2 years	Pseudoephedrine 30 mg per 5 ml
Children's Dimetapp® Cold and Allergy Liquid	Do not use < 2 years	Brompheniramine 1 mg/Phenylephrine 2.5 mg per 5 ml

3. OTHER MEDICATIONS – Medications not included on this list require an approved Exception to Policy Memorandum prior to administration by CYSS personnel.

Lauren B. Defelice RN, BSN Date: *2014 February 27*
 LAUREN B. DEFELICE RN, BSN
 Nurse Health Consultant to CYSS
 Army Public Health Nursing
 (Valid for 1 year)

Exception to Policy example for antibiotic eye drops

Training on correct dosage technique, provided by the APHN, to staff members responsible for administering eye drops, prior to staff administering the eye drops.

FORT RILEY CYSS EXCEPTION TO POLICY FOR MEDICATION ADMINISTRATION

Instructions for use:

If a parent brings in a medication that is not on the approved list, CYSS management personnel will contact the APHN or CYSS Nurse to seek approval to administer the medication. A copy of the prescription shall be emailed or given to the CYSS Nurse or APHN for approval. Prior to administering the medication, the Exception to Policy must be completed in full by the CYSS Nurse or APHN and provision of any specialized training completed by the APHN/CYSS Nurse to CDC personnel responsible for administration of the medication. Keep this form in child's record and document on DA Form 5225-R "exception to policy approved".

PART 1

CHILD'S NAME: Snow White

DOB: 07/15/2012

CYSS PROGRAM: First Division CDC

MEDICATION: Polymyxin B/TMP (Polytrim) 10ml ophthalmic solution

DOSE: Instill 1 drop in each eye

FREQUENCY: Give at 1200 and 1600 daily

START DATE: December 10, 2012

STOP DATE: December 15, 2012

WHY WAS MEDICATION PRESCRIBED: Conjunctivitis (pink eye)

PHYSICIAN: Dr. Sneezzy at Farrelly Health Clinic Phone: 785-240-5585

APHN/ CYSS GRANTING APPROVAL: Michelle Johnson RN, BSN

PHONE NUMBER: 785-240-7234

DATE OF APPROVAL: 12/10/2012

PART 2

Complete a DA Form 5225-R and email to CYSS Nurse or APHN for approval

Special Instructions for the administration of prescribed medication:

- Get prompt medical attention for any vision changes or signs of worsening infection such as redness, swelling, pain, or foul smelling drainage from the eye.
- Place eye drops in the corner of the eye where the eyelids meet the nose. When Snow White blinks, the medication will flow into her eye.
- Give the exact number of drops prescribed
- Be careful to not touch the eye or eyelashes with the medication bottle
- To avoid spreading infection, wash your hands well with soap and warm water before and after touching Snow White's eye and dispose of any tissue used.

What to do if side effects are suspected:

- Immediately discontinue the medication
- Immediately notify CYSS Management Staff, parent, and CYSS Nurse or APHN
- If a life threatening condition occurs, immediately call 911

All Medication Must:

- Be in its original container.
- Have a child-proof cap.
- Be clearly labeled – not altered!
- Have a current date.
- Have the child's name, the medication name, and the dosage.
- Have instructions for use.
- Have the Physician's name

The diagram shows a prescription label with the following fields and callouts:

- Pharmacy name and address:** Local Pharmacy, 123 MAIN STREET, ANYTOWN, USA 11111
- Drugstore phone number:** (800) 555-5555
- Doctor's name:** DR. C. JONES
- Prescription fill date:** DATE 06/23/09
- Number used by the drugstore to identify this drug for your refills:** NO 0060023-08291
- Person who gets this drug:** JANE SMITH
- Instructions about how often and when to take this drug:** TAKE ONE CAPSULE BY MOUTH THREE TIMES DAILY FOR 10 DAYS UNTIL ALL TAKEN
- Name of drug and strength of drug:** AMOXICILLIN 500MG CAPSULES
- Number of refills before certain date:** QTY NO REFILLS - DR. AUTHORIZATION REQUIRED, USE BEFORE 06/23/12

Additional text on the label includes: MRG, SLF/SLF, and a barcode on the right side.

Don't use this drug past this date

Forms of Medication: Oral



- Tablets
 - Coated and uncoated: Swallow whole
 - Chewable: Must be chewed and not swallowed whole
- Capsules
 - Do not crush or chew
 - Do not open and sprinkle onto food or into a drink, unless specifically ordered to do so by the medical provider.

**** Medication will not be crushed, diluted, or mixed with food/drink unless specifically instructed by the medical provider in writing and after consultation with CYSS Nurse or APHN

Forms of Medication: Oral, continued

- Liquid
 - Suspensions: Un dissolved Medications in liquid
 - Must be shaken prior to pouring
 - Usually needs refrigeration.....such as Amoxicillin Suspension
 - Syrups: A concentrated solution of sugar in water or other liquid with medication added, such as cough syrup
 - Elixir: Sweetened liquid in a dilute alcohol base which contains dissolved medication, such as Tylenol Elixir with Codeine

Forms of Medication: Oral, continued

- Sublingual: Placed under the tongue
- Melting strips and tablets: Absorbed directly in the mouth.
Examples include:
 - Tylenol Meltaways
 - Triaminic
- Gums and Gels



Forms of Medication: Topical

- Topical medications that may be used in CYSS include:
 - Eye drops
 - Ear drops
 - Creams or ointments such as:
 - Diaper rash preparations (do not require an Exception to Policy if on the Basic Care Item Sheet)
 - Hydrocortisone cream for bug bites





Basic Care Items



- AR 608-10 identifies the following as Basic Care Items:
 - Topical items used for the prevention of sunburn
 - Ointment and lotions used for diaper rash
 - And topical items used for teething. These items can't contain Benzocaine (recent American Academy of Pediatrics guidelines)



Approved Basic Care Item List

December 2013



FORT RILEY CYSS APPROVED BASIC CARE ITEM LIST

December 1, 2013

1. Per AR 608-10, 4-32, Basic care items are limited to topical items used for the prevention of sunburn, diaper rash, (ointments and lotions), and teething irritation. Basic Care Items may **ONLY** be used as directed by the manufacturer to include amount/dose, age restriction, frequency of use, and area of application. There is no authorized variation in administration from these directions. Parents of children showing any indication of disease (infected sunburn, diaper rash, or gums) will be notified and referred to a healthcare provider for diagnosis and treatment. The use of basic care items will be discontinued until healthcare provider determines further use will not be harmful.

2. Only the items identified below are approved for use without prescription. Products not on the approved list require review by the Health Consultant with an Exception to Policy issued prior to use of product.

a. Prevention of Sunburn:

Sunscreen with a Sun Protection Factor (SPF) of at least 15 that is "broad-spectrum" should be used. For babies younger than 6 months: Use sunscreen on small areas of the body, such as face and the backs of hands, if protective clothing and shade is not available.

- Banana Boat Kids Sunblock[®]/Banana Boat Baby Sunblock Lotion[®]
- Neutrogena Wet Skin Kids Sunblock Spray[®]
- Coppertone Kids Sunscreens/Coppertone Water Babies Sunscreen Lotion[®]
- Aveeno Baby Continuous Protection Sunblock Lotion[®]
- Block Up![®] Baby Sunscreen
- Equate Kids Sunscreen[®]

b. Prevention of Diaper rash (Ointments and Lotions):

- Desitin[®]
- A and D ointment[®]
- Boudreaux's Butt Paste[®]
- Petroleum Jelly
- Balmex[®]
- Aveeno Baby: Soothing Relief Diaper Rash Cream[®]
- California Baby Diaper Rash Cream[®]
- Triple Paste Medicated Ointment[®]
- Burt's Bees: Baby Bee Diaper Ointment[®]
- Earth's Best[®] Organic Aloe Vera and Vitamin E Diaper Relief Ointment
- Equate Creamy Diaper Rash Relief[®]
- Equate Diaper Rash Ointment Skin Protectant 40% Zinc Oxide[®]

c. Teething medications (May not contain Benzocaine):

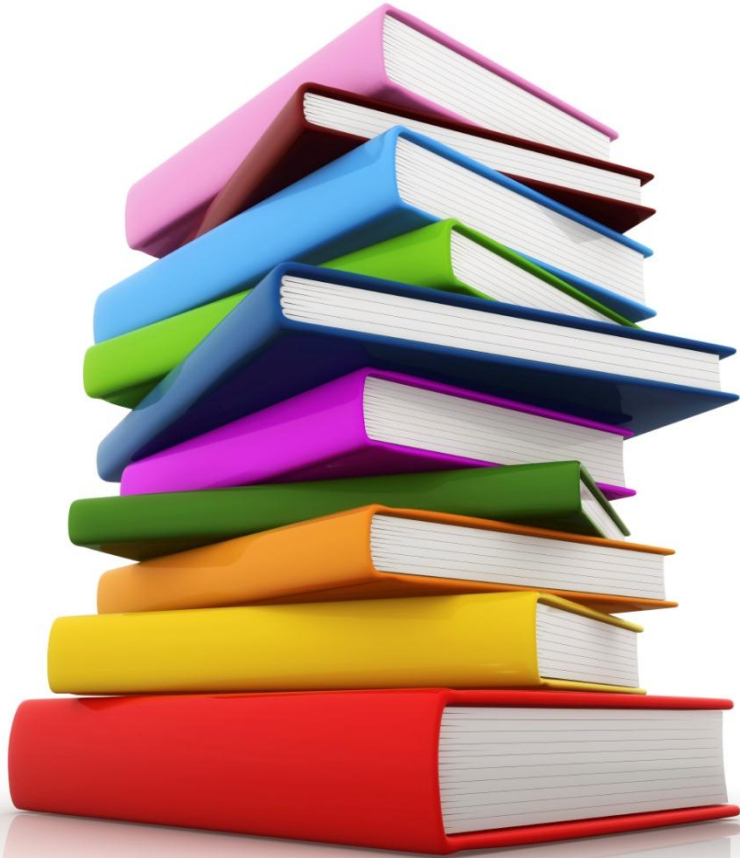
- Baby Orajel Naturals[®]
- Camilla[®]
- BabyGanics[®]
- Hyland's Homeopathic Teething Gel[®]

3. The point of contact for this memorandum is the undersigned.

Catharina R. Lindsey
CATHARINA R. LINDSEY
MAJ, AN
Chief, Army Public Health Nursing



General Policies



- **Daily medications will only be administered in full-day care or on an exception basis in other programs (MST, SAS, Hourly Care), when no other reasonable alternative exists.**
- **Individuals administering meds will receive specialized training.**
- **Medications must have specified dosages; no PRN (as needed) medications.**
- **Child must be on medication for 24 hours before the medication may be administered by CYSS staff**

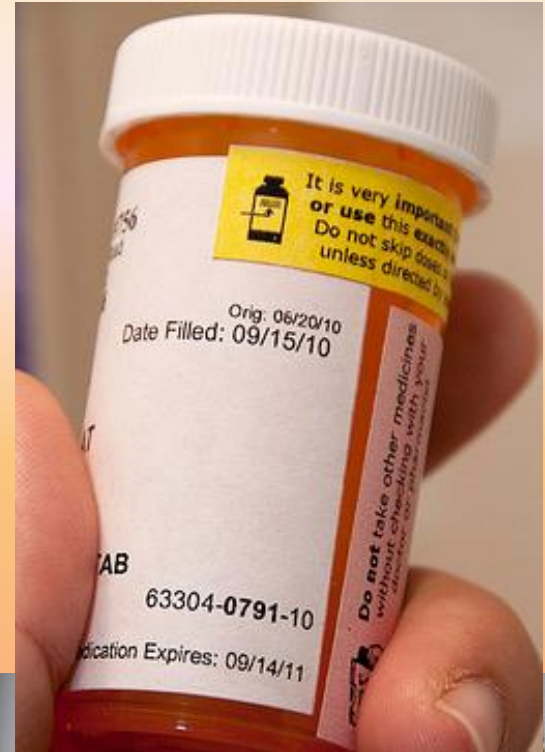
General Policies

- **Never give a medication if:**
 - its appearance has been altered
 - You can't read the label, or the label has been changed.
- **Never sign the medication card, agreeing to administer a medication, if you don't know what the medication is, why it's to be given, how it's to be given, and any potential side effects.**
- **Medications are returned to parents when no longer needed. If unable to return to parents, medication can be given to the CYSS Nurse or APHN nurse for proper disposal per State and Federal Guidelines**
- **Medications should be given at home by parents/guardians, if possible**



Medication Expiration

- Two different dates to check for.
- Date of Prescription
 - Listed on the prescription label
 - Rx is only valid for 365 days
 - 06/20/2011 will EXPIRE on 6/19/2012
- Medication Expiration
 - Listed on the medication label
 - Manufacturer's date of expiration



Once the prescription has expired, the drug (even if it has not expired) may not legally be administered anymore.

Two Types of Medications

Daily Medications

- Medications that a child gets at a certain time every day
 - Antibiotics
 - Afternoon dose of Ritalin

Rescue Medications

- Medications that are prescribed to treat a medical emergency:
 - Albuterol Inhaler for asthma
 - Benadryl for mild allergic reactions
 - EpiPen for severe allergic reaction

We have different storage regulations for each type.

Storage of Medications

- Store all medications out of the reach of children, in a cupboard labeled “medications”. The cupboard must have a child proof lock.
- Store non rescue medications in an additional locked box inside the medication cupboard.
- **NEVER** store rescue medications in a locked box. Rescue medications should be stored inside the medication cupboard where they can easily be reached in an emergency.
- During fieldtrips, rescue medications should be kept in a backpack secured by a CYSS Staff member at all times.
- During outdoor play, rescue medications can be stored in a backpack that is hung on a hook out of the reach of children.
- Per Army Policy staff medications follow the same storage guidelines. They may not be stored in your purse in the Teacher’s Cabinet.



Locked box for
Daily medications



Can be used to
store rescue
medications

Rescue medications must be with the child at **ALL** times.

When you combine classrooms.



When you go to the playground.



During Fire Drills.



On field trips.

Any time you leave the classroom!

Six “Rights” of Med Administration



Right Child



Right Medication



Right Time



Right Dose



Right Route



Right Documentation

Right Child

- Identify the correct child
- Administer medication to a child in a separate area away from other children, to avoid distractions which may lead to a medication error.
- Check all paperwork to ensure correct child



Right Medication

- Compare the medication label to the Medication Card
- If applicable, compare the medication to the Medical Action Plan (i.e. Asthma Care Plan, Allergy Action Plan).
- Check the medication 3 times before administering:
 - Before preparing the medication
 - After preparing the medication
 - Before administering the medication



Right Time



- **Check the prescription label and Med Card to verify time medication is to be given.**
- **Medication will be administered within a 30-minute window of the scheduled time.**
- **For example, if the medication is ordered for 12 noon, it can be given between 1130 and 1230.**
- **If ordered once or twice daily (without a specific time) the parent will be responsible for administering at home**



Right Time

- The actual time the medication is given will be documented on the medication card
- Document the time the medication was given and your initials, on the medication card
- If medication is not given because it was forgotten, child was absent, etc. document the reason the medication was not given on the medication card, and initial.
- Do not administer medication past the specified time. Immediately notify the parent, and complete an medication error report.

Right Dose

- Verify correct dose on Rx label, Med Card and Care Plan
- Ensure that medication comes with proper dosing equipment
- Check the dose 3 times before you administer it!!!
 - Before you pour/prepare it
 - After you pour/prepare it
 - Before administering it





Dosing Equipment



Right Route

- Oral
- Inhaled
- Topical
- Eye Drops (optic)
- Ear Drops (otic)
- Nose Drops
- Gastrostomy Tube



Right Documentation

- Medication administration is recorded on DA Form 5225-R (“Medication Card”)
- Each medication requires a separate Medication Card.
- The Medication card is valid for one calendar month.
- Time of each dosage and initials of provider administering the dose will be entered on the date given
- The parent must sign the med card. The parent signature gives the caregiver permission to administer the medication



For use of this form, see AR 608-10; the proponent agency is DCSPER

(SEE REVERSE FOR PRIVACY ACT STATEMENT)

NAME OF CHILD	ACTIVITY ROOM	NAME OF SPONSOR	HOME PHONE	DUTY PHONE
MEDICATION <small>(One per card)</small>	AUTHORIZING PHYSICIAN		MEDICAL FACILITY	TELEPHONE
INCLUSIVE DATES	DOSAGE	TIME	INSTRUCTIONS: REFRIGERATION	<input type="checkbox"/> YES <input type="checkbox"/> NO
BEGIN _____	_____	_____		
FINISH _____	_____	_____		

*CDS PERSONNEL DISPENSING MEDICINE WILL INDICATE TIME OF ADMINISTRATION AND INITIAL SAME WITHIN EACH TIME BLOCK ON A GIVEN DATE.

*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 _____ _____				

AUTHORITY: Title 10, United States Code, Section 3013.

PRINCIPAL PURPOSE(S): To provide sponsor consent for administration of medication, confirm medication dispensation directions, maintain medication records, and identify individuals responsible for dispensing medication.

ROUTINE USES: No information is to be disclosed outside DOD.

DISCLOSURE: Disclosure of requested information is voluntary, however, if information is not provided, medication will not be administered.

CDS PERSONNEL AUTHORIZED TO ADMINISTER MEDICATION TO

(Child's Name)

I, _____ hereby authorize the
 CDS personnel noted above to administer medication in the quantity and manner as requested and release same from all legal claims
 issued due to injury or illness which may result from such administering. Additional CDS personnel may be designated at the
 discretion of the CDS Program Director.

(Date)

(Signature of Sponsor)

DATE

SIGNATURE OF PROGRAM DIRECTOR



**Wash your hands before
and after administering
medications.**

HELPFUL HINTS

Medication will be called “medicine/medication” and not referred to as candy

Never force a child to take medication

- Children have the right to refuse to take medication
- If a child refuses medication, document the occurrence on the medication card along with the time and the provider’s initials.
- Notify the parent

If a child spits up a medication:

- Call the parents and inform them
- Document the occurrence on the medication card, along with the time and the provider’s initials.



OH NO!!!!

I made an error! Now What?

- Recognize that an error has been made.
- Stay with the child.
- Assess the child's condition and/or reactions to the medication.
- Report the error immediately to the supervisor.
- Call 911 for life threatening reaction.
- Notify the parent and CYSS nurse of the error.
- Complete an incident report.

Common Causes of Errors

- Misreading a medication order.
- Errors in measuring doses.
- Poor labeling.
- Lack of knowledge concerning the medication given.
- Use of improper abbreviations.
- Not following the 6 rights.
- **Administering medication without any thought.**



**Our most common
medications in CYSS
are RESCUE
MEDICATIONS!**

Bronchodilators (Rescuer/Relievers)



- Used for immediate relief of an asthma attack which causes narrowing of the air passageways.
- Rescue Inhalers are medications that cause muscles in the airways to relax causing air passageways to open wider
- Quickly opens air passageways allowing easier breathing within 5 minutes or less
- Can help to reduce coughing and wheezing associated with an asthma attack.
- Some common side effects include: shakiness, feeling jittery, racing heart, nervousness, headache, dizziness, sore throat
- Some examples of Relievers include: Albuterol (Ventolin, ProAir), and Xopenex.
- Call 911 immediately if symptoms worsen
- Always notify parent when a child uses his/her inhaler.

Using an Albuterol (Ventolin) Inhaler

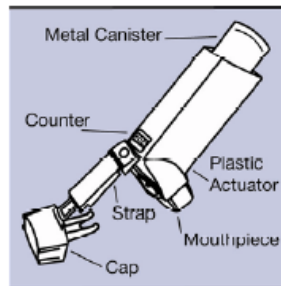


Figure A

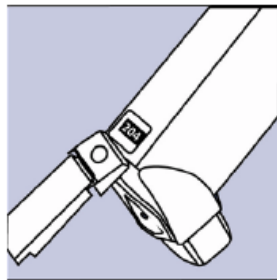


Figure B

Priming your VENTOLIN HFA inhaler:

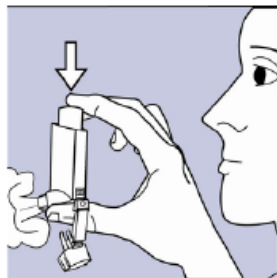


Figure C

There are 2 main parts of your VENTOLIN HFA inhaler:

- the blue plastic actuator that sprays the medicine into your mouth. See Figure A.
- the metal canister that holds the medicine. See Figure A.

The actuator has a protective cap that covers the mouthpiece. The strap on the cap will stay attached to the actuator.

Do not use this actuator with a canister of medicine from any other inhaler.

Do not use this canister of medicine with an actuator from any other inhaler.

The canister has a counter that shows you how many sprays of medicine you have left. The number shows through a window in the back of the actuator. The counter starts at either 204 or 64, depending on which size inhaler you have. See Figure B.

Your VENTOLIN HFA inhaler must be primed before you use it for the first time, when it has not been used for more than 14 days in a row, or if it has been dropped. Do not prime your VENTOLIN HFA every day.

- Remove your VENTOLIN HFA inhaler from its packaging.
- Throw away the pouch and the drying packet that comes inside the pouch.
- Remove the protective cap from the mouthpiece.
- Shake the inhaler well, and spray it into the air away from your face. See Figure C.

Using an Albuterol (Ventolin) Inhaler

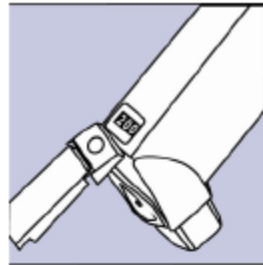


Figure D

- Shake and spray the inhaler like this 3 more times to finish priming it. After you prime the actuator for the first time, the dose counter in the window on the back of the actuator should show the number 200 or 60, depending on which size inhaler you have. See Figure D.

Each time you use your VENTOLIN HFA inhaler:

- Make sure the canister fits firmly in the plastic actuator.
- Look into the mouthpiece to make sure there are no foreign objects there, especially if the strap is no longer attached to the actuator or the cap has not been used to cover the mouthpiece.

Reading the dose counter on your VENTOLIN HFA actuator:

- The dose counter will count down by 1 number each time you spray the inhaler.
- The dose counter stops counting when it reaches **000**. It will continue to show **000**.
- The dose counter cannot be reset, and it is permanently attached to the metal canister. **Never** try to change the numbers for the dose counter or take the counter off the metal canister.
- **Do not** remove the canister from the plastic actuator except during cleaning to prevent accidentally spraying a dose of VENTOLIN HFA into the air.

Using your VENTOLIN HFA inhaler:

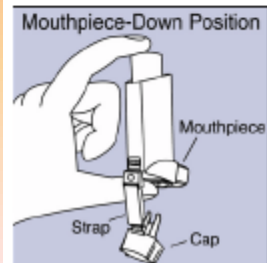


Figure E

- Step 1. **Shake the inhaler well** before each spray. Take the cap off the mouthpiece of the actuator.
- Step 2. Hold the inhaler with the mouthpiece down. See Figure E.

Using an Albuterol (Ventolin) Inhaler

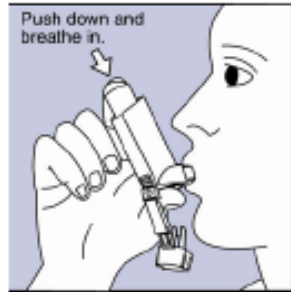


Figure F

Step 3. Breathe out through your mouth and push as much air from your lungs as you can. Put the mouthpiece in your mouth and close your lips around it. See Figure F.

Step 4. Push the top of the canister all the way down while you breathe in deeply and slowly through your mouth. See Figure F.

Step 5. Right after the spray comes out, take your finger off the canister. After you have breathed in all the way, take the inhaler out of your mouth and close your mouth.

Step 6. **Hold your breath as long as you can**, up to 10 seconds, then breathe normally.

If your healthcare provider has told you to use more sprays, wait 1 minute and shake the inhaler again. Repeat Steps 2 through Step 6.

Step 7. Put the cap back on the mouthpiece after every time you use the inhaler. Make sure the cap snaps firmly into place.

Cleaning your VENTOLIN HFA actuator:

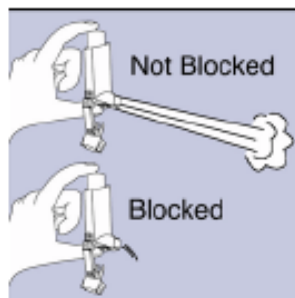


Figure G

It is very important to keep the plastic actuator clean so the medicine will not build-up and block the spray. See Figure G.

- **Do not try to clean the metal canister or let it get wet.** The inhaler may stop spraying if it is not cleaned correctly.
- **Wash the actuator** at least once a week as follows:

Using an Albuterol (Ventolin) Inhaler

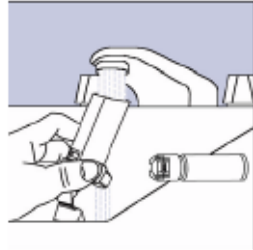


Figure H

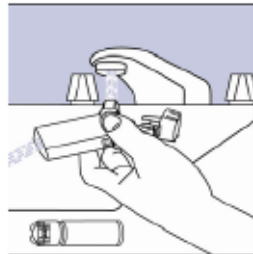


Figure I

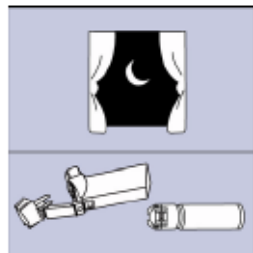


Figure J

Step 8. Take the canister out of the actuator, and take the cap off the mouthpiece. The strap on the cap will stay attached to the actuator.

Step 9. Hold the actuator under the faucet and run warm water through it for about 30 seconds. See Figure H.

Step 10. Turn the actuator upside down and run warm water through the mouthpiece for about 30 seconds. See Figure I.

Step 11. Shake off as much water from the actuator as you can. Look into the mouthpiece to make sure any medicine build-up has been completely washed away. If there is any build-up, repeat Steps 9 and 10.

Step 12. Let the actuator air-dry completely, such as overnight. See Figure J.

Step 13. When the actuator is dry, put the canister in the actuator and make sure it fits firmly. Shake the inhaler well and spray it once into the air away from your face. (The counter will count down by 1 number.) Put the cap back on the mouthpiece.

If you need to use your inhaler before the actuator is completely dry:

- Shake as much water off the actuator as you can.
- Put the canister in the actuator and make sure it fits firmly.
- Shake the inhaler well and spray it once into the air away from your face.
- Take your VENTOLIN HFA dose as prescribed.
- Follow cleaning Steps 8 through 13 above.

Replacing your VENTOLIN HFA inhaler:

- **When the dose counter on the actuator shows the number 020, you need**

Using an Albuterol (Ventolin) Inhaler

to refill your prescription or ask your doctor for another prescription for VENTOLIN HFA.

- **Throw the VENTOLIN HFA inhaler away** as soon as the dose counter shows **000**, after the expiration date on the VENTOLIN HFA packaging, or 12 months after you open the foil pouch, whichever comes first. You should not keep using the inhaler after the dose counter shows **000** even though the canister may not be completely empty. You cannot be sure you will receive the right amount of medicine.

VENTOLIN is a registered trademark of GlaxoSmithKline.

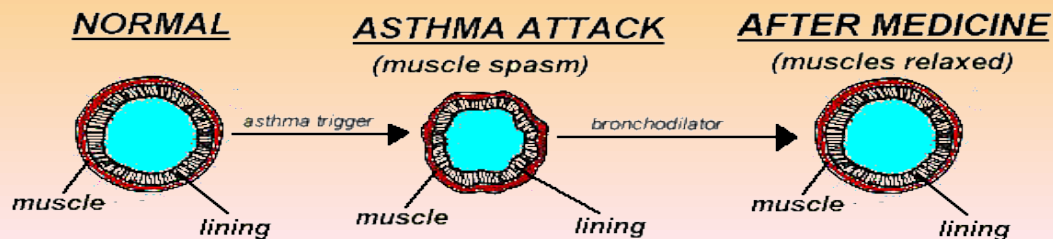
This Patient Information and Instructions for Use has been approved by the U.S. Food and Drug Administration.



GlaxoSmithKline
Research Triangle Park, NC 27709

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October 2012
VNT:8PIL



Spacers for Inhalers



Chamber without mask



Chamber with small mask for infant or small child



Chamber with medium size mask for child



Antihistamines...Such as Benadryl

- When someone with allergies comes into contact with something that causes a negative reaction (such as peanuts), the body's reaction is to put up a defense.
- Histamine is released into the bloodstream. Histamine causes common symptoms of allergies such as swelling, itching, and rash
- An Antihistamine medication such as Benadryl blocks histamine from causing certain physical reactions such as itching, swelling, etc.
- Antihistamines are used for non life threatening reactions.
- Always follow the Allergy Care Plan
- Immediately notify parent to pick up the child if a antihistamine is administered. The child needs to be monitored closely by the parent.



Figure 1: The "Big Eight" Allergens: Tree Nuts, Peanuts, Soy, Egg, Milk, Fish, Wheat and Shellfish.

Anaphylaxis

think **F.A.S.T...**

Face

Itchiness, redness, swelling of face and tongue

Airway

Trouble breathing, swallowing, or speaking

Stomach

Stomach pain, vomiting, diarrhea

Total Body

Rash, itchiness, swelling, weakness, paleness, sense of doom, loss of consciousness

- Anaphylaxis is a severe, life threatening reaction to an allergen such as food, medications, bee stings, etc
- Anaphylaxis may affect several areas of the body and may threaten breathing and circulation of blood
- The foods most likely to cause a severe reaction are peanuts, tree nuts, fish, and shellfish
- Epinephrine (adrenaline) is a medication that can reverse the severe symptoms of anaphylaxis.

Epinephrine

- Epinephrine is also known as adrenaline. It's a hormone and a neurotransmitter that has many functions in the body
- Epinephrine is used to treat anaphylaxis, by causing vasoconstriction which is a narrowing of the blood vessels.
- Epinephrine is available in an autoinjector delivery system such as EpiPen and Twinject.
- Side effects of Epinephrine may include:
fast heart rate, headache, anxiety, irregular heartbeat



Epinephrine

- Always follow the Allergy Care Plan
- Immediately call 911 if Epinephrine is administered...NO EXCEPTIONS!!!!!!
- The effects of Epinephrine are short lived. You may need to administer a 2nd dose if EMS has not arrived within 10 minutes.
- Always save the EpiPen Autoinjector for EMS, to show what dosage was given.
- There are 2 dosages of EpiPen:
 - 0.15mg (EpiPen Jr in the green packaging)
 - 0.3 mg (EpiPen in the yellow packaging)



Tylenol (Acetaminophen) Ibuprofen (Motrin, Advil)



- May be administered to prevent a febrile seizure
- Must be accompanied by a Seizure Care Plan
- Seizure Care Plan **MUST** indicate at what temperature the Tylenol or Motrin should be given. For example, for a temperature greater than 100.5
- If Tylenol or Motrin is administered to prevent a febrile seizure, parent **MUST** be immediately called, and the child sent home
- **DO NOT** administer if the child is having a seizure. Immediately call 911

NOW YOU'RE READY FOR THE QUIZ

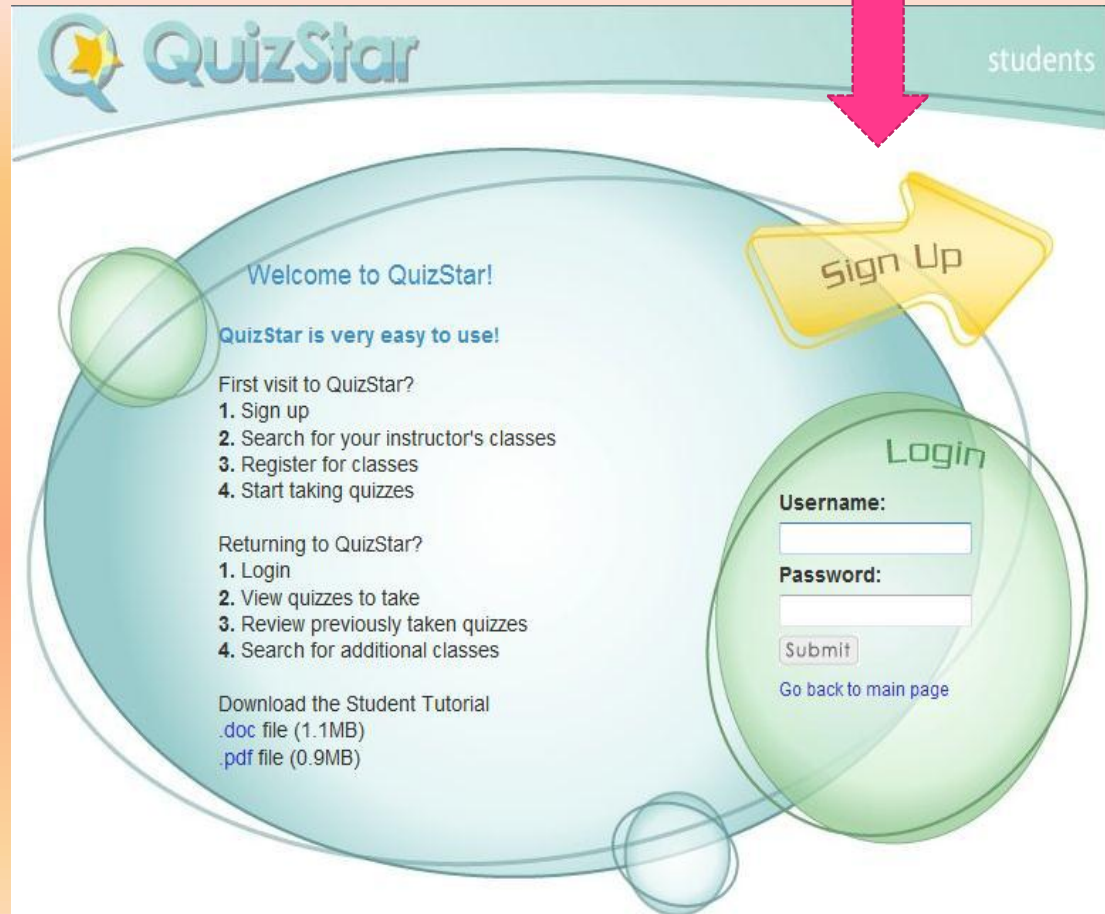
- Go to

<http://quizstar.4teachers.org/indexs.jsp>

- Follow the next slides to Register, Enroll and Take the Quiz

ON THE WEBSITE

- Click
“Sign Up”



QuizStar

students

Welcome to QuizStar!

QuizStar is very easy to use!

First visit to QuizStar?

1. Sign up
2. Search for your instructor's classes
3. Register for classes
4. Start taking quizzes

Returning to QuizStar?

1. Login
2. View quizzes to take
3. Review previously taken quizzes
4. Search for additional classes

Download the Student Tutorial

- [.doc file \(1.1MB\)](#)
- [.pdf file \(0.9MB\)](#)

Sign Up

Login

Username:

Password:

Submit

[Go back to main page](#)

REGISTER

- Registering
- Enter
 - First Name
 - Last Name
 - Username
 - Password
 - Then click “Register”

QuizStar students

Student Registration

Enter your personal information in the form below. If you forget your password, you can contact your instructor to have your password reassigned.

Enter your information

First Name	Joey	If you are under age 13, type your first name and last initial. Please do not enter any personally identifiable information.
Last Name	Doe	
Username	jodo83	Create an unique username to login to QuizStar. (minimum of 3 characters with no spaces)
Create Password	••••••	Use a password that only you will know and remember. (minimum of 5 characters)
Re-type Password:	••••••	

NOTE - Your instructors are able to change your profile information at any time.

Register Cancel

4teachers.org TrackStar | RubiStar | NoteStar | Profiler Pro | More Tools Privacy Policy | Terms of Use | Contact Us | ALTEC

QuizStar copyright © 2000-2008 ALTEC - Advanced Learning Technologies
Center for Research on Learning at The University of Kansas

SEARCH

- Click “Search”

Welcome, Joey Doe [profile](#) - [logout](#)

[CLASSES](#) [SEARCH](#)

Classes

The classes for which you have registered are listed below. Each class has its own quizzes. Click on the link to the class page to see which quizzes you need to take or review. Click on the Search button above to look for additional classes if you need to enroll in them. You cannot remove these classes once you enroll. Your instructor will need to remove you from the class if you are no longer enrolled.

How to enroll into a class

Search for classes using a class or quiz title, the instructor, or a keyword. You can look for up to four classes and/or two quizzes in a single search. This saves you time when registering for classes.

```
graph LR; A["Search  
Type in a class  
or quiz name"] --> B["Results  
Select the  
appropriate class."]; B --> C["Finished  
Return to your  
Classes page."];
```

[Click here to search a new class](#)

FINDING THE QUIZ

- Look under “Quiz Search”
- Enter “CYSS Communicable Disease Test”
- Then Click Exact Match

Welcome, Joey Doe [profile](#) - [logout](#)

CLASSES **SEARCH**

Class & Quiz Search

The classes for which you have registered are listed below. Each class has its own quizzes. Click on the link to the class page to see which quizzes you need to take or may review. Click on the Search button above to look for additional classes to register for. You cannot remove these classes once you enroll. Your instructor will need to remove you from the class if you are to no longer take its quizzes.

Search
Type in a class or a quiz to look for

→

Results
Select the class you want to register for

→

Finished
Find out what you have been registered for, then go to Classes

Class Search

Class #1:	Class Title	▼	→		→
Class #2:	Class Title	▼	→		→
Class #3:	Class Title	▼	→		→
Class #4:	Class Title	▼	→		→

Search for up to four classes at the same time, then click Search.

Exact Match Keyword Search

Quiz Search

Quiz #1:	Quiz Title	▼	--		
Quiz #2:	Quiz Title	▼	--->		--->

Search for up to two quizzes at the same time, then click search.

Exact Match Keyword Search

CYSS Medication Administration Test

↓

REGISTERING FOR THE QUIZ

- Check Box beside “CYSS Medication Administration Test”
- Click “Register”

Welcome, [profile](#) - [logout](#) CLASSES SEARCH

[Search for Classes/Quizzes](#) > Results

Search Results
Select the classes you wish to register for then click the Register button. The next screen will confirm your registration status for those classes. If you are not satisfied with these results, click the New Search button to perform a new search.

Search
Type in a class or a quiz to look for

Results
Select the class you want to register for

Finished
Find out what you have been registered for, then go to Classes

[← New Search](#) [Register](#) [Cancel](#)

Select the class, then click Register

Quiz #1 Results

Searched: **CYSS Medication Administration Test**

<input type="checkbox"/>	Quiz Title	Class Title	Instructor Name Email	Time Class Type
<input type="checkbox"/>	CYSS Medication Administration Test	CYSS Fort Riley: Preventative Medicine	QS_RESEARVED_NULL_VALUE QS_RESEARVED_NULL_VALUE	Public course

1 result(s)

[Register \(to top\)](#)

[← New Search](#) [Register](#) [Cancel](#)

Select the class, then

NOW YOU'RE REGISTERED

- Click
Classes

The screenshot shows the QuizStar 'students' interface. At the top left is the QuizStar logo, and at the top right is the word 'students'. Below the logo is a navigation bar with 'Welcome, | : profile - logout' and two buttons: 'CLASSES' and 'SEARCH'. A pink arrow points from the 'Click Classes' instruction to the 'CLASSES' button. Below the navigation bar is a yellow-bordered box containing the following content:

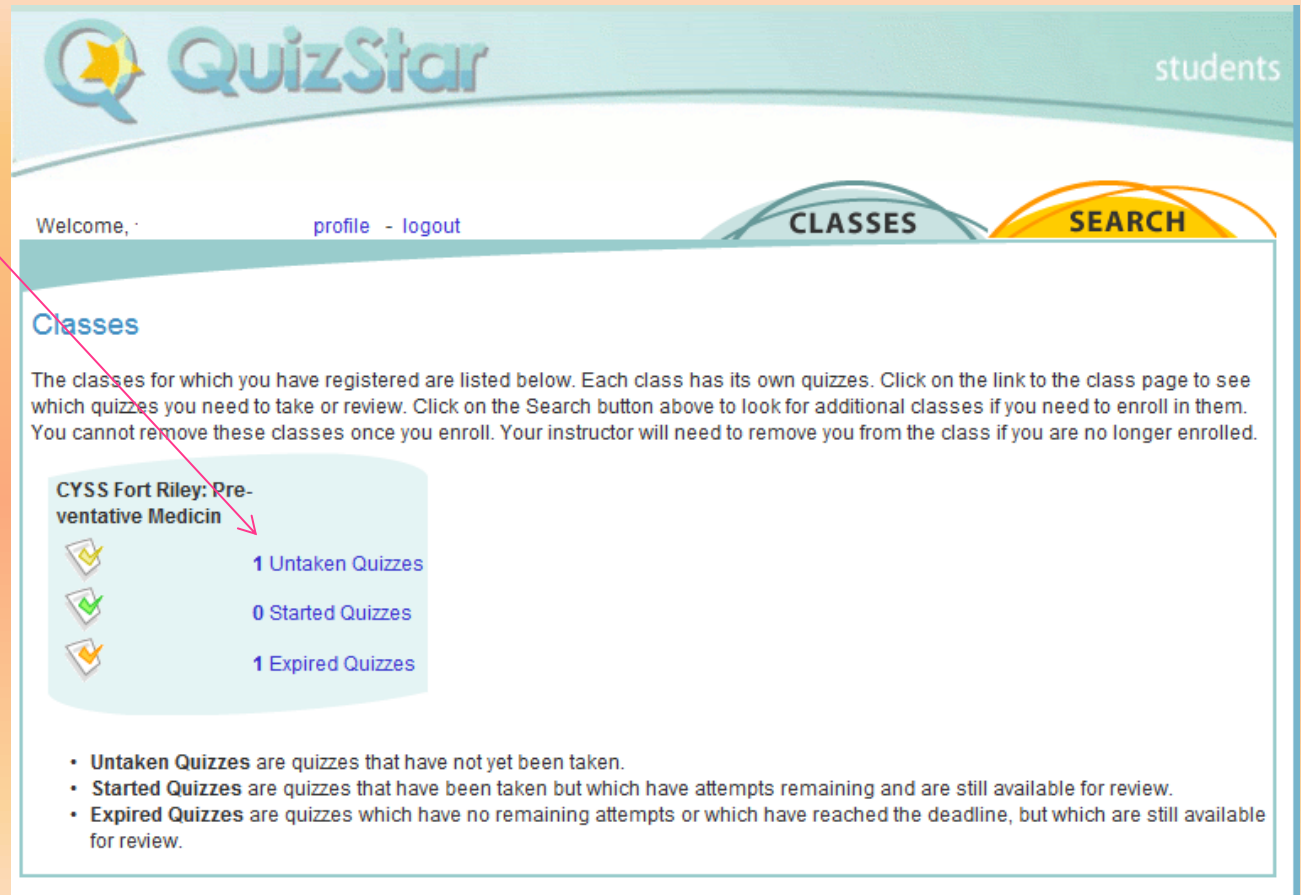
Finished
You have successfully registered for the classes you selected. Some classes require additional validation from the instructor before you can take their quizzes. Proceed to [My Classes](#) to view all of your classes together.

A flow diagram below the text shows three steps: 'Search' (Type in a class or a quiz to look for), 'Results' (Select the class you want to register for), and 'Finished' (Find out what you have been registered for, then go to Classes). The 'Finished' box is highlighted in yellow.

Finished: You have not selected any class for registration. If you want to register for any class, please select the particular class(es) and register. Some classes require additional validation from the instructor before you can take their quizzes. Proceed to [My Classes](#) to view all of your classes together.

ALMOST THERE

- Click “Untaken Quizzes”



The screenshot shows the QuizStar student interface. At the top, there is a teal header with the QuizStar logo on the left and the word "students" on the right. Below the header, there is a navigation bar with "Welcome, profile - logout" on the left, and "CLASSES" and "SEARCH" buttons on the right. The main content area is titled "Classes" and contains a paragraph of text. Below this, there is a class entry for "CYSS Fort Riley: Preventative Medicin" with a light blue background. This entry shows three quiz icons: one with a yellow checkmark (Untaken), one with a green checkmark (Started), and one with a red checkmark (Expired). To the right of these icons, the text reads "1 Untaken Quizzes", "0 Started Quizzes", and "1 Expired Quizzes". At the bottom of the page, there is a legend defining these terms.

students

Welcome, profile - logout

CLASSES SEARCH

Classes

The classes for which you have registered are listed below. Each class has its own quizzes. Click on the link to the class page to see which quizzes you need to take or review. Click on the Search button above to look for additional classes if you need to enroll in them. You cannot remove these classes once you enroll. Your instructor will need to remove you from the class if you are no longer enrolled.

CYSS Fort Riley: Preventative Medicin

- 1 Untaken Quizzes
- 0 Started Quizzes
- 1 Expired Quizzes

- **Untaken Quizzes** are quizzes that have not yet been taken.
- **Started Quizzes** are quizzes that have been taken but which have attempts remaining and are still available for review.
- **Expired Quizzes** are quizzes which have no remaining attempts or which have reached the deadline, but which are still available for review.

CLICK TAKE

- Click Take on “CYSS Administration Test”

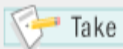
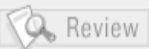
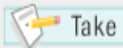
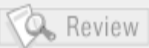
Welcome, . . . profile - logout

CLASSES **SEARCH**

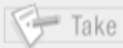
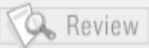
CYSS Fort Riley: Preventative Medicine's Quizzes

Make a selection from the list of [Untaken](#), [Started](#) or [Expired](#) Quizzes to [Take](#) or [Review](#) a quiz. If you want further instructions about using this page, go to the [Directions](#) at the bottom of this page.

Untaken Quizzes [Help](#)

Quiz Title (with attempts left)	Start Date	Due Date	Points	Scores	Take Quiz	Review Quiz
CYSS Medication Administration Test (1)	Always Active	Always Active	100		 Take	 Review
CYSS Communicable Disease Test (1)	Always Active	Always Active	100	-	 Take	 Review

Started Quizzes [Help](#)

Quiz Title (with attempts left)	Start Date	Due Date	Points	Scores	Take Quiz	Review Quiz
There are no Started Quizzes to take.					 Take	 Review

START THE QUIZ

- **You may now start the Quiz**
- **If you receive a score of 80% or higher, print your results page (see next slide) and bring it with you to your Preventative Medicine class you are enrolled in with CYSS.**
- **If you receive less than an 80% please contact the CYSS Administrator and/or the CYSS Nurse for further guidance.**

RESULTS PAGE EXAMPLE

The screenshot shows a web browser window with the following elements:

- Browser Tab:** "QuizStar Quiz Environment"
- Browser Address Bar:** "QuizStar Quiz Environment" (partially visible)
- Browser Menu Bar:** Home, RSS, Print, Page, Safety, Tools
- Page Header:** "CYSS Fort Riley: Preventative Medicine" (left) and "QuizStar" (right)
- Section Header:** "CYSS Medication Administration Test" (centered in a grey box)
- Score:** "Your Score : 100 out of 100 (100%)" (centered)
- Test Name:** "CYSS Medication Administration Test" (centered)
- Submission Time:** "has been submitted at Apr 16, 2014 2:49:11 PM" (centered)
- Navigation Buttons:** Three buttons at the bottom: "Return to this Class' page" (blue text), "Review this quiz" (blue text), and "Logout of QuizStar" (purple text)