

Medication Administration Cross Check: A MLREMS Regional Patient Safety Initiative

Training Curriculum

Intended Learner: The training provided by this curriculum is intended for *any EMS provider involved in patient care at any level.*

Learning Objectives:

- Discuss the system factors contributing to medication errors in the out-of-hospital environment.
- Review best practices to reduce medication errors, including dosing aids and good procedural habits, including the performance of medication administration crosscheck.
- Define and describe the medication administration cross check process.
- Demonstrate the use of a medication administration cross check process in a variety of clinical scenarios.

Part 1: Didactic and Procedure Videos

These videos can be reviewed asynchronously or be viewed together as the introduction to group training exercises.

Introductory video	Duration: 8 min 30 sec
This video reviews the system factors that lead to medication errors, methods to reduce medication errors, and introduces the concept and procedure of a medication cross check to reduce these errors.	
Procedure videos: <i>It is highly recommended that providers of all levels watch all four videos to gain familiarity with the process in a variety of clinical situations.</i>	
BLS providers performing crosscheck	Duration: 45 sec
ALS crosscheck with BLS provider	Duration: 2 min 40 sec
Single provider	Duration: 1 min 10 sec
Crosscheck for IV drips	Duration: 3 min 15 sec

Part 2: In person practice of the Medication Cross Check process

Duration: Variable, depends on number of providers

The medication administration cross check process should be practiced by providers of all levels in person and with each other. As a resource, we recommend printing or having access to a copy of the [MLREMS medication crosscheck algorithm](#). Example practice scenarios and evaluation rubrics are provided below. Simulated medications are an essential part of the practice process as providers should practice drawing up and verifying medications. Agencies are welcome to develop their own scenarios.

Practice scenarios:

ALS Scenario: You are dispatched to a 5 year old with seizure. Per mother, patient has a history of epilepsy and has been seizing for 10 minutes. She attempted rectal diazepam already without effect. VS HR 160 SpO2 92% on oxygen applied by your partner. Pt is actively seizing.

Tasks

- (1) Decide on your management plan.
- (2) Perform a medication cross-check.
 - a. With a partner (BLS)
 - b. Against a checklist

BLS scenario: You are dispatched to the elementary school for a child with rash. You arrive to find an 5 yo child with rash, facial swelling and wheezing on lung exam.

- (1) Decide on treatment plan.
- (2) Perform a medication cross-check
 - a. With a partner.
 - b. Against a checklist

Evaluation Rubrics:

Primary (Administering) Provider	Performed?
States “Med Check” to signal initiation of the Medication Cross Check process	
States Drug Name and Reason for Administration	
States Dose, Route and Rate of Administration	
Confirms drug concentration and makes vial visible for visual inspection by secondary provider prior to drug administration	
Communicates clearly and effectively	

Secondary Provider	Performed?
States “Ready” to confirm that they are ready to start the Medication Cross Check process	
Asks about allergies or adverse reactions.	
Asks about drug quantity to be administered	
Visually inspects vial when offered by primary provider before giving final “go ahead”	
Communicates clearly and effectively	