



Medication Administration Cross Check (MACC)

Course Curriculum

Office of the Medical Director
Wichita – Sedgwick County, Kansas
Emergency Medical Services System

2012

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Course Development

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Vision of Program

It is the vision of this program that we remove the potential for error in the administration of medication to patients.

Goals and Objectives:

Goal

The goal of this program is to integrate the Medication Administration Cross Check (MACC) into the field practice of EMS providers for all medication administration events.

Terminal Objective 1:

Given course information about the MACC, the provider will explain the importance of the MACC being used in medication administration, as it pertains to patient safety. *[Analyzing Level] (C)*

Terminal Objective 2:

Given course information about the MACC, the provider will integrate the MACC into medication administration scenarios without the use of a job aid and without error. *[Evaluating Level] (C/P)*

Enabling Objective 2-1:

Given course scenarios, the provider will integrate the MACC into medication administration scenarios where no error exists, without mistake in process. *[Evaluating Level] (C/P)*

Enabling Objective 2-2:

Given course scenarios, the provider will integrate the MACC into medication administration scenarios where an error does exist, without mistake in process. *[Evaluating Level] (C/P)*

Terminal Objective 4:

Given information and practice with the MACC, the provider will be able to explain the importance of adopting the MACC into field practice on all medication administrations, in a manner that meets the expectations of the provider's agency. *[Analyzing Level] (C)*

Terminal Objective 5:

Given information about the MACC, the provider will value the role of the MACC in reducing medication errors, as demonstrated by transfer to field practice. *[Valuing Level] (A)*

Time	Content	Methods/Media/Activities
00:00	<p>Motivation</p> <p>EMS is experiencing a significant shift in culture and attitude regarding patient safety. While this is a very broad topic, this lesson will focus on patient safety in regards to the administration of medications.</p> <p>How many of you have made a medication administration error?</p> <p><i>Allow for discussion of this question. Answers will range from YES to NO to shrugs or silence.</i></p> <p>The truth is that medication errors fall in to two distinct categories. Those we recognize and those we have no idea we made. The developers of this process found in their research that many errors went unrecognized by providers, even to the point of documenting the "correct" dose. The people who made these errors were often in disbelief</p> <p>It is this second set that is the driving force behind the procedure we are going to learn to use today. In order to improve patient safety, we need to adopt a set practice that we use every time to ensure that we catch medication errors before we administer the medication to patients.</p>	
00:00	<p>Presentation</p> <p>Questions about process</p> <ul style="list-style-type: none"> - The goal is to align field practice with all providers using the MACC in all medication administration events. - This is a Medical Director expectation 	<i>Discussion</i>
00:05	<p>Show MACC videos</p> <ul style="list-style-type: none"> - The videos show the target. Get as close to this example as possible when you use the MACC. - It is recognized that providers will need the ability to vary the MACC from time to time due to extenuating circumstances. This variance is in line with Crew Resource Management practice. (i.e., med administration during transport without second person in back and compromising safety of driver. - There will be limited situations that it will need to be modified but still use it. 	

Time	Content	Methods/Media/Activities
00:10	<p>Documentation –</p> <p>In the documentation of patient care it is important to note that the MACC was used.</p> <ul style="list-style-type: none"> - Was MACC done? - Did it catch an error? - What was the error? <p>Coach each person through the MACC Practice Practice Practice</p> <p>Application</p> <p>Let's practice using the MACC.</p> <p><i>Using different medications carried by your service, work through different medication administration scenarios. Each scenario should include:</i></p> <ul style="list-style-type: none"> ▪ Person A selects appropriate medication package and administration equipment ▪ Person A draws up appropriate dose ▪ Person A works MACC with Person B ▪ Person A actually “administers” dose of medication to simulator ▪ Discuss results of process <p>Evaluation</p> <ol style="list-style-type: none"> 1. Each person should actively work the MACC process from both ends multiple times to seat the process firmly in their memory. 2. Each person should be able to demonstrate use of the MACC without reference or error. 	<p>Practice with job aid/meds. Fentanyl Epi 1:1000 Epi 1:10,000 Benadryl</p> <p><i>Suggested Meds:</i></p> <p><i>Narcotics</i> <i>Epi 1:1,0000</i> <i>Epi 1:10,0000</i> <i>Benadryl</i> <i>Mag Sulfate</i> <i>Any Pediatric Dose of Med</i></p>