



Lesson Plan: EPIC – IV Pumps

Topic:	EPIC – IV Pumps
Presenter:	West Michigan Regional Medical Consortium CE Sponsor Program
Location:	West Michigan Regional Medical Consortium CE Sponsor Locations
Credit Category:	Medical – 0.5-hours Special Considerations: Peds Med Admin – 1-hours
License Level:	MEDIC
Credits:	1.5
Format:	1.5-hour guided practical and competency evaluation (following online cognitive learning)

Objectives: At the conclusion of this CE session, the participants will be able to:

Cognitive

1. Understand the functionality of IV pumps
2. Learn how to properly set up the Alaris and Sigma Spectrum pumps
3. Learn which tubing to use for specific medications or blood products
4. Learn how to program each type of pump to properly deliver the medication/fluid/blood
5. Learn how to troubleshoot alarms
6. Understand the importance of looking at, understanding and recording pump delivery rates/medication dosages prior to transport
7. Understand the importance of reviewing medications to understand risks and side effects (Just in Time training or reference materials)

Psychomotor

1. Watch videos on the Alaris and Spectrum pumps
 - a. Alaris: <https://vimeo.com/158974743> (long) or <https://www.youtube.com/watch?v=dCyakRWH9a0> (short)
 - b. Sigma Spectrum: <https://www.youtube.com/watch?v=Jt2E4UAZGjE>
2. Practice the mechanical set up of both the alaris and spectra pumps
3. Practice setting up predefined drip rates with both pump types
4. Practice troubleshooting and mitigating alarms

Affective

1. The provider will read and understand the significance of being an active learner when it comes to medications and procedures not common to EMS but used for transfers



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Outline for Session

1. Introductions
2. Review of product videos
3. Practice with use of Alaris and Spectra pumps by hanging a primary fluid at a defined drip rate (blood or crystalloid/colloid, TPN that is rate, not dose dependent)
4. Practice setting up a medication drip at a defined administration rate
1. Practice troubleshooting and mitigating alarms

Student Evaluation Method: Students will be evaluated through multiple methods, including formative evaluations within each learning module in the form of section quizzes which require 100 percent before moving to the next section; summative evaluation through an end-course online examination which requires a score of 90 percent or better; once the student has successfully completed the online learning modules and scored at or above 90 percent, they will attend a guided practical and competency evaluation, which will serve as a cumulative summative evaluation.

Evaluation of Presentation: Continuing Education Program Sponsor Evaluation Form will be filled out by all participants.