



**Tuesday, April 12th, 2022**

- 0800 Welcome & ECMO Training Overview**  
Dan Dietzel, BSN, RN
  
- 0840 Introduction to ECMO**  
Lovkesh Arora, MBBS
  
- 0920 ECMO Components and Circuitry**  
Kristina Rudolph, BSN, RN
  
- 1000 Break**
  
- 1020 Physiology of ECMO**  
Archit Sharma, MBBS
  
- 1110 VV ECMO and Respiratory Failure**  
Greg Schmidt, MD
  
- 1200 LUNCH**
  
- 1300 Introduction to Simulations**  
Dan Dietzel, BSN, RN
  
- 1320 Chaos Simulation/Debriefing**  
Dan Dietzel, BSN, RN; Kristina Rudolph, BSN, RN
  
- 1400 Hands-On Circuit Review (Rotaflow/Cardiohelp)**  
Dan Dietzel, BSN, RN; Kristina Rudolph, BSN, RN
  
- 1500 Break**
  
- 1515 Hands-On Circuit Review (Rotaflow/Cardiohelp)**  
Dan Dietzel, BSN, RN; Kristina Rudolph, BSN, RN
  
- 1600 Adjourn**



University of Iowa Health Care

**Wednesday, April 13, 2021**

- 0800 Cannulation**  
Mohammad Bashir, MD
  
- 0840 Ethics**  
Rachel Hadler, MD
  
- 0920 Case Reviews**  
Dan Dietzel, BSN, RN
  
- 1000 Break**
  
- 1020 VA ECMO and Cardiac Failure**  
Lovkesh Arora, MBBS
  
- 1110 Patient Management**  
Jonathan Simmons, DO
  
- 1200 LUNCH**
  
- 1300 Hands-On: Pump Review**  
Dan Dietzel, BSN, RN; Kristina Rudolph, BSN, RN
  
- 1330 Simulations (1-3)**  
Dan Dietzel, BSN, RN; Kristina Rudolph, BSN, RN
  
- 1515 Break**
  
- 1530 Jeopardy**  
Dan Dietzel, BSN, RN
  
- 1600 Adjourn**



**Thursday, April 14, 2021**

- 0800 ECMO Emergencies**  
Mark Pedersen, MD
  
- 0840 Anticoagulation**  
Mark Pedersen, MD
  
- 0920 Mobility and ECMO**  
Tony Naber, PT, DPT
  
- 0950 Mobility Simulation**  
Tony Naber, PT, DPT
  
- 1020 Break**
  
- 1040 Case Reviews**  
Kristina Rappaport, MSN, RN
  
- 1200 LUNCH**
  
- 1300 Hands-On: Pump Review**  
Dan Dietzel, BSN, RN; Kristina Rudolph, BSN, RN
  
- 1330 Simulations (4-7)**  
Dan Dietzel, BSN, RN; Kristina Rudolph, BSN, RN
  
- 1515 Break**
  
- 1530 Jeopardy**  
Dan Dietzel, BSN, RN
  
- 1600 Adjourn**



**Friday, April 15, 2021**

**0800 Hands-On: Pump Review**

Dan Dietzel, BSN, RN; Kristina Rudolph, BSN, RN

**0830 Simulations (7-10)**

Dan Dietzel, BSN, RN; Kristina Rudolph, BSN, RN

**1200 LUNCH**

**1300 Exam**



## OBJECTIVES:

1. Identify key concepts of ECMO methodology and physiology
2. Recognize medical and mechanical emergency and identify strategies to prevent and/or manage
3. Demonstrate an understanding of patient populations appropriate for ECMO support
4. Identify and apply underlying principles necessary for proper patient management
5. Demonstrate effectively how to use varying mechanical circulatory equipment used in ECMO
6. Interpret patient laboratory data and formulate appropriate interventions
7. Describe weaning and trialing criteria for both VA & VV ECMO
8. Determine adequacy of ECMO support for both VA & VV ECMO
9. Identify caregiver roles
10. Integrate closed-loop communication
11. Practice bedside technical and assessment skills
12. Differentiate between multiple cannulation strategies and identify the risks associated with cannulation procedures
13. Describe the process for selecting cannulas
14. List the benefits of awake ECMO
15. List the benefits of mobility on ECMO
16. Outline the need for anticoagulation in ECMO
17. List the methods for LV unloading
18. Explain the role of vasoactive/inotropic medications in VA ECMO

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