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ECMO Care Beyond Decannulation A Nurse Driven Wound Care Protocol

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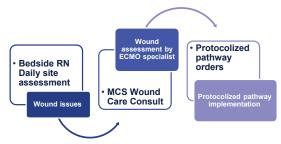


Background

ECMO (Extracorporeal membrane oxygenation) utilization has dramatically increased in recent years. As patients' survival improves, large number of patients survive beyond decannulation yet the many sequelae of ECMO therapy remain underassessed and undertreated. To date, there are no recommendations for management of cannulation sites wounds post decannulation. These sites are at risk for infection, lymphorrhagia, delayed healing, and necrosis and are often not assessed by clinicians who specialize in ECMO care. Our goal was to promote earlier intervention to prevent severe complications. A multidisciplinary group developed a protocol for tracking ECMO site post decannulation and created advanced wound care recommendations.

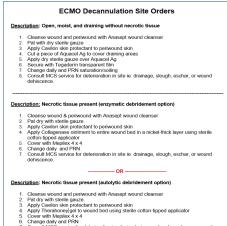
Methods

A wound care protocol was developed by wound care nurses, ECMO specialists and unit based skin champions and the pilot program was deployed in the cardiovascular intensive care unit over 2 months.



Primary assessment points

- > Rates of implementation
- ➤ Infection
- Lymphorrhagia
- ➤ Sepsis
- > surgical complications



Results

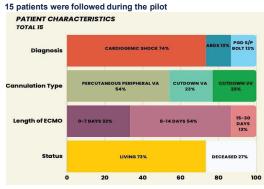


Figure 1. Patient and ECMO Characteristics
ARDS: Acute respiratory distress syndrome, PGD: Primary graft dysfunction, BOLT: Bilateral orthotopic lung transplant, Va: Veno-Arterial, VV: Veno-Venous)



80% of the patients were flagged for protocol initiation (90% percutaneous peripheral VA)

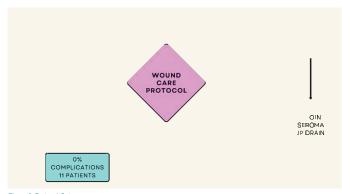


Figure 2. Protocol Outcomes

Infection: 0%
Bacteremia: 0%
Lymphorrhagia: 0%
Surgical Intervention needed: 0%

Conclusions

A nurse-led protocol centered on consistent monitoring, early detection, and timely intervention has proven to be both safe and effective, mitigating the need for additional wound care consultations, preventing lapses in treatment, and ensuring additional adherence to wound care plans. Long term implementation on a larger scale and retrospective analysis of data pre and post intervention is under way to confirm these early findings.

