

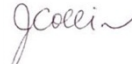




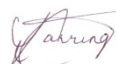
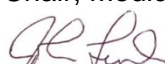


HEALTH SCIENCES NORTH MEDICAL DIRECTIVE

ISSUE DATE: February 16, 2010
REVISION DATE: March 2018
TITLE: **ELECTRICAL DEFIBRILLATION USING HSN-APPROVED
 MANUAL DEFIBRILLATOR
 MD HSN 13**

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Document Owner: Manager, Intensive Care Unit	Name: Anna Love
Update Schedule: Annually, or sooner if required.	
Stakeholder Consultation and Review: ICU Patient Care Team Cardiac Patient Care Team Critical & Emergency Care Program Council Medicine Program Council Surgical Program Council	Date: March 1, 2018 April 10, 2018 April 27, 2018 April 27, 2018 June 13, 2018
Administrative Director, Critical & Emergency Care Program 	April 27, 2018
Medical Director, Critical Care Services 	April 27, 2018
Administrative Director, Medicine Program 	April 27, 2018
Medical Director, Medicine Program 	April 27, 2018
Medical Director, Cardiology 	April 27, 2018
Administrative Director, Surgical Program 	June 13, 2018
Medical Director, Surgical Program 	June 13, 2018
Chair, Nursing Professional Practice Council Chief Nursing Executive 	September 27, 2018
Approval: Dr. John Fenton Chair, Medical Advisory Committee 	Date: September 18, 2018

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What

Controlled Act #7: Applying or ordering the application of a form of energy prescribed by the regulations under the Regulated Health Professions Act, specifically electrical defibrillation [27(2.1.4)] using an HSN-approved manual defibrillator, is transferred from physicians to nurses employed in the following areas:

- **Critical & Emergency Care Program**
- **Medicine Program** - Cardiac Medical Unit (CMU), Cardiodiagnostics, Heart Failure Disease Management Program (HFDMP)
- **Surgical Program** - Post Anesthetic Care Unit (PACU)

Who

Delegators
 Dr. Bhanu Nalla, Anesthesiologist, ACLS Medical Director (Critical Care Program)
 Dr. Jason Prpic, ACLS Medical Director (Emergency Department)

Delegates
 Certified Registered Nurses (RNs) in the following areas with the required qualifications outlined in the **Added Skills** section below.

- **Critical & Emergency Care Program**
- **Medicine Program** - CMU, Cardiodiagnostics, HFDMP
- **Surgical Program** - PACU

Where

All adults 18 years of age and over (inpatients, outpatients, visitors, staff, etc.) within the boundaries of HSN and during inter-hospital transfers/travels of critically ill patients.

When

- The adult person (18 years of age and over) has been assessed to be in cardiopulmonary arrest and found to be:
 - unconscious or unresponsive
 - pulseless (major pulses absent - carotid or femoral)
 - not breathing or agonal gasps
- ECG monitor tracing demonstrates (by ECG leads or multi-function pads):
 - ventricular fibrillation (VF)
 - pulseless ventricular tachycardia (VT)
- The patient/person does not have a known level of treatment for NO RESUSCITATION

Contraindications and Risks

Contraindications
 Patient is assessed and found to:

- have signs of life (responsive, conscious)
- have presence of a pulse
- be breathing
- be less than 18 years of age
- have known level of treatment for NO RESUSCITATION

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- have a non-shockable ECG rhythm (i.e. asystole)

Risk Factors

- Avoid placing pads over existing pacemaker or internal cardiac defibrillator sites
- Potential burns to patient
- Potential operator injury as a result of arcing due to defibrillation while standing on a wet surface
- Potential bystander injury as a result of conduction of charge through liquid or metal (i.e. standing on wet surface close to patient or touching bed)

Precautions when Defibrillating

- Operator's hands must be dry.
- Avoid contact with wet bed linen. If time allows (not first priority) when patient is incontinent of urine, try to cover the wet area with a dry sheet or towel to prevent burns to the patient or arcing.
- Operator must ensure clearance from any wet surface.
- Operator must announce "All Clear" and perform a visual check of the immediate area or bed area making sure no one is touching the bed before discharging the defibrillator.
- Avoid placing the pacing pads directly over lesions, injury or large bone structures (sternum, spine, and scapula), nipples, piercings or transdermal medication patches.

Added Skills

Certification

The RN seeking certification must:

- Attend the ECG 1 & 2 class during Critical Care Program orientation and successfully complete the online test with a passing grade greater than or equal to 80%
- Correctly demonstrate safe electrical defibrillation during a Mock Code Blue testing session offered by the certifying Nurse Clinician via simulator
- Successfully analyze ECG rhythm strips given by the certifying Nurse Clinician or delegated certifying officer during testing
- Successfully complete the Electrical Defibrillation online test with a passing grade greater than or equal to 80%

Recertification (Every 2 Years)

The RN seeking re-certification must:

- Successfully pass the ACLS Provider course and provide the certifying Nurse Clinician with a copy of the ACLS Provider certificate from Heart and Stroke Canada **OR** participate in simulated clinical scenarios and demonstrate knowledge of ECG rhythm strips and delivery of safe electrical defibrillation during Mock Code Blue testing sessions offered by the certifying Nurse Clinician via simulator
- Successfully complete the Electrical Defibrillation online test with a passing grade greater than or equal to 80%

Documentation

HSN Cardiorespiratory Arrest Record (as per standards of charting)

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Consultation and References

Primary Contacts

Dr. Bhanu Nalla, Anesthesiologist, ACLS Medical Director (Critical Care Program)

Dr. Jason Prpic, ACLS Medical Director (Emergency Department)

References

ACLS Guidelines 2015 (American Heart Association)



HSN Code Blue-Cardiorespiratory Arrest/Medical Emergency Adult/Child-Ramsey Lake Health Center

HSN Manual Electrical Defibrillation certification program

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PHYSICIAN APPROVALS

The following physicians have authorized patient care in accordance with this Medical Directive.

Physician Name	Signature	Date
Dr. Bhanu Nalla		October 3, 2018
Dr. Jason Prpic		October 3, 2018