



# State of New Hampshire

## Department of Safety



Division of Fire Standards and Training & Emergency Medical Services  
 Richard M. Flynn Fire Academy  
 98 Smokey Bear Boulevard, Concord, New Hampshire  
 Mailing Address: 33 Hazen Drive, Concord, New Hampshire 03305-0002

Robert L. Quinn  
 Commissioner

Richard C. Bailey, Jr. and Perry Plummer  
 Assistant Commissioners

Deborah A. Pendergast  
 Director

# CLINICAL BULLETIN

Bulletin #	Title			Date Issued
56	Multi-Function Cardiac Monitor in AED Mode			July 1, 2019
Superseded	Released By	Approved By	Source	
#55	Justin Romanello, Chief	Joey Scollan, DO		

### UPDATE!

The Division of Fire Standards and Training & Emergency Medical Services recently made all services and providers in the State aware of a potential shortcoming with the use of “multi-function cardiac monitors” in AED mode.

*In AED mode the device will only deliver adult energy dosages to patients, including pediatric patients less than eight (8) years of age, regardless of whether adult or pediatric electrodes are being utilized. In addition there is no compatibility with AED pediatric electrodes (that attenuate energy) and the “multi-function cardiac monitor”. Pediatric electrodes that are used with “multi-function cardiac monitors” are merely smaller in size to correlate to a smaller patient and do not attenuate energy.*

Since the last update the Division has been contacted by Zoll and the information that was previously confirmed by them is incorrect. **The “R” and the “X” Series Multi-Function Cardiac Monitors are capable of delivering pediatric doses in AED mode.** Both Phillips and Stryker (Physio Control) Multi-Function Cardiac Monitors remain at only being capable of delivering Adult energy in AED. The Division will continue to monitor the situation and encourage all departments and agencies providing EMS services in the State of New Hampshire to immediately take the following actions into consideration.

- If you are currently using any “Multi-Function Cardiac Monitor” in AED Mode, have a local plan to properly address patients requiring less than adult levels of energy during defibrillation (all pediatric patients).
- Ensure that the appropriate electrodes are with the intended piece of equipment. Pediatric attenuating electrodes are only to be used with AEDs and non-attenuating pediatric electrodes are only to be used with “multi-function cardiac monitors”.
- **As a reminder, New Hampshire Patient Care Protocols state, if pediatric AED pads are unavailable, providers may use adult AED pads, provided the pads do not overlap.**