



ADVOCATE ILLINOIS MASONIC MEDICAL CENTER
JOHN H. STROGER JR. HOSPITAL OF COOK COUNTY
NORTHWESTERN MEMORIAL HOSPITAL
UNIVERSITY OF CHICAGO MEDICAL CENTER

DATE: August 8, 2025

TO: Region 11 EMS Participating Hospitals
Region 11 EMS Clinicians

FROM: **REGION 11 EMS MEDICAL DIRECTORS CONSORTIUM**

SUBJECT: **MECHANICAL CPR DEVICES**

Under a pilot program, the Chicago Fire Department Air Sea Rescue (ASR) Unit is initiating the AutoPulse NXT mechanical CPR device for select patients in cardiac arrest including drowning from a watercraft rescue. Patients will be transferred from the water EMS crew to the land-based EMS crew and reassessed on shore. For patients with return of spontaneous circulation, the AutoPulse will be discontinued. For patients that remain in cardiac arrest, the AutoPulse may be continued if an EMS clinician that has been credentialed in AutoPulse use is available to remain with the patient during transport.

STEMI Center hospitals should be prepared to receive patients with mechanical CPR devices initiated in the prehospital setting. After hand-off by EMS, the automated compressions can be paused for patient reassessment and a determination of additional resuscitation. Hospital personnel should not cut the load-distribution band. After the resuscitation is complete, the platform should be returned to the EMS crew, and the band can be disposed.

Additional details are included in the attached *AutoPulse NXT Quick Reference Guide*, which also contains a QR code for training videos.

Please contact your Resource Hospital with questions.

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Attachments: Zoll AutoPulse NXT Quick Reference Guide with training videos

Copy to: Kathryn 'KC' Booth RN, EMS System Coordinator, Advocate Illinois Masonic Medical Center
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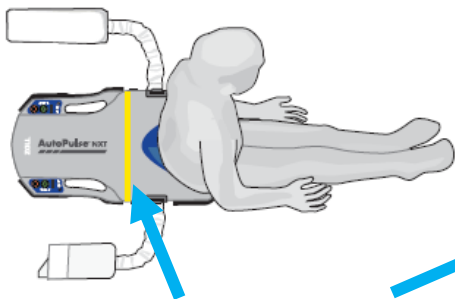
Intended Patients:

- Chest circumference: 30 to 56 in. / 76 to 142 cm
- Max. weight: 400 lbs / 181 kg



Training Videos

Place under patient by lifting torso and inserting from top of bed



Yellow line on platform should align with patient axilla (armpits)



NXT Band will auto-tighten to the patient chest size

Velcro NXT Band together across patient chest



Align blue bar and match gray grip on both sides

Start

Pause

(press once)

Standby

(press twice)

Power

Mute

Compression Mode

(30:2 vs. Continuous)

Malfunction Alert

(Check NXT Band)
(Call Biomed after Code)

Battery Level

(30 min.) (Change when 1 bar lit)