



INFORMATION REPORT

TO:	Chair and Members Emergency and Community Services Committee
COMMITTEE DATE:	December 9, 2021
SUBJECT/REPORT NO:	ZOLL Defibrillators Standardization for the Hamilton Fire Department and Hamilton Paramedic Service (HSC21039) (City Wide)
WARD(S) AFFECTED:	City Wide
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SUBMITTED BY:	Michael Sanderson Chief, Hamilton Paramedic Service Healthy and Safe Communities Department
SIGNATURE:	

COUNCIL DIRECTION

Council approved Emergency and Community Services Committee Report 12-011 on December 12, 2012 which provided:

- (a) That paramedic and firefighter electrocardiogram (ECG) monitor-defibrillators be standardized to the Zoll Medical Corporation and that those products be a single source purchase directly from the manufacturer;
- (b) That the negotiation with the Zoll Medical Corporation as a single source be conducted by staff of the Hamilton Paramedic Service and the Hamilton Fire Department;
- (c) That staff be authorized to negotiate with the Zoll Medical Corporation as the single source for the supply of any replacement parts and accessory equipment associated with the standardized electrocardiogram monitor-defibrillators;
- (d) That staff be authorized to single source the maintenance and biomedical testing contracts for issues not otherwise captured by the warranty from the Zoll Medical Corporation; and,

OUR Vision: To be the best place to raise a child and age successfully.

OUR Mission: To provide high quality cost conscious public services that contribute to a healthy, safe and prosperous community, in a sustainable manner.

OUR Culture: Collective Ownership, Steadfast Integrity, Courageous Change, Sensational Service, Engaged Empowered Employees.

- (e) That staff be authorized to standardize the purchase of public access defibrillator units (AEDs) from the Zoll Medical Corporation in compliance with Procurement Policy #5.1 – Low Dollar Value Procurements, Policy #5.1 – Request for Quotations, Policy #5.3 – Request for Tenders or Policy #5.4 – Requests for Proposals, as applicable.

INFORMATION

This report provides Council with an update on the purchase of Zoll cardiac monitor defibrillators in accordance with prior Council authorization.

The current ZOLL X Series monitor/defibrillator devices purchased in 2012 that are in use within the Hamilton Paramedic Service are approaching end of life and replacement and refresh for the Paramedic fleet is scheduled for 2022. The replacement monitor/defibrillator is the New ZOLL's X Series Advanced monitor/defibrillator which has many new advancements from the original X Series purchased nine years prior. These new improvements will help paramedics manage patients more effectively than ever before.

The new X Series Advanced includes these new features; Real BVM (Bag Valve Mask) Help and TBI (Traumatic Brain Injury) Dashboard technologies, RescueNet Live, and enhanced RescueNet case review functionality explained below.

- The Real BVM Help is a real-time ventilation feedback used when paramedics are breathing for patients. With this technology on the new X Series Advanced, paramedics will now be able to view target and delivered tidal volume (amount of air in the lungs) and breathing rate directly on the monitor. This real-time feedback guides paramedics to deliver high-quality manual ventilation in a manner that has never been possible.
- The TBI Dashboard - Early treatment is critical for TBI patients. ZOLL's TBI Dashboard on the new X Series Advanced provides trending information on the parameters most critical to a TBI patient, enabling paramedics to quickly detect potential patient deterioration.
- The RescueNet Live allows Clinicians, such as interventional physicians in the cardiac catheterization suite, to view data from X Series Advanced at remote locations. This telehealth solution from ZOLL enables effective decision support to help paramedics optimize patient care in the field.
- The RescueNet Case Review enables providers to view data from X Series Advanced post-case for effective QA/QI. Data includes ventilation performance

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with Real BVM Help, CPR performance with Real CPR Help, and automatic recognition and integration of performance with ZOLL's automated mechanical compression (AutoPulse) device. The AutoPulse resuscitation system was approved for purchase and implementation for Hamilton Paramedic Service in September 2021 (HSC21028).

FINANCIAL

Acquisition and replacement of the ZOLL X Series Advanced equipment has been estimated at \$2,051,570. These funds are included in the 2022 Capital Budget under Project #7642251101 - 2022 Annual Equipment Replacement Project for Hamilton Paramedic Service.

APPENDICES AND SCHEDULES ATTACHED

None