

<b>To:</b>	Warden Milne and Members of Grey County Council
<b>Committee Date:</b>	January 12, 2023
<b>Subject / Report No:</b>	PSR-CW-01-23
<b>Title:</b>	Mechanical Compression Device Capital Purchase Before Budget Approval Request
<b>Prepared by:</b>	Kevin McNab
<b>Reviewed by:</b>	Kim Wingrove, Mary Lou Spicer
<b>Lower Tier(s) Affected:</b>	
<b>Status:</b>	Recommendation adopted by Committee as presented per Resolution CW20-23; Endorsed by County Council January 26, 2023, per Resolution CC11-23.

## Recommendation

1. That report PSR-CW-01-23 regarding the pre-budget approval for the capital purchase of Mechanical Compression Devices be received; and
2. That staff be authorized to procure 11 Mechanical Compression Devices; and
3. That the procurement begins prior to 2023 budget approval in accordance with Sections 3.3 (c), 10.0 and 10.1 f) of the Purchasing Policy.

## Executive Summary

The purpose of this report is to authorize the procurement of 11 mechanical compression devices prior to the approval of the 2023 budget. New cardiac arrest standards from the Ministry of Health come into effect February 1<sup>st</sup>, 2023; staff requests approval to purchase the devices to prepare for staff training and deployment. The \$187,400 estimated costs have been included in the draft 2023 budget and will be funded from the Paramedic Services Equipment and General Reserve. This purchase supports the delivery of core services.

## Background and Discussion

Patient Care Standards are updated by the Ministry of Health on a regular basis, based upon the best medical evidence available and on advisement from the Provincial Base Hospital Medical Advisory Committee.

The Advanced Life Support Standards Version 5.0 will come in to force on February 1, 2023. The updated standard for cardiac arrest will see in certain settings an increase of cardiopulmonary resuscitation delivery time from the current six to eight minutes, up to 20 minutes, prior to a decision for transport to hospital or termination of resuscitation being made.

The duration of resuscitation by paramedics, prior to termination of efforts, is being extended to a 20 minute minimum to maximize the number of individuals who may have successful outcomes. Recent observational studies have suggested that a non-futile proportion of patients exist, who might survive to hospital discharge with the application of the new standard. This extended duration of cardiopulmonary resuscitation may be aided by the incorporation of mechanical chest compression devices, especially in circumstances of limited scene resources.

Mechanical CPR has been shown to be as effective as manual CPR. Mechanical CPR decreases the physical demand on responders, especially when there is lack of resources at the scene and allows more focus on patient care and transport. Mechanical devices will also allow for CPR in tight areas as well as the ability for continuous CPR during extrication and transport. There is a significant safety enhancement as the paramedic or responder does not have to be unbelted during transport to perform CPR.

Staff requests authorization to purchase automated compression devices prior to approval of the 2023 budget to allow for staff training and operational deployment as close as possible to the implementation of the new standard.

## Staffing Considerations

Required training on the new device will be incorporated into the continuing medical education (CME) cycle in February 2023.

## Legal and Legislated Requirements

None with this report.

## Financial and Resource Implications

The \$187,400 projected cost has been included in the 2023 draft budget and is funded from the Paramedic Services Equipment and General Reserve. The reserve is projected to have a balance of \$471,600 on December 31, 2023. The annual transfer to reserve will be adjusted in 2024 to reflect the additional equipment. Mechanical CPR devices has a life expectancy of eight to ten years. Yearly preventative maintenance on the units will be required and will be included in future operating budgets; there is no cost in 2023.

## Relevant Consultation

External:

Internal: CAO, Finance

## Appendices and Attachments

None