



**CITY OF NOVI CITY COUNCIL
OCTOBER 26, 2020**

SUBJECT: Approval to purchase one (1) Lucas 3 chest compression system for the Novi Fire Department from Stryker, an authorized sole sourced dealer in the amount of \$18,163.28.

Submitting department: Public Safety, Fire Department
Department of Public Work, Fleet Division

EXPENDITURE REQUIRED	\$18,163.28
AMOUNT BUDGETED	\$ 110,050
APPROPRIATION REQUIRED	N/A
LINE ITEM NUMBER	101-337.00-983.030

BACKGROUND INFORMATION: The Novi Fire Department would like to purchase one Lucas 3 Chest Compression System package. This was budgeted with the new Suburban Command Vehicle equipment package. It will be placed on the Command Vehicle that responds to all cardiac arrest calls for service. The Lucas 3 Chest Compression System is a fully automatic compression unit to assist police, fire, and EMS personnel with high quality compressions during a cardiac arrest. Because the system is fully automatic, it will help reduce personnel fatigue from providing compressions on a cardiac arrest and create high quality compression for the duration of the call for service. This is the same unit our partners at Superior EMS currently utilize on their advanced life support ambulances. Keeping with the same unit will help streamline training for all our personnel.

It will be purchased as a sole source item, utilizing the Wayne County Bulk Buy quote that holds the only five (5) year warranty for the Lucas 3 chest compression system.

RECOMMENDED ACTION: Approval to purchase (1) one Lucas 3 chest compression system for the Novi Fire Department from Stryker, an authorized sole sourced dealer in the amount of \$18,163.28.

Meet the LUCAS[®] 3 Chest Compression System



LUCAS System

Smart. Hardworking. Built for the future.

The LUCAS chest compression system has been helping lifesaving teams around the world deliver high-quality, Guidelines-consistent compressions; in the field, on the move and in the hospital.

With over 12 years of clinical experience, we proudly present the third generation LUCAS device, built on the LUCAS legacy. The LUCAS 3 chest compression system has improved features to facilitate maintenance and handling and allows for new insights through easy, wireless access to device data.



LUCAS Case

Strong. Smart. Modern.



Hard Shell Case

- Polycarbonate
- Easy to clean
- Reflective badging
- Large multi-point handles
- Large zipper grips
- Adjustable backpack straps



Molded Design

- Compact, portable and durable
- Protected and organised inside
- Smart storage compartment of accessories (batteries, straps, suction cups)
- Can also be used with the LUCAS 2 device



Top Window

- Quick check of battery status (press MUTE button)



Charge Port (on back of hard shell case)

- Charge the device without removing from the case

LUCAS Slim Back Plate

Simple. Skinny.



Single Piece

- ~50% slimmer
- Easy to clean
- Tapered edge for easier adjustment
- Larger contact area for stability
- Additional attach points for transportation
- Can also be used also with LUCAS 2 devices



Cath Lab/Fluoroscopy

- Allows for emergency angiography/angioplasty during ongoing LUCAS CPR
- Vague grid shadows in oblique views (see angiogram)
- For optimal performance; use PCI back plate (available separately)

LUCAS Device Connectivity

Connected. Insights.

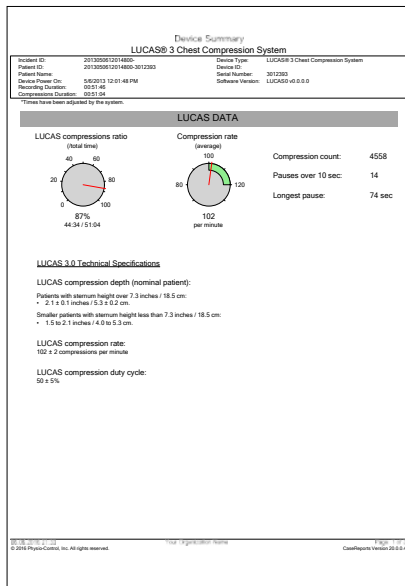
Data-Enabled

- Post-event performance reports for review
- Bluetooth® connectivity
- Easy to pair with PC/Windows®
- LUCAS Report Generator software



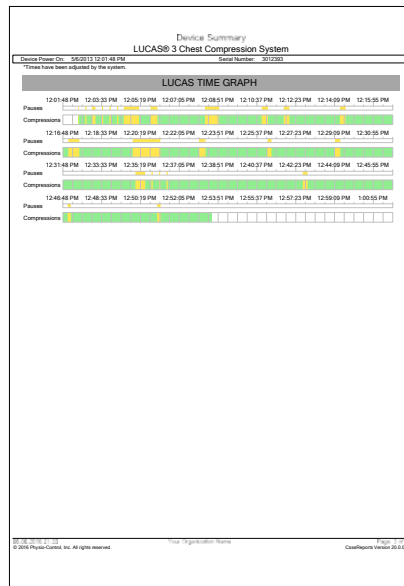
LUCAS Report Generator

- LUCAS chest compression statistics, pauses, user modes and device alarms and alerts
- Review LUCAS device performance data at the end of the case or shift
- Device summary, timeline and event log



Device Summary

- Quick glance dials of ratio and rate
- Compression and pause data



Time Graph

- Timeline from first LUCAS device compression to last
- Pauses automatically highlighted

Event log
LUCAS® 3 Chest Compression System

Device ID: 2016860310425600-3110000 Device Type: LUCAS® 3 Chest Compression System
 Patient ID: LUCAS® 3
 Patient Name: 5630913 12:01:48 PM Serial Number: 3012803
 Device Power On: 05:50:11 12:01:48 AM Software Version: LUCAS® v3.0.0.0
 Recording Duration: 05:50:52
 Compressions Counted: 4558
 *Times have been adjusted by the system.

Elapsed Time	Real Time	Description	Elapsed Time	Real Time	Description
05:50:52	12:01:48 AM	Power On	05:50:58	12:01:54 AM	Continuous Mode
05:50:59	12:01:55 AM	Adjust Mode	05:50:59	12:01:55 AM	Adjust Mode
05:50:59	12:01:55 AM	Pause Mode	05:50:59	12:01:55 AM	Pause Mode
05:50:59	12:01:55 AM	Continuous Mode	05:50:59	12:01:55 AM	Continuous Mode
05:50:59	12:01:55 AM	Pause Mode	05:50:59	12:01:55 AM	Pause Mode
05:50:59	12:01:55 AM	Adjust Mode	05:50:59	12:01:55 AM	Adjust Mode
05:50:59	12:01:55 AM	Start Position Adjustment Required	05:50:59	12:01:55 AM	Start Position Adjustment Required
05:50:59	12:01:55 AM	Continuous Mode	05:50:59	12:01:55 AM	Continuous Mode
05:50:59	12:01:55 AM	Adjust Mode	05:50:59	12:01:55 AM	Adjust Mode
05:50:59	12:01:55 AM	Pause Mode	05:50:59	12:01:55 AM	Pause Mode
05:50:59	12:01:55 AM	Continuous Mode	05:50:59	12:01:55 AM	Continuous Mode
05:50:59	12:01:55 AM	Adjust Mode	05:50:59	12:01:55 AM	Adjust Mode
05:50:59	12:01:55 AM	Start Position Adjustment Required	05:50:59	12:01:55 AM	Start Position Adjustment Required
05:50:59	12:01:55 AM	Continuous Mode	05:50:59	12:01:55 AM	Continuous Mode
05:50:59	12:01:55 AM	Adjust Mode	05:50:59	12:01:55 AM	Adjust Mode
05:50:59	12:01:55 AM	Pause Mode	05:50:59	12:01:55 AM	Pause Mode
05:50:59	12:01:55 AM	Adjust Mode	05:50:59	12:01:55 AM	Adjust Mode
05:50:59	12:01:55 AM	Pause Mode	05:50:59	12:01:55 AM	Pause Mode

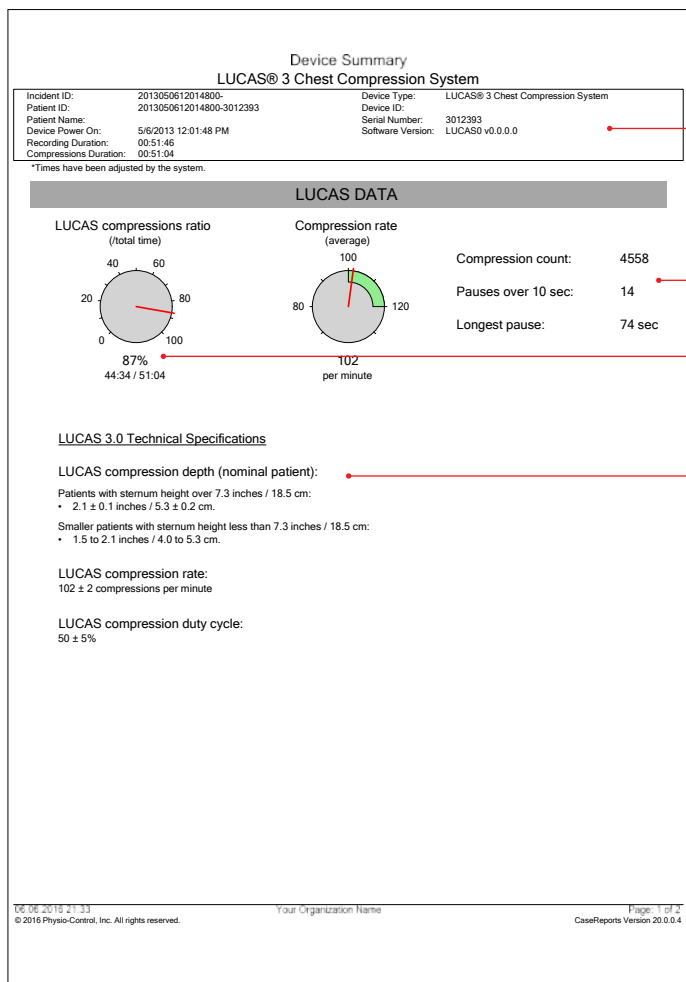
Event Log

- Insight into user interaction, device operational mode, battery information and any alarms

LUCAS Device Report

Connected. Insights.

Device Summary



Device name, case date, case time and duration

Consistent, high-quality LUCAS compressions

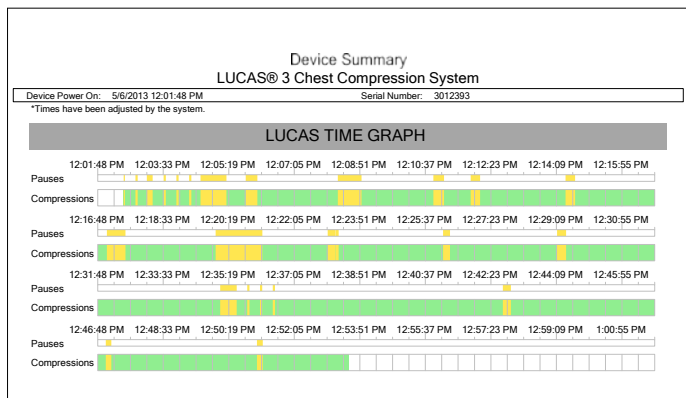
Compression count, pauses >10 seconds and longest pause readout

Compression ratio between first and last LUCAS compression

LUCAS device technical specifications

Time Graph

- Time Axis
- Pauses (automatic by device or user initiated)
- Compressions (device only)



Specifications

Compressions

Compression Frequency: 102 ± 2 compressions per minute

Compression depth (nominal patient):

- 2.1± 0.1 inches / 53±2 mm for patients with sternum height greater than 7.3 inches / 185 mm
- 1.5 to 2.1 inches / 40 to 53 mm for patients with sternum height less than 7.3 inches / 185 mm

Compression/Decompression Duty Cycle: 50 ± 5%

Patients Eligible for Treatment:

- 6.7 to 11.9 inches / 17.0 to 30.3 cm sternum height (anterior – posterior)
- 17.7 inches / 44.9 cm chest width

The use of the LUCAS device is not restricted by patient weight.

Device specifications

Height x Width x Depth (assembled): 22.0 x 20.5 x 9.4 inches / 56 x 52 x 24 cm

Height x Width x Depth (stowed in backpack): 22.8 x 13.0 x 10.2 inches / 58 x 33 x 26 cm

Weight device with battery (no straps): 17.7 lbs / 8.0 kg

Device storage temperature: -4°F to +158°F / -20°C to +70°C

Device IP Classification: IP43

Operation

Power Source: Battery – Rechargeable Lithium-ion Polymer (LiPo), and (optional) external power supply or car cable

Battery run time (typical): 45 minutes (typical), prolonged operation time with (optional) external power supply or car power cable

External Power supply: 100-240VAC, 50/60Hz, 2.3A, Class II, Output 24VDC, 4.2A

Car Power Cable: Voltage / Current 10-28VDC / 0-10A

Operating temperature:

- +32°F to +104°F / +0°C to +40°C
- -4°F / -20°C for 1 hour after storage at room temperature

Battery specifications

Battery charge time:

Charged in the device using external power supply:

- Less than two hours at room temperature (+72°F/+22°C)

Charged in the external battery charger:

- Less than four hours at room temperature (+72°F/+22°C)

Battery weight: 1.3 lbs / 0.6 kg

Battery capacity: 3300 mAh (typical), 86 Wh

Battery voltage: 25.9 V

Interval for replacement of battery: recommendation to replace battery every 3 to 4 years or after 200 uses (of more than 10 minutes each time)

Battery charge temperature: +32°F to +104°F / +0°C to +40°C (+68°F to +77°F / +20°C to +25°C preferred)

Battery storage temperature: +32°F to +104°F / 0°C to +40°C (-4°F to +158°F / -20°C to +70°C ambient for less than a month)

Battery IP Classification: IP44

Data transmission post-event

Radio module: Bluetooth® v2.1 + EDR Class 1 - up to 3Mbps, Modulation method; 8DPSK, π/4 DQPSK, GFSKFSK, Operating channel; BT 2.4GHz: Ch. 0 to 78, Frequency range; 2.4000 to 2.4835 GHz, Radio frequency; Output Power (Bluetooth) Max + 10dBm

The LUCAS 3 device is for use as an adjunct to manual CPR when effective manual CPR is not possible (e.g., transport, extended CPR, fatigue, insufficient personnel).

For further information, please contact Physio-Control at 800.442.1142 (U.S.), 800.895.5896 (Canada) or visit our website at www.physio-control.com



Physio-Control Headquarters

11811 Willows Road NE
Redmond, WA 98052
www.physio-control.com

Customer Support

P. O. Box 97006
Redmond, WA 98073
Toll free 800 442 1142
Fax 800 426 8049

Physio-Control Canada

Physio-Control Canada Sales, Ltd.
7111 Syntex Drive, 3rd Floor
Mississauga, ON
L5N 8C3
Canada
Toll free 800 895 5896
Fax 866 430 6115



Jolife AB, Scheelevägen 17, Ideon Science Park, SE-223 70 LUND, Sweden



Lucas Wayne County Bulk Buy

Quote Number: 10253456

Remit to: **Stryker Medical**

Version: 1

P.O. Box 93308

Chicago, IL 60673-3308

Prepared For: CITY OF NOVI

Rep: Jamie Smith

Attn:

Email: jamie.smith@stryker.com

Phone Number:

Mobile: (269) 303-1257

Quote Date: 09/16/2020

Expiration Date: 12/15/2020

Delivery Address

Name: CITY OF NOVI

Account #: 1281638

Address: 42975 GRAND RIVER AVE
NOVI
Michigan 48375-1731

End User - Shipping - Billing

Name: CITY OF NOVI

Account #: 1281638

Address: 42975 GRAND RIVER AVE
NOVI
Michigan 48375-1731

Bill To Account

Name: CITY OF NOVI

Account #: 1281637

Address: 45175 TEN MILE RD
NOVI
Michigan 48375-3006

Equipment Products:

#	Product	Description	Qty	Sell Price	Total
1.0	99576-000063	LUCAS 3, v3.1 Chest Compression System, Includes Hard Shell Case, Slim Back Plate, (2) Patient Straps, (1) Stabilization Strap, (2) Suction Cups, (1) Rechargeable Battery and Instructions for use With Each Device	1	\$11,494.90	\$11,494.90
2.0	11576-000060	LUCAS Desk-Top Battery Charger	1	\$876.85	\$876.85
3.0	11576-000071	LUCAS External Power Supply	1	\$277.61	\$277.61
4.0	11576-000080	LUCAS 3 Battery - Dark Grey - Rechargeable LiPo	1	\$536.05	\$536.05
5.0	11576-000047	LUCAS Disposable Suction Cup (12 pack)	1	\$372.75	\$372.75
Equipment Total:					\$13,558.16

ProCare Products:

#	Product	Description	Qty	Sell Price	Total
6.1	78000020	On Site Prevent for LUCAS 3, v3.1 Chest Compression System, Includes Hard Shell Case, Slim Back Plate, (2) Patient Straps, (1) Stabilization Strap, (2) Suction Cups, (1) Rechargeable Battery and Instructions for use With Each Device	1	\$4,605.12	\$4,605.12
ProCare Total:					\$4,605.12

Price Totals:

Grand Total: \$18,163.28

Prices: In effect for 60 days.



Lucas Wayne County Bulk Buy

Quote Number: 10253456

Version: 1
Prepared For: CITY OF NOVI
Attn:

Quote Date: 09/16/2020
Expiration Date: 12/15/2020

Terms: Net 30 Days

Ask your Stryker Sales Rep about our flexible financing options.

Remit to: **Stryker Medical**
P.O. Box 93308
Chicago, IL 60673-3308
Rep: Jamie Smith
Email: jamie.smith@stryker.com
Phone Number:
Mobile: (269) 303-1257

AUTHORIZED CUSTOMER SIGNATURE

PENDING APPROVAL

Deal Consummation: This is a quote and not a commitment. This quote is subject to final credit, pricing, and documentation approval. Legal documentation must be signed before your equipment can be delivered. Documentation will be provided upon completion of our review process and your selection of a payment schedule.

Confidentiality Notice: Recipient will not disclose to any third party the terms of this quote or any other information, including any pricing or discounts, offered to be provided by Stryker to Recipient in connection with this quote, without Stryker's prior written approval, except as may be requested by law or by lawful order of any applicable government agency.

Terms: Net 30 days. FOB origin. A copy of Stryker Medical's standard terms and conditions can be obtained by calling Stryker Medical's Customer Service at 1-800-Stryker.

In the event of any conflict between Stryker Medical's Standard Terms and Conditions and any other terms and conditions, as may be included in any purchase order or purchase contract, Stryker's terms and conditions shall govern.

Cancellation and Return Policy: In the event of damaged or defective shipments, please notify Stryker within 30 days and we will remedy the situation. Cancellation of orders must be received 30 days prior to the agreed upon delivery date. If the order is cancelled within the 30 day window, a fee of 25% of the total purchase order price and return shipping charges will apply.