

# COMPUFLO<sup>®</sup>

EPIDURAL INSTRUMENT

NOW WITH

## CATHCHECK<sup>™</sup>

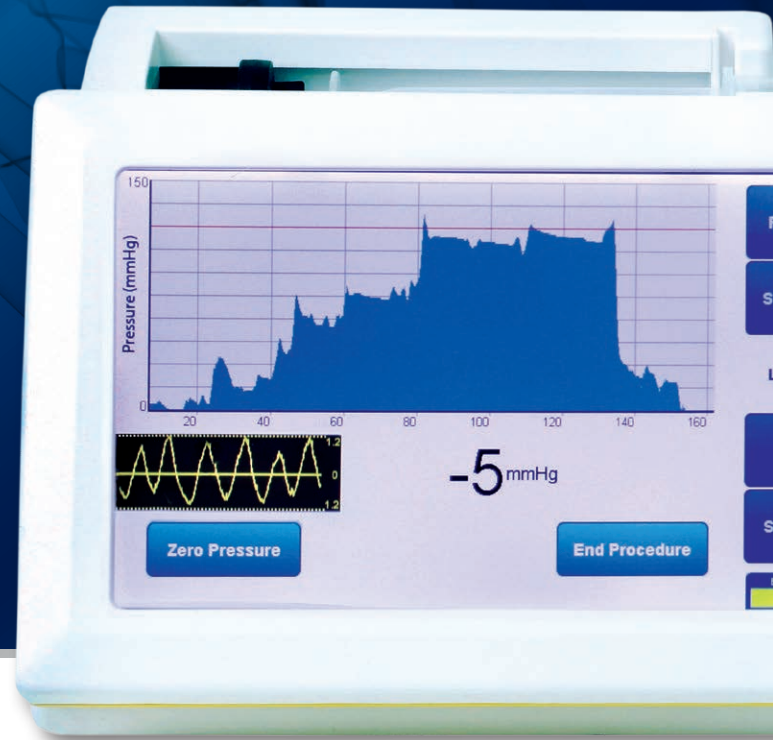
*A modern approach to not only epidural space identification and confirmation, but checking and confirming catheter placement in real time.*



MILESTONE  
SCIENTIFIC<sup>®</sup>

Objectively identify the epidural space with a **99% success rate** on the first attempt.

A new, modern technique for objective identification and confirmation of the epidural space in real time for all your patients.



## Since 1921

### THE CONVENTIONAL APPROACH

Until recently, the identification of the epidural space has been based on the subjective perception of a “loss of resistance (LOR)”, when inserting an epidural needle to identify the epidural space.

- » Subjective tactile feel only - Requires subjective loss of resistance to air or saline
- » Sensitive but not specific - Detects pressure differences by loss of resistance, but is unable to differentiate between intermuscular planes, cysts, ligaments and the epidural space
- » Studies show it takes up to 90 epidural procedures to reach basic clinical competency

## The New Standard

### COMPUFLO® USES DPS DYNAMIC PRESSURE SENSING TECHNOLOGY® 2-4, 8

- » Subjective tactile feel + objective DPS® - differentiates between true loss and false loss of resistance
- » 25% reduction in procedure time for labor and delivery epidurals
- » Clinicians can successfully perform epidural procedures with fewer attempts
- » Detects subtle pressure changes 4 times a second, making it extremely responsive to minor pressure changes
- » Precisely controls the flow rate of fluid with real-time feedback, based on exit pressure at the needle tip
- » Compared to the traditional LOR technique, real-time pressure sensing technology costs about \$504 dollars less per hospital stay on average
- » The CompuWave™ graph displays the pulsatile waveform found in the epidural space, again confirming needle and catheter placement

# Introducing CompuFlo's® newest feature...CathCheck™!

**COMPUFLO**®  
EPIDURAL INSTRUMENT

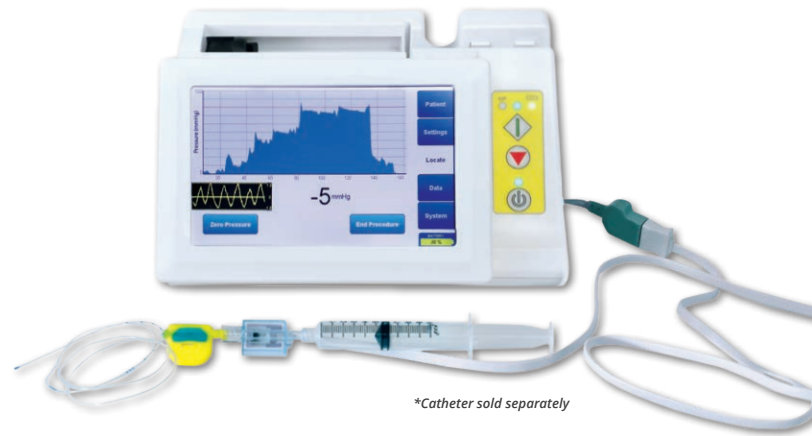
NOW WITH  
**CATHCHECK**™

*A new, modern technique for checking your catheter placement in real time.*

## Benefits

### EPIDURAL CATHETER VERIFICATION SYSTEM

- » Instant epidural catheter verification with CompuWave™ displaying the pulsatile wave form
- » Saves the anesthesia provider time, enabling them to make clinical decisions faster regarding ineffective epidural catheters and the next course of treatment
- » The anesthesia provider may flush with sterile anesthetic or sterile saline
- » Increases the anesthesia provider's daily effectiveness
- » Provides confirmation to the anesthesia provider post-catheter placement
- » Reduces the amount of time the patient is in pain, due to an ineffective catheter



|  | Catheter Dosing | CompuFlo® CompuWave™ |
|--|-----------------|----------------------|
| Connects directly to the patient's catheter  | X               | X                    |
| Flush with anesthetic  | X               | X                    |
| Flush with sterile saline  |                 | X                    |
| Time required for patient response   | 15-30 minutes   | 10 seconds           |
| Instantly and objectively displays the epidural pulsatile waveform found in the epidural space |                 | X                    |

# The Modern Epidural Solution

## Instrument Features

### DPS DYNAMIC PRESSURE SENSING TECHNOLOGY®

- » High-quality 17.5 cm (7 in) touchscreen
- » Lightweight - allowing the instrument to be moved from room to room
- » Contains 2 power sources: a standard AC plug, as well as a built-in lithium-ion battery
- » Optional hands-free control with a foot pedal
- » Internal memory stores patient files and are accessible through a USB 2.0 port

## Benefits

### COMPUFLO® + CATHCHECK™

- » Connects to any traditional loss-of-resistance syringe, maintaining the standard tactile feel technique
- » CompuFlo® can be used with the needle of your choice
- » Objectively discriminates between a true loss-of-resistance and a false loss-of-resistance
- » Constantly and in real-time measures tissue pressure
- » 97% accuracy in labor/delivery, and 96% accuracy in patients with BMI >31<sup>1</sup>
- » Check catheter placement in seconds, not minutes

|   | Loss-of-Resistance Syringe | CompuFlo® |
|---|----------------------------|-----------|
| Uses tactile feel <sup>5</sup>  | X                          | X         |
| Objectively measures tissue pressure constantly and in real-time, numerically and graphically <sup>5</sup>  |                            | X         |
| Objectively measures tissue pressure constantly and in real-time, via audible tone  |                            | X         |
| Recognizes the presence of pulsatile waveform when the epidural space is accessed with CompuWave™   |                            | X         |
| Reduced procedure time in a randomized clinical trial (COMPASS)   |                            | X         |
| Reduced needle passes to the epidural space in a randomized clinical trial (COMPASS)  |                            | X         |
| Reduced accidental dural punctures in a randomized clinical trial (COMPASS)   |                            | X         |
| Compared to the traditional LOR technique, real-time pressure sensing technology costs about \$504 dollars less per hospital stay on average <sup>8</sup> |                            | X         |



# Specifications & Order Information

| CompuFlo® Epidural Instrument Specifications |   |
|--|---|
| Voltages                                     | 100-264 V, 50/60 Hz   |
| Internal Battery                             | Up to 2 hrs of use  |
| Weight                                       | 2.3 kg (5.0 lbs)  |
| Dimensions                                   | 24.38 x 17.15 x 14 cm (9.6 x 6.75 x 5.5 in)   |
| Operational Temperature                      | 10-35 °C (50-95 °F)   |
| Operational Humidity                         | 30-70% RH   |
| Storage Temperature                          | -20-45 °C (-4-113 °F)   |
| Storage Humidity                             | 15-90% RH   |
| Compliance                                   | <p>IEC 60601-1 3.1 (2012) Edition "Medical electrical equipment - Part 1: General requirements for basic safety and essential performance"</p> <p>"Medical Electrical Equipment: Part 1-2 General Requirements for Basic Safety and Essential Performance Collateral Standard: Electromagnetic Compatibility Requirements and Test"</p> |

| CompuFlo® Epidural Instrument     |              |
|-----------------------------------|--------------|
| CompuFlo® Epidural Instrument 110 | EPI-6000-110 |
| CompuFlo® Epidural Instrument 220 | EPI-6000-220 |

| CathCheck™ Equipment        |             |
|-----------------------------|-------------|
| CathCheck™ ID Adaptor & Kit | EPI-6010-03 |

| CompuFlo® Epidural Disposables      |          |
|-------------------------------------|----------|
| CompuFlo® Epidural ID Adaptor & Kit | EPI-6010 |

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3. Jing Q, Wan K, Wang XJ, Ma L. Effectiveness and Safety of Computer-Controlled Periodontal Ligament Injection System in Endodontic Access to the Mandibular Posterior Teeth. Chin Med Sci J. 2014 Mar 31;29(1):23-7.
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6. T. Moeller-Bertram, R.E. Gebhard, D. Dobecki, M. Walker, J. Shi, S. Ilic. Real-Time Epidural Space Identification with the CompuFlo® Epidural Instrument is Equivalent to Loss of Resistance Technique Coupled with the Fluoroscopy Confirmation. Journal of Pain Volume 17, Issue 4, Supplement, S1 2016.
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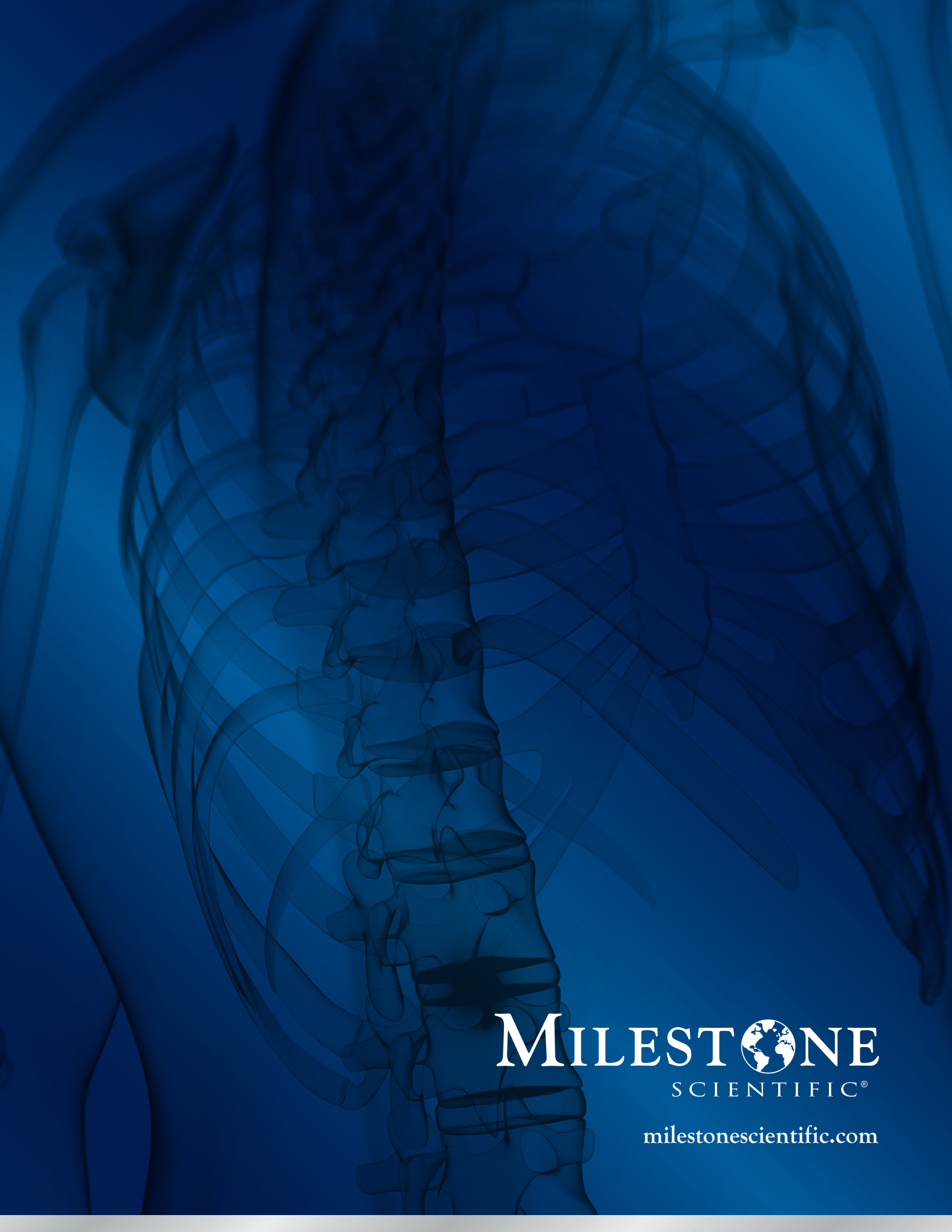
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CompuFlo® Epidural Computer Controlled Anesthesia System is marketed as the CompuFlo® Epidural Instrument.

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