

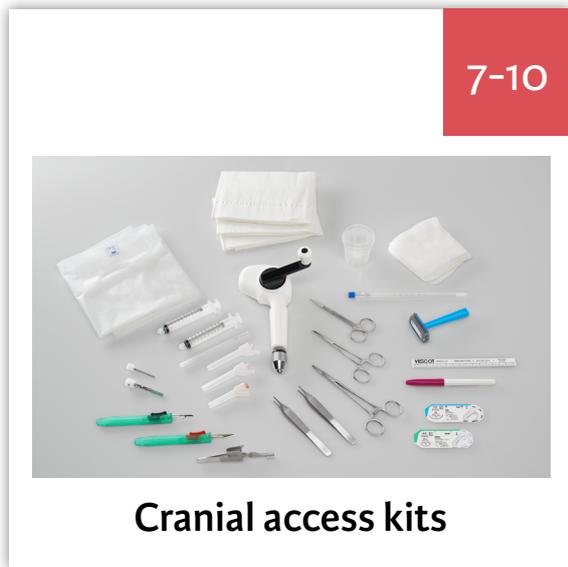
**Codman**<sup>®</sup>  
SPECIALTY SURGICAL

A DIVISION OF INTEGRA LIFESCIENCES



**Integra**<sup>®</sup>  
**NeuroCritical Care**  
Product Catalog

# Codman® Spec a complete solution for your

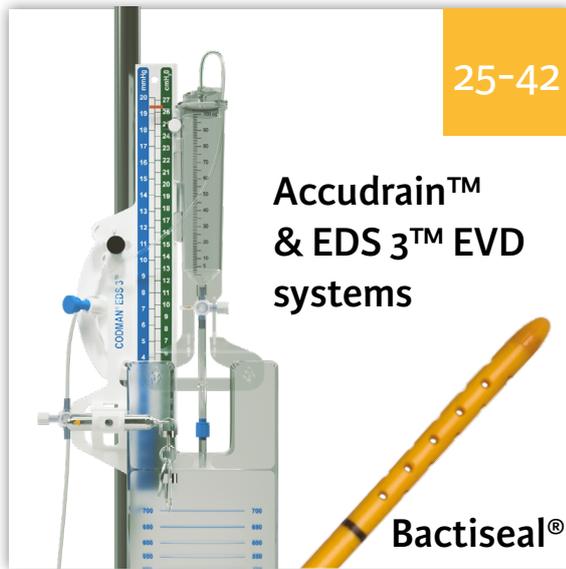


Access



Diagnosis

# Specialty Surgical for NeuroCritical Care patients



## Therapy & Infection Prevention

<b>Customer Service and Warranty Information</b>	<b>5</b>
<b>Cranial access</b>	<b>7</b>
Cranial Access kit	8
Drills & Accessories	9
<b>Diagnosis - Neuromonitoring</b>	<b>11</b>
CereLink™ ICP Monitor	12
DirectLink™ ICP Module	13
CereLink™ ICP Sensors & Kits	14
CereLink™ & DirectLink™ Patient Monitor Interface Cables	16
Licox® P <sub>t</sub> O <sub>2</sub> Monitor	17
Licox® Probes & Kits	18
Licox® - Patient Monitor Interface Cables	23
<b>Therapy &amp; Infection Prevention - External Drainage</b>	<b>25</b>
Codman® EDS <sub>3</sub> ™ External Drainage System	26
Accudrain™ External CSF Drainage System	28
Hermetic™ Plus External CSF Drainage System	30
Pole Mount External CSF Drainage Systems	31
Basic External Drainage Systems	32
Infection Prevention - Bactiseal™ EVD Catheter	34
Ventricular Drainage Catheters	36
Lumbar Drainage Catheters	39
Replacement Drainage Bags	40
<b>Indications and Contraindications</b>	<b>43</b>
<b>Product References</b>	<b>48</b>

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**Integra Limited Warranty**

INTEGRA LIFESCIENCES CORPORATION and its wholly owned subsidiaries («INTEGRA») warrant to INTEGRA authorized distributors and the original purchaser only that each new INTEGRA or CODMAN product is free from manufacturing defects in material and workmanship under normal use and service from the date of delivery by INTEGRA (or its authorized distributor) to the original purchaser, but in no event beyond the expiration date stated on any product labeling. For purposes of products sold by INTEGRA through an authorized distributor of INTEGRA, «original purchaser» shall include the purchaser of INTEGRA products to whom the distributor first sells the product.

- Surgical instruments are guaranteed to be free from defects in material and workmanship when maintained and cleaned properly and used normally for their intended purpose.
- Any covered product that is placed by INTEGRA under a lease, rental or installment purchase agreement and that requires repair service during the term of such placement agreement shall be repaired in accordance with the terms of such agreement.

If any covered defect occurs during the warranty period or term of such placement agreement, the purchaser or distributor should communicate directly with INTEGRA. If purchaser or distributor seeks to invoke the terms of this warranty, the product must be returned to INTEGRA. The defective product should be returned promptly, properly packaged and postage prepaid. Loss or damage in return shipment to INTEGRA shall be at sender's risk. INTEGRA's sole responsibility under this warranty shall be repair or replacement, at INTEGRA's sole discretion at INTEGRA's expense, subject to the terms of this warranty and applicable agreements.

IN NO EVENT SHALL INTEGRA BE LIABLE FOR ANY INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES IN CONNECTION WITH THE ACQUISITION OR USE OF ANY INTEGRA PRODUCT. Further, this warranty shall not apply to, and INTEGRA shall not be responsible for, any loss arising in connection with the purchase or use of any INTEGRA product that has been repaired by anyone other than an authorized INTEGRA service representative or altered in any way so as, in INTEGRA's judgment, to affect its stability or reliability, or which has been subject to misuse, negligence or accident, or which has been used otherwise than in accordance with the instructions furnished by INTEGRA.

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# Cranial Access

# Cranial Access Kit

## CODMAN Cranial Access Kit

Catalog No. 826617

The CODMAN Cranial Access Kit is a disposable intracranial procedural kit, which contains all the basic items used during each step of the cranial access procedure. The kit contains the following items:

### Preparation Components

	Description
A	Double Edge Razor (1)
D	Gauze Sponges, 4" x 4", 10 x 10 cm 12 ply (10)
E	Medicine Cup, 2 oz., 60 cc (2)

### Cranial Access Preparation

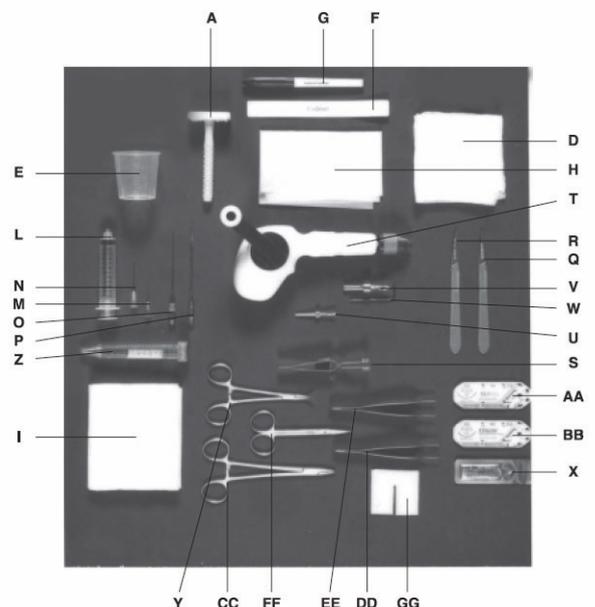
	Description
F	Ruler, 6", 15 cm (1)
G	Marking Pen (1)
H	Fenestrated Drape w/Barrier, 24" x 26", 61 x 66 cm (1)
I	Absorbent Towel, 15" x 21", 38 x 53,3 cm (3)

### Cranial Access

	Description
L	Syringe, 12 cc (2)
M	Needle, 18 G x 1 1/2", 3,8 cm (2)
N	Needle, 25 G x 5/8", 1,6 cm (1)
O	Spinal Needle, 18 G x 3 1/2", 8,9 cm (1)
P	Ventricular Needle, 12 G x 3 1/2", 8,9 cm (1)
Q	Scalpel, #15 (1)
R	Scalpel, #11 (1)
S	Retractor, Blunt (1)
T	Hand Crank Drill (1)
U	2.7 mm Drill Bit w/stop (1)
V	5.8 mm Drill Bit w/stop (1)
W	Allen Wrench (1)
X	Bone Wax (1)
Y	Mosquito Forceps, curved (2)
Z	Culture Tube w/screw cap (1)

### Preparation Components

	Description
AA	2.0 Silk Suture (1)
BB	3.0 Nylon Suture (1)
CC	Needle Holder, Serrated (1)
DD	Adson Forceps (1)
EE	Adson Forceps w/teeth (1)
FF	Suture Scissors (1)



## Cranial Access: Drills & Accessories

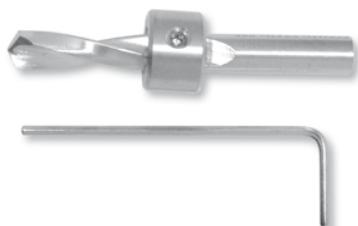
### DISPOSABLE DRILLS



Reference	Description
826607	MicroSensor Hand Drill Disposable

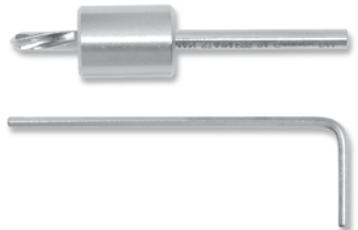
### DRILL BITS

← 50mm →



Reference	Description
826608	MicroSensor Drill Bit O 5.8mm Disposable

← 45mm →



Reference	Description
826609	MicroSensor Drill Bit O 2.7mm Disposable

Note: When using the Licox<sup>®</sup> Monitoring Kits, please use the drill bit provided with that kit.



**Diagnosis -  
Neuromonitoring**

## CERELINK™ ICP MONITOR

### Technical specifications:

- Flat size (depth 59mm without pole clamp x H165mm x W222mm)
- Weight less than 2 Kg
- Screen: 18 cm diagonale TFT LCD
- Battery autonomy: 3 h

### Functions:

- High Fidelity ICP waveform (100 samples per second for a 25 Hz ICP waveform bandwidth)
- **Advanced Trend Functions:**
  - > ICP trends for up to 14 days
  - > Programmable user specific thresholds enabling calculation of pressure time dose & time above threshold
  - > histogram, boxplot
- Event Markers facilitate visualization of the impact of therapeutic interventions on ICP
- Screenshots
- Touchscreen interface
- Real-time streaming of ICP waveform or mean ICP through USB
- Data storage and export of 24 hours of ICP Waveform or up to 14 days of mean ICP
- Visual & audible alarms
- Free-standing positioning or attachable to an IV pole



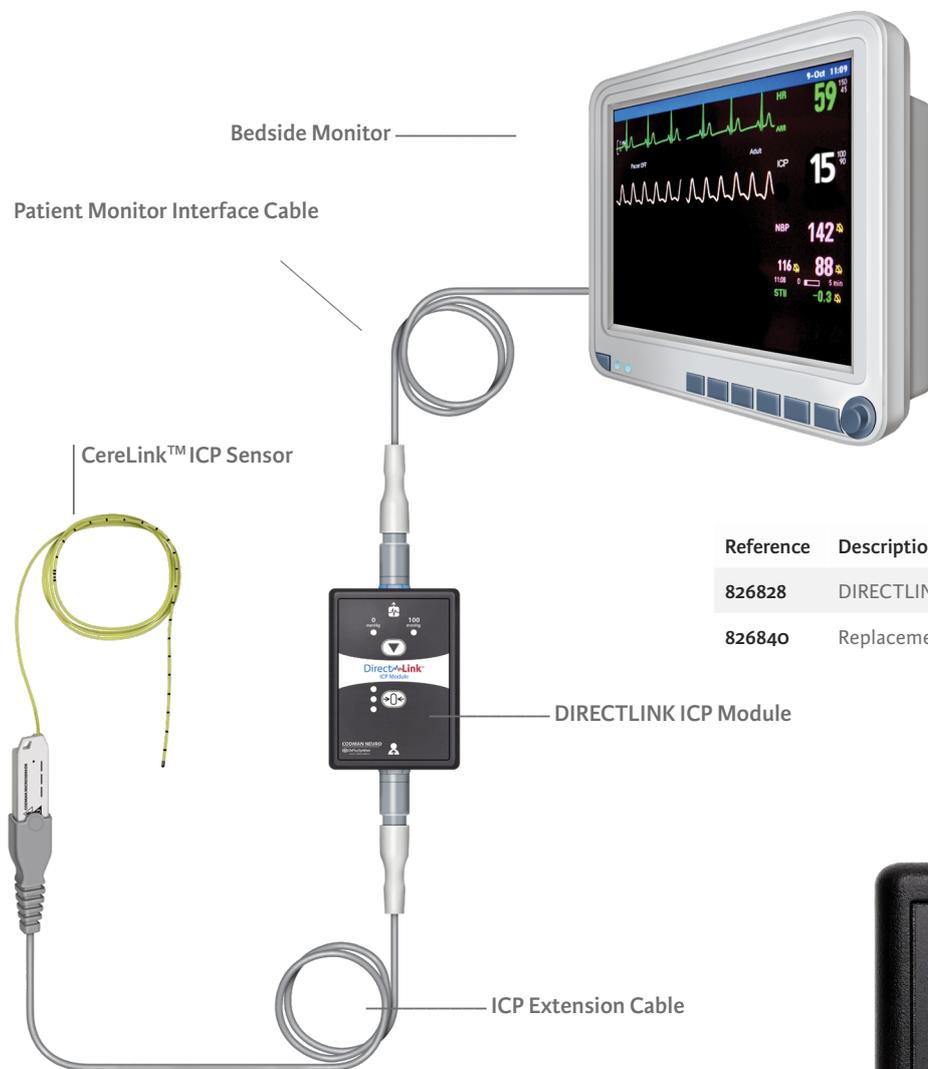
Reference	Description
826820	CereLink™ ICP Monitor
826826	CereLink™ Swiss Power supply (needs to be ordered separately)

### System includes:

Reference	Description
826845	CereLink ICP Extension Cable
826822	CereLink ICP Monitor Replacement Power Supply
826824	CereLink ICP Monitor Replacement Battery
EXPORTCAB	CereLink USB to RS232 Adapter

## DIRECTLINK™ ICP MODULE

The DIRECTLINK™ ICP Module is an easy to use, cost-effective solution to monitor Intracranial Pressure (ICP) without the need for a stand-alone ICP monitor.



Direct™Link™

Reference	Description
826828	DIRECTLINK ICP Module (includes ICP Extension Cable)
826840	Replacement ICP Extension Cable

### Easy to Use

- The simple to use two button interface offers quick equipment setup for monitoring ICP.
- Single button zeroing of the patient monitor and ICP transducer.
- Allows the CereLink™ ICP Sensor to interface with a variety of patient monitors, enabling movement of patients throughout the hospital.

### Compact and Durable

- Measuring approximately 2.5" X 3.5" X 1" (6.4 cm X 8.9 cm X 2.5 cm) and weighing under 3.5 oz (100 g), the DIRECTLINK™ ICP Module is lightweight and easy to transport.
- Little to no maintenance costs as a result of no internal battery or moving parts.



Actual size

# ICP Monitoring: CereLink™ ICP Sensor

## CERELINK™ ICP SENSOR

The CERELINK™ ICP Transducer consists of a miniature strain gauge pressure sensor mounted in a titanium case at the tip of a 100cm flexible nylon tube. The CERELINK™ monitors intracranial pressure directly at the source - subdural, parenchymal or intraventricular. Information is relayed electronically rather than through a hydrostatic column or fiberoptics.

The low profile (tip diameter of 1.3 mm) & the high mechanical resistance of the CereLink™ sensor allow for minimal invasive insertion & explantation without breakage of the transducer.

The CERELINK™ sensor is available in four different kit configurations and is designed for the use with CereLink™ ICP monitor, ICP Express and DirectLink™.

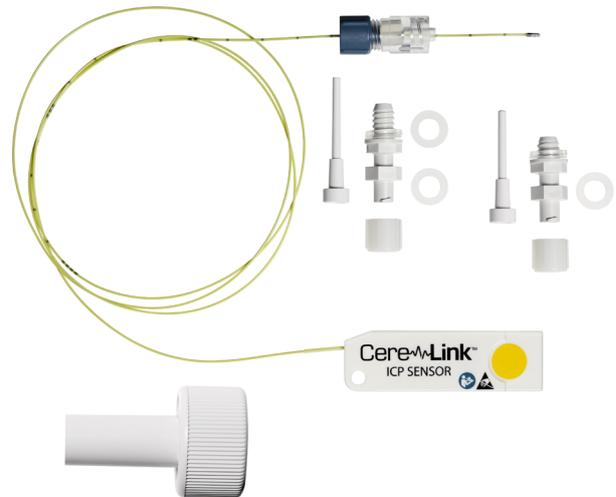
## CERELINK™ ICP SENSOR BASIC KIT

Reference	Description
826850	<p>Cerelink™ ICP Sensor Basic Kit – The kit can be used in both subdural and intraparenchymal pressure monitoring applications.</p> <p>Contains the following components:</p> <ul style="list-style-type: none"> <li>• CereLink™ ICP Sensor</li> <li>• 14 Gauge Touhy Needle with stylet</li> </ul>



## CERELINK™ ICP SENSOR PLASTIC SKULL BOLT KIT

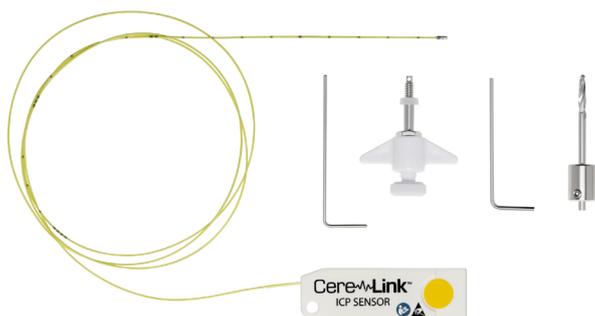
Reference	Description
826852	<p>CERELINK™ ICP SENSOR Plastic Skull Bolt Kit - The kit can be used in both subdural and intraparenchymal pressure monitoring applications.</p> <p>Contains the following components:</p> <ul style="list-style-type: none"> <li>• CERELINK™ ICP SENSOR</li> <li>• Adult and Pediatric Skull Bolt with Luer</li> <li>• Spacing Washers</li> <li>• Touhy-Borst Adapter (mounted on the catheter portion of the transducer)</li> <li>• Disposable ICP Handle</li> </ul>



# ICP Monitoring: CERELINK™ ICP SENSOR

## CERELINK™ ICP SENSOR METAL SKULL BOLT KIT

The kit can be used in both subdural and intraparenchymal pressure monitoring applications.



Reference	Description
826851	<p>CERELINK™ ICP SENSOR Metal Skull Bolt Kit Contains the following components:</p> <ul style="list-style-type: none"> <li>• Cerelink™ ICP sensor</li> <li>• Winged skull bolt with compression cap</li> <li>• Spacing washer</li> <li>• Obturator</li> <li>• 2.7mm Drill Bit</li> <li>• Hex wrench</li> </ul>

## CERELINK™ ICP SENSOR VENTRICULAR CATHETER KIT

CERELINK™ ICP SENSOR Ventricular Catheter Kit with ICP transducer.



Reference	Description
826854	<p>CERELINK™ ICP SENSOR Ventricular Catheter Kit Contains the following components:</p> <ul style="list-style-type: none"> <li>• 38 cm ventricular catheter with an integrated stylet</li> <li>• Intracranial pressure (ICP) sensor</li> <li>• 7-gauge tunneling trocar for placement</li> <li>• Catheter anchoring clip</li> </ul>

## CereLink™ & DirectLink™ Patient Monitor Interface Cables

Reference	Description	Picture
826881	PHILIPS	
826882	GE Dash	
826884	GE Datex-Ohmeda	
826880	DRAGER / SIEMENS Infinity	
826883	SPACELABS 6-pin	
826887	NIHON KODEN 5-pin	
826888	FUKUDA DENSHI DS-800	
826889	FUKUDA DENSHI DS-7000	
826880	Dräger/Siemens (7 pin) using adaptater IBO ADAPTATER CALBLE 10-07-PIN (REF 3368383) from Dräger	
826887	Nihon koden(12 pin) using adaptater JP-910P from Nihon Koden	

## LICOX® P<sub>t</sub>O<sub>2</sub> MONITOR

The Integra Licox® P<sub>t</sub>O<sub>2</sub> Monitor provides functionality for continuously monitoring oxygen partial pressure (P<sub>t</sub>O<sub>2</sub>) in brain tissue. Tissue temperature compensation, which is required for the calculation of P<sub>t</sub>O<sub>2</sub> measurements, may also be continuously measured with an accuracy of ± 0.1°C. To measure P<sub>t</sub>O<sub>2</sub> and temperature tissue compensation continuously, the Integra Licox® P<sub>t</sub>O<sub>2</sub> Monitor supports a series of minimally invasive probes that are inserted directly into the patient:

- The P<sub>t</sub>O<sub>2</sub> probe uses an electrochemical micro-cell for oxygen measurements.
- The temperature probe uses a thermocouple for temperature measurements.

### Key Functions of Monitor

- Touch screen interface for evaluating patient data and setting patient parameters
  - Physiological alarm that activates if the patient's P<sub>t</sub>O<sub>2</sub> value falls below a user-specified limit
    - Storage of patient's trend data for up to 5 days
    - Outputs for transferring patient data to a patient bedside monitor
  - Rechargeable battery that supplies power to monitor during patient transport
- Outputs for extracting patient data to remote media types via USB drive



Catalog No. LCXo2

System includes:

- Integra Licox® P<sub>t</sub>O<sub>2</sub> Monitor
  - Probe cables:
    - > BC10PA cable: Blue P<sub>t</sub>O<sub>2</sub> probe cable
    - > BC10PV cable: Blue P<sub>t</sub>O<sub>2</sub> probe extension cable
    - > BC10TA cable: Green Temperature probe cable
    - > BC10TV cable: Green Temperature probe extension cable
    - > PMOCAB cable: Blue combined P<sub>t</sub>O<sub>2</sub>/Temperature probe cable
    - > BC10PMO cable: Y-adapter cable for Blue combined P<sub>t</sub>O<sub>2</sub>/Temperature probe cable
    - > BC10R: Test set (Test smart card, test probe)
- PMIOMPM1 cable: Main cable for connecting Licox® P<sub>t</sub>O<sub>2</sub> monitor to patient bedside monitor
  - EXPORTCAB cable: USB-to-RS232 adapter cable
  - MONPWR cable: Power cable
  - BAT1001: Rechargeable Battery

Interface cable is to be ordered separately depending on the bedside monitor manufacturer model\*:

- ICPXX: Oxygen pressure adapter cable
- ICTXX: Temperature adapter cable

\*Please contact Integra for the correct adapter cable product code

Probes only

**LICOX® OXYGEN PROBE**

Probe's tube Diameter at tip	0.8 mm
Probe's tube Length	150 mm
Oxygen sensitive area	13 mm <sup>2</sup>
Introducer kit compatibility	IM1/ IM2EU/IM3EU
Storage condition	Between 2° and 10°C

Catalog No. CC1SB

Supplied sterile



**LICOX® TEMPERATURE PROBE**

Probe's tube Diameter at tip	0.8 mm
Probe's tube Length	126 mm
Probe Type	Thermocouple Type K
Introducer kit compatibility	IM3EU

Catalog No. C8B

Supplied sterile

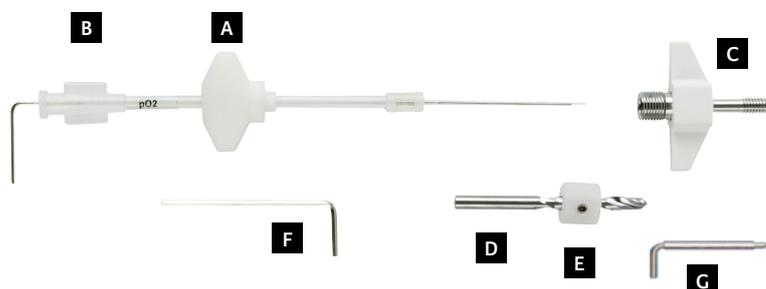


## Introducer Kits only

## LICOX® INTRODUCER KIT, SINGLE LUMEN

## The kit includes:

- A Compression cap
- B Introducer
- C Bolt
- D  $\varnothing$  3.8 mm twist drill bit
- E Adjustable drill safety stop with set screw
- F Hex wrench
- G Stylet



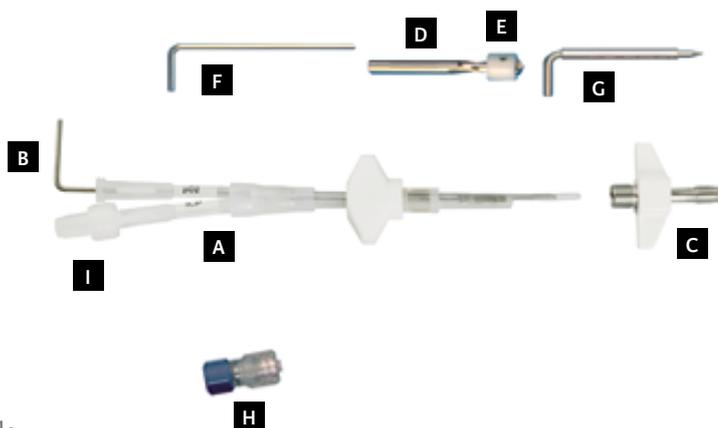
Supplied sterile

Catalog No. IM1

## LICOX® INTRODUCER KIT, DOUBLE LUMEN

## The kit includes:

- A Dual channel introducer with luer connectors
- B Guide wire
- C Bolt
- D  $\varnothing$  5.3 mm twist drill bit
- E Adjustable drill safety stop with set screw
- F Hex wrench
- G Stylet
- H Compression fitting for Codman® ICP Microsensor® Catheter
- I Removable ICP lumen obturator



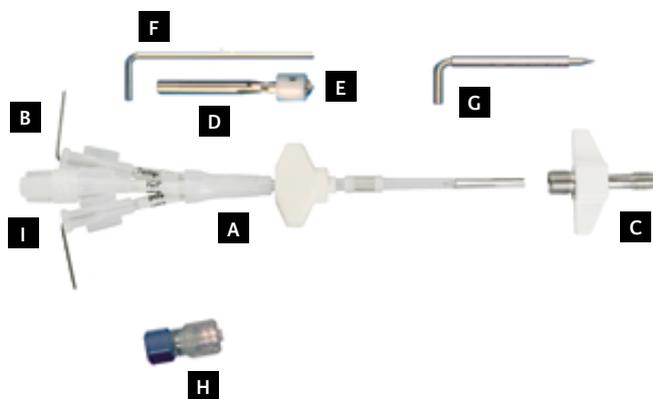
Supplied sterile

Catalog No. IM2EU

## LICOX® INTRODUCER KIT, TRIPLE LUMEN

## The kit includes:

- A Triple channel introducer with luer connectors
- B Guide wires (x2)
- C Bolt
- D  $\varnothing$  5.3 mm twist drill bit
- E Adjustable drill safety stop with set screw
- F Hex wrench
- G Stylet
- H Compression fitting for Codman® ICP Microsensor® Catheter
- I Removable ICP lumen obturator



Supplied sterile

Catalog No. IM3EU

Introducer Kits only

**LICOX® COMPLETE BRAIN PROBE KIT, SINGLE LUMEN**

The kit includes:

Oxygen probe	CC1SB
Single Lumen Introducer	IM1

Storage condition: between 2° and 10°C

Supplied sterile

Catalog No. IM1S



**LICOX® COMPLETE BRAIN PROBE KIT, DOUBLE LUMEN**

The kit includes:

Oxygen probe	CC1SB
Double Lumen Introducer	IM2EU

Storage condition: between 2° and 10°C

Supplied sterile

Catalog No. IM2SEU



**LICOX® COMPLETE BRAIN PROBE KIT, TRIPLE LUMEN**

The kit includes:

Oxygen probe	CC1SB
Triple Lumen Introducer	IM3EU

Storage condition: between 2° and 10°C

Supplied sterile

Catalog No. IM3SEU



**LICOX® COMPLETE BRAIN PROBE KIT WITH TEMPERATURE PROBE, TRIPLE LUMEN**

The kit includes:

Oxygen probe	CC1SB
Temperature probe	C8B
Triple Lumen Introducer	IM3EU

Storage condition: between 2° and 10°C

Supplied sterile

Catalog No. IM3STEU



## Combined Probe only and Introducer kits

## LICOX® COMBINED OXYGEN AND TEMPERATURE PROBE

**The kit includes:**

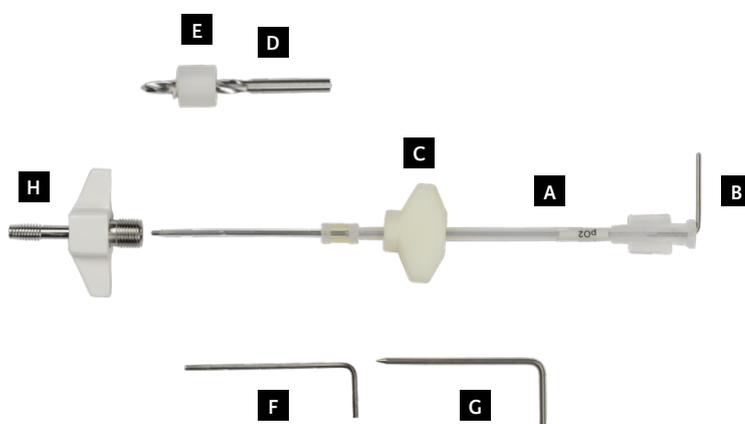
Probe's tube Diameter at probe tip	0.65mm
Probe's tube Length	460 mm
Oxygen sensitive area	18 mm <sup>2</sup>
Compatibility with	IP1/IP2/VK52

Storage condition: between 2° and 10°C

Supplied sterile

Catalog No. CC1P1

## LICOX® SINGLE LUMEN INTRODUCER KIT

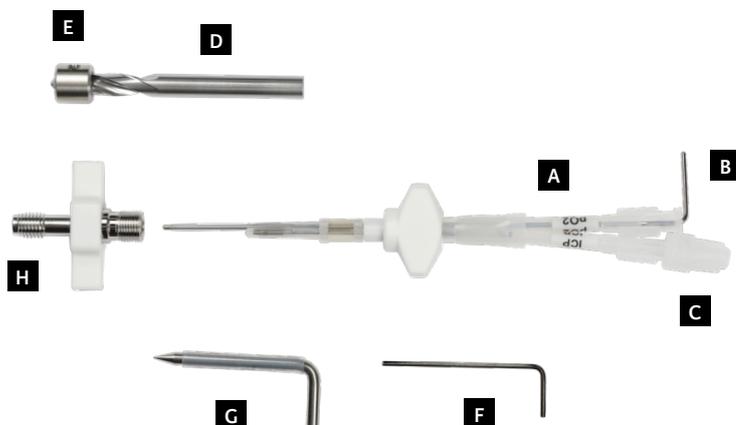
**The kit includes:**

A	Bolt with single lumen introducer
B	Guide wire
C	Compression cap
D	Drill bit diam. 3.8 mm
E	Adjustable drill stop with set screw
F	Hex wrench for adjustment of drill stop
G	Stylet
H	Bolt

Supplied sterile

Catalog No. IP1

## LICOX® DOUBLE LUMEN INTRODUCER KIT

**The kit includes:**

A	Bolt with double lumen introducer for Licox® combined oxygen and temperature probe
B	Guide wire
C	Compression cap fitting for ICP catheter
D	Drill bit diam. 6.3 mm
E	Adjustable drill stop with set screw
F	Hex wrench for adjustment of drill stop
G	Stylet
H	Bolt

Supplied sterile

Catalog No. IP2

Combined Probe with Bolted and Tunneling Introducer kits

**LICOX® COMPLETE BRAIN PROBE KIT, SINGLE LUMEN**

The kit includes:

Combined Oxygen and Temperature Probe	CC1P1
Single Lumen Introducer Kit	IP1

Storage condition: between 2° and 10°C

Supplied sterile

Catalog No. IP1P



**LICOX® COMPLETE BRAIN PROBE KIT, DOUBLE LUMEN**

The kit includes:

Combined Oxygen and Temperature Probe	CC1P1
Double Lumen Introducer Kit	IP2

Storage condition: between 2° and 10°C

Supplied sterile

Catalog No. IP2P



**LICOX® COMPLETE BRAIN TUNNELING PROBE KIT**

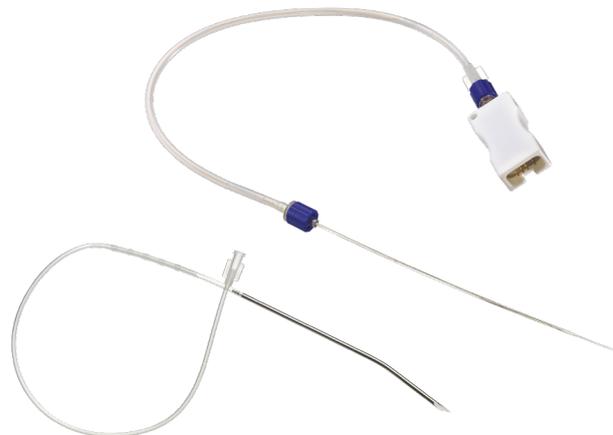
The kit includes:

Combined Oxygen and Temperature Probe	CC1P1
Parenchymal Probe Guide	VK52

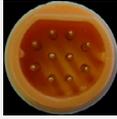
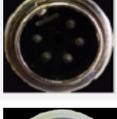
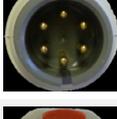
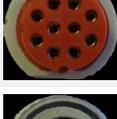
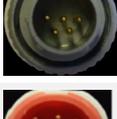
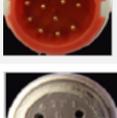
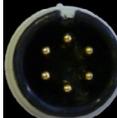
Storage condition: between 2° and 10°C

Supplied sterile

Catalog No. IT2EU



**LICOX<sup>®</sup> - PATIENT MONITOR INTERFACE CABLES**

Adapter Cable	Picture
ICP16	
ICP17	
ICP18	
ICP19	
ICP22	
ICP33	
ICP39	
ICP46	
ICP60	
ICP80	
ICP81	
ICP90	
ICTo1	
ICT39	

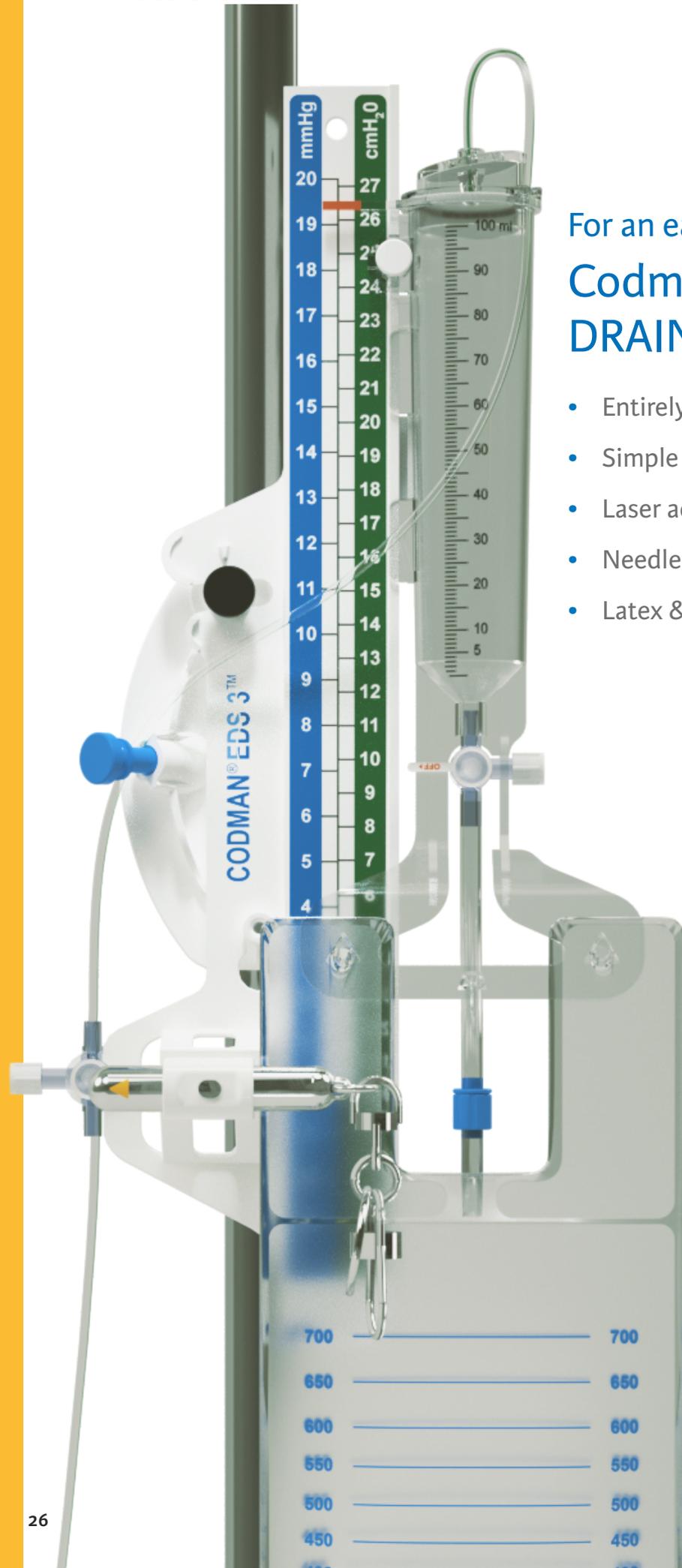




# **Therapy & Infection Prevention - External Drainage**

For an easy-to-use solution, choose the  
**Codman® EDS 3™ EXTERNAL  
DRAINAGE SYSTEM**

- Entirely disposable, complete system
- Simple set up
- Laser accuracy
- Needle-free access
- Latex & PVC free



The Codman® EDS 3™ External Drainage System was developed with input from more than 200 nurses and physicians.

- High-visibility pressure scales in mmHg (-3 to 20) and cmH<sub>2</sub>O (-5 to 27)
- Drip Chamber with hydrophobic & haemorepellent filter marked for 0-100ml capacity, funnel bottom, and sampling site (outlet)
- Improved, larger tubing connecting the drip chamber and the drainage bag
- Reusable Leveling Device incorporates bubble level with laser lamp
- Pressure-resistant striped CSF tubing line
- Redesigned drainage bag with needle-free access port

Pozicija Nr 25

Reference	Description
821730C	Codman® External Drainage System EDS 3™ with ventricular catheter
821731C	CODMAN® External Drainage System EDS 3™ No Ventricular Catheter
821732C	EDS 3™ Collection Bag Kit - 5 Bags
821733	EDS 3™ Leveling Device

## PANEL MOUNT EXTERNAL DRAINAGE SYSTEMS

### ACCUDRAIN™ EXTERNAL CSF DRAINAGE SYSTEM

- Green striped patient line
- Two needleless sampling sites
- Anti-microbial hydrophobic vent
- Funnel-shaped 75 ml graduated burette
- Patient-line stopcock
- Four-way high flow burette stopcock
- One-hand Squeeze-Lok™ tabs for easy and secure burette height adjustment
- Line level device
- 700 ml drainage bag
- MR Compatibility Status: Please refer to the Directions for Use of this product for further information.

Reference	Description
INS8400	Without anti-reflux valve
INS8401	With anti-reflux valve

Latex free  
Sterile, packaged individually



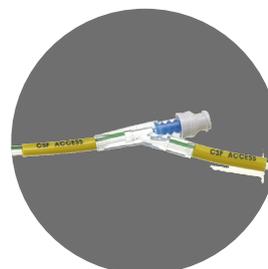
Squeeze-Lok™ tabs for adjusting burette level



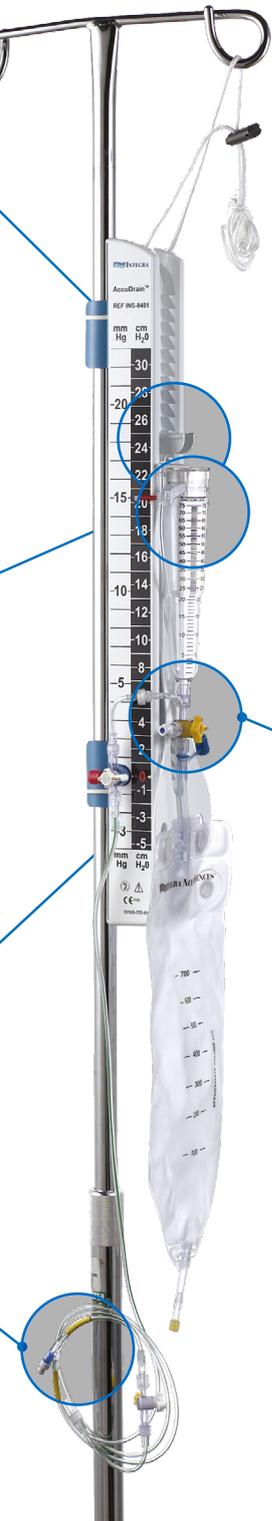
Antimicrobial hydrophobic filter



Burette has funnel-shaped bottom with large bore outlet and stopcock



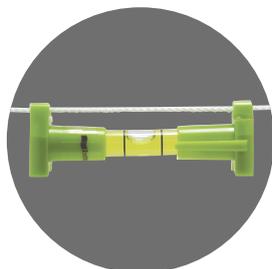
Yellow label on access site



Double action lever



Needleless sampling site



Level included in every system



INS8700

Drainage Bag compatible with AccuDrain™ External CSF Drainage System:

Reference	Description
INS8700	<ul style="list-style-type: none"> <li>• 700 ml Replacement Drainage Bag</li> <li>• Anti-Reflux valve</li> </ul>

Latex free  
Sterile, 5 units per box

## PANEL MOUNT EXTERNAL DRAINAGE SYSTEMS

### HERMETIC™ PLUS EXTERNAL CSF DRAINAGE SYSTEM

- Green striped pressure monitoring tubing patient line
- Two SmartSite® needleless sampling site
- Anti-microbial hydrophobic vent
- 50 ml graduated burette
- Patient-line stopcock
- Four-way high flow burette stopcock
- Velcro® straps & large suspension cord locking mechanism
- Line level device
- 700 ml drainage bag
- MR Compatibility Status: Please refer to the Directions for Use of this product for further information.

Reference	Description
INS8301	With anti-reflux valve in patient line

Sterile, packaged individually

Drainage Bag compatible with Hermetic™ Plus External CSF Drainage System:

Reference	Description
INS8700	<ul style="list-style-type: none"> <li>• 700 ml Replacement Drainage Bag</li> <li>• Anti-Reflux valve</li> </ul>

Latex Free

Sterile, 5 units per box



INS8700



INS8301

# POLE MOUNT EXTERNAL CSF DRAINAGE SYSTEMS

## EXTERNAL CSF DRAINAGE SYSTEM



- Two SmartSite® needleless sampling site
- Anti-Microbial hydrophobic vent
- 50 ml graduated burette
- Patient and burette stopcocks
- 700 ml drainage bag
- Product not tested in MR environment
- Sterile, packaged individually
- Anti-reflux valve bonded distal to patient stopcock

Reference	Description
INS8600	<ul style="list-style-type: none"> <li>• Large-bore blue striped tubing patient line</li> <li>• In-line anti-reflux valve</li> </ul>
INS8601	<ul style="list-style-type: none"> <li>• Green-striped pressure tubing patient line</li> <li>• Removable anti-reflux valve distal to panel mount stopcock</li> </ul>

Sterile, packaged individually

Drainage Bag compatible with AccuDrain™ External CSF Drainage System:

Reference	Description
INS8700	<ul style="list-style-type: none"> <li>• 700 ml Replacement Drainage Bag</li> <li>• Anti-Reflux valve</li> </ul>

Latex free  
Sterile, 5 units per box



## MONITORR ICP™ POLE MOUNT ASSEMBLY

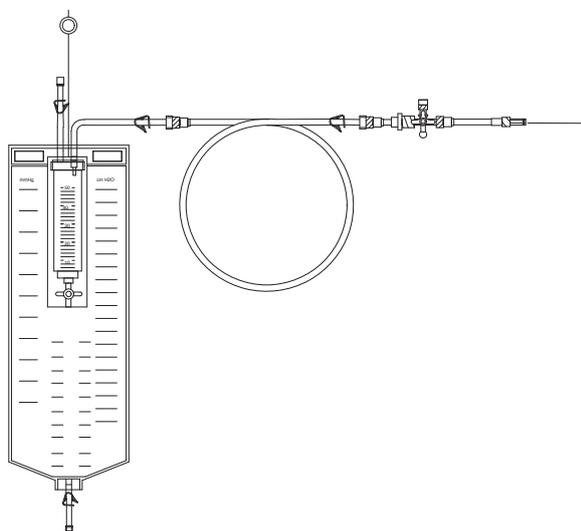
- Graduated rail measurements in cmH<sub>2</sub>O and mmHg scales
- Extendable antenna

Reference	Description
INS305	<ul style="list-style-type: none"> <li>• Compatible with Hermetic™ External CSF Drainage System INS8600 &amp; INS8601</li> </ul>

Latex free  
Packaged individually



## BASIC CSF DRAINAGE SYSTEM - VENTRICULAR DRAINAGE SYSTEM



- Patient line with clamp and self-sealing injection/sampling port
- Four-way stopcock
- 50 ml rigid drip chamber
- 30 cmH<sub>2</sub>O and 20mmHg height scales
- Removable one-way check valve

**Reference**

NL850500V

Sterile, packaged individually



## INFECTION PREVENTION

# *BACTISEAL® EVD prevents colonisation by*

# *gram*

For the NCC specialist who wants to control infection rates<sup>1</sup> in their unit, BACTISEAL® is an **impregnated anti-microbial catheter**:

- that provides constant dual-drug protection from Rifampicin & Clindamycin
- that prevents catheter colonization up to 28 days<sup>2</sup>



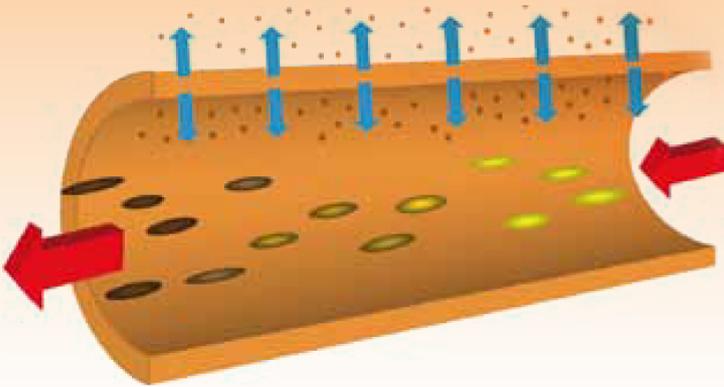
*BACTISEAL® EVD kills 100% of target organisms and delivers reduced EVD infection rates.<sup>3</sup>*

1. Harrop, J.S., et al., Impact of a standardized protocol and antibiotic-impregnated catheters on ventriculostomy infection rates in cerebrovascular patients. *Neurosurgery*, 2010. 67(1): p. 187-91.

2. Bayston, R. and E. Lambert, Duration of protective activity of cerebrospinal fluid shunt catheters impregnated with antimicrobial agents to prevent bacterial catheter-related infection. *J Neurosurg*, 1997. 87(2): p. 247-51.

3. Bayston R. Ashraf W, Bhundia C. Mode of action of an antimicrobial biomaterial for use in hydrocephalus shunts. *J. Antimicrobial Chemotherapy* vol. 53, 778-782, March 2004

*positive bacteria.*



## CODMAN BACTISEAL™ EVD CATHETER

The Anti-microbial Technology Demanded for CSF Drainage. A technically innovative anti-microbial impregnated catheter for external CSF drainage which reduces gram positive bacteria on catheter tube surfaces. Treated with the patented BACTISEAL Advanced Impregnation Process

- Reducing the potential for bacterial colonization on inner lumen and exterior catheter wall
- Soft, flexible, pliable silicone catheters
- Depth markings for accurate placement
- Requires no technique change
- Available with either normal or large drainage lumen
- Available 'clear' or opaque'.

Reference	Description
821745	BACTISEAL EVD Catheter Set Depth Markings 3cm to 15cm Inner Lumen Diameter 1.5mm
821749	BACTISEAL EVD Catheter Set Depth Markings 3cm to 15cm Inner Lumen Diameter 1.9mm
821750	CLEAR BACTISAL EVD Catheter Set Depth Markings 3cm to 15cm Inner Lumen Diameter 1.9mm



82-1745 (Diameter: 1.5mm)



82-1749 (Diameter: 1.9mm)



82-1750 (Clear; Diameter: 1.9mm)



Ventricular Drainage Catheters

**HERMETIC™ VENTRICULAR CATHETER SET**

Reference	Description
INS8220	<ul style="list-style-type: none"> <li>• One (1) 35 cm barium impregnated ventricular catheter OD: 2.7 mm x ID: 1.3 mm</li> <li>• One (1) 38 cm stainless steel stylet</li> <li>• One (1) luer connector</li> <li>• One (1) suture collar</li> <li>• One (1) 15 cm 10 Fr. trocar</li> <li>• One (1) yellow male end cap</li> </ul>

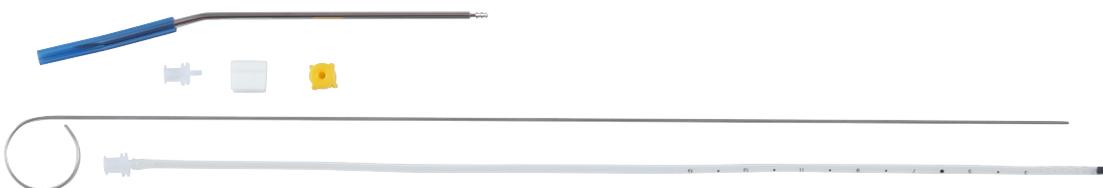
Latex Free  
Sterile, packaged individually



**HERMETIC™ VENTRICULAR SMALL CATHETER SET**

Reference	Description
INS4000	<ul style="list-style-type: none"> <li>• One (1) 20 cm barium striped ventricular catheter OD: 2.5 mm x ID: 1.3 mm</li> <li>• One (1) 26 cm stainless steel stylet</li> <li>• One (1) luer connector</li> <li>• One (1) suture collar</li> <li>• One (1) 15 cm 10 Fr. trocar</li> <li>• One (1) yellow male end cap</li> </ul>

Latex Free  
Sterile, packaged individually

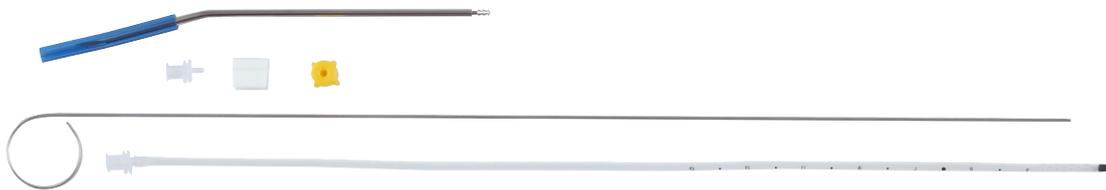


Ventricular Drainage Catheters

**HERMETIC™ LARGE STYLE VENTRICULAR CATHETER SET**

Reference	Description
INS4500	• One (1) 35 cm barium striped ventricular catheter OD: 3 mm x ID: 1.6 mm
	• One (1) 38 cm stainless steel stylet
	• One (1) luer connector
	• One (1) suture collar
	• One (1) 15 cm 10 Fr. trocar
	• One (1) yellow male end cap

Latex Free  
Sterile, packaged individually



**TRAUMACATH™ VENTRICULAR CATHETER SET**

Reference	Description
INS8420	• One (1) 35 cm barium striped ventricular catheter OD: 3.3 mm x ID: 1.9 mm
	• One (1) 38 cm stainless steel stylet
	• One (1) luer connector
	• One (1) suture collar
	• One (1) 15 cm 10 Fr. trocar
	• One (1) yellow male end cap
	• Large holes (1.8mm)

Latex Free  
Sterile, packaged individually



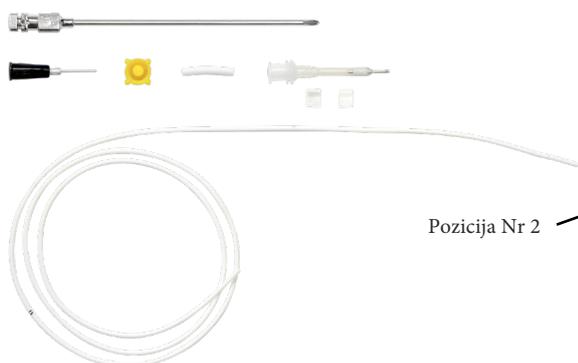
**EXTERNAL DRAINAGE VENTRICULAR SET**

Reference	Description
821735	clear CSF ventricular catheter (1.5mm inner Lumen diameter)

## Lumbar Drainage Catheters

# LUMBAR DRAINAGE CATHETERS

## HERMETIC™ LUMBAR CATHETER CLOSED TIP

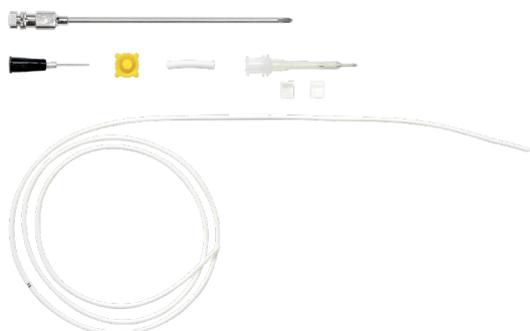


Pozicija Nr 2

Reference	Description
	<ul style="list-style-type: none"> <li>• One (1) 80 cm closed-tip lumbar catheter OD: 1.5 mm x ID: 0.7 mm</li> <li>• One (1) 14-gauge x 8.8 cm Tuohy needle</li> <li>• One (1) flexible luer adapter</li> <li>• Two (2) suture collars</li> <li>• One (1) Veni-Gard® Dressing</li> <li>• One (1) strain relief tubing</li> <li>• One (1) PTFE coated guide wire</li> <li>• One (1) 22-gauge blunt needle</li> <li>• One (1) yellow male end cap</li> </ul>
INS5010	

Latex Free  
Sterile, packaged individually

## HERMETIC™ LUMBAR CATHETER OPEN TIP



Reference	Description
	<ul style="list-style-type: none"> <li>• One (1) 80 cm open-tip lumbar catheter OD: 1.5 mm x ID: 0.7 mm</li> <li>• One (1) 14-gauge x 8.8 cm Tuohy needle</li> <li>• One (1) flexible luer adapter</li> <li>• Two (2) suture collars</li> <li>• One (1) Veni-Guard® Dressing</li> <li>• One (1) strain relief tubing</li> <li>• One (1) 22-gauge blunt needle</li> <li>• One (1) yellow male end cap</li> </ul>
INS8330	

Latex Free  
Sterile, packaged individually

Accessories

**REPLACEMENT DRAINAGE**

Reference	Description
821732C	• EDS 3™ Collection Bag Kit 700 ml - 5 Bags

Reference	Description
INS8700	• 700 ml Drainage Bag • Anti-Reflux valve

Latex Free  
Sterile, 5 units per box









# Indications and Contraindications

## **CODMAN® Cranial Hand Drill and Cranial Drill Bits**

### **Indications**

The CODMAN Cranial Hand Drill and Cranial Drill Bits are indicated when a craniotomy is required for placement of an intracranial pressure (ICP) monitoring device and/or cerebrospinal fluid drainage device.

### **Contraindications**

This device is not designed, sold, or intended for any use except as indicated.

## **DirectLink™ ICP Module**

### **Indications**

The intended use of the DirectLink Module is to enable the connection of Codman intracranial pressure sensors to an available invasive blood pressure input channel on select commercially available third party patient bedside monitor systems.

### **Contraindications**

This device is not designed, sold or intended for use except as indicated

## **Cerelink™ ICP Monitor**

### **Indications**

The ICP Monitor is intended for use as an interface between compatible strain gauge type pressure transducers and standard physiological pressure monitoring systems. The ICP Monitor is also intended for use as an independent pressure monitor for displaying the mean, systolic and diastolic numeric values of a physiologic pressure waveform in the absence of an external patient monitor.

### **Contraindications**

The ICP Monitor is contraindicated for use in a Magnetic Resonance (MR) environment. Refer to the ICP Sensor IFU for MR environment use. Use of the kit is indicated when direct intracranial pressure (ICP) monitoring is required. The kit is indicated for use in both subdural and intraparenchymal pressure monitoring applications.

## **Cerelink™ ICP Sensors**

### **Indications**

Use of the kit is indicated when direct intracranial pressure (ICP) monitoring is required. The kit is indicated for use in both sub-

dural and intraparenchymal pressure monitoring applications. Use of the ICP Sensor Ventricular Catheter Kit is indicated when direct intraventricular pressure monitoring is required. The kit is indicated for use in ICP monitoring and cerebrospinal fluid (CSF) drainage applications.

### **Contraindications**

Use of the skull bolt is contraindicated in children less than one year of age. This kit is not designed, sold, or intended for any use except as indicated. This kit is not designed, sold, or intended for use as a therapeutic device. Ventriculostomy is contraindicated in patients with coagulopathy, or active infection in the area of the catheter. Use of the Ventricular Catheter is contraindicated in children less than one year of age. This kit is not designed, sold, or intended for any use except as indicated.

## **Patient Monitor Interface Cables**

### **Indications**

The Patient Monitor Interface Cable is intended for use as a connecting cable between DirectLink™ ICP Module or CereLink™, and selected patient monitors available from third party suppliers.

### **Contraindications**

This device is not designed, sold or intended for use except as indicated.

## **Licox® P<sub>t</sub>O<sub>2</sub> Monitor LCXo2 & Accessories**

### **Indications**

The Integra® Licox® P<sub>t</sub>O<sub>2</sub> Monitor measures oxygen partial pressure (P<sub>t</sub>O<sub>2</sub>) and temperature in brain tissue and these parameters are used together as an aid in the determination of the perfusion status of cerebral tissue local to sensor placement. Monitor values are relative within an individual, and should not be used as the sole basis for determining a diagnosis or therapy. It is intended to provide data additional to that obtained by current clinical practice in cases where hypoxia or ischemia are a concern.

### **Contraindications**

The Integra Licox P<sub>t</sub>O<sub>2</sub> Monitor and its accessories are contraindicated for use in a Magnetic Resonance (MR) environment.

## Licox<sup>®</sup> IM1S, IM2SEU, IM3STEU, IP1P, IP2P, IT2EU (included CC1SB, C8B, CC1P1, IM1, IM2EU, IM3EU, IM3SEU, IP1, IP2 and VK52)

### Indications

The Licox Brain Oxygen Monitoring System measures intracranial oxygen and temperature and is intended as an adjunct monitor of trends of these parameters, indicating the perfusion status of cerebral tissue local to sensor placement. Licox System values are relative within an individual, and should not be used as the sole basis for decisions as to diagnosis or therapy. It is intended to provide data additional to that obtained by current clinical practice in cases where hypoxia or ischemia are a concern.

### Contraindications

Licox products are not intended for any use other than that indicated. Contraindications for device insertion into the body apply, e.g. coagulopathy and/or susceptibility to infections or infected tissue. A platelet count of less than 50 000 per  $\mu\text{l}$  is considered a contraindication. This value may differ according to different hospital protocols.

## Licox<sup>®</sup> Probe Cables

### Indications

The Licox probe cables and probe extension cables are accessories for the Integra Licox Monitor range. The test set (BC10R) is intended to be used when testing and maintaining the Licox monitor. The procedures are intended to be performed by the hospital's biomedical engineering staff.

### Contraindications

The Integra Licox monitor and its accessories are contraindicated for use in a Magnetic Resonance (MR) environment.

## EDS3

### Indications

Use of the Codman<sup>®</sup> EDS 3<sup>™</sup> CSF External Drainage System (EDS 3) is indicated for draining cerebrospinal fluid (CSF) and other fluids of similar physical characteristics as a means of reducing intracranial pressure and CSF volume.

### Contraindications

Codman<sup>®</sup> EDS 3<sup>™</sup>: Use of this device is contraindicated if scalp infection is present. Use of this device is contraindicated for patients receiving anticoagulants or for patients who are known to have a bleeding diathesis. Use of this device is contraindicated where 24-hour supervision from trained personnel is not available.

## AccuDrain<sup>®</sup>

### Indications

Draining and monitoring of Cerebrospinal Fluid (CSF) flow from the ventricles of the brain or lumbar subarachnoid space is indicated in selected patients to: • Reduce Intracranial Pressure (ICP) • Monitor Intracranial Pressure (ICP) • Monitor Cerebrospinal Fluid (CSF) • Provide temporary CSF drainage.

### Contraindications

This device is not designed, sold, or intended for use except as indicated. The External Drainage System is contraindicated in the following: Anticoagulation therapy, Coagulation disorders, Untreated scalp infections. System use is contraindicated where trained personnel are not available to supervise drainage and monitoring on a 24-hour a day basis.

## Hermetic Plus<sup>™</sup> External CSF Drainage Systems

### Indications

Draining and monitoring of Cerebrospinal Fluid (CSF) flow from the lateral ventricles of the brain or lumbar subarachnoid space is indicated in selected patients to: • Reduce Intracranial Pressure (ICP) • Monitor Intracranial Pressure (ICP) • Monitor Cerebrospinal Fluid (CSF) • Provide temporary CSF drainage for patients with infected hydrocephalic shunts. Monitoring of Intracranial Pressure (ICP) is usually performed in selected patients with: • Severe head injury • Subarachnoid hemorrhage • Reyes syndrome or similar encephalopathies • Hydrocephalus • Intracranial hemorrhage • Under physician supervision and discretion when drainage is to be used as a therapeutic maneuver.

Monitoring can also be used to evaluate the status pre- and postoperatively for space-occupying lesions.

### Contraindications

This device is not designed, sold, or intended for use except as indicated. Lumbar drainage and/or lumbar pressure monitoring should not be used in the presence of: non-communicating hydrocephalus; a large intracranial mass, tumor or hematoma; and in patients who have demonstrated a blockage of cerebrospinal fluid pathways due to trauma, tumor, hematoma or other large intracranial mass. Lumbar catheters are contraindicated in cases of spinal abnormalities that would prevent free insertion of the lumbar catheter. Lumbar catheters are contraindicated in infants where the lower end of the spinal cord has not yet migrated to its cephalad L1-2 position. In view of the marked narrowing of the lumbosacral canal in achondroplastic patients, a lumbar catheter in the subarachnoid space is contraindicated.

## Pole Mount Assembly and Accessories

### Indications

The Pole Mount Assembly provides support and alignment for External Ventricular Drainage (EVD) Systems. Draining and monitoring of CSF flow from the lateral ventricles or lumbar subarachnoid space is indicated in selected patients to:

- Reduce Intracranial Pressure (ICP)
- Monitor Intracranial Pressure (ICP)
- Monitor Cerebral Spinal Fluid (CSF)
- Provide temporary CSF drainage for patients with infected hydrocephalic shunts.

Monitoring of Intracranial Pressure (ICP) is usually performed in selected patients with:

- Severe head injury
- Subarachnoid hemorrhage
- Reyes syndrome or similar encephalopathies
- Hydrocephalus
- Intracranial hemorrhage
- Under physician supervision and discretion when drainage is to be used as a therapeutic maneuver.

Monitoring can also be used to evaluate the status pre-and postoperatively for space-occupying lesions.

### Contraindications

This device is not designed, sold, or intended for use except as indicated.

## Ventricular Drainage System

### Indications

The major indication for external drainage is the management of hydrocephalic shunt infections. If an internal shunt is not indicated, treatment of other cerebral conditions such as preoperative or post-operative pressure monitoring may also require external drainage of CSF to control increased intracranial pressure.

### Contraindications

This device is not designed, sold, or intended for use except as indicated.

## Bactiseal®

### Indications

The Codman® BACTISEAL® EVD Catheter and Codman® BACTISEAL® Clear EVD Catheter Sets (BACTISEAL® EVD Catheters), are indicated for gaining access to the ventricles of the brain and can be used with dimensionally compatible devices for draining cerebrospinal fluid (CSF) and other fluids of similar physical characteristics as a means of reducing intracranial pressure and CSF volume.

### Contraindications

Bactiseal®: Do not implant this device in patients with active infections, such as ventriculitis meningitis, or skin infections at or near the implantation site. Treat the infection before implanting this device. Do not implant this device in patients with known

hypersensitivity to rifampin or clindamycin hydrochloride. Use of this device is contraindicated in patients receiving anticoagulants or known to have a bleeding diathesis.

## HERMETIC™ External Drainage Catheters

### Indications

External ventricular drainage catheters are indicated for drainage and monitoring of CSF from the lateral ventricles of the brain. The catheters may be used to reduce intracranial pressure (ICP), to monitor ICP, to monitor CSF and in the management of hydrocephalic shunt infections. External lumbar drainage catheters are indicated for drainage and monitoring of CSF from the lumbar subarachnoid space.

### Contraindications

These devices are not designed, sold or intended for use except as indicated. Lumbar drainage and/or lumbar pressure monitoring should not be used in the presence of: non-communicating hydrocephalus; a large intracranial mass, tumor or hematoma; or in patients who have demonstrated a blockage of cerebrospinal fluid path ways due to trauma, tumor, hematoma or other large intracranial mass. Lumbar catheters are contraindicated in cases of spinal abnormalities that would prevent free insertion of the lumbar catheter. Lumbar catheters are contraindicated in infants where the lower end of the spinal cord has not yet migrated to its cephalad L1-2 position. In view of the marked narrowing of the lumbosacral canal in achondroplastic patients, a lumbar catheter in the subarachnoid space is contraindicated.

## CODMAN® EDS 3™ Clear Ventricular CSF Catheter

### Indications

Use of the CODMAN EDS 3 Clear Ventricular CSF Catheter (EDS 3 Ventricular Catheter) is indicated for gaining access to the ventricles of the brain. It is designed for use with dimensionally compatible devices for draining cerebrospinal fluid (CSF) and other fluids of similar physical characteristics as a means of reducing intracranial pressure and CSF volume.

### Contraindications

This device is not designed, sold, or intended for use except as indicated. Use of this device is contraindicated if scalp infection is present. It is contraindicated in patients receiving anticoagulants or who are known to have a bleeding diathesis.



**Index**

826617.....	8
821730C.....	27
821731C.....	27
821732C.....	27, 40
821733.....	27
821735.....	38
821745.....	36
821749.....	36
821750.....	36
826607.....	9
826608.....	9
826609.....	9
826617.....	8
826651.....	15
826654.....	15
826820.....	12
826822.....	12
826824.....	12
826828.....	13
826840.....	13
826845.....	12
826850.....	14
826852.....	14
826880.....	16
826881.....	16
826882.....	16
826883.....	16
826884.....	16
826887.....	16
826888.....	16
826889.....	16

**B**

BAT1001.....	17
BC10PA.....	17
BC10PMO.....	17
BC10PV.....	17
BC10R.....	17
BC10TA.....	17
BC10TV.....	17

**C**

C8B.....	18, 20
CC1P1.....	21, 22
CC1SB.....	18, 20

**E**

EXPORTCAB.....	12, 17
----------------	--------

**I**

ICP16.....	23
ICP17.....	23
ICP18.....	23
ICP19.....	23
ICP22.....	23
ICP33.....	23
ICP39.....	23
ICP46.....	23
ICP60.....	23
ICP80.....	23
ICP81.....	23
ICP90.....	23
ICPXX.....	17
ICT01.....	23
ICT39.....	23
ICTXX.....	17
IM1.....	18, 19, 20
IM1S.....	20
IM2 EU.....	18, 19, 20
IM2S.....	20
IM3.....	19
IM3 EU.....	18
IM3EU.....	20
IM3SEU.....	20
INS305.....	31
INS4000.....	31, 37
INS4500.....	38
INS5010.....	39
INS8220.....	31, 37
INS8301.....	30
INS8330.....	39
INS8400.....	28
INS8401.....	28
INS8420.....	38
INS8600.....	31
INS8601.....	31
INS8700.....	29, 30, 31, 40
IP1.....	21, 22
IP1P.....	22
IP2.....	21, 22
IP2P.....	22
IT2EU.....	22

**M**

MONPWR.....	17
-------------	----

**N**

NL850500V.....	32
----------------	----

**P**

PMIOMPM1.....	17
PMOCAB.....	17







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