Is ICP more than a number?

Codman[®] CereLink[™]

ICP Monitoring Solution **Discover the Unseen**

Codman[®] CereLink[™] ICP Monitoring Solution

No consensus on optimal ICP Threshold^{1,2,3,4,5}



An ICP-alarm alone may not capture the whole picture



Courtesy Prof Citerio, University of Bicocca, Milan, Italy



ICP data from 22 neuro-Intensive care units in 11 European countries show correlation between ICP Burden & Worse outcome⁶.



19% of episodes linked with worse outcome were between 15 - 20 mmHg⁶



*Each point in the graph refers to a number of episodes of ICP (above a certain ICP threshold (X-axis) & above a certain duration threshold (Y-axis)). Red = number of ICP episodes are associated with worse outcome (GOS 1-3). Blue = number of ICP episodes are associated with better outcome (GOS 4-5).

Understand the individual ICP Burden with CereLink[™]'s analytics.

Time above threshold & Histograms

visualize time of ICP above a user set threshold & time at specific ICP intervals.



Pressure Time Dose (PTD)

is the calculated area-under-curve (AUC) above a defined ICP value within a chosen time interval.





DOCUMENT FOR USE IN EUROPE, MIDDLE-EAST and AFRICA ONLY

▼ Scan to learn more ▼



Ordering Information:

	Product Code	Description	Picture		CereLink™ Patient Monitor Interface Ca		ıbles
	826820	CereLink [™] ICP Monitor	10.1 8		Product Code	Description	Picture
					826881	PHILIPS	
	826850 826851	CereLink [™] ICP Sensor Basic Kit CereLink [™] ICP Metal Bolt Kit					
					826882	GE Dash	The second s
					826884	GE Datex-Ohmeda	
	826852	CereLink [™] ICP Plastic Bolt Kit			826880	DRAGER / SIEMENS Infir	nity
	826854	CereLink [™] ICP Ventricular Kit			876882	SPACELARS 6-nin	-
					020005	SINCLENDS 0 pill	
					826887	NIHON KODEN 5-pin	
	and the second						
				-	826888	FUKUDA DENSHI DS-80	°
-	-		-				
					826889	FUKUDA DENSHI DS-700	00
			-				
					CorolinkTM ICD	Monitor Tachnical chooif	instinue?
					Size: H 165 mm x W 222 mm x D 50 mm		Screen diagonale:
					Weight: 15 Kg		18 cm TFT LCD Battery autonomy: 3 h
							Succey autonomy. 5 m

- Carney N et al. Guidelines for the Management of Severe Traumatic Brain Injury, Fourth Edition, Neurosurgery, Volume 80, Issue 1, January 2017, Pages 6–15, https://doi.org/10.1227/NEU.00000000001432
- Marshall, L. F., Smith, R. W., & Shapiro, H. M. (1979). The outcome with aggressive treatment in severe head injuries, Journal of Neurosurgery, 50(1), 20-25. Retrieved Mar 10, 2020, from https://thejns.org/view/journals/j-neurosurg/50/1/article-p20.xml
- Narayan, R. K., Kishore, P. S., Becker, D. P., Ward, J. D., Enas, G. G., Greenberg, R. P., Da Silva, A., Lipper, M. H., Choi, S. C., Mayhall, C., Lutz, H. A., & Young, H. F. (1982). Intracranial pressure: to monitor or not to monitor?, Journal of Neurosurgery, 56(5), 650-659. Retrieved Mar 10, 2020, from https://thejns.org/view/journals/j-neurosurg/56/5/article-p650.xml
- Saul, T. G., & Ducker, T. B. (1982). Effect of intracranial pressure monitoring and aggressive treatment on mortality in severe head injury, Journal of Neurosurgery, 56(4), 498-503. Retrieved Mar 10, 2020, from https://thejns.org/view/journals/j-neurosurg/56/4/article-p498.xml
- Eisenberg, H. M., Frankowski, R. F., Contant, C. F., Marshall, L. F., Walker, M. D., & Comprehensive Central Nervous System Trauma Centers. (1988). High-dose barbiturate control of elevated intracranial pressure in patients with severe head injury, Journal of Neurosurgery, 69(1), 15-23. Retrieved Mar 10, 2020, from https://thejns.org/view/journals/j-neurosurg/69/1/article-p15.xml
- Güiza et al; Visualizing the pressure and time burden of intracranial hypertension in adult and paediatric traumatic brain injury. Intensive Care Med. 2015; 41(6):1067-76. IFU CereLink™ ICP Monitor, LCN 208542-001 Rev. A 11/18 1120997-1.

Keeping severe TBI patients below an ICP of 20 mmHg is the current standard of practice.

However, even a normal ICP between 15 & 20 mmHg can be harmful, if left untreated⁶.

Changing your TBI protocol to include the advanced analytics of CereLink[™] will help to understand the individual ICP burden and avoid unnecessary brain injuries.

Indications CereLink[™] Sensors:

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. 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 CereLink[™] Sensors:

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.

Indications CereLink™ Monitor:

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.

$Contraindications \, CereLink^{\rm tm} \, Monitor:$

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.

Indications Patient Monitor Interface Cables

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

Contraindications Patient Monitor Interface Cables

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

Availability of these products might vary from a given country or region to another, as a result of specific local regulatory approval or clearance requirements for sale in such country or region. Non contractual document. The manufacturer reserves the right, without prior notice, to modify the products in order to improve their quality.

• Warning: Applicable laws restrict these products to sale by or on the order of a physician.

• Consult product labels and inserts for any indications, contraindications, hazards, warnings, precautions, and instructions for use.

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For more information or to place an order, please contact:

Integra Contact - Questions, Information & Product Ordering

International: +33 (0)437 47 59 50 = +33 (0)437 47 59 25 (Fax) = csemea@integralife.com Austria: +43 (0)720816067 = +43 (0)19287201 (Fax) = custsvcaustria@integralife.com Belgium & Luxembourg: +32 (0)2 257 4130 = +32 (0)2 253 2466 (Fax) = custsvcbenelux@integralife.com Germany: +49 (0)2102 5535 6200 = +49 (0)2102 5536 636 (Fax) = custsvcgermany@integralife.com Ireland: +353 1800 901567 = +353 1822 5952 (Fax) = custsvcire@integralife.com Italy: +39 (0)2 577 89 21 = +39 (0)2 575 113 71 (Fax) = custsvcitaly@integralife.com Netherlands: +31 (0)852083167 = +31 (0)207093627 (Fax) = custsvcnetherlands@integralife.com Switzerland: +41 (0)2 27 21 23 00 = +41 (0)2 27 21 23 99 (Fax) = custsvcsuiss@integralife.com United Kingdom: +44 (0)1264 312 725 = +44 (0)1264 312 821 (Fax) = custsvcs.uk@integralife.com France: +33 (0) 437 47 59 10 = +33 (0) 437 47 59 29 (Fax) = custsvrfrance@integralife.com

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Integra LifeSciences Production Corporation 11 Cabot Boulevard Mansfield = MA 02048 = USA

Integra LifeSciences Services (France) Immeuble Séquoïa 2 97 Allée Alexandre Borodine Parc Technologique de la Porte des Alpes 69800 Saint Priest = France



Integra LifeSciences Switzerland Sarl Rue Girardet 29 (2nd Floor)

Le Locle
Neuchâtel CH-2400
Switzerland

