

Injeq IQ-Needle™ system for lumbar puncture

Precision. Care. Confidence.

Injeq IQ-Tip™ spinal needle is the smartest and most caring needle around – based on pioneering tissue identification technology of the Injeq IQ-Needle™ system.



Injeq IQ-Needle™ system helps you to avoid unnecessary needle movements for the benefit of the patient.

Acute lymphoblastic leukemia (ALL) is the most common cancer type diagnosed in children. During the treatment, which usually lasts around 30 months, approximately 20 lumbar punctures (spinal taps) are performed on the patient.

As the tip of the needle must be precisely inserted into the spinal canal, each of the punctures is a challenging procedure. At the same time, you have to be careful not to insert the needle even slightly too far, because there is a risk of bleeding that allows cancer cells to enter the spinal canal, lowering the chances of recovery.

The smart digital technology in Injeq IQ-Needle™ system may reduce the risk of bleeding. It would then protect the patient and help you get more high-quality and less blood tinged spinal fluid samples.

When you know, at all times, where the tip of the needle is, you are able to avoid unnecessary needle movements near the spinal nerves. Thus, the smart IQ-Needle™ system may also allow performing more punctures without general anesthesia.



Working in ER, the pressure for fast diagnoses is high 24 hours a day, and sometimes you have to make quick calls.

When you have a patient with suspected neonatal meningitis, it is imperative to get a quick CSF sample for a diagnosis. Although it is an established and simple procedure in theory, performing a lumbar puncture to a child while under pressure is not completely without risk.

The puncture still has to be performed for the sake of the little patient, because undiagnosed meningitis is always a life-threatening condition.

According to surveys, 24–40% of punctures performed on newborn babies fail or result in tissue damage. In addition to pain, failed punctures cause delays, poor-quality samples, and further expenses, as the patient may have to spend more time in intensive care.

Injeq IQ-Needle™ system may allow less stylet removals and reinsertions, and smoother and faster punctures with a better success rate. Less uncertainty for you and more comfort for the baby, with less expensive time in the unit.

Injeq IQ-Needle™ system products

Injeq IQ-Needle™ system products are designed and manufactured to meet the requirements of European medical device directive. Market entry for the products is expected late 2018.

Injeq IQ-Tip™ spinal needle



Gauge	Diameter	Color code	Length		Tip	Order code
22G	0.7mm	Black	40 mm	1.5"	IQ-Tip™	IQS-22040-B01
			65 mm	2.5"		IQS-22065-B01
			90 mm	3.5"		IQS-22090-B01

Single use Injeq spinal needle incorporates a unique Injeq IQ-Tip™ design that enables bipolar bioimpedance measurement from the tip of the needle. Contoured needle hub for provides excellent grip and offers great tactile feedback.

Injeq IQ-Tip™ spinal needle can be used like a traditional spinal needle, but it provides the best results when used together with Injeq 301 analyzer.

Injeq 301

Injeq 301 analyzer is designed for lumbar puncture to provide real-time tissue identification when connected to Injeq IQ-Tip™ spinal needle using Injeq IQC-07 cable. The performance of spinal fluid (CSF) identification has been validated by two clinical investigations so far.

Injeq 301 facilitates your work by telling you when the spinal fluid has been reached via an audio alarm. You will know exactly where the tip of the smart needle is, and when it has reached the spinal canal. It doesn't matter if you are a seasoned medical professional or straight out of medical school, Injeq IQ-Needle™ system gives you more accuracy and confidence in performing a lumbar puncture.



Injeq IQC-07

Injeq IQC-07 is a re-usable cable that can be sterilized with steam autoclave. Use of sterile products in lumbar puncture is essential, and reprocessing helps to keep the cost in control. The cable is very light and flexible so it does not get in the way of the puncture.