



## **CSEN Pencil Point Spinal Needle (CSEN 58)**

### **CSEN Pencil Point spinal needle technique**

This is an innovative device in which there is a lateral hole at the tip. The anesthetic solution will flow out of this hole into the subarachnoid space at the direction of this hole. The CSEN pencil point spinal needle separates dural fibers rather than cutting them to reduce incidence of spinal headache. A small bore spinal needle is inserted through an introducer until it pierces the dura. Confirmation of its placement in the subarachnoid space is when CSF is obtained through the hub of the spinal needle. The local anesthetic solution is then injected through the spinal needle into the subarachnoid space. After the injection is completed the spinal needle is withdrawn and the patient is positioned as required.

### **Local anesthetic injections**

The local anesthetic solution injected into the subarachnoid space is exited through the hole positioned at the pencil point tip. The injection should be slow and gentle. The dose should be adjusted to every patient and to every operation. The orientation of the hole is a factor for the administration of the anesthetic solution.

## **Hazards**

After confirmation of the spinal needle's position in the subarachnoid space, secure the needle during local anesthetic solution injection from forward or backward movements. Forward movement may cause paresthesias by the pencil point's tip touching a nerve root, while a backward movement may withdraw the spinal needle or its orifice from the subarachnoid space into the epidural space, resulting in partial spinal anesthesia.

NOTE: The key on the spinal needle hub indicates the direction of the distal spinal needle port.

Inject the desired dose of intrathecal medication at a rate, level and direction consistent with the desired spread of anesthesia or analgesia through the port.

Follow national and/or institutional guidelines for patient monitoring appropriate to the administration of spinal anesthetics.

## **Caution**

Law restricts this device to sale by, or on the order of a physician.