

## **COMBINED END-MULTIPLE LATERAL HOLES EPIDURAL CATHETER (20G CEMLH EPIDURAL CATHETER; ELDOR EPIDURAL CATHETER)**

### **CEMLH epidural catheter technique**

Using the epidural needle the epidural space is reached by the loss of resistance technique or the hanging drop technique, while the proximal opening of the epidural needle enters the epidural space. The epidural catheter is inserted into the epidural space through the epidural needle. An aspiration test and a test dose are done. If it is negative the anesthetic solution is injected gradually until the required dose-effect is achieved. The epidural needle is withdrawn after the epidural catheter insertion or after the epidural catheter aspiration test and test dose. The epidural catheter length inside the epidural space should be 3 cm. This is measured in each patient according to the markings in the epidural needle and the epidural catheter. After withdrawing the epidural needle the epidural catheter is secured on the patient's back by a plaster to prevent pull out and kinking. Withdrawal of the epidural catheter after anesthesia, analgesia or several post-operative days, should be done while the patient lies on his side with flexed feet. The epidural catheter should be withdrawn slowly and gently. Inspection of its completeness should be done after its withdrawal.

### **Local anesthetic injections**

Every time a local anesthetic solution is injected through the CEMLH epidural catheter it should be preceded by an aspiration test and a test dose to avoid inadvertent subarachnoid or intravascular injections of a large volume of a local anesthetic solution into these spaces. After performing the aspiration test and the test dose the injections should be done gradually and slowly until reaching the required anesthetic level.

### **Hazards**

Do not withdraw an epidural catheter through an epidural needle, because of danger of shearing the catheter. After a positive aspiration test and/or test dose for inadvertent subarachnoid placement - the epidural catheter should be withdrawn or be treated as a spinal catheter. After a positive aspiration test and/or test dose for inadvertent intravascular placement - the epidural catheter should be withdrawn, and no further injections be made through it. Do not insert the epidural catheter more than 3 cm inside the epidural space, because of kink and/or mal-position. The epidural catheter does not always go at the intended direction (cephalad or caudad). The device is intended for short term use only, 72 hours or less.

### **Caution**

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