

**Lactated Ringer's** solution (LR), a commonly used **crystalloid**, is hypotonic at 273 mOsm/L. Low plasma **osmolarity** can cause **cerebral edema**. Therefore, hypotonic solutions, such as LR, are avoided, while **normal saline** (NS) has traditionally been used as the main fluid in patients with neurosurgery <sup>1)</sup>.

<sup>1)</sup>

Tommasino C, Picozzi V. Volume and electrolyte management. Best Pract Res Clin Anaesthesiol 2007; 21: 497-516.

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