



RE: CLC2000® Flush Procedures

Thank you for your interest in the CLC2000 and ICU Medical products. As a medical device manufacturer we cannot recommend specific clinical practice regarding any medical procedure which is ultimately the responsibility of the health care provider. The design of the CLC2000 is to accommodate most known flush protocols including those recommended by clinical organizations such as the Intravenous Nurses Society (INS). ICU Medical does recognize that many clinical users of the CLC2000 practice specific procedures successfully and we therefore acknowledge them as being safe and effective for use with the CLC2000.

Frequency of flush is a facility determined protocol, however many users of the CLC2000 successfully employ a hospital based Q12 or Q24 protocol. We also are aware of users employing a once weekly flush protocol on catheters that are not being routinely accessed. ICU does not recommend modifying the flush volume when modifying the flush frequency.

It is recommended by ICU Medical to utilize those protocols which have been currently validated within a facility. The exception to this is to employ a saline flush protocol for use with the CLC2000 as indicated on the labeling. A saline flush protocol with the CLC2000 has been validated by various clinical papers¹²³. However, Heparin may safely be used with the CLC2000 if it is the facility's protocol to continue the use of Heparin flushes.

Recommendations:

- Flush CLC2000 after each use with normal saline or in accordance with facility protocol.
- Do not clamp catheter or extension prior to removal of the flush syringe as this will interrupt the positive displacement.

Thank you again for your interest, if there are further questions or concerns please visit our website at www.icumed.com, or contact the corporate offices at 949-366-2183 or 800-824-7890.

Technical Services
ICU Medical, Inc.

¹ Doellman D RN, Schilling S RN, Hutchinson N RN, Jacobs B MD, *The effect of a Positive Pressure Valve Device on Occlusion in Central Venous Catheters in Children: A Prospective, Controlled Trial*. Intravenous Nurses Society (INS) Annual Meeting Poster Presentation. May 2002.

² Lenhart, C, *Preventing Central Venous Access Device Occlusions with Saline Only Flush by use of an Adapter*. JVAD, Summer 2001.

³ Pancallo S. MVI HomeCare, Girard Ohio. Study of CLC2000 Utilizing a Saline Flush Protocol for Central Venous Catheters. Spring 2000.