



**RE: MicroCLAVE® Flush Recommendations**

Thank you for your interest in the MicroCLAVE and ICU Medical products. The MicroCLAVE is a Neutral Displacement Connector which is designed 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 MicroCLAVE practice specific procedures successfully and we therefore acknowledge them as being safe and effective for use with the MicroCLAVE.

Frequency of flush is a facility determined protocol, however many users of the MicroCLAVE 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 MicroCLAVE as indicated on the labeling. However, Heparin may safely be used with the MicroCLAVE if it is the facility's protocol to continue the use of Heparin flushes.

**Recommendations:**

- Flush MicroCLAVE after each use with normal saline or in accordance with facility protocol.

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

Sincerely,  
Technical Services  
ICU Medical, Inc.