



**Re: CLC2000® use with MRI**

Thank you for your interest in the CLC2000 and ICU Medical Products. This letter is in response to your request for information concerning the CLC2000, specifically if the material in the device's spring can be a cause of concern with MRI. The spring is 300 series Stainless Steel (0.094 grams ) which is known to be one of the least magnetic types. It is in the "slightly magnetic" classification.<sup>1</sup> During the development process, consultation was held with several Radiologists who stated that there is not enough metal in the spring to be a problem with MRI and no significant effect would be anticipated.

The CLC2000 has been tested for functional performance in the MRI environment where there are concerns relating to potential damage to the device when exposed to the MRI. Functional testing was completed on the CLC2000 following exposure and it was found that there was no detrimental effect to the CLC2000 when used in MRI; testing on file at ICU Medical, Inc.

Radiology Departments who are using the CLC2000 with MRI have written into their procedures the following:

- The CLC2000 or tubing should be taped down securely when used in MRI.
- The CLC2000 is opaque. It must be moved out of the field being viewed so that the area is not obscured.
- Starburst display on the film may be seen in certain instances.

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.

Technical Services  
ICU Medical, Inc.

---

<sup>1</sup> Materials Science and Engineering, Third Edition; William D. McCallister, Jr., University of Utah; John Wiley & Sons, Inc.; page 357 and Table 12.4