



## URGENT MEDICAL DEVICE CORRECTION

GE Healthcare

9900 Innovation Drive  
Wauwatosa, WI 53226  
USA

<Date of Letter Deployment>

GEHC Ref#25465

To: Hospital Administrators/Risk Managers  
Managers of Radiology/Cardiology  
Radiologists/Cardiologists

### RE: Revolution CT head image quality beam hardening artifact

GE Healthcare has recently become aware of a potential issue with routine head scans on your Revolution CT scanner. **Please ensure that all potential users in your facility are made aware of this safety notification and the recommended actions.**

**Safety Issues** A potential hazardous situation can occur during a routine head scan with possible artifacts that may emulate pathology between the brain tissue and bone in the head images. No injuries have been reported to date related to this issue.

**Safety Instructions** You can continue to use your Revolution CT product. For routine head scans, GE Healthcare recommends that you position the patient head so that the orbital-meatal line is parallel to the scan plane and that you use GE Protocols 21.1 or 21.2 (Reference Protocol Guide 5567862-1EN Rev 2). To further reduce the appearance of beam hardening artifacts, use 40mm collimation.

Introducing 40mm collimation for routine head scans will result in more table transitions, so sites should determine if 40, 80, 120 or 160mm collimation for head imaging best meets the needs of your radiology practice.

When performing head scans, be sure to follow the CT User Manual for information on how to help minimize these types of artifacts during routine head scans. The information and warnings can be found in your Revolution CT User Manual (5480385-1XX Rev 2).

For potential artifacts during scanning:

- Safety Chapter (Chapter 3, Section 14.1).

For beam hardening issues for head scans:

- Scan Chapter (Chapter 11, Section 4.5.4.2)
- Pediatric and Small Patient Chapter (Chapter 5, Section 3.5.5)
- General Information Chapter (Chapter 21, Section 6.1).

**Product Correction** To minimize the effects of beam hardening artifacts during routine head scans, GE Healthcare recommends that in addition to the information in the existing CT User Manual, the site also follow the additional recommendations listed in the safety instructions above. GE Healthcare will be delivering an addendum to the User Manual that reiterates these mitigations.

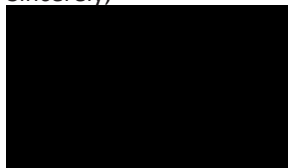
Additional improvements to image quality are currently in development. This software will be distributed and installed on your system at no cost to you.

**Affected  
Product  
Details** Revolution CT Scanners, software version 15MW03.12

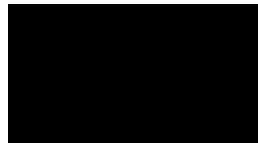
**Contact  
Information** If you have any questions or concerns regarding this notification, please contact GE Healthcare Service at 1-800-437-1171 or your local Service Representative.

Please be assured that maintaining a high level of safety and quality is our highest priority. If you have any questions, please contact us immediately per the contact information above.

Sincerely,



James W. Dennison  
Vice President Devices  
GE Healthcare



Jeff Hersh, M.D.  
Chief Medical Officer  
GE Healthcare