

Siemens Shanghai Medical Equipment Ltd., HC DI CT QT CN
No. 278 Zhou Zhu Rd. Pudong New Area, Shanghai P.R.China

To all users of the

SIEMENS SOMATOM Huan Yue
SIEMENS SOMATOM Emotion (2007)
SIEMENS SOMATOM Spirit / Power

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Date January 08, 2018

Customer Safety Advisory Notice CT077/17/S

Re: CARE Dose4D algorithm – Risk of unnecessary radiation exposure for head scans based on p.a./a.p. topograms

Dear customer:

This letter is to inform you about a potential risk of unnecessary radiation exposure due to a software issue we found in the CARE Dose4D algorithm implemented in the Siemens Healthineers CT scanners specified above.

When does this malfunction occur and what is the problem?

Siemens Healthcare became aware of possible incorrect tube current calculations by the CARE Dose4D algorithm for head scans based on p.a. (posterior-anterior) or a.p. topograms. Depending on the geometrical shape of the skull bone, it may happen in rare cases that the calculated dose distribution is not appropriate and could lead to unnecessary radiation exposure.

How can the operator help to avoid a potential risk of the system?

The described issue will not occur when using a lateral topogram instead of a p.a. or an a.p. topogram. Accordingly, we strongly recommend using topograms in lateral position for all head scans.

Considering that the p.a. or a.p. topogram is preferred in specific protocols such as in CarotidAngio scans and RT_HeadNeckShoulder, we strongly recommend to deactivate the CARE Dose4D function for this type of scan(Fig.1)

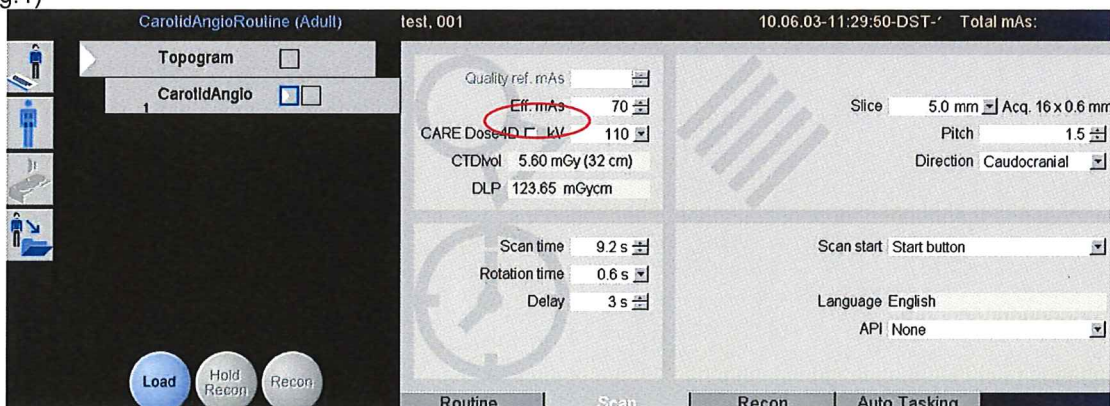


Fig.1 deactivate the check box for CARE Dose4D

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How this issue will be solved

Our experts will develop a solution to correct the problem with top priority. As soon as we release the correction, we will inform you concerning the start of the measure and when this correction has been successfully implemented.

We appreciate your understanding and cooperation with this safety advisory notice and ask you to immediately instruct your personnel accordingly. Please ensure that this safety advisory notice is placed in the medical device's Instructions for Use. Your personnel should maintain awareness until a solution has been implemented.

If you have sold this medical device and it is no longer in your possession, we kindly ask you to forward this safety advisory notice to the new owner of this device. Please also inform us about the new owner of the device.

- The relevant national competent authority has been informed of this notice.

Sincerely yours,



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Quality Director
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