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Abstract 29: Ge Cardiographe Image Quality Tools: Radiographers' Experience



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Introduction: January 2018 saw the installation of the first dedicated GE Cardiographe Cardiac Computed Tomography (CT) Scanner at the Ulster Hospital, Belfast. A core team of Radiographers, with a special interest in Cardiac CT, were instrumental in the smooth integration of this new service. To facilitate this, extensive applications training was provided by GE specialists, which involved selection of appropriate imaging protocols and post processing techniques to ensure high image quality was produced. This study aims to demonstrate these protocols and techniques as demonstrated by a selection of images from a range of patient demographics, including higher body mass index, high heart rate and arrhythmias.

Methods: Methods: Images acquired using the GE Cardiographe Cardiac CT Scanner were reviewed and a range of images were selected to demonstrate the main imaging techniques available to ensure high image quality; these include BMI specific protocols, snap shot freeze

(motion correction software), arrhythmia re-triggering, automatic padding and cardiac scan phase selection.

Results: Results: Images selected demonstrate the high image quality that can be achieved when adequate training is provided to equip radiographers with the knowledge to select the appropriate imaging techniques.

Conclusions: This study demonstrates the importance of adequate applications training in developing the role of the Radiographer during the implementation of a pioneering Cardiac CT Scanner. This opportunity afforded the Radiographers the opportunity to work autonomously during Cardiac CT image acquisition/utilisation of post processing applications to achieve high image quality, which broadened the scope of their clinical practice in line with the Society of Radiographers Guidelines and provide patient centred care by selection of patient specific scan parameters.

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