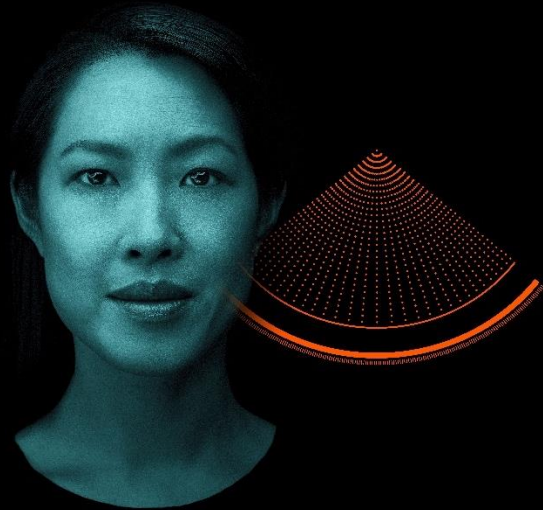
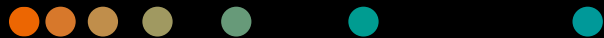


Photon-counting versus dual-source CT for transcatheter aortic valve implantation planning

NAEOTOM Alpha Publication Summary



Photon-counting is NAEOTOM



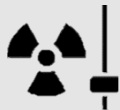
Key findings of the case study



“Retrospective study on consecutive TAVI candidates with aortic valve stenosis who underwent contrast-enhanced aorto-ilio-femoral PCCT and/or DSCT. 300 patients underwent 302 CT examinations, with PCCT in 202, DSCT in 100; two patients underwent both.”



“PCCT improves image quality, effectively avoids non-diagnostic CT imaging for TAVI planning, and is associated with a lower radiation dose compared to state-of-the-art DSCT.”



“With the PCCT protocol we used, a dose reduction by about 40% was observed in comparison to DSCT.”

“Image quality was rated as 'excellent' in 160/202 (79.2%) of PCCT vs. 5/100 (5%) of DSCT cases.”

“PCCT scans were classified to be insufficient in only 1%, while this was the case in 15% of DSCT scans.”

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DSCT: Dual Source CT
PCCT: Photon-counting CT

TAVI: Transcatheter Aortic Valve Implantation

NAEOTOM Alpha is not commercially available in all countries. Its future availability cannot be guaranteed. The statements by Siemens Healthineers' customers described herein are based on results that were achieved in the customer's unique setting. Because there is no "typical" hospital and many variables exist (e.g., hospital size, samples mix, case mix, level of IT and/or automation adoption) there can be no guarantee that other customers will achieve the same results.

