

Philips ClarityIQ technology

Clinically proven

Interventional Cardiology *Clinical papers*

PCI/CA: Balter, S., et al., Novel radiation dose reduction fluoroscopic technology facilitates chronic total occlusion percutaneous coronary interventions. *EuroIntervention*, 2017. **13**(12): p. e1468-e1474.

[Download paper](#)

PCI/CA: Bracken, J.A., et al., A Radiation Dose Reduction Technology to Improve Patient Safety During Cardiac Catheterization Interventions. *J Interv Cardiol*, 2015. 28(5): p. 493-7.

Busse, T., J. Reifart, and N. Reifart, Influence of novel X-ray imaging technology on radiation exposure during chronic total occlusion procedures. *Catheter Cardiovasc Interv*, 2018. 92(7): p. 1268-1273.

[Download paper](#)

PCI/CA: Busse, T., J. Reifart, and N. Reifart, Influence of novel X-ray imaging technology on radiation exposure during chronic total occlusion procedures. *Catheter Cardiovasc Interv*, 2018. 92(7): p. 1268-1273.

[Download paper](#)

PCI/CA: Buytaert, D., et al., Evaluation of patient and staff exposure with state of the art x ray technology in cardiac catheterization: A randomized controlled trial. *Journal of Interventional Cardiology*, 2018. 31(6): p. 807-814.

[Download paper](#)

PCI/CA: ten Cate, T., et al., Novel X-ray image noise reduction technology reduces patient radiation dose while maintaining image quality in coronary angiography. *Netherlands Heart Journal*, 2015. 23(11): p. 525-530.

[Download paper](#)

PCI/CA: Eloit, L., et al., Novel X-ray imaging technology enables significant patient dose reduction in interventional cardiology while maintaining diagnostic image quality. *Catheter Cardiovasc Interv*, 2015. 86(5): p. E205-12.

[Download paper](#)

PCI/CA: Faroux, L., et al., Minimizing exposure to radiation in invasive cardiology using modern dose-reduction technology: Evaluation of the real-life effects. *Catheter Cardiovasc Interv*, 2018. 91(7): p. 1194-1199.

[Download paper](#)

PCI/CA: Gunja, A., et al., Image noise reduction technology reduces radiation in a radial-first cardiac catheterization laboratory. Cardiovascular Revascularization Medicine, 2017. 18(3): p. 197-201

[Download paper](#)

PCI/CA: Kastrati, M., et al., Reducing Radiation Dose in Coronary Angiography and Angioplasty Using Image Noise Reduction Technology. Am J Cardiol, 2016. 118(3): p. 353-6.

[Download paper](#)

PCI/CA: Nakamura, S., et al., Patient radiation dose reduction using an X-ray imaging noise reduction technology for cardiac angiography and intervention. Heart Vessels, 2015.

[Download paper](#)

CHD/SHD: Gislason-Lee, A.J., et al., Impact of latest generation cardiac interventional X-ray equipment on patient image quality and radiation dose for trans-catheter aortic valve implantations. Br J Radiol, 2016. 89(1067): p. 20160269.

[Download paper](#)

CHD/SHD: Haas, N.A., et al., Substantial radiation reduction in pediatric and adult congenital heart disease interventions with a novel X-ray imaging technology. IJC Heart & Vasculature, 2015. 6: p. 101-109.

[Download paper](#)

CHD/SHD: Lauterbach, M. and K.E. Hauptmann, Reducing Patient Radiation Dose With Image Noise Reduction Technology in Transcatheter Aortic Valve Procedures. The American Journal of Cardiology, 2016. 117(5): p. 834-838.

[Download paper](#)

CHD/SHD: Sullivan, P.M., et al., Reduction in Radiation Dose in a Pediatric Cardiac Catheterization Lab Using the Philips AlluraClarity X-ray System. Pediatric Cardiology, 2017. 38(8): p. 1583-1591.

[Download paper](#)

Electrophysiology: Dekker, L.R., et al., New image processing and noise reduction technology allows reduction of radiation exposure in complex electrophysiologic interventions while maintaining optimal image quality: a randomized clinical trial. Heart Rhythm, 2013. 10(11): p. 1678-82.

[Download paper](#)

Electrophysiology: van Dijk, J.D., et al., Impact of new X-ray technology on patient dose in pacemaker and implantable cardioverter defibrillator (ICD) implantations. J Interv Card Electrophysiol, 2017. 48(1): p. 105-110.

[Download paper](#)

Additional publication related to dose reduction

Radiation safety: Occupational Radiation Protection in Interventional Radiology: A Joint Guideline...Miller et. al., Cardiovascular and Interventional Radiology, December 18, 2009.

[Download paper](#)