

syngo Circulation - Siemens Scientifically Validated Cardiac CT Software.

By Lars Hofmann, MD, Global Clinical Marketing Manager, Cardiac and Acute Care CT, Siemens Medical Solutions, Forchheim, Germany

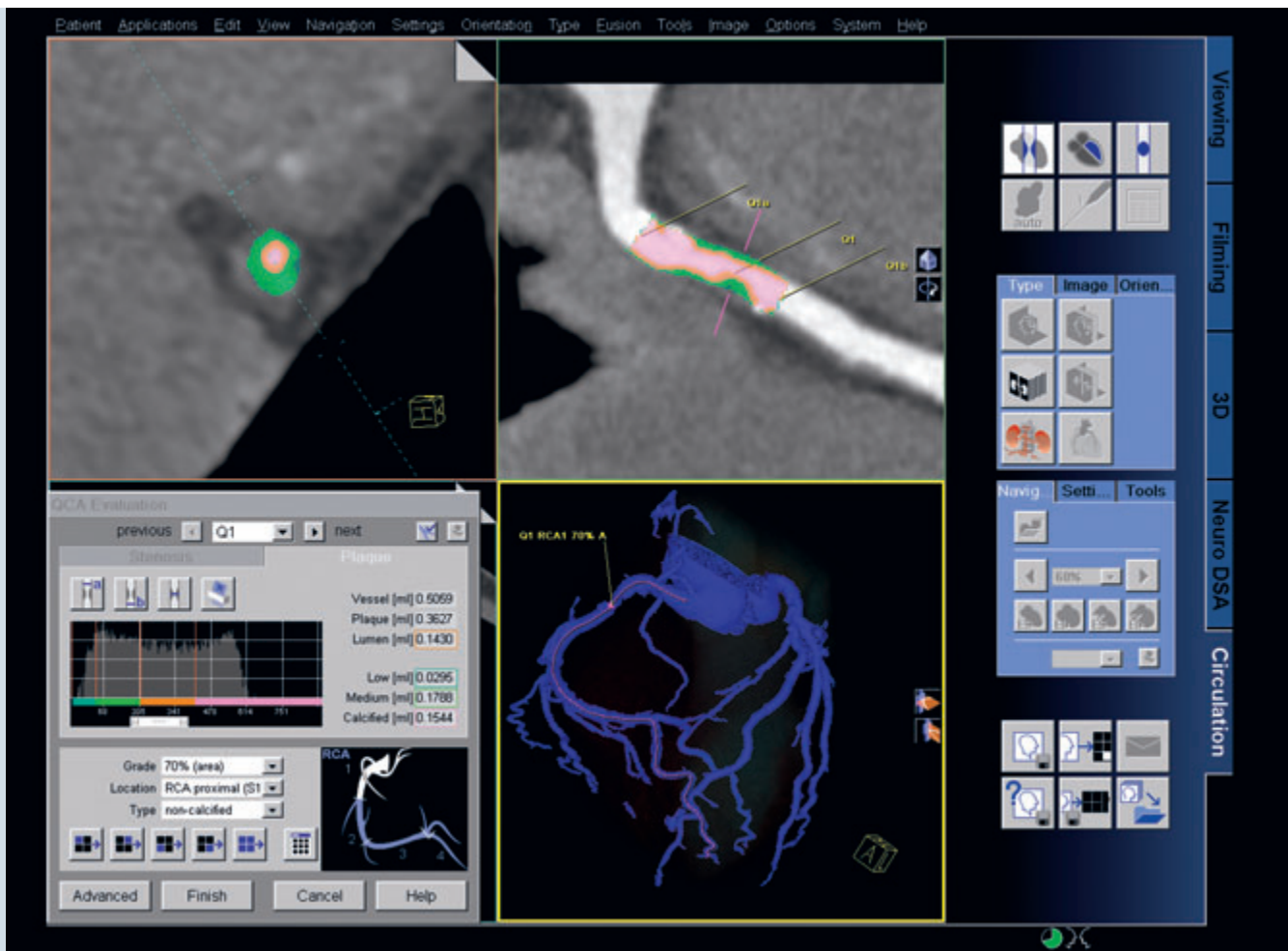
Modern post-processing software tools have gained increasing significance in routine diagnosis over the past years. It is of high importance to offer not only a variety of software features, but at the same time, to validate accuracy and functionality against existing gold standards. Researchers at the University of Munich, Departments of Clinical Radiology and Cardiology, evaluated the accuracy of *syngo*® Circulation as a quantitative coronary CTA analysis tool in reference to quantitative coronary analysis in conventional angiography*. This makes *syngo*

Circulation the first coronary analysis software to be scientifically validated. The group of Busch et al. concluded that, "the automatic segmentation of the whole coronary artery tree has become routinely feasible and has eased post-processing." Additionally it is important to note that, "the diagnostic accuracy of CTA can be improved with this software," which "makes the software a very helpful tool to improve diagnostic accuracy with the quantitative grading of stenosis." *syngo* Circulation has reached its third development stage in two years. Major

improvements include the completion of the functional and myocardial evaluation as well as improved accuracy and flexibility for quantitative coronary analysis. New plug-ins allow the automatic detection of pulmonary emboli** and the fusion of cardiac CT data with SPECT and PET data. *syngo* Circulation is the only cardiac CT software that allows the complete cardiac morphology and function evaluation in one single software.

*The study of Busch et al. was pre-published as online issue in *European Radiology* on December 16, 2006.

**Not commercially available in the US.



syngo Circulation Plaque Analysis.