

Cutting-edge imaging may provide insight into the functional significance of a stenosis

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A novel study aims to evaluate whether optical coherence tomography (OCT) parameters may predict fractional flow reserve (FFR) values and assess if OCT parameters may predict clinical outcome in patients with negative FFR. The study was presented as late-breaking science at the SCAI 2020 Scientific Sessions Virtual Conference.

OCT imaging, a cutting-edge high-resolution intracoronary imaging technique generally used to characterize plaque morphology and to guide optimization of percutaneous coronary intervention, may also provide some insights into the functional significance of a stenosis.

"The idea of predicting hemodynamic relevance of coronary lesions from imaging is extremely appealing. In this collaborative study we sought to investigate if OCT parameters may help predicting the presence of hemodynamically significant stenoses among angiographically-intermediate coronary lesions (AICL), said Rocco Vergallo, MD, Ph.D. "We put together data collected from different studies so that we have been able to analyze individual data of about 500 patients."

The research team, under the leadership of Francesco Burzotta, MD, lead investigator, designed a multicenter, international, study using individual patient's level data pooled analysis. Stable or unstable patients who underwent both FFR and OCT of the same coronary lesion were enrolled. Primary outcome measures were OCT parameters predicting an FFR

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