Left main coronary artery perforation after rotational atherectomy

Perforación del tronco coronario izquierdo tras aterectomía rotacional

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Eighty-five-year-old woman with unstable angina with serious and heavily calcified lesions in proximal right coronary arteries (figure 1A, asterisk) and proximal and mid left anterior descending coronary artery (figure 1B, asterisk).

Rotational atherectomy was performed in the right coronary artery using the RotaPro system (Boston Scientific, United States) (figure 1C) and a drug-eluting stent was implanted with good results (figure 1D) as confirmed by the intracoronary ultrasound (figure 1E).
After the catheterization of the left main coronary artery (LMCA) the left anterior descending coronary artery was crossed. A 1.5 mm olive-shaped burr was advanced in the DynaGlide mode towards the LMCA, which is when the guide catheter was extubated and an Ellis type III perforation occurred in the LMCA (figure 2A, asterisk; video 1 of the supplementary data); it is possible that an unnoticed deformation of the guidewire moved the burr towards the vessel wall. The patient showed cardiac tamponade that was treated with pericardiocentesis. A 4 × 15 mm PK-Papyrus covered coronary stent (Biotronik, Germany) was implanted in the LMCA without jailing the bifurcation (figure 2B). However, a discrete leak of contrast still occurred (figure 2C, asterisk). After postdilatation with a 4.5 mm balloon, the perforation was sealed (figure 2D; video 2 of the supplementary data). The disease progression of the patient was favorable.

CONFLICTS OF INTEREST

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SUPPLEMENTARY DATA

Supplementary data associated with this article can be found in the online version available at https://doi.org/10.24875/RECICE.M20000100.