In the last few years several technical advancements were introduced in the treatment of coronary bifurcations lesions. Even though several bifurcation stenting techniques are available, majority of them are associated with the high incidence of target lesion revascularization failure, mainly due to the complications of the side-branch. Cross-stenting technique, which represents modified Culotte stent technique and provisional T stenting with the treatment of side branch with drug eluting balloon (DEB) in some aspects reduce several technical limitations which are common for one or two-stent technique.1-3 Here we present short description of above mentioned techniques with two case examples from our clinical practice.

First patient is 48-years-old male hospitalized due to non ST-segment elevation acute myocardial infarction with preserved left ventricular ejection fraction accompanied with mild mitral regurgitation. Culprit lesion was true bifurcation (Medina 1,1,1) on circumflex artery (ACx) and first obtuse marginal branch (OM). Patient was treated successfully with the PCI OM (Medtronic Integrity stent 3,5x19mm) with provisional T stenting of ACx with DEB (SeQuent Please balloon catheter, 3 µg paclitaxel/mm² balloon surface) with proximal optimization technique (POT).

Second patient is 70-years-old male, with long lasting hypertension and history of coronary artery disease, with previous PCI preformed in the region of left anterior descending artery (LAD) due to ST-segment elevation myocardial infarction. He was admitted because of instable angina pectoris, with echocardiography showing preserved ejection fraction with mild mitral regurgitation. Culprit lesion was true bifurcation (Medina 1,1,1), also present on ACx and OM. In this case, the treatment of choice was cross stenting technique with two stents resulting in PCI ACx/OM (DES Resolute Integrity 2,5x16mm and DES Resolute Integrity 2,5x24mm) finalized with POT.

In six-month follow-up both patients are doing fine, with angina only during strenuous or prolonged physical activity (Canadian Cardiovascular Society grading - CCS 1).

In conclusion, the utilization of above mentioned techniques in everyday clinical practice is easy, timesaving and with acceptable risk in short term follow-up.

LITERATURE