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A case of spontaneous coronary artery dissection treated with percutaneous coronaryintervention using IVUSguided rewiring technique.

We describe a 49-year-woman without significant cardiovascularrisk factors who was transferred to our hospital with sudden onset of chest pain.Coronary angiography was performed, which showed a dissection extending from the leftmain trunk (LMT) involving the left anterior descending artery (LAD). Becausecoronary flow was impaired by contrast injection and the patient complained chestpain with ST-elevation, we performed urgent percutaneous coronary intervention (PCI)for LMT to LAD. The first wire (SION blue) was initially introduced into the distalLAD, but intravascular ultrasound (IVUS) imaging revealed that the guide wire waspassed through the false lumen at the ostium of the left circumflex artery (LCX).Then, we inserted the second wire into the LCX, and IVUS imaging confirmed that itwas placed in the true lumen of the LCX. Next, we inserted the third wire from thetrue lumen of the LCX to the true lumen of the LAD using a double lumen catheter byreferring to the IVUS findings. The IVUS-guided rewiring technique was successful andthe IVUS imaging revealed that the third wire was passed through the false level. This case report highlightsthat physicians should consider SCAD among the differential diagnoses in patientspresenting with acute coronary syndrome, particularly in young women. The IVUS playsa pivotal role during PCI for patients with SCAD.