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Successful percutaneous coronary interventions using Argatroban in patients with heparin induced thrombocytopenia

A 65-year old woman was admitted to our hospital with chest pain. Coronary angiography revealed 99% stenosis at segment 7, 75% stenosis at segment 6 and 90% stenosis at segment 8 of left anterior descending (LAD) artery. In emergent PCI, 99% stenosis at segment 7 of the culprit lesion was stented with Resolute Integrity 3.0-22mm. 12Days later after emergent PCI, 2nd staged PCI to segment 6 and 8 was prepared. She suddenly complained chest pain during IVUS before pre-dilation. Since coronary angiography revealed multiple thrombus in LAD, which indicated occurrence of HIT, we aspirated them and administered Argatroban immediately, leading to successful stenting with Resolute Integrity 3.5-18mm and Promus Element 2.25-16mm. Her platelet count fall was >50% and she also had thrombophlebitis. We report literature reviews and 9 HIT cases (0.53%) in management with Argatoroban among 1706 cases who were performed intervention in our department between April in 2010 and March in 2013.