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Background: Newer generation drug-eluting stents (DES) have been developed to improve the efficacy and safety. Small vessel disease is one of the off-labeled indications of current DESs and there are limited data regarding outcomes of newer generations DES on small vessels (2.25 mm). Methods: A total 141 patients (pts) who underwent percutaneous coronary intervention (PCI) with DES sizing 2.25mm were enrolled for this study. Study population was divided into two groups; Paclitaxel-eluting stents (PES group, TaxusTM: n=110 pts) were compared with those of Zotarolimus-eluting stents (ZES, Endeavor ResoluteTM : n=26 pts) & Everolimus eluting stents (EES, Promus ElementTM: n=5 pts). Angiographic and clinical outcomes of PES group were compared with those of EES and ZES group at 6 & 12 months respectively. Results: Baseline characteristics & post procedure complications were similar between the two groups except there was a trend toward higher incidence of intimal dissection in the PES group. At 6 months, there were no significant differences in angiographic outcomes between the two groups except a trend toward smaller MLD in the newer DES group. Similar results were found at 12 months clinical follow up. Conclusions: In our study, there was no significant difference between first & newer generations DESs at 6 months angiographic & 12 months clinical follow up following exclusive usage of 2.25mm stents in small vessel disease. More extended follow up with larger study group will be needed to make final conclusion.