**Fig. S1** CCS classification progress after CTO-PCI

*CCS, Canadian Cardiovascular Society grading of angina pectoris*

*P value: pre-CTO team group pre-procedural vs. 30-days p< 0.001; pre-procedural vs. one-year p< 0.001. Post-CTO team group start vs. 30-days p< 0.001; start vs. one-year p< 0.001*