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Combined Intracoronary Ergnovine and Acetylcholine Provocation Test for Assessment of Significant Coronary Artery Spasm

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Background: Ergnovine (Erg) and Acetylcholine (Ach) isanuseful agent forassessing significant coronary artery spasm (CAS). However, clinical data regarding combined or simultaneous intracoronary provocation test using these two agents are largely unknown. Methods: A total 113 consecutive patients (pts) underwent Ergand/ or Ach provocation test were enrolled. Erg test was performed by incremental doses of 5, 10, 25ug. If Erg test is (-), subsequentAch test was done by 20, 50, 100 us Significant CAS was defined as focal or diffuse severe transient luminal narrowing (>70%) with/without chest pain or ST-T change on ECG. We investigated the overall results of simultaneous Erg and Ach provocation test. Results: Baselineclinical characteristics showed that mean age was 53.18  $\pm$  9.8 years old (male 69.3%), hypertension 48.7%, diabetes 6.1%, dyslipidemia 12.2% and smoking 34.6%. A total 49pts (49/113, 43.4%) showed (+) provocation test by Erg. Sixteen % of the pts responded to E2 dose (10ug) and 83.6% to E3 (25ug). Multivesselspasm was in 32.7%, and diffuse spasm 16.3%. A total 64 pts who were (-) to Erg test underwent Ach provocation test. A total 60 pts (60/64, 93.8%) showed (+) provocation test by Ach. Eleven % of the pts responded to A1 dose (20ug) and 35.0% to A2 (50ug). Multivesselspasm was in 47.5%, and diffuse spasm 8.3%. Only 4 pts (4/113, 3.5%) were (-) response to both Erg and Ach test. Conclusion: Both Erg and Ach were safe but Ach was more sensitive and Erg seems to be more specific to show significant CAS.