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 MYOCARDIAL ISCHEMIA AND INFARCTION

PERCUTANEOUS CORONARY INTERVENTION VERSUS MEDICAL THERAPY IN STABLE CORONARY ARTERY DISEASE: A META-ANALYSIS

ACC Poster Contributions

Georgia World Congress Center, Hall B5
Monday, March 15, 2010, 3:30 p.m.-4:30 p.m.

Session Title: Stable Ischemic Syndrome--Interventional Strategies

Abstract Category: Stable Ischemic Syndrome

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Background: Controversy persists regarding the role of Percutaneous Coronary Intervention (PCI) versus Medical therapy in the management of stable coronary artery disease.

Methods: We performed a systematic literature search for randomized controlled trials (including patients with/without diabetes mellitus) comparing PCI versus Medical therapy in stable coronary artery disease. We included 20 trials [N= 9881] with the mean follow-up of 47.2 months. Relative risks (RR) across all the studies and 95% confidence intervals (CI) were computed. A two-sided alpha error of less than 0.05 was considered to be statistically significant (p<0.05).

Results: Eighteen trials provided data on the all-cause mortality and cardiac mortality. Twenty trials provided data on nonfatal MI/ACS and twelve trials provided data on revascularization. Meta-analysis revealed that there is no statistically significant difference between PCI versus Medical therapy in terms of all-cause mortality (RR, 0.899; 95% CI 0.789 to 1.025, P= 0.111), cardiac mortality (RR, 1.034; 95% CI 0.877 to 1.219, P= 0.693), development of nonfatal MI/ACS (RR, 0.89; 95% CI 0.725 to 1.092, P= 0.264) and the need for revascularization (RR, 1.77; 95% CI 0.840 to 1.649, P= 0.345).

Conclusions: These findings suggest that in patients with stable coronary artery disease Medical therapy has comparable results with PCI in terms of all-cause mortality, cardiac mortality, non fatal MI/ACS and the need for revascularization.

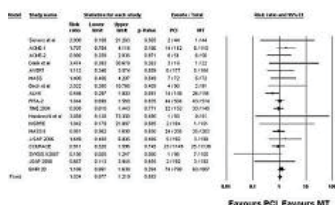


Figure 1. Comparison of PCI vs Medical therapy for cardiac death

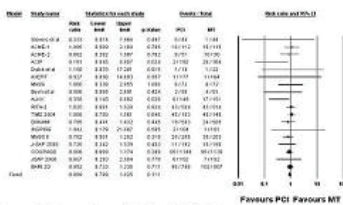


Figure 2. Comparison of PCI vs Medical therapy for death

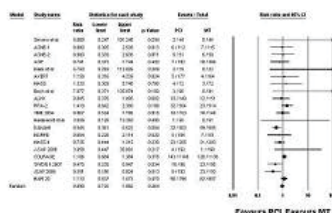


Figure 3. Comparison of PCI vs Medical therapy for nonfatal MI/ACS

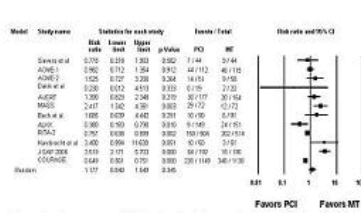


Figure 4. Comparison of PCI vs Medical therapy for revascularization