

The FUnctional Testing Underlying coronary REvascularization (FUTURE) Study: A "real World" Comparison Of Fractional Flow Reserve-guided Management Versus Conventional Management In Multi Vessel Coronary Artery Disease Patients

Purpose: To compare fractional flow reserve-guided management versus angiogram-guided conventional management in multi vessel coronary artery disease patients

Trial Design: patients with multi-vessel CAD randomized 1:1 to FFR-guided treatment (including medical treatment only, PCI or coronary artery bypass graft (CABG) surgery) or to traditional treatment based on angiogram results without FFR. 31 French centers. Controlled trial.

Primary Endpoint: at 1 year, composite of major cardiovascular events (all-cause death, non-fatal MI, stroke, repeat revascularization)

Trial Results

Enrollment was stopped on May 12 based on recommendations from the study independent data safety monitoring board because of a significant greater mortality in the FFR-group. 936 patients were enrolled.

All-cause mortality (FFR vs. angiogram)
p= 0.02, HR 2.39

Conclusions: In high-risk patients with multivessel coronary disease, the use of FFR to guide management strategy decisions demonstrated significantly more mortality and the primary endpoint was not improved compared to angiogram-guided traditional therapy.

