

For patients with diabetes, angioplasty and bypass surgery lead to similar long-term benefits for quality of life

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For patients with diabetes and coronary artery disease in more than one artery, treatment with coronary artery bypass graft surgery provided slightly better health status and quality of life between 6 months and 2 years than procedures using drug-eluting stents, although beyond 2 years the difference disappeared, according to a study in the October 16 issue of *JAMA*.

Although previous studies have demonstrated that [coronary artery bypass graft \(CABG\)](#) surgery is generally preferred over percutaneous coronary intervention (PCI; procedures such as balloon angioplasty or stent placement used to open narrowed coronary arteries) for patients with diabetes mellitus and [coronary artery disease](#) in more than one artery, these studies were based largely on older data from when angioplasty and stents were different. Recently, the FREEDOM trial demonstrated that for this group of patients, CABG surgery resulted in lower rates of death and heart attack but a higher risk of stroke when compared with PCI using drug-eluting stents. Whether there are differences in health status assessed from the patient's perspective is unknown, according to background information in the article.

Mouin S. Abdallah, M.D., M.Sc., of Saint Luke's Mid America Heart Institute, Kansas City, and colleagues conducted a substudy of the FREEDOM trial to assess functional status and quality of life. Between 2005 and 2010, 1,900 patients from 18 countries with diabetes mellitus

and multivessel coronary artery disease were randomized to undergo either CABG surgery (n = 947) or PCI (n = 953) as an initial treatment strategy. Of these, a total of 1,880 patients had baseline health status assessed (935 CABG, 945 PCI) and comprised the primary analytic sample.

The researchers found that at 2-year follow-up, measures of angina frequency, physical limitations, and quality-of-life indicated greater benefit of CABG compared to PCI. Beyond 2 years, the 2 revascularization strategies provided generally similar patient-reported outcomes.

The primary results of the FREEDOM trial demonstrated that for diabetic patients with multivessel [coronary artery](#) disease, CABG led to a benefit over PCI for the composite endpoint of death, myocardial infarction, or stroke, driven by reductions in both all-cause mortality and myocardial infarction. Although both revascularization strategies led to substantial and sustained improvements in quality of life and functional status in the FREEDOM trial, angina relief was slightly better with CABG than PCI, especially among patients with the most severe angina at baseline, the authors write.

These findings suggest that CABG could be preferred as the initial revascularization strategy for such patients. "Given the increased rate of stroke, as well as the well-recognized longer recovery period with CABG surgery, however, some patients who do not wish to face these acute risks may still choose the less invasive PCI strategy. For such patients, our study provides reassurance that there are not major differences in long-term [health status](#) and quality of life between the 2 treatment strategies. Nonetheless, it is important for [patients](#) to recognize that the similar late quality-of-life outcomes with PCI and CABG in the FREEDOM trial were achieved with higher rates of antianginal medication use and the need for more frequent repeat revascularization

procedures among the PCI group."

More information: [DOI: 10.1001/jama.2013.279208](https://doi.org/10.1001/jama.2013.279208)

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