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Waiting for coronary revascularization: comparing Swedish practice with a multi-national expert panel's priority scheme

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Abstract

Objective: To determine how often waiting times for coronary revascularization in Sweden were within the maximum recommended time as determined by a multi-national expert physician panel and to evaluate factors effecting waiting times.

Methods: We measured the waiting time between coronary angiography and revascularization for 1,337 chronic stable angina patients who were treated at one of 7 hospitals in Sweden. A panel of 13 cardiothoracic surgeons and cardiologists from the Netherlands, Spain, Sweden, Switzerland and the United Kingdom was convened to assess the appropriateness of, and priority for, a set of hypothetical scenarios for coronary revascularization. They rated the appropriateness of these scenarios using a modified Delphi process and then assigned a maximum waiting time, on a 7 time-frame scale, for the 200 indications rated as appropriate or uncertain in appropriateness. The scenarios included several factors: coronary anatomy, angina severity, ventricular function, stress test results, and surgical risk. We assessed the proportion of patients who underwent revascularization within a computer generated maximum waiting time regression model and within the maximum categorical time-frame as determined by at least 10 of the 13 panelists.

Results: There was significant variation in the maximum recommended waiting time among the panelists (mean waiting time 58 days; standard deviation 40 days). The mean waiting time for the Swedish patients was 58 days, with angioplasty patients (PTCA) waiting 15 fewer days than bypass patients (CABG) (48 vs. 63 days, $p < 0.001$). Fifty-three percent of patients waited longer than the computer generated maximum waiting time and 45% waited longer than the maximum time recommended by at least 10 of the 13 panelists. Bypass patients were more likely to experience excess waiting times than angioplasty patients (e.g., 57% vs. 15% for the categorical model; 65% vs 21% for the computer model, respectively).

Conclusions: There was little association between maximum recommended times for coronary revascularization as determined by a multinational expert panel and actual waiting times for Swedish patients. An important factor was the type of revascularization procedure the patient underwent, a factor explicitly excluded by the panel as they felt a patient's waiting time should be determined by their clinical symptoms. The panel's ratings demonstrate differential access to coronary revascularization for Swedish patients referred for PTCA and CABG.

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