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Condensed from 15 Years Ago:

Reproducibility of Ejection-Fraction Determinations by Equilibrium Radionuclide Angiography in Response to Supine Bicycle Exercise: Concise Communication

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Sixteen patients with stable, chronic coronary artery disease were studied twice within an average of 15 days to evaluate the reproducibility of ejection fraction (EF) determined by equilibrium radionuclide angiography (EQ) at rest, during supine bicycle exercise (ex), and in the recovery period (rec).

Following injection of 20-25 mCi of ^{99m}Tc-tagged human serum albumin, data were analyzed for 2-min periods at rest, during several stages of exercise (submax, max), and during recovery (rec1 = min 2 + 3, rec2 = min 9 + 10). Each patient reached similar (heart rate) × (blood pressure) products in the two studies: 21280 ± 5200 compared with 20390 ± 4140 mmHg/min. Mean EFs for the first and second studies were: at rest (53.0 ± 10.8)%, (52.5 ± 10.4)% (r = 0.95); submax ex (51.4 ± 12.0)%, (52.1 ± 12.8)% (r = 0.91); max ex (50.6 ± 12.6)%, (51.6 ± 12.9)% (r = 0.97); rec1 (62.7 ± 11.6)%, (62.4 ± 12.2)% (r = 0.95); rec2 (55.5 ± 10.8)%, (57.2 ± 11.7)% (r = 0.91). In stable patients, the reproducibility of EF determined by EQ is excellent during rest, supine bicycle exercise, and recovery from exercise.

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