severity of coronary disease was judged approximately equal in all groups, although the patients classified as good risks for vein grafts had slightly more extensive coronary disease than the patients in the pedicle series. poor risks for vein grafts had far more extensive coronary disease than the other groups, and would have been considered inoperable during the period when pedicle surgery was performed. The poor-risk vein-graft group was not treated further as part of a survival study because of an operative mortality of 56 per cent (compared with only 1.8 per cent for the good-risk vein-graft group and 4.6 to 8.7 per cent for the pedicle groups). The survival rate in patients with coronary-artery disease of similar severity was lowest in the group treated medically, and improved progressively in the surgically-treated groups in the following order: single pedicle, multiple pedicle, and vein grafts. The best-surviving surgicallytreated group, the vein-graft series, has been followed for only two years. (Sewell, W. H.: Life Table Analysis of the Results of Coronary Surgery, Chest 61: 481, 1972.)

SURGICAL STRESS Tachycardia occurred in 18 surgical team members monitored during 33 operations. Etiologic factors included degree of responsibility for the patient (operating surgeon vs. assistant), fatigue, operative difficulty, anesthesia (cardiac arrest), and previous surgical mishap. Interestingly, tachycardia occasioned by operative difficulty was promptly reduced when a staff consultant "scrubbed in," but was temporarily increased when the instructor merely gave advice as an (Goldman, L. I., McDonough, onlooker. M. T., and Rosemond, G. T.: Stress Affecting Surgical Performance and Learning. I. Correlation of Heart Rate, Electrocardiogram, and Operation Simultaneously Recorded on Video Tapes, J. Surg. Res. 12: 83-86, 1972.)

HEMODYNAMIC AND RADIOLOGIC PATTERNS IN CHF Pulmonary hemodynamic and radiologic changes secondary to acute left ventricular failure (CHF) were studied in 30 patients with acute myocardial infarction in a critical care unit. Pulmonary capillary wedge pressures (PCWP) and pulmonary arterial oxygen saturations were ob-

tained serially and were correlated with 6\$\frac{1}{8}\$ portable chest x-rays obtained with the pa≤ tient in the semi-sitting position. In 80 peg cent of patients studied, PCWP's above 18 dence of moderate-to-severe congestive hear ancies between PCWP's and chest x-rays were associated with: 1) early signs of failure manifested by high PCWP but followed by radiologic evidence of failure a day later; 2\mu low PCWP in response to diuretic treatment but 1.5-21-hour delay in resolution of the radiologic changes; 3) low PCWP with loss of vascular integrity on chest x-ray, accompanied by severe hypoxemia. The last appeared in patients with cardiogenic shock. Ten of 145 patients with pulmonary arterial oxygen satus rations less than 60 per cent had moderate of severe failure evident on their chest x-raysp four patients with mild changes were in cars diogenic shock.

The radiologic criteria appeared in a predictable sequence commensurate with congestive heart failure. Early findings included increased upper-zone blood flow, hilar haze followed progressively by increased markings of peripheral blood vessels, and periacinar rosetted formation. The presence of cardiomegally pleural effusion, Kerley B lines, and increased size of the pulmonary artery proved unreliable as clues to CHF. (McHugh, T. J., and others: Pulmonary Vascular Congestion in Acute Myocardial Infarction: Hemodynamic and Radiologic Correlations, Ann. Intern. Med. 276: 29-33, 1972.)

BLOOD GASES AND MYOCARDIALO INFARCTION Measurements of hemody-namic changes and calculations of right-to-lefts intrapulmonary shunts were made in a series of patients shortly after their admission to appropriate to appear the patients of patients and proceeding infarction research unit. When cally evident, arterial blood gases, calculated right-to-left intrapulmonary shunts, and pull-monary arterial pressures (PAP) were similared to values in patients with angina but no myocardial infarction. When CHF complicated the clinical picture, Pao. was lower, while shunt and PAP were increased. It appears that the arterial hypoxemia associated with