

CONTENTS OF VOLUME 45

No. 1, Spring 1978

I. Screening and the noninvasive evaluation of patients with coronary artery disease	
Utility of conventional risk factors in evaluation of patients with coronary disease	
<i>William B. Kannel, M.D., and P. Sorlie, M.D.</i>	1
Can we reverse or retard an obstructive coronary lesion by risk factor intervention?	
<i>Eliot Corday, M.D.</i>	5
Exercise testing: electrocardiography and radionuclide cineangiography	
<i>Jeffrey S. Borer, M.D.</i>	9
Stress testing in the evaluation of patients suspected of having coronary heart disease	
<i>Myrvin H. Ellestad, M.D.</i>	11
Myocardial scintigraphy in coronary artery disease	
<i>Elias H. Botwinick, M.D., David Shames, M.D., and William W. Parmley, M.D.</i>	13
Echocardiography in patients with coronary artery disease	
<i>Harvey Feigenbaum, M.D.</i>	17
II. Invasive techniques and their limitations	
Pitfalls in the angiographic diagnosis of coronary artery disease	
<i>Earl K. Shirey, M.D.</i>	19
Complications of coronary arteriography and left heart catheterization	
<i>F. Mason Sones, Jr., M.D.</i>	21
Assessment of left ventricular function	
<i>Shahbudin H. Rahimtoola, M.D.</i>	24
III. Preoperative and operative management	
Management of anesthesia for coronary artery surgery	
<i>F. George Estafanous, M.D.</i>	29
Ventilatory management	
<i>Demetrios G. Lappas, M.D.</i>	37
Hemodynamic consequences of hemodilution	
<i>Arthur S. Keats, M.D.</i>	39
Blood usage in open heart surgery	
<i>Alfred J. Tector, M.D.</i>	42
Choice of grafts	
<i>George E. Green, M.D.</i>	44
Choice of grafts—criteria for selection of coronary bypass conduit	
<i>Alexander S. Geha, M.D.</i>	46
Postoperative care	
<i>Daniel J. Ulliot, M.D.</i>	50
Hemodynamic considerations in the postoperative management of the cardiovascular surgical patient	
<i>Richard O. Russell, Jr., M.D., Nicholas T. Kouchoukos, M.D., and Robert B. Karp, M.D.</i>	54

IV.	Myocardial preservation	
	Myocardial preservation	<i>Burton E. Sobel, M.D.</i> 61
	Hypothermia and anoxic arrest	<i>Nicholas T. Kouchoukos, M.D.</i> 66
	Myocardial preservation by topical hypothermia	<i>Edward B. Stinson, M.D.</i> 70
	Intra-aortic balloon pumping in the management of patients with coronary artery disease	<i>Mortimer J. Buckley, M.D.</i> 72
	Pulsatile flow for improved myocardial protection	<i>David Bregman, M.D.</i> 76
V.	Surgical techniques	
	Technical considerations in coronary bypass operations	<i>Denton A. Cooley, M.D.</i> 79
	Superiority of the internal mammary artery as a coronary bypass graft	<i>John L. Ochsner, M.D.</i> 81
	Surgical techniques	<i>Ch. Hahn, M.D., Ninoslav Radovanovic, M.D., Martin Schmuziger, M.D., E. Hauf, M.D., and B. Faidutti, M.D.</i> 83
	Early and long-term results of combined endarterectomy and bypass grafting	<i>Magdi H. Yacoub, M.D.</i> 90
	Operative technique	<i>Adib D. Jatene, M.D.</i> 94
	Technique and results with side-to-side anastomoses	<i>William H. Sewell, M.D., and Karlene V. Sewell, B.A.</i> 98
	Operative technique for coronary bypass surgery	<i>Floyd D. Loop, M.D., Paul C. Taylor, M.D., Laurence K. Groves, M.D., Leonard A. Golding, M.D., Delos M. Cosgrove, M.D., and Manuel J. Ibarrazaval, M.D.</i> 101
	Techniques in coronary artery grafting; septal artery revascularization and graft patency in jump grafts	<i>F. E. E. Vermeulen, M.D., H. Huysmans, M.D., P. Knaepen, M.D., R. de Geest, M.D., J. Ernst, M.D., and Albert V. G. Bruschke, M.D.</i> 103
VI.	Outcome of revascularization surgery for coronary artery disease	
	Factors influencing graft patency	<i>Claude M. Grondin, M.D.</i> 107
	Factors influencing patency of coronary bypass grafts	<i>William C. Sheldon, M.D.</i> 109
	Global and regional myocardial metabolism before and after successful aortocoronary artery bypass surgery	<i>Kanu Chatterjee, M.D.</i> 112
	Postoperative assessment of left ventricular function	<i>Jack C. Manley, M.D.</i> 116
	Preoperative and postoperative stress evaluation in the assessment of coronary artery bypass graft surgery	<i>Ezra A. Amsterdam, M.D., and Dean T. Mason, M.D.</i> 121

VII.	Revascularization in the more complex clinical situation	
	Combined valve replacement or valvulotomy and bypass graft surgery	
	<i>Pierre Grondin, M.D., P. Donzeau-Gouge, M.D., O. Bical, M.D.,</i> <i>and Jean Georges Kretz, M.D.</i>	123
	Management of coexistent carotid and coronary artery occlusive atherosclerosis	
	<i>George C. Morris, Jr., M.D., Coyness L. Ennix, Jr., M.D.,</i> <i>Gerald M. Lawrie, M.D., E. S. Crawford, M.D.,</i> <i>and J. F. Howell, M.D.</i>	125
	Management of concomitant coronary and carotid artery obstructive disease	
	<i>Harold C. Urschel, Jr., M.D.</i>	128
	Ventricular aneurysms and akinesis	
	<i>Denton A. Cooley, M.D.</i>	130
	Ventricular aneurysms and akinesis	
	<i>Ramiro Rivera, M.D., and Juan Luis Delcan, M.D.</i>	133
	Reoperation for myocardial revascularization	
	<i>Quentin R. Stiles, M.D.</i>	136
	Reoperative myocardial revascularization	
	<i>Floyd D. Loop, M.D., Manuel J. Irrarrazaval, M.D.,</i> <i>Delos M. Cosgrove, M.D., Paul C. Taylor, M.D.,</i> <i>Laurence K. Groves, M.D., and Leonard A. Golding, M.D.</i>	139
VIII.	Natural history of patients not treated surgically	
	Minor prognostic associations	
	<i>William L. Proudfit, M.D.</i>	141
	Ten-year follow-up of 601 nonsurgical cases of angiographically documented coronary disease; angiographic correlations	
	<i>Albert V. G. Brusckhe, M.D.</i>	143
	Prognosis in coronary artery disease; arteriographic, ventriculographic, and hemodynamic factors	
	<i>John O. Parker, M.D.</i>	145
	Risk factors in relation to prognosis	
	<i>Albert Oberman, M.D., and James C. Baldone, M.S.</i>	147
	Coronary arteriography and ventriculography in survivors of acute myocardial infarction	
	<i>J. O'Neal Humphries, M.D., Bertram Pitt, M.D., Robert A. Schultze, Jr., M.D., Lawrence S. C. Griffith, M.D., S. C. Achuff, M.D.,</i> <i>M. Baird, M.D., and G. Taylor, M.D.</i>	151
	Natural history of coronary artery disease based on coronary angiography; a critical review	
	<i>Paul R. Lichtlen, M.D.</i>	153
IX.	Long-term outcome of patients treated surgically	
	Survival following bypass graft surgery	
	<i>Edwin L. Alderman, M.D., Christopher R. Brown, M.D.,</i> <i>Gary R. Sanders, M.D., and Edward B. Stinson, M.D.</i>	157
	Survival following aortocoronary bypass graft surgery	
	<i>Lucien Campeau, M.D.</i>	160

Long-term follow-up after coronary artery bypass		
	<i>Robert J. Hall, M.D., Efrain Garcia, M.D., Virendra S. Mathur, M.D., Ulrich Busch, M.D., Denton A. Cooley, M.D., Kenneth A. Gold, M.D., and Albert G. Gray, Ph.D.</i>	162
Effect of bypass graft surgery on survival; a 6- to 10-year follow-up study of 741 patients	<i>William C. Sheldon, M.D.</i>	166
Survival following myocardial revascularization; an analysis at 8 years	<i>John A. Walker, M.D.</i>	169
Perioperative myocardial infarction after coronary bypass surgery	<i>Albert Oberman, M.D., Nicholas T. Kouchoukos, M.D., Y. N. Makar, M.D., Richard O. Russell, Jr., M.D., L. T. Sheffield, M.D., M. Ray, M.S., R. E. Allen, P.A., and J. R. Kitts, P.A.</i>	172
Progression of coronary disease 5 to 7 years after aortocoronary bypass surgery	<i>Martial G. Bourassa, M.D., Jacques Lesperance, M.D., F. Corbara, M.D., J. Saltiel, M.D., and Lucein Campeau, M.D.</i>	175
Contributing factors preventing return to work of cardiac surgery patients	<i>Paul David, M.D.</i>	177
X. Selection of patients for myocardial revascularization		
The bad left ventricle	<i>Martial G. Bourassa, M.D.</i>	179
Selection of patients for emergency coronary revascularization	<i>Lawrence H. Cohn, M.D.</i>	181
Unstable angina—experience with surgical therapy in the subset of patients having preinfarction angina	<i>Jack M. Matloff, M.D., Aurelio Chaux, M.D., and Hector Sustaita, M.D.</i>	184
XI. Summary of conference and definition of future needs		
Summary of conference	<i>René G. Favaloro, M.D.</i>	189