



# CONTENTS

Sources xiii

The Authors xvii

The Editors xxi

Foreword xxiii

*Risa Lavizzo-Mourey*

Editors' Introduction xxv

*Stephen L. Isaacs, James R. Knickman*

Acknowledgments xxix

## SECTION ONE: PRIMARY CARE AND THE EDUCATION OF GENERALIST PHYSICIANS: PAST, PRESENT, AND FUTURE

Editors' Introduction to Section One 3

### ORIGINAL ARTICLES

1 Primary Care Medicine and the Education of Generalist Physicians 5

*Jack M. Colwill*

2 Reconstructing Primary Care for the Twenty-First Century 48

*Kevin Grumbach, Thomas Bodenheimer*

## viii CONTENTS

**SECTION TWO: PRIMARY CARE AND THE ROLE OF GENERALIST PHYSICIANS****Editors' Introduction to Section Two 77****REPRINTS OF KEY REPORTS AND ARTICLES****3 The Ecology of Medical Care 81***Kerr L. White, T. Franklin Williams, Bernard G. Greenberg***4 The Need for a New Medical Model: A Challenge for Biomedicine 98***George L. Engel***5 Meeting the Challenge of Family Practice  
(The Willard Committee Report)—Introduction 117***Ad Hoc Committee on Education for Family Practice of the Council on  
Medical Education of the American Medical Association***6 The Generalist Function in Medicine 128***Edmund D. Pellegrino***7 General Internal Medicine at the Crossroads of Prosperity and Despair:  
Caring for Patients with Chronic Diseases in an Aging Society 138***Eric B. Larson***8 What Does Family Practice Need to Do Next?  
A Cross-Generational View 145***John P. Geyman, Erika Bliss***9 Should There Be a Merger to a Single Primary Care Specialty for the  
Twenty-First Century? An Affirmative View 162***Gerald T. Perkoff***10 The Generalist Role of Specialty Physicians:  
Is There a Hidden System of Primary Care? 170***Roger A. Rosenblatt, L. Gary Hart, Laura-Mae Baldwin,  
Leighton Chan, Ronald Schneeweiss***11 Primary Care and Health: A Cross-National Comparison 187***Barbara Starfield***12 Primary Care in a New Era: Disillusion and Dissolution? 197***Lewis G. Sandy, Steven A. Schroeder*

**ABSTRACTS FROM THE LITERATURE 210**

*REPRINT FROM TO IMPROVE HEALTH AND HEALTH CARE: THE ROBERT WOOD JOHNSON  
FOUNDATION ANTHOLOGY*

**13 Improving the Health Care Workforce:  
Perspectives from Twenty-Four Years' Experience 228**

*Stephen L. Isaacs, Lewis G. Sandy, Steven A. Schroeder*

**GRANT REPORT SUMMARIES FROM THE ROBERT WOOD JOHNSON FOUNDATION 255****SECTION THREE: SUPPLY AND DISTRIBUTION****Editors' Introduction to Section Three 263****REPRINTS OF KEY REPORTS AND ARTICLES****14 Improving Access to Health Care Through Physician Workforce Reform:  
Directions for the Twenty-First Century—Findings 265**

*Council on Graduate Medical Education*

**15 A Manpower Policy for Primary Health Care:  
Introduction and Summary 270**

*Institute of Medicine*

**16 The Elusive Generalist Physician: Can We Reach a 50 Percent Goal? 281**

*David A. Kindig, James M. Cultice, Fitzhugh Mullan*

**17 Economic and Demographic Trends Signal an  
Impending Physician Shortage 294**

*Richard A. Cooper, Thomas E. Getzen, Heather J. McKee, Prakash Laud*

**18 The Ramifications of Specialty-Dominated Medicine 309**

*Kevin Grumbach*

**19 Influence of Income, Hours Worked, and Loan Repayment on  
Medical Students' Decision to Pursue a Primary Care Career 313**

*Michael P. Rosenthal, James J. Diamond, Howard K. Rabinowitz,  
Laurence C. Bauer, Robert L. Jones, Gary W. Kearl, Robert B. Kelly, Kent J. Sheets,  
Arnold Jaffe, A. Patrick Jonas, Mack T. Ruffin IV*

**20 Physicians and Rural America 321**

*Roger A. Rosenblatt, L. Gary Hart*

## X CONTENTS

## ABSTRACTS FROM THE LITERATURE 331

*REPRINT FROM TO IMPROVE HEALTH AND HEALTH CARE: THE ROBERT WOOD  
JOHNSON FOUNDATION ANTHOLOGY*

## 21 Practice Sights: State Primary Care Development Strategies 347

*Irene M. Wielawski*

## GRANT REPORT SUMMARIES FROM THE ROBERT WOOD JOHNSON FOUNDATION 369

## SECTION FOUR: EDUCATION AND TRAINING

## Editors' Introduction to Section Four 379

## REPRINTS OF KEY REPORTS AND ARTICLES

## 22 The Graduate Education of Physicians (The Millis Commission Report)—Chapter 5—Comprehensive Health Care 381

*Citizens' Commission on Graduate Medical Education*

23 The Education of Physicians for Primary Care (Excerpt):  
The Elements of a Successful Program 396

*Joel J. Alpert, Evan Charney*

## 24 Residency Training in Internal Medicine: Time for a Change? 422

*Steven A. Schroeder, Jonathan A. Showstack, Barbara Gerbert*

25 The Education of Pediatricians for Primary Care:  
The Score After Two Score Years 440

*Evan Charney*

## 26 Sustaining the Development of Primary Care in Academic Medicine 445

*Thomas S. Inui, W. T. Williams Jr., Leslie Goode, Ron J. Anderson, Karyn N. Bhak,  
John D. Forsyth, John J. Hutton, Andrew G. Wallace, Robert M. Daugherty Jr.*

## ABSTRACTS FROM THE LITERATURE 468

*REPRINT FROM TO IMPROVE HEALTH AND HEALTH CARE: THE ROBERT WOOD  
JOHNSON FOUNDATION ANTHOLOGY*

27 Influencing Academic Health Centers: The Robert Wood Johnson  
Foundation Experience 484

*Lewis G. Sandy, Richard Reynolds*

## GRANT REPORT SUMMARIES FROM THE ROBERT WOOD JOHNSON FOUNDATION 498

**SECTION FIVE: QUALITY AND COST**

**Editors' Introduction to Section Five 505**

*Part A: Generalists and Specialists*

**REPRINTS OF KEY REPORTS AND ARTICLES**

**28 Comparing Generalist and Specialty Care:  
Discrepancies, Deficiencies, and Excesses 509**

*Martin T. Donohoe*

**ABSTRACTS FROM THE LITERATURE 541**

*Part B: Nurse Practitioners and Other Nonphysician Practitioners*

**REPRINTS OF REPORTS AND KEY ARTICLES**

**29 Quality of Patient Care by Nurse Practitioners and  
Physician's Assistants: A Ten-Year Perspective 561**

*Harold C. Sox Jr.*

**30 Primary Care Outcomes in Patients Treated by  
Nurse Practitioners or Physicians: A Randomized Trial 583**

*Mary O. Mundinger, Robert L. Kane, Elizabeth R. Lenz, Annette M. Totten,  
Wei-Yann Tsai, Paul D. Cleary, William T. Friedewald, Albert L. Siu,  
Michael L. Shelanski*

**ABSTRACTS FROM THE LITERATURE 607**

*REPRINT FROM TO IMPROVE HEALTH AND HEALTH CARE: THE ROBERT WOOD JOHNSON  
FOUNDATION ANTHOLOGY*

**31 Support of Nurse Practitioners and Physician Assistants 611**

*Terrance Keenan*

**GRANT REPORT SUMMARIES FROM THE ROBERT WOOD JOHNSON FOUNDATION 625**

**Name Index 631**

**Subject Index 639**

