Contents

Chapter 1	Medical Thinking: An Introduction	1
	Research in Medical Decision Making: Definitions, Theories, and Methods Organization of this Book Summary	4 17 24
Chapter 2	The Acquisition of Medical Data	26
	The Quality of the Data Produced by Diagnostic Procedures The Quality of the Data Recorded by Physician–Observers The Development of Signal Detection Theory Medical Applications of Signal Detection Theory Summary	28 35 41 46 55
Chapter 3	Evaluating Medical Information	56
	Probability Revision and Bounded Rationality Judgment Heuristics and Biases Information Integration Summary	57 63 82 96
Chapter 4	Choosing Actions	97
	Steps in Risky Decision Making A Prescriptive Example Structuring the Decision Task Assessing the Probability of Outcomes Utility Measurement Comparing Costs and Benefits Summary	98 99 106 115 125 147 156



Contents

Chapter 5	Learning, Feedback, and Decision Aids	158
	Measuring Doctors' Performance	160
	Training in Decision Making	166
	The Nature of Medical Expertise	176
	Learning from Experience	193
	Automatic and Algorithmic Decision Making	198
	Summary	214
Chapter 6	Interpersonal, Social, and Economic Factors in	
	Medical Decision Making	216
	Interpersonal and Social Factors in Patient Care	216
	Economic Aspects of Medical Decisions	228
	Toward the Future	232
	Summary	234
References		236
Author Index		264
Subject Index		272