

Contents

1 Summary, Issues and Options	1
Health Risk Assessment Research at Federal Agencies	3
Linking Health Risk Research to Decisionmaking	12
Prospects for the Future	19
Introduction to Issues and Options	20
Issues in Health Risk Research, Structure and Funding	22
Issues in Linking Research to Decisionmaking (Radon as a Case Study)	36
2 An Introduction to Health Risk Assessment and Its Research Base	45
Research Data for Health Risk Assessment	48
The Health Risk Assessment Process	50
Issues in Health Risk Assessment	54
Why Conduct Risk Assessment Research?	60
Summary	63
Chapter 2 References	63
3 Federal Research in Health Risk Assessment	67
Research at the Federal Agencies	67
Trends and Gaps	81
Summary	83
Chapter 3 References	83
4 Setting Priorities for Risk Assessment Research	87
Categorizing Health Risk Assessment Research	88
Federal Resources for Health Risk Assessment Research	93
National Research Priorities	98
Agency Priorities	102
Programmatic priorities and Program Management	108
Administrative Tools for Priority-Setting	109
Findings and Conclusions	112
Chapter 4 References	115

5 Research and Decisionmaking	119
Impact of Research on Risk Assessment Guidelines and Decisionmaking	120
The Interdependency of Research and Decisionmaking	130
The Limits of Science in Social Decisions	133
Linking Health Risk Research to Decisionmaking	137
summary	140
Chapter 5 References	141
6 Indoor Radon: A Case Study in Decisionmaking	145
How Large Is the Waterborne Radon Problem?	146
Radon, Mining, and Indoor Exposures	146
Epidemiologic Studies of Radon-Related Lung Cancer	149
Policy	154
The Future	165
Chapter 6 References	167
7 Structuring the Future of Health Risk Assessment Research	171
Structuring a High-Quality Research Program	172
Prospects for Research	174
Fostering Research Linkages	181
Summary and Conclusions	183
Chapter 7 References	184

APPENDIXES

A International Risk Assessment	187
B Department of Health and Human Services Organization Chart	211
C Federal Obligations for Health R&D by Source or Performer	212
D FY 1992 Estimates of Funding Support by DHHS Agencies	214
E List of Abbreviations	216
F Acknowledgments	220

INDEX	225
--------------	------------