

# Contents

<b>Preface</b>	<b>ix</b>
<b>Acknowledgments</b>	<b>xiii</b>
<b>About the Author</b>	<b>xv</b>

<b>Part I</b>	<b>Fundamentals of a Literature Review</b>	<b>1</b>
	<b>Chapter 1 Introduction</b>	<b>3</b>
	Review of the Literature	4
	Well Beyond Index Cards	5
	To Own the Literature	6
	Research Synthesis: Historical Perspective	8
	Guidelines for Designing and Reporting Better Studies	15
	Guidelines for Expert-Led Reviews	19
	PRISMA, PROSPERO, and a Journal	22
	IOM Standards for Systematic Reviews: Finding What Works in Health Care	25
	Scoping Reviews: Finding the Gaps in Existing Literature	26
	Future Guidelines and Revisions in the Health Sciences Literature	27
	Differences Between Systematic Reviews, Scoping Reviews, and Reviews of the Literature	29
	The Matrix Method: Definition and Overview	31
	Review Matrix: A Versatile Tool	32
	Overview of Chapters and Appendices	33
	References to Websites	36

Caroline's Quest: Understanding the Process 36  
What You Should Know or Be Able to Do by the  
End of This Chapter 37  
References 38

**Chapter 2 Basic Concepts 43**

Source Materials Defined 43  
Different Kinds of Source Materials 44  
Anatomy of a Scientific Paper: Finding What You Need  
in a Typical Research Paper 51  
A Methodological Review of the Literature:  
The Methods Map 56  
Caroline's Quest: Learning the Concepts 84  
What You Should Know or Be Able to Do by the  
End of This Chapter 86  
References 93

**Part II**

**The Matrix Method 95**

**Chapter 3 Paper Trail Folder: How to Plan and  
Manage a Search of the Literature 97**

What Is a Paper Trail? 97  
How to Organize a Paper Trail Folder 98  
Resources for Creating and Using a Paper Trail 101  
Tips on Searching for Source Documents 116  
Caroline's Quest: Managing the Search 119  
What You Should Know or Be Able to Do by the  
End of This Chapter 124  
References 124

**Chapter 4 Documents Folder: How to Select and  
Organize Documents for Review 127**

Remember to Record the Initial Number of Source  
Documents 128  
What to Include in a Source Documents Subfolder 128  
How to Select Source Documents for Your Review 129  
How to Organize a Source Documents Subfolder 131  
How to Remember Where You Put the Documents 132  
PRISMA Flowchart Subfolder: How to Track the Number  
of Source Documents from Initiation to Completion  
of Review 133  
Caroline's Quest: Assembling and Organizing  
a Documents Folder 135

What You Should Know or Be Able to Do by the End of This Chapter	137
Reference	138

### **Chapter 5 Review Matrix Folder: How to Abstract the Research Literature 139**

What Is a Review Matrix?	139
How to Organize a Review Matrix Folder	141
How to Construct a Review Matrix: Rule of Rows	142
How to Choose Column Topics for a Review Matrix	143
How to Select and Organize Documents in a Review Matrix	147
How to Analyze Documents in a Review Matrix	148
Fringe Benefits of the Abstracting Process	153
Caroline's Quest: Constructing and Using a Review Matrix	156
What You Should Know or Be Able to Do by the End of This Chapter	160
References	160

### **Chapter 6 Synthesis Folder: How to Use a Review Matrix to Write a Synthesis 161**

What Is a Synthesis?	161
How to Organize a Synthesis Folder	163
How to Use a Review Matrix to Write a Synthesis	164
How to Write a Synthesis of the Literature	166
Finalizing the PRISMA Flowchart of Documents	170
Examples: Use of the Matrix Method and PRISMA Flowchart in the Peer-Reviewed Literature	170
Caroline's Quest: Writing a Synthesis	172
What You Should Know or Be Able to Do by the End of This Chapter	175
References	175

## **Part III Applications Using the Matrix Method 177**

### **Chapter 7 A Library of Master Folders 179**

What Is a Library of Master Folders?	179
How to Create a Library of Master Folders	180
How to Use a Library of Master Folders	181
Making the Most of the Matrix Method	182
Caroline's Quest: Building Her Own Library of Master Folders	189
Reference	190

**Chapter 8 The Matrix Indexing System 191**

- What Is the Matrix Indexing System? 191
- How to Set Up a Matrix Indexing System 192
- How to Expand the Source Documents Subfolder 198
- How to Efficiently Update a Synthesis 199
- Caroline's Quest: Using the Matrix Indexing System 200
- References 201

**Chapter 9 Matrix Applications by Health Sciences Professionals 203**

- What Are Matrix Applications? 203
- How to Use Matrix Applications in a Research Project 205
- How to Use Matrix Applications in a Meta-Analysis 206
- How to Use Matrix Applications in Practice Guidelines 207
- How to Use Matrix Applications in Evidence-Based Medicine 209
- Caroline's Quest: Matrix Applications in Nonscientific Settings 211
- References 214

**Appendix A Useful Resources for Literature Reviews 217**

**Appendix B Structure of Computer Folders for the Matrix Method 225**

**Appendix C Data Visualization: A Digital Exploration 231**

**Index 233**