Contents

Contributors ix Preface xiii

SECTION 1 Clinical reasoning and clinical decision making - nature and context

1. Clinical decision making and multiple problem spaces 3 Joy Higgs and Mark A. Jones

2. The context for clinical decision making in the 21st century 19 Della Fish and Joy Higgs

9. Dimensions of clinical reasoning capability 101 Nicole Christensen, Mark A. Jones, Joy Higgs and Ian Edwards

V

SECTION 2 Reasoning, expertise and knowledge 111

10. The development of clinical reasoning expertise 113 Henny P.A. Boshuizen and Henk G. Schmidt

- 3. Clinical reasoning and models of practice 31 Franziska Trede and Joy Higgs
- 4. Collaborative decision making 43 Franziska Trede and Joy Higgs
- 5. Action and narrative: two dynamics of clinical reasoning 55 Maureen Hayes Fleming and Cheryl Mattingly
- 6. Clinical reasoning and generic thinking skills 65 Stephen Brookfield
- 7. Clinical reasoning and patient-centred care 77 Sue Atkins and Steven J. Ersser
- 8. Factors influencing clinical decision making 89 Megan Smith, Joy Higgs and Elizabeth Ellis

- 11. Expertise and clinical reasoning 123 Gail Jensen, Linda Resnik and Amy Haddad
- 12. Clinical reasoning and biomedical knowledge: implications for teaching 137 David R. Kaufman, Nicole A. Yoskowitz and Vimla L. Patel
- 13. Knowledge, reasoning and evidence for practice 151 Joy Higgs, Mark A. Jones and Angie Titchen
- 14. Knowledge generation and clinical reasoning in practice 163 Joy Higgs, Della Fish and Rodd Rothwell
- 15. Understanding knowledge as a sociocultural historical phenomenon 173 Dale Larsen, Stephen Loftus and Joy Higgs



vi Contents

16. Professional practice judgement artistry 181 Margo Paterson and Joy Higgs

SECTION 3 Clinical reasoning research trends 191

17. Methods in the study of clinical reasoning 193 José F. Arocha and Vimla L. Patel

18. A history of clinical reasoning research 205 Stephen Loftus and Megan Smith

19. A place for new research directions 213

SECTION 5 Communicating about clinical reasoning 329

30. Learning to communicate clinical reasoning 331 Rola Ajjawi and Joy Higgs

- 31. Learning the language of clinical reasoning 339 Stephen Loftus and Joy Higgs
- 32. Beyond the restitution narrative: lived bodies and expert patients 349 Suzanne Alder and Debbie Horsfall

Joy Higgs and Stephen Loftus

SECTION 4 Clinical reasoning and clinical decision-making approaches 221

20. Clinical reasoning in medicine 223 Alan Schwartz and Arthur S. Elstein

- 21. Clinical reasoning in nursing 235 Marsha E. Fonteyn and Barbara J. Ritter
- 22. Clinical reasoning in physiotherapy 245 Mark A. Jones, Gail Jensen and Ian Edwards
- 23. Clinical reasoning in dentistry 257 Shiva Khatami, Michael I. MacEntee and Stephen Loftus

24. Clinical reasoning in occupational therapy 265

33. Facilitating clinical decision making in students in intercultural fieldwork placements 357 Lindy McAllister and Gail Whiteford

34. Using decision aids to involve clients in clinical decision making 367 Lyndal Trevena, Alex Barratt and Kirsten McCaffery

SECTION 6 Teaching and learning clinical reasoning 377

35. Teaching and learning clinical reasoning 379 Susan Ryan and Joy Higgs

36. Helping physiotherapy students develop clinical reasoning capability 389 Nicole Christensen, Mark A. Jones, Ian Edwards and Joy Higgs

Chris Chapparo and Judy Ranka

- 25. Ethical reasoning 279 Ian Edwards and Clare Delany
- 26. Multidisciplinary clinical decision making 291 Anne Croker, Stephen Loftus and Joy Higgs
- 27. Treatment decision making in the medical encounter: the case of shared decision making 299 Cathy Charles, Amiram Gafni and Tim Whelan
- 28. Algorithms, clinical pathways and clinical guidelines 309 Karen Grimmer and Stephen Loftus
- 29. Clinical reasoning to facilitate cognitiveexperiential change 319 Mark A. Jones and Ian Edwards

- 37. Speech–language pathology students: learning clinical reasoning 397 Lindy McAllister and Miranda Rose
- 38. Teaching clinical reasoning in nursing education 405 Suzanne Narayan and Sheila Corcoran-Perry
- **39. Assessing clinical reasoning 413** *C.P.M. van der Vleuten, G.R. Norman and L.W.T. Schuwirth*
- 40. Using simulated patients to teach clinical reasoning 423 Helen Edwards and Miranda Rose
- 41. Peer coaching to generate clinical reasoning skills 433 Richard Ladyshewsky and Mark A. Jones



Contents vii

- 42. Using open and distance learning to develop clinical reasoning skills 441 Janet Grant
- 43. Cultivating a thinking surgeon: using a clinical thinking pathway as a learning and assessment process 451 Della Fish and Linda de Cossart
- 44. Teaching clinical reasoning and culture 461 Elizabeth Henley and Robyn Twible
- 45. Teaching clinical reasoning to medical students 469

46. Using case reports to teach clinical reasoning 477 Darren A. Rivett and Mark A. Jones

47. Using mind mapping to improve students' metacognition 485 Mary Cahill and Marsha Fonteyn

Index 493

Ann Sefton, Jill Gordon and Michael Field

Kula Ajjawi Kaepsel Penennengritten Pollander Kanter in Medical Education, Control of Material Education in Professional Health Education in Control of Material Education in Professional Health Education in Control of Material Education in Professional Health Education in Professional Health Education in Professional Health Professional Health Professional Health Professional Professiona

Econy P.A. Boshuizen PhD Second of Education and Educational Chology: Dean of the Master Programme on Chattenal Design for Active Learning. The Second

Schen D. Brookfield PhD Stransked Liniversity Professor, University of St. Schenger, Minneapolis-St. Paul, USA Annie Croker BAmsolThysio) GradDipPublicDealth : PhD Condidate, Charles-Sture Uniteenity, Australia

Lare Delany EdippieciPhysic MPhysic(manin) MPHH

