Contents

Contributors xiii

Foreword Professor Jenny Butler xv

Preface xvii

Acknowledgements xix

Introduction 1

Alison Laver Fawcett

Occupational Therapy and Physiotherapy 2
Labels Used for Providers and Recipients of Therapy Services 3
The Importance of the Selection and Application of Terminology in Practice 3
Definitions of Key Terms 4
Summary of Definitions 12

1 The Importance of Accurate Assessment and Outcome Measurement 15

Alison Laver Fawcett

Chapter Summary 16
Assessment as a Core Part of the Therapy Process 16
The Impact of Health and Social Care Policy on Assessment Practice 17
The Demand for Evidence-based Practice 18
So How Do You Track Down the Best Evidence? 20
Levels of Evidence and Grades of Recommendations 21
The Application of Standardised Assessments 22
The Use of Standardised Versus Non-standardised Assessments 23
Benefits of Applying Standardised Measures 25
The Requirement to Demonstrate Effectiveness 26
A Focus on Client-centred Practice 28
The Use of Standards, Protocols, Guidelines and Care Pathways 29
The Complexity of Assessment 32
The Nature of Therapeutic Practice 33
The Nature of Human Occupation and Occupational Performance 34
The Complexity of Measuring Human Function 36
The Influence of the Level of Task Demand 38
The Impact of Familiarity on Performance 39
The Influence of Environment on Performance 39
2 Methods of Assessment and Sources of Assessment Data

Alison Laver Fawcett, Sally Payne and Claire Howell

Chapter Summary
Methods of Data Collection
Introduction to Sources of Assessment Information
Self-report
Interviewing as a Means of Collecting Self-report Data
Communication, Insight and Capacity Issues
Cultural Issues and Self-report Data Collection
Examples of Self-report Assessments
Proxy Report
Examples of Assessments that Use Information from a Proxy
Measures that Assess the Proxy
Observational Assessment Methods
Examples of Observational Assessment
Combining Methods
Examples of How Therapists Combine Different Assessment Methods
Documentation
Confidentiality
Further reading
Case Study: ‘Scott’
Reflecting on the Data-collection Methods You Use in Your Practice
Study Questions

3 Purposes of Assessment and Measurement

Alison Laver Fawcett and Karen Innes

Chapter Summary
Timing of Assessment in the Therapy Process
Introduction to Purposes of Assessment
Descriptive Assessments
Discriminative Assessments
Predictive Assessments
Evaluative Assessment
Assessment for Particular Purposes
Sharing Your Purpose
Case Vignette: ‘Mr Smith’
Service Evaluation
Case Study: Service Evaluation – The Memory Activity and Self Help Group
Reflecting on Purposes of Assessment in Your Own Practice
Study Questions

4 Levels of Measurement

Alison Laver Fawcett

Chapter Summary
What is Measurement?
What is Measurement Theory?
The Assignment of Numbers for the Purposes of Assessment
Levels of Measurement

Nominal Scales
Ordinal Scales
Interval Scales
Ratio Scales
Application of Different Levels of Measurement
Guttman Scaling
Rasch Analysis
Applying Concepts of Levels of Measurement to Your Own Practice
Study Questions

Standardisation and Test Development

Chapter Summary
Standardised Assessments
Why Should Therapists Use Standardised Tests?
What is a Standardised Test?
What is an Un-standardised Assessment?
Standardisation
Test Construction Decisions
Criterion-referenced Tests
Norm-referenced Tests
Criteria for Judging Norms
Terminology Related to Norm-referenced Tests
Training and Interpreting Standardised Test Scores
Psychometric Properties
Worksheets
Study Questions

Validity and Clinical Utility

Chapter Summary
Definition of Validity
Content Validity
Construct Validity
Criterion-related Validity
Other Types of Validity
Establishing the Overall Validity of a Test
Face Validity
Clinical Utility
Examining Validity and Clinical Utility Issues: Test Examples
Applying Concepts of Validity to Your Own Practice
Study Questions

Reliability

Chapter Summary
Introducing the Concept of Reliability
Defining Reliability
Reliability Coefficients and Standard Error of Measurement
Standard Error of Measurement and Confidence Interval 196
Introduction to Types of Reliability 197
Test–retest Reliability 197
Inter-rater Reliability 198
Intra-rater Reliability 199
Rater Severity 199
Parallel Form Reliability (Equivalent or Alternate Form) 199
Internal Consistency 199
Methodological Issues 200
Test Specificity 201
Test Sensitivity 202
Floor and Ceiling Effects 204
Reliability Statistics 205
The Statistic Can Affect the Result 206
Comparing Statistical Methods for Evaluating Reliability 208
Examining Reliability Data: Test Examples 208
Conclusion 211
Applying Concepts of Reliability to Your Own Practice 211
Study Questions 212

8 Test Administration, Reporting and Recording 213
Alison Laver Fawcett and Rachael Hargreaves

Chapter Summary 214
Step 1: Preparation for Testing 214
Step 2: Test Administration 219
Step 3: Scoring 224
Step 4: Analysis of Scores 224
Step 5: Interpreting Test Scores 224
Step 6: Decision-making in Light of the Interpretation of Test Scores 224
Step 7: Client Feedback About the Test Results and Implications 225
Step 8: Recording and Reporting Results 225
Case Study: James’s Assessment of Motor and Process Skills (AMPS) Report 228
Worksheet 232
Study Questions 232

9 Applying Models of Function to Therapy Assessment and Measurement 233
Alison Laver Fawcett and David Jelley

Chapter Summary 234
Why Use Models? 234
The Complexity of Human Function 235
General Systems Theory and the Hierarchy of Living Systems 236
International Classification of Impairments, Disabilities and Handicaps 240
Wade’s Four-level Model for People with Stroke 243
Five-level Model of Function and Dysfunction 244
International Classification of Functioning, Disability and Health 252
Applying the International Classification of Functioning, Disability and Health to Therapy Assessment 256
Top-down Versus Bottom-up Assessment Approach 261
Conclusion 263
10 The Importance of Clinical Reasoning and Reflective Practice in Effective Assessment

*Alison Laver Fawcett and Karen Innes*

Chapter Summary 282
Clinical Reasoning as an Essential Component of Practice 282
Clinical Judgement and Clinical Reasoning 284
Scientific Reasoning 285
Diagnostic Reasoning and the Therapy Diagnosis 288
Problem-orientated Clinical Reasoning Process 291
Therapy Diagnosis 295
Introduction to Other Forms of Reasoning 299
Interactive Reasoning 299
Conditional Reasoning 300
Narrative Reasoning 300
Pragmatic Reasoning 303
Ethical Reasoning and Moral Reasoning 305
Reflective Practice 305
Reflective Practice as a Component of Continuing Professional Development 307
Cognitive Dissonance 310
Novice to Expert Continuum 314
Further Reading 317
Case Study: Mrs Ellis’ Initial Assessment Process 318
Worksheet 334
Study Questions 335

11 Implementing the Optimum Assessment and Measurement Approach

*Alison Laver Fawcett*

Chapter Summary 338
Improving Assessment and Measurement Practice: Where to Begin? 338
Improving Your Assessment Process 342
Selecting Tests 345
Test Critique 350
Obtaining Permission to Use a Test for Your Clinical Practice or for Research 360
Modifying a Standardised Test 360
Linking Improving Your Assessment Practice to Continuing Professional Development 360
Assessment and Outcome Measurement Goals for Effective Practice 361
Conclusion: Achieving an Effective and Efficient Assessment 364
Study Questions and Tasks 365

12 The Final Case Study ‘Carol’: Experience of a Chronic Pain Service

*Alison Laver Fawcett, Gail Brooke and Heather Shaw*

Introduction to the Therapists and the Chronic Pain Service 368
Standardised Measures Used in the Service 369
Introduction to the Case: ‘Carol’ 370
Referral 370
Initial Assessment 370
Multidisciplinary Team Half-day Clinic Assessment Process 372
Medical Assessment 373
Physiotherapy Assessment 373
Occupational Therapy Assessment 375
Multidisciplinary Team Meeting with Carol 379
Individual Treatment Sessions with the Physiotherapist 380
Individual Treatment Sessions with the Occupational Therapist 381
The Group Intervention Programme: Turnabout 382
Outcome Measurement and Discharge 385
First Follow-up Evaluation 385
Six-month Follow-up Evaluation 386
Service Review 387

Brief Answers to Study Questions 389

Worksheets 395

Glossary 419

List of Abbreviations 427

References 431

Index 455