Contents

| | Introduction | xxiii |
|----|--|-------|
| 1. | Basic Principles of Fluoroscopically-guided Procedures | 1 |
| | Jeremy Simon | |
| | Sterile Preparation 1 Needle-Driving 2 Fluoroscopy 2 Contrast 4 Anticoagulants 4 | |
| 2. | Lumbar Disc Herniation with Radiculopathy: Selective Spinal Nerve Injection | 8 |
| | Lisa Marino, Jeremy Simon | |
| | Chief Complaint 8 | |
| | History of Presenting Illness 8 | |
| | Past Medical/Surgical History 9 | |
| | • Review of Systems 9 | |
| | • Family History 9 | |
| | Social History 9 | |
| | Current Medications 9 Allergies 0 | |
| | Allergies 9Physical Examination 9 | |
| | • Imaging Studies 10 | |
| | Electrodiagnostic Studies 10 | |
| | • Diagnosis 10 | |
| | • Treatment 10 | |
| 3. | Lumbar Disc Herniation with Radiculopathy: Lumbar Transforaminal Epidural Steroid Injection | 17 |
| | Natacha Falcon, Jeremy Simon | |
| | Chief Complaint 17 | |
| | History of Present Illness 17 | |
| | Review of Systems 17 | |
| | | |

| xiv _ | | Interventional Spine Procedures—A Case-based Approach | |
|-------|----|---|----|
| | | Past Medical History 18 | |
| | | Surgical History 18 | |
| | | • Medications 18 | |
| | | • Allergies 18 | |
| | | Family History 18 | |
| | | Social History 18 | |
| | | Physical Examination 18 | |
| | | • Imaging 19 | |
| | | • Diagnosis 19 | |
| | | • Noninterventional Treatment Options 20 | |
| | | • Interventional Options 20 | |
| | | • Patient Discussion 21 | |
| | | • Plan 21 | |
| | 4. | Lumbar Spinal Stenosis with Radiculopathy | 25 |
| | | Michael Molter, Jeremy Simon | |
| | | • Chief Complaint 25 | |
| | | History of Present Illness 25 | |
| | | Past Medical History 26 | |
| | | Past Surgical History 26 | |
| | | • Review of Systems 26 | |
| | | Family History 26 | |
| | | Social History 27 | |
| | | • Medications 27 | |
| | | • Allergies 27 | |
| | | Physical Examination 27 | |
| | | • Diagnosis 28 | |
| | | • Treatment Options 29 | |
| | | • Complications/Pitfalls 32 | |
| | 5. | Coccygodynia | 37 |
| | | Michael J Mehnert, Ferheen Shamim, Patrick M Foye | |
| | | Chief Complaint 37 | |
| | | History of Present Illness 37 | |
| | | Past Medical/Surgical History 38 | |
| | | Review of Systems 38 | |
| | | Family History 38 | |
| | | Social History 38 | |

• Current Medications 38

Contents xv

| | Allergies 38 | |
|----|---|----|
| | Physical Examination 38 | |
| | • Imaging 39 | |
| | • Diagnosis 39 | |
| | Differential Diagnosis 40 | |
| | Coccygodynia 40 | |
| | • Treatment Options 41 | |
| | Interventional Options 41 | |
| | • Plan 42 | |
| | • Procedure 42 | |
| | • Concerns, Pitfalls and Tips 44 | |
| 6. | Lumbar Facet Syndrome | 50 |
| | Jeremy Simon, Kelly Williams | |
| | Chief Complaint 50 | |
| | History of Present Illness 50 | |
| | Past Medical History 51 | |
| | Past Surgical History 51 | |
| | • Review of Systems 51 | |
| | • Family History 51 | |
| | • Social History 51 | |
| | Current Medications 51 | |
| | • Allergies 51 | |
| | Physical Examination 51 | |
| | • Imaging 52 | |
| | • Diagnosis 53 | |
| | • Treatment Options 53 | |
| | Interventional Options 54 | |
| | • Sample Procedure Notes 57 | |
| 7. | Sacroiliac Joint Pain | 61 |
| | Ari Greis, Melissa Guanche | |
| | Chief Complaint 61 | |
| | History of Present Illness 61 | |
| | Past Medical History 61 | |
| | Past Surgical History 62 | |
| | • Review of Systems 62 | |
| | • Family History 62 | |
| | Social History 62 | |

8. Cervical Disc Herniation with Radiculopathy

Theodore Conliffe, Jeremy Simon, Zachary Broyer

71

• Current Medications 62

• Physical Examination 62

• Treatment Options 66 • Interventional Options 66

• Chief Complaint 71

• Allergies 62

• Imaging 63 • Diagnosis 64

| History of Present Illness 71 |
|---|
| Past Medical History 72 |
| Past Surgical History 72 |
| • Family History 72 |
| Medications 72 |
| • Allergies 73 |
| Social History 73 |
| • Review of Systems 73 |
| Physical Examination 73 |
| Imaging Studies 74 |
| • Diagnosis 74 |
| • Treatment Options 74 |
| • Indications 75 |
| • Discussion 76 |
| Clinical Outcome 77 |
| |
| 9. Cervical Disc Herniation without Radiculopathy 79 |
| 9. Cervical Disc Herniation without Radiculopathy 79 Gautam Kothari, Jeremy Simon |
| Gautam Kothari, Jeremy Simon |
| Gautam Kothari, Jeremy Simon |
| Gautam Kothari, Jeremy Simon • Chief Complaint 79 |
| Gautam Kothari, Jeremy Simon Chief Complaint 79 History of Present Illness 79 |
| Gautam Kothari, Jeremy Simon Chief Complaint 79 History of Present Illness 79 Past Medical/Surgical History 80 |
| Gautam Kothari, Jeremy Simon Chief Complaint 79 History of Present Illness 79 Past Medical/Surgical History 80 Family History 80 |
| Gautam Kothari, Jeremy Simon Chief Complaint 79 History of Present Illness 79 Past Medical/Surgical History 80 Family History 80 Social History 80 |
| Gautam Kothari, Jeremy Simon Chief Complaint 79 History of Present Illness 79 Past Medical/Surgical History 80 Family History 80 Social History 80 Medications 81 |
| Gautam Kothari, Jeremy Simon Chief Complaint 79 History of Present Illness 79 Past Medical/Surgical History 80 Family History 80 Social History 80 Medications 81 Allergies 81 |
| Gautam Kothari, Jeremy Simon Chief Complaint 79 History of Present Illness 79 Past Medical/Surgical History 80 Family History 80 Social History 80 Medications 81 Allergies 81 Review of Systems 81 |
| Gautam Kothari, Jeremy Simon Chief Complaint 79 History of Present Illness 79 Past Medical/Surgical History 80 Family History 80 Social History 80 Medications 81 Allergies 81 Review of Systems 81 Physical Examination 81 |

xvii

| | Contents | |
|-----|---|-----|
| | Treatment Options 84Interventional Options 84 | |
| 10. | Cervical Facet Syndrome Matthew McAuliffe, Jeremy Simon Chief Complaint 88 History of Present Illness 88 Past Medical History/Past Surgical History 89 Review of Systems 89 Family History 90 Social History 90 Current Medications 90 Allergies 90 Physical Examination 90 Imaging 91 Diagnosis 91 | 88 |
| 11. | Hip Pain Anupam Sinha, Madhuri Dholakia Chief Complaint 100 History of Present Illness 100 Past Medical History/Past Surgical History 100 Review of Systems 100 Family History 101 Social History 101 Current Medications 101 Allergies 101 Physical Examination 101 Imaging 102 Diagnosis 102 | 100 |
| 12. | | 105 |

| viii _ | | Interventional Spine Procedures—A Case-based Approach | |
|--------|-----|--|-----|
| | 13. | Family History 107 Social History 107 Current Medications 107 Allergies 107 Physical Examination 107 Imaging 108 Diagnosis 108 Treatment Options 110 Plan 112 Sample Dictation 112 Complex Regional Pain Syndrome—Upper Limb Michael J Mehnert, Jeremy Simon, Matthew McAuliffe Chief Complaint 115 History of Present Illness 115 Treatments to Date 116 Past Medical History 117 Past Surgical History 117 Review of Systems 117 Family History 117 Social History 117 Current Medications 117 Allergies 117 Physical Examination 117 Imaging 118 Diagnosis 118 Treatment Options 119 Plan 121 | 115 |
| | | Procedure Note 121 Indications 121 Preoperative Diagnosis 121 Postoperative Diagnosis 121 Procedure Performed 121 | |
| | 14. | Dural Puncture Headache Jeremy Simon Chief Complaint 125 History of Present Illness 125 | 125 |

| | Past Medical History 125 Past Surgical History 126 Review of Systems 126 Family History 126 Social History 126 Current Medications 126 Allergies 126 Physical Examination 126 Imaging 127 Diagnosis 127 Discussion 127 Treatment 127 | |
|-----|---|-----|
| 15. | Adverse Reactions to Medications | 132 |
| | Jeremy Simon | |
| | Chief Complaint 132 | |
| | History of Present Illness 132 | |
| | Past Medical History 132 | |
| | Past Surgical History 132 | |
| | • Review of Systems 133 | |
| | Family History 133 | |
| | Social History 133 | |
| | • Current Medications 133 | |
| | Allergies 133 Physical Supplies 133 | |
| | Physical Examination 133 Imaging 124 | |
| | Imaging 134Diagnosis 134 | |
| | Additional Diagnosis 135 | |
| | Discussion 136 | |
| 16. | Discogenic Low Back Pain/Lumbar Disc Herniation without Radiculopathy | 139 |
| | Jeremy Simon, Zachary Broyer, Theodore Conliffe | |
| | • Chief Complaint 139 | |
| | • History of Present Illness 139 | |
| | Past Medical History 140 | |
| | Past Surgical History 140 | |
| | • Review of Systems 140 | |
| | Family History 140 | |

| | · · · · · · · · · · · · · · · · · · · | |
|-----|--|-----|
| | Social History 140 | |
| | Current Medications 141 | |
| | • Allergies 141 | |
| | Physical Examination 141 | |
| | • Imaging 141 | |
| | • Diagnosis 142 | |
| | • Discussion 144 | |
| | • Treatment Options 147 | |
| 17. | Thoracic Facet Pain | 152 |
| | Michael J Mehnert, Jesse A Sally, Gary P Chimes | |
| | Chief Complaint 152 | |
| | History of Present Illness 152 | |
| | Past Medical History 153 | |
| | Past Surgical History 153 | |
| | Review of Systems 153 | |
| | • Family History 153 | |
| | Social History 154 | |
| | Current Medications 154 | |
| | • Allergies 154 | |
| | Physical Examination 154 | |
| | • Imaging 155 | |
| | • Diagnosis 155 | |
| | • Differential Diagnosis 155 | |
| | • Treatment Options 156 | |
| 18. | Thoracic Disc Herniation | 172 |
| | Arjang Abbasi, Shounuck I Patel, Gautam Malhotra | |
| | Chief Complaint 172 | |
| | History of Present Illness 173 | |
| | Past Medical History 174 | |
| | • Allergies 174 | |
| | • Family History 174 | |
| | • Social History 175 | |
| | Medication History 175 | |
| | • Review of Systems 175 | |
| | Physical Examination 176 | |
| | Assessment with Differential Diagnosis 177 | |
| | Background 178 | |

Contents xxi

- Indications for Injection 179
- Treatment Alternatives 179
- Contraindications 179
- Thoracic Transforaminal Epidural Steroid Injection 179
- Equipment and Medications 180
- Technique: Oblique Subpedicular Transforaminal Approach 180
- Other Techniques 183
- Complications 184
- Evidence to Support the Procedure 186

Index 189