**Supplemental Table. Criteria used for identification of utilization measures.**

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| **Measure** | **Codes/identification criteria** |
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| Lumbar MRI  | CPT 72148, 72149, 72158 |
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| Lumbar CT | CPT 72131, 72132, 72133 |
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| Lumbar radiographs | CPT 72100, 72110, 72114, 72120, 72265, 72295 |
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| Lumbosacral injection (includes epidural steroid, facet joint, sacroiliac joint, and other injections)  | CPT 27096, 62282, 62311, 62319, 64475, 64476, 64483, 64484 |
|  |  |
| Surgery (includes arthrodesis, instrumentation, laminectomy, laminotomy, and vertebral corpectomy) | CPT 22102, 22558, 22585, 22612, 22614, 22630, 22632, 22842, 22843, 22844, 22845, 22846, 22847, 22851, 62270, 62272, 63005, 63012, 63015, 63017, 63030, 63035, 63042, 63044, 63047, 63048, 63087, 63088, 63090, 63091, 63102, 63103, 63200, 63267, 63272, 63277, 63282, 63287, 63303, 63307 |
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| Abbreviations: CT, computed tomography; CPT, common procedural terminology (refers to CPT-4 codes); MRI, magnetic resonance imaging. |