Table S1: Exclusion diagnoses

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| Diagnosis | ICD-9 code |
| Congenital musculoskeletal deformities of spine | 75.42 |
| Bone cancer | 170.0-170.9 |
| Infection  | 32.41, 730.08, 730.18, 730.28, 730.88, 730.98 |
| Metastases | 198.3-198.5, 192.2 |
| Trauma | 805.00-805.29, 806.00-806.39, 806.4-806.5, 806.60-806.62, 806.69-806.72, 806.79, 806.8, 806.9, 952.00-952.19, 952.2-952.4, 952.8-952.9 |