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Clinical Study
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Supplemental 1. Patient characteristics by CPT and ICD-9 and ICD-10 diagnostic and procedure codes

	ICD-9-P/ICD-10-P
Lumbar spine	ICD-9-P: 8104, 8105, 8106, 8107, 8108 ICD-10-P: 0QB00ZX, 0QB00ZZ, 0QB03ZX, 0QB03ZZ, 0QB04ZX, 0QB04ZZ, 0SB00ZX, 0SB00ZZ, 0SB03ZX, 0SB03ZZ, 0SB04ZX, 0SB04ZZ, 0SB20ZX, 0SB20ZZ, 0SB23ZX, 0SB23ZZ, 0SB24ZX, 0SB24ZZ, 0SB30ZX, 0SB30ZZ, 0SB33ZX, 0SB33ZZ, 0SB34ZX, 0SB34ZZ, 0SB40ZX, 0SB40ZZ, 0SB43ZX, 0SB43ZZ, 0SB44ZX, 0SB44ZZ, 0SG0070, 0SG0071, 0SG007J, 0SG00A0, 0SG00A1, 0SG00AJ, 0SG00J0, 0SG00J1, 0SG00JJ, 0SG00K0, 0SG00K1, 0SG00KJ, 0SG00Z0, 0SG00Z1, 0SG00ZJ, 0SG0370, 0SG0371, 0SG037J, 0SG03A0, 0SG03A1, 0SG03AJ, 0SG03J0, 0SG03J1, 0SG03JJ, 0SG03K0, 0SG03K1, 0SG03KJ, 0SG03Z0, 0SG03Z1, 0SG03ZJ, 0SG0470, 0SG0471, 0SG047J, 0SG04A0, 0SG04A1, 0SG04AJ, 0SG04J0, 0SG04J1, 0SG04JJ, 0SG04K0, 0SG04K1, 0SG04KJ, 0SG04Z0, 0SG04Z1, 0SG04ZJ, 0SG1070, 0SG1071, 0SG107J, 0SG10A0, 0SG10A1, 0SG10AJ, 0SG10J0, 0SG10J1, 0SG10JJ, 0SG10K0, 0SG10K1, 0SG10KJ, 0SG10Z0, 0SG10Z1, 0SG10ZJ, 0SG1370, 0SG1371, 0SG137J, 0SG13A0, 0SG13A1, 0SG13AJ, 0SG13J0, 0SG13J1, 0SG13JJ, 0SG13K0, 0SG13K1, 0SG13KJ, 0SG13Z0, 0SG13Z1, 0SG13ZJ, 0SG1470, 0SG1471, 0SG147J, 0SG14A0, 0SG14A1, 0SG14AJ, 0SG14J0, 0SG14J1, 0SG14JJ, 0SG14K0, 0SG14K1, 0SG14KJ, 0SG14Z0, 0SG14Z1, 0SG14ZJ, 0SG3070, 0SG3071, 0SG307J, 0SG30A0, 0SG30A1, 0SG30AJ, 0SG30J0, 0SG30J1, 0SG30JJ, 0SG30K0, 0SG30K1, 0SG30KJ, 0SG30Z0, 0SG30Z1, 0SG30ZJ, 0SG3370, 0SG3371, 0SG337J, 0SG33A0, 0SG33A1, 0SG33AJ, 0SG33J0, 0SG33J1, 0SG33JJ, 0SG33K0, 0SG33K1, 0SG33KJ, 0SG33Z0, 0SG33Z1, 0SG33ZJ, 0SG3470, 0SG3471, 0SG347J, 0SG34A0, 0SG34A1, 0SG34AJ, 0SG34J0, 0SG34J1, 0SG34JJ, 0SG34K0, 0SG34K1, 0SG34KJ, 0SG34Z0, 0SG34Z1, 0SG34ZJ, 0SH004Z, 0SH008Z, 0SH00BZ, 0SH00CZ, 0SH00DZ, 0SH034Z, 0SH038Z, 0SH03BZ, 0SH03CZ, 0SH03DZ, 0SH044Z, 0SH048Z, 0SH04BZ, 0SH04CZ, 0SH04DZ, 0SH208Z, 0SH238Z, 0SH248Z, 0SH304Z, 0SH30BZ, 0SH30CZ, 0SH30DZ, 0SH334Z, 0SH338Z, 0SH33BZ, 0SH33CZ, 0SH33DZ, 0SH344Z, 0SH348Z, 0SH34BZ, 0SH34CZ, 0SH34DZ, 0SH408Z, 0SH438Z, 0SH448Z, 0SN00ZZ, 0SN03ZZ, 0SN04ZZ, 0SN0XZZ, 0SN20ZZ, 0SN23ZZ, 0SN24ZZ, 0SN2XZZ, 0SN30ZZ, 0SN33ZZ, 0SN34ZZ, 0SN3XZZ, 0SN40ZZ, 0SN43ZZ, 0SN44ZZ, 0SN4XZZ, 0SR007Z, 0SR00JZ, 0SR00KZ, 0SR207Z, 0SR20JZ, 0SR20KZ, 0SR307Z, 0SR30JZ, 0SR30KZ, 0SR407Z, 0SR40JZ, 0SR40KZ, 0ST20ZZ, 0ST40ZZ, 0SU007Z, 0SU00JZ, 0SU00KZ, 0SU037Z, 0SU03JZ, 0SU03KZ, 0SU047Z, 0SU04JZ, 0SU04KZ, 0SU207Z, 0SU20JZ, 0SU20KZ, 0SU237Z, 0SU23JZ, 0SU23KZ, 0SU247Z, 0SU24JZ, 0SU24KZ, 0SU307Z, 0SU30JZ, 0SU30KZ, 0SU337Z, 0SU33JZ, 0SU33KZ, 0SU347Z, 0SU34JZ, 0SU34KZ, 0SU407Z, 0SU40JZ, 0SU40KZ, 0SU437Z, 0SU43JZ, 0SU43KZ, 0SU447Z, 0SU44JZ, 0SU44KZ CPT: 22558, 63087, 63088, 63047, 63005, 63012, 63267, 63030, 63042, 22612, 22630, 22633, 22857
Cervical spine	ICD-9-P: 8102, 8103, 8101 ICD-10-P: 0RG0070, 0RG0071, 0RG007J, 0RG00A0, 0RG00A1, 0RG00AJ, 0RG00J0, 0RG00J1, 0RG00JJ, 0RG00K0, 0RG00K1, 0RG00KJ, 0RG00Z0, 0RG00Z1, 0RG00ZJ, 0RG0370, 0RG0371, 0RG037J, 0RG03A0, 0RG03A1, 0RG03AJ, 0RG03J0, 0RG03J1, 0RG03JJ, 0RG03K0, 0RG03K1, 0RG03KJ, 0RG03Z0, 0RG03Z1, 0RG03ZJ, 0RG0470, 0RG0471, 0RG047J, 0RG04A0, 0RG04A1, 0RG04AJ, 0RG04J0, 0RG04J1, 0RG04JJ, 0RG04K0, 0RG04K1, 0RG04KJ, 0RG04Z0, 0RG04Z1, 0RG04ZJ, 0RG1070, 0RG1071, 0RG107J, 0RG10A0, 0RG10A1, 0RG10AJ, 0RG10J0, 0RG10J1, 0RG10JJ, 0RG10K0, 0RG10K1, 0RG10KJ, 0RG10Z0, 0RG10Z1, 0RG10ZJ, 0RG1370, 0RG1371, 0RG137J, 0RG13A0, 0RG13A1, 0RG13AJ, 0RG13J0, 0RG13J1, 0RG13JJ, 0RG13K0, 0RG13K1, 0RG13KJ, 0RG13Z0, 0RG13Z1, 0RG13ZJ, 0RG1470, 0RG1471, 0RG147J, 0RG14A0, 0RG14A1, 0RG14AJ, 0RG14J0, 0RG14J1, 0RG14JJ, 0RG14K0, 0RG14K1, 0RG14KJ, 0RG14Z0, 0RG14Z1, 0RG14ZJ, 0RG2070, 0RG2071, 0RG207J, 0RG20A0, 0RG20A1, 0RG20AJ, 0RG20J0, 0RG20J1, 0RG20JJ, 0RG20K0, 0RG20K1, 0RG20KJ, 0RG20Z0, 0RG20Z1, 0RG20ZJ, 0RG2370, 0RG2371, 0RG237J, 0RG23A0, 0RG23A1, 0RG23AJ, 0RG23J0, 0RG23J1, 0RG23JJ, 0RG23K0, 0RG23K1, 0RG23KJ, 0RG23Z0, 0RG23Z1, 0RG23ZJ, 0RG2470, 0RG2471, 0RG247J, 0RG24A0, 0RG24A1, 0RG24AJ, 0RG24J0, 0RG24J1, 0RG24JJ, 0RG24K0, 0RG24K1, 0RG24KJ, 0RG24Z0, 0RG24Z1, 0RG24ZJ, 0RB00ZX, 0RB00ZZ, 0RB03ZX, 0RB03ZZ, 0RB04ZX, 0RB04ZZ, 0RB10ZX, 0RB10ZZ, 0RB13ZX, 0RB13ZZ, 0RB14ZX, 0RB14ZZ, 0RB30ZX, 0RB30ZZ, 0RB33ZX, 0RB33ZZ, 0RB34ZX, 0RB34ZZ, 0RN00ZZ, 0RN03ZZ, 0RN04ZZ, 0RN0XZZ, 0RN10ZZ, 0RN13ZZ, 0RN14ZZ, 0RN1XZZ, 0RN30ZZ, 0RN33ZZ, 0RN34ZZ, 0RN3XZZ, 0RR007Z, 0RR00JZ, 0RR00KZ, 0RR107Z, 0RR10JZ, 0RR10KZ, 0RR307Z, 0RR30JZ, 0RR30KZ, 0RT30ZZ, 0RU007Z, 0RU00JZ, 0RU00KZ, 0RU037Z, 0RU03JZ, 0RU03KZ, 0RU047Z, 0RU04JZ, 0RU04KZ, 0RU107Z, 0RU10JZ, 0RU10KZ, 0RU137Z, 0RU13JZ, 0RU13KZ, 0RU147Z, 0RU14JZ, 0RU14KZ, 0RU307Z, 0RU30JZ, 0RU30KZ, 0RU337Z, 0RU33JZ, 0RU33KZ, 0RU347Z, 0RU34JZ, 0RU34KZ, 0RG4070, 0RG4071, 0RG407J, 0RG40A0, 0RG40A1, 0RG40AJ, 0RG40J0, 0RG40J1, 0RG40JJ, 0RG40K0, 0RG40K1, 0RG40KJ, 0RG40Z0, 0RG40Z1, 0RG40ZJ, 0RG4370, 0RG4371, 0RG437J, 0RG43A0, 0RG43A1, 0RG43AJ, 0RG43J0, 0RG43J1, 0RG43JJ, 0RG43K0, 0RG43K1, 0RG43KJ, 0RG43Z0, 0RG43Z1, 0RG43ZJ, 0RG4470, 0RG4471, 0RG447J, 0RG44A0, 0RG44A1, 0RG44AJ, 0RG44J0, 0RG44J1, 0RG44JJ, 0RG44K0, 0RG44K1, 0RG44KJ, 0RG44Z0, 0RG44Z1, 0RG44ZJ, 0RN40ZZ, 0RN43ZZ, 0RN44ZZ, 0RN4XZZ, 0RN50ZZ, 0RN53ZZ, 0RN54ZZ, 0RN5XZZ, 0RR407Z, 0RR40JZ, 0RR40KZ, 0RR507Z, 0RR50JZ, 0RR50KZ, 0RT40ZZ, 0RT50ZZ, 0RU407Z, 0RU40JZ, 0RU40KZ, 0RU437Z, 0RU43JZ, 0RU43KZ, 0RU447Z, 0RU44JZ, 0RU44KZ, 0RU507Z, 0RU50JZ, 0RU50KZ, 0RU537Z, 0RU53JZ, 0RU53KZ, 0RU547Z, 0RU54JZ, 0RU54KZ CPT: 22551, 22554, 22595, 22600, 22856, 63015, 63020, 63040, 63045, 63075, 63081, 63082, 63265
Lumbar fracture	ICD-9-D: 8054, 8055, 8064, 8065 ICD-10-D: M4845XA, M4845XD, M4845XG, M4845XS, M4846XA, M4846XD, M4846XG, M4846XS, M4855XA, M4855XD, M4855XG, M4855XS, M4856XA, M4856XD, M4856XG, M4856XS, S32000A, S32000B, S32000D, S32000G, S32000K, S32000S, S32001A, S32001B, S32001D, S32001G, S32001K, S32001S, S32002A, S32002B, S32002D, S32002G, S32002K, S32002S, S32008A, S32008B, S32008D, S32008G, S32008K, S32008S, S32009A, S32009B, S32009D, S32009G, S32009K, S32009S, S32010A, S32010B, S32010D, S32010G, S32010K, S32010S, S32011A, S32011B, S32011D, S32011G, S32011K, S32011S, S32012A, S32012B, S32012D, S32012G, S32012K, S32012S, S32018A, S32018B, S32018D, S32018G, S32018K, S32018S, S32019A, S32019B, S32019D, S32019G, S32019K, S32019S, S32020A, S32020B, S32020D, S32020G, S32020K, S32020S, S32021A, S32021B, S32021D, S32021G, S32021K, S32021S, S32022A, S32022B, S32022D, S32022G, S32022K, S32022S, S32028A, S32028B, S32028D, S32028G, S32028K, S32028S, S32029A, S32029B, S32029D, S32029G, S32029K, S32029S, S32030A, S32030B, S32030D, S32030G, S32030K, S32030S, S32031A, S32031B, S32031D, S32031G, S32031K, S32031S, S32032A, S32032B, S32032D, S32032G, S32032K, S32032S, S32038A, S32038B, S32038D, S32038G, S32038K, S32038S, S32039A, S32039B, S32039D, S32039G, S32039K, S32039S, S32040A, S32040B, S32040D, S32040G, S32040K, S32040S, S32041A, S32041B, S32041D, S32041G, S32041K, S32041S, S32042A, S32042B, S32042D, S32042G, S32042K, S32042S, S32048A, S32048B, S32048D, S32048G, S32048K, S32048S, S32049A, S32049B, S32049D, S32049G, S32049K, S32049S, S32050A, S32050B, S32050D, S32050G, S32050K, S32050S, S32051A, S32051B, S32051D, S32051G, S32051K, S32051S, S32052A, S32052B, S32052D, S32052G, S32052K, S32052S, S32058A, S32058B, S32058D, S32058G, S32058K, S32058S, S32059A, S32059B, S32059D, S32059G, S32059K, S32059S
Cervical fracture	ICD-9-D: 80500, 80501, 80502, 80503, 80504, 80505, 80506, 80507, 80508, 80511, 80512, 80513, 80514, 80515, 80516, 80517, 80518 ICD-10-D: S129XXA, S12000A, S12001A, S12100A, S12101A, S12200A, S12201A, S12300A, S12301A, S12400A, S12401A, S12500A, S12501A, S12600A, S12601A, S12000B, S12001B, S12100B, S12101B, S12200B, S12201B, S12300B, S12301B, S12400B, S12401B, S12500B, S12501B, S12600B, S12601B

CPT, current procedural terminology; ICD, International Statistical Classification of Diseases.