

## Supplementary Online Content

Pineles SL, Repka MX, Yu F, Lum F, Coleman AL. Risk of musculoskeletal injuries, fractures, and falls in Medicare beneficiaries with disorders of binocular vision. *JAMA Ophthalmol*. Published online October 23, 2014. doi:10.1001/jamaophthalmol.2014.3941.

**eTable 1.** *International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and Current Procedural Terminology (CPT) codes included in definition of fractures with and without surgical repair, musculoskeletal injury and falls*

**eTable 2.** *International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) codes included in definition of comorbidities and ocular comorbidities*

This supplementary material has been provided by the authors to give readers additional information about their work.

**eTable 1.** *International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and Current Procedural Terminology (CPT) Codes Included in Definition of Fractures With and Without Surgical Repair, Musculoskeletal Injury and Falls*

<b>Type of Fracture</b>	<b>Eligible ICD-9-CM Codes</b>
Skull/face	800.x-804.x
Vertebral	805.x-806.x
Ribs/sternum	807.x
Pelvis	808.x
Ill-defined bone/trunk	809.x
Shoulder	810.x-811.x
Arm	812.x-813.x
Wrist/hand	814.x-817.x
Ill-defined/multiple upper limb	818.x-819.x
Leg	820.x-823.x
Ankle/foot	824.x-826.x
Ill-defined/multiple lower limb	827.x-828.x
Unspecified	829.x
<b>Type of Fracture Repair</b>	<b>Eligible CPT Codes</b>
Head	21310, 21315, 21320, 21325, 21330, 21335, 21337, 21338, 21339, 21345, 21346, 21347, 21348, 21356, 21360, 21365, 21366, 21385, 21386, 21387, 21390, 21395, 21400, 21401, 21406, 21407, 21408, 21421, 21422, 21423, 21440, 21445, 21450, 21451, 21453, 21454, 21461, 21462, 21465
Neck/thorax	21800, 21805, 21820, 21825
Spine	22305, 22310, 22315, 22326, 22327, 22328
Shoulder	23500, 23505, 23515, 23570, 23575, 23585
Forearm/wrist	23614, 23616, 23620, 23625, 23630, 23665, 23670, 24500, 24505, 24515, 24545, 24546, 24575, 24576, 24577, 24579, 24586, 24587, 24620, 24635, 24650, 24655, 24665, 24666, 24670, 24675, 24685, 25500, 25505, 25515, 25520, 25525, 25526, 25530, 25535, 25545, 25560, 25565, 25574, 25575, 25605, 25607, 25608, 25609, 25652, 25650, 25652
Hand	25622, 25624, 25628, 25630, 25635, 25645, 26600, 26605, 26607, 26608, 26615, 26645, 26650, 26665, 26720, 26725, 26727, 26735, 26740, 26742, 26746, 26750, 26755, 26756, 26765
Pelvis/hip	27193, 27194, 27215, 27216, 27217, 27218, 27220, 27222, 27254

Upper leg/knee	27230, 27232, 27235, 27236, 27238, 27240, 27254, 27267, 27268, 27269, 27500, 27501, 27502, 27503, 27506, 27507, 27508, 27509, 27510, 27511, 27513, 27514, 27520, 27524
Lower leg	27530, 27532, 27535, 27536, 27538, 27750, 27752, 27756, 27758, 27780, 27781, 27784, 27786, 27788, 27792, 27824, 27825, 27826, 27827, 27828, 27855, 27856, 27892
Ankle	27760, 27762, 27766, 27767, 27768, 27769, 27808, 27810, 27814, 27816, 27818, 27822, 27823
Foot	28400, 28405, 28406, 28415, 28420, 28430, 28435, 28436, 28445, 28456, 28465, 28470, 28475, 28476, 28485, 28490, 28495, 28496, 28505, 28510, 28515, 28525
Hip fractures	ICD9: 808.x, 820.x CPT: 27193, 27194, 27215, 27216, 27217, 27218, 27220, 27222, 27254
<b>Musculoskeletal Injury</b>	<b>Eligible ICD-9-CM Codes</b>
<u>Rotator cuff syndrome of shoulder and allied disorders</u>	726.1X
<u>Dislocation:</u>	831
Shoulder	832
Elbow	833
Wrist	835
Hip	836
Knee	837
Angle	
<u>Pathological dislocation</u>	718.2
Of joint, unspecified	718.21
Shoulder region	718.22
Upper arm	718.23
Forearm	718.25
Pelvic region and thigh	718.26
Lower leg	718.27
Ankle and foot	718.28
Other specified sites	718.29
Multiple sites	
<u>Internal derangement of knee</u>	717.1
Derangement of anterior horn of medial meniscus	717.2
Derangement of posterior horn of medial meniscus	717.3
Other and unspecified derangement of medial meniscus	717.4
Derangement of lateral meniscus	717.5
Derangement of meniscus, not elsewhere classified	840
	843
	844

<u>Strains and sprains</u> Strains and sprains of shoulder and upper arm Strains and sprains of hip and thigh Strains and sprains of knee and leg Strains and sprains of sacroiliac region	846
<b>Falls</b>	<b>Eligible ICD-9-CM Codes</b>
Falls	E800-E999

**eTable 2.** *International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Codes Included in Definition of Comorbidities and Ocular Comorbidities*

<b>Comorbidity</b>	<b>Eligible ICD-9-CM Codes</b>
Myocardial Infarction	410.x-412.x
Congestive Heart Failure	398.91, 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93, 428.x
Peripheral Vascular Disease	440.2x-440.4x, 443.81, 443.89, 443.9, 785.4x, 557.1, 557.9, V43.4
Cerebrovascular Disease	430.x-438.x, 362.34
Dementia	290.x, 292.2x, 292.82, 294.1x
Chronic Pulmonary Disease	416.8x, 416.9x, 490.x-496.x, 500.x-505.x, 506.4x, 508.1x
Rheumatologic Disease	710.x, 714.x, 720.x, 725.x
Peptic Ulcer Disease	531.x-534.x
Diabetes Mellitus	250.0x-250.3x, 250.8x-250.9x
Diabetes Mellitus w/ Complications	250.4x-250.7x
Chronic Renal Disease	403.x, 404.x, 582.x, 583.x, 585.x, 586.x, 588.x, V42.0, V45.1, V56.x
Hemi/Paraplegia	334.1, 342.x, 343.x, 344.x, 438.20-22
Mild liver disease	070.0, 070.1, 070.30, 070.31, 070.5x, 070.70, 570.x, 571.0, 572.0, 572.1, 573.0, 573.1, 573.2, 573.8, 573.9
Moderate/severe liver disease	070.2x, 070.32, 070.33, 070.4x, 070.6, 070.71, 070.9, 456.0, 456.1, 456.2, 571.1, 571.2, 571.3, 571.4, 571.5, 571.6, 571.8, 571.9, 572.2, 572.3, 572.4, 572.8, 573.4, 573.5, V42.7
Multiple Myeloma/Leukemia	203.x-208.x
Lymphomas	200.x-202.x
Malignant Neoplasms	140.x-172.x, 174.x-176.x 179.x-195.x
Metastatic Solid Tumor	196.x-199.x
AIDS	042.x-043.x
Osteoporosis	733.0x
Hyperthyroidism	242.x
Hyperparathyroidism	252.0x
Cushing's Syndrome	255.0
Physically Limiting Conditions	337.0, 342.x, 343.1, 343.4, 344.x, 356.x, 359.x, 438.2x-438.5x, 440.20-22, 443.x, 780.72
Glaucoma	365.x
Cataract	366.1x
Age Related Macular Degeneration	362.5x
Diabetes with Ophthalmic Manifestations	249.5x, 250.5x, 362.0x
Parkinson Disease	332