

Supplemental Table S1. Diagnostic Codes for Traumatic Spinal Cord Injury

ICD9 Codes

Traumatic Spinal Cord Injury	806.00, 806.01, 806.02, 806.03, 806.04, 806.05, 806.06, 806.07, 806.08, 806.09, 806.10, 806.11, 806.12, 806.13, 806.14, 806.15, 806.16, 806.17, 806.18, 806.19, 806.20, 806.21, 806.22, 806.23, 806.24, 806.25, 806.26, 806.27, 806.28, 806.29, 806.30, 806.31, 806.32, 806.33, 806.34, 806.35, 806.36, 806.37, 806.38, 806.39, 806.4, 806.5, 806.60, 806.61, 806.62, 806.69, 806.70, 806.71, 806.72, 806.79, 806.8, 806.9, 952.00, 952.01, 952.02, 952.03, 952.04, 952.05, 952.06, 952.07, 952.08, 952.09, 952.10, 952.11, 952.12, 952.13, 952.14, 952.15, 952.16, 952.17, 952.18, 952.19, 952.2, 952.3, 952.4, 952.8, 952.9
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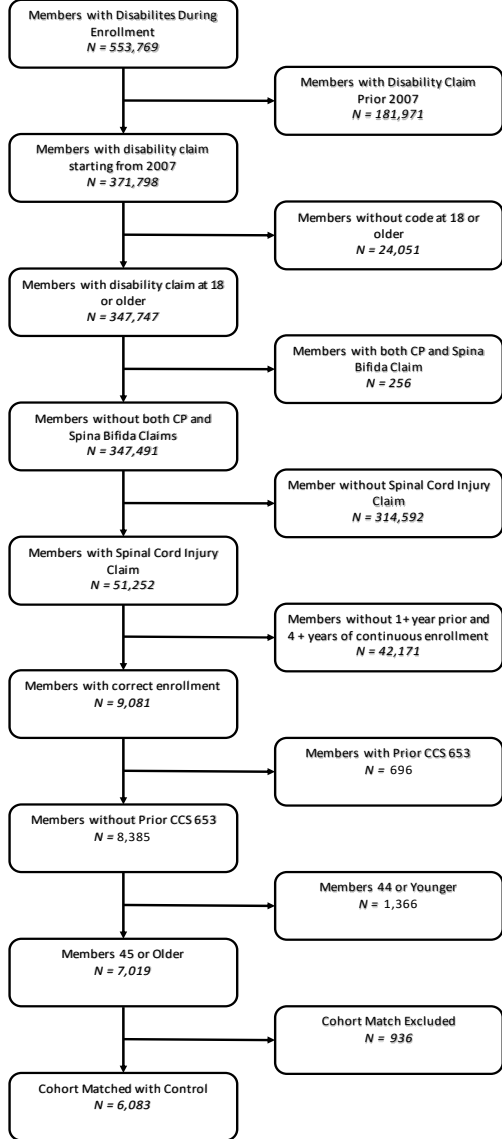
Supplemental Table S2. Diagnostic Codes for Alzheimer’s Disease and Related Dementia

ICD9/ICD10 Codes

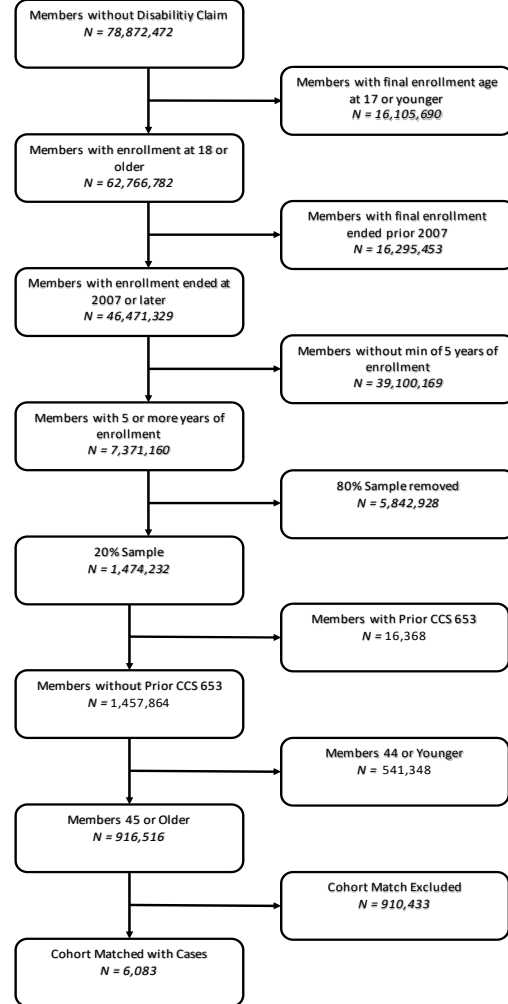
Alzheimer’s Disease and Related Dementia	290.0, 290.10, 290.11, 290.12, 290.13, 290.20, 290.21, 290.3, 290.40, 290.41, 290.42, 290.43, 290.8, 290.9, 294.11, 294.12, 294.20, 294.21, 331.0 F0150, F0151, F0280, F0281, F0390, F0391, G300, G301, G308, G309
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Supplemental Figure S1. Schematic Flow Diagram

Main Cohort



Control Cohort



Supplemental Table S3. Diagnostic Codes for Comorbid Conditions

ICD9/ICD10 Codes	
Diagnosis Group	
Cardiometabolic Outcome Group	
Cardiac dysrhythmias	427.0, 427.1, 427.2, 427.31, 427.32, 427.60, 427.61, 427.69, 427.81, 427.89, 427.9, 785.0, 785.1 I47.0, I47.1, I47.2, I47.9, I48.0, I48.1, I48.2, I48.3, I48.4, I48.91, I48.92, I49.1, I49.2, I49.3, I49.40, I49.49, I49.5, I49.8, I49.9, R00.0, R00.1, R00.2
Heart Failure	427.41, 427.42, 427.5, 428.0, 428.1, 428.20, 428.21, 428.22, 428.23, 428.30, 428.31, 428.32, 428.33, 428.40, 428.41, 428.42, 428.43, 428.9 I46.2, I46.8, I46.9, I49.01, I49.02, I50.1, I50.20, I50.21, I50.22, I50.23, I50.30, I50.31, I50.32, I50.33, I50.40, I50.41, I50.42, I50.43, I50.810, I50.811, I50.812, I50.813, I50.814, I50.82, I50.83, I50.84, I50.89, I50.9
Peripheral and visceral Atherosclerosis	440.0, 440.1, 440.2, 440.20, 440.21, 440.22, 440.23, 440.29, 440.4, 440.8, 440.9, 443.9, 557.0, 557.1, 557.9 I70.0, I70.1, I70.201, I70.202, I70.203, I70.208, I70.209, I70.211, I70.212, I70.213, I70.218, I70.219, I70.221, I70.222, I70.223, I70.228, I70.229, I70.231, I70.232, I70.233, I70.234, I70.235, I70.238, I70.239, I70.241, I70.242, I70.243, I70.244, I70.245, I70.248, I70.249, I70.25, I70.291, I70.292, I70.293, I70.298, I70.299, I70.8, I70.90, I70.91, I70.92, I73.9, K55.0, K55.011, K55.012, K55.019, K55.021, K55.022, K55.029, K55.031, K55.032, K55.039, K55.041, K55.042, K55.049, K55.051, K55.052, K55.059, K55.061, K55.062, K55.069, K55.1, K55.8, K55.9
Non-Alcoholic Fatty Liver Disease	571.8, 571.9 K76.0, K76.89, K76.9
Chronic kidney disease	585, 585.1, 585.2, 585.3, 585.4, 585.5, 585.6, 585.9, 792.5, V42.0, V45.1, V45.11, V45.12, V56.0, V56.1, V56.2, V56.31, V56.32, V56.8 N18.1, N18.2, N18.3, N18.4, N18.5, N18.6, N18.9, R88.0, Z49.01, Z49.02, Z49.31, Z49.32, Z91.15, Z94.0, Z99.2
Type 2 Diabetes	250.00, 250.02, 250.10, 250.12, 250.20, 250.22, 250.30, 250.32, 250.40, 250.42, 250.50, 250.52, 250.60, 250.62, 250.70, 250.72, 250.80, 250.82, 250.90, 250.92 E11.00, E11.01, E11.10, E11.11, E11.21, E11.22, E11.29, E11.311, E11.319, E11.321, E11.3211, E11.3212, E11.3213, E11.3219, E11.329, E11.3291, E11.3292, E11.3293, E11.3299, E11.331, E11.3311, E11.3312, E11.3313, E11.3319, E11.339, E11.3391, E11.3392, E11.3393, E11.3399, E11.341, E11.3411, E11.3412, E11.3413, E11.3419, E11.349, E11.3491, E11.3492, E11.3493, E11.3499, E11.351, E11.3511, E11.3512, E11.3513, E11.3519, E11.3521, E11.3522, E11.3523, E11.3529,

	E11.3531, E11.3532, E11.3533, E11.3539, E11.3541, E11.3542, E11.3543, E11.3549, E11.3551, E11.3552, E11.3553, E11.3559, E11.359, E11.3591, E11.3592, E11.3593, E11.3599, E11.36, E11.37X1, E11.37X2, E11.37X3, E11.37X9, E11.39, E11.40, E11.41, E11.42, E11.43, E11.44, E11.49, E11.51, E11.52, E11.59, E11.610, E11.618, E11.620, E11.621, E11.622, E11.628, E11.630, E11.638, E11.641, E11.649, E11.65, E11.69, E11.8, E11.9
Hypercholesterolemia	272.0, 272.1 E78.0, E78.00, E78.01, E78.1
Hypertension	401.0, 401.1, 401.9, 402.00, 402.01, 402.10, 402.11, 402.90, 402.91, 403.0, 403.00, 403.01, 403.1, 403.10, 403.11, 403.9, 403.90, 403.91, 404.0, 404.00, 404.01, 404.02, 404.03, 404.1, 404.10, 404.11, 404.12, 404.13, 404.9, 404.90, 404.91, 404.92, 404.93, 405.01, 405.09, 405.11, 405.19, 405.91, 405.99, 437.2 I10, I11.0, I11.9
Cardiac dysrhythmias	427.0, 427.1, 427.2, 427.31, 427.32, 427.60, 427.61, 427.69, 427.81, 427.89, 427.9, 785.0, 785.1 I47.0, I47.1, I47.2, I47.9, I48.0, I48.1, I48.2, I48.3, I48.4, I48.91, I48.92, I49.1, I49.2, I49.3, I49.40, I49.49, I49.5, I49.8, I49.9, R00.0, R00.1, R00.2
Heart Failure	427.41, 427.42, 427.5, 428.0, 428.1, 428.20, 428.21, 428.22, 428.23, 428.30, 428.31, 428.32, 428.33, 428.40, 428.41, 428.42, 428.43, 428.9 I46.2, I46.8, I46.9, I49.01, I49.02, I50.1, I50.20, I50.21, I50.22, I50.23, I50.30, I50.31, I50.32, I50.33, I50.40, I50.41, I50.42, I50.43, I50.810, I50.811, I50.812, I50.813, I50.814, I50.82, I50.83, I50.84, I50.89, I50.9
Peripheral and visceral Atherosclerosis	440.0, 440.1, 440.2, 440.20, 440.21, 440.22, 440.23, 440.29, 440.4, 440.8, 440.9, 443.9, 557.0, 557.1, 557.9 I70.0, I70.1, I70.201, I70.202, I70.203, I70.208, I70.209, I70.211, I70.212, I70.213, I70.218, I70.219, I70.221, I70.222, I70.223, I70.228, I70.229, I70.231, I70.232, I70.233, I70.234, I70.235, I70.238, I70.239, I70.241, I70.242, I70.243, I70.244, I70.245, I70.248, I70.249, I70.25, I70.291, I70.292, I70.293, I70.298, I70.299, I70.8, I70.90, I70.91, I70.92, I73.9, K55.0, K55.011, K55.012, K55.019, K55.021, K55.022, K55.029, K55.031, K55.032, K55.039, K55.041, K55.042, K55.049, K55.051, K55.052, K55.059, K55.061, K55.062, K55.069, K55.1, K55.8, K55.9
Psychological Outcome Group	
Insomnia	780.51, 780.52 G47.00
Adjustment Disorders	309.0, 309.1, 309.22, 309.23, 309.24, 309.28, 309.29, 309.3, 309.4, 309.82, 309.83, 309.89, 309.9

	F43.20, F43.21, F43.22, F43.23, F43.24, F43.25, F43.29, F43.8, F43.9
Anxiety Disorders	293.84, 300.00, 300.01, 300.02, 300.09, 300.10, 300.20, 300.21, 300.22, 300.23, 300.29, 300.3, 300.5, 300.89, 300.9, 308.0, 308.1, 308.2, 308.3, 308.4, 308.9, 309.81, 313.0, 313.1, 313.21, 313.22, 313.3, 313.82, 313.83 F06.4, F40.00, F40.01, F40.02, F40.10, F40.11, F40.210, F40.218, F40.220, F40.228, F40.230, F40.231, F40.232, F40.233, F40.240, F40.241, F40.242, F40.243, F40.248, F40.290, F40.291, F40.298, F40.8, F40.9, F41.0, F41.1, F41.3, F41.8, F41.9, F42., F42.2, F42.3, F42.4, F42.8, F42.9, F43.0, F43.10, F43.11, F43.12, F48.8, F48.9, R45.2, R45.3, R45.4, R45.5, R45.6, R45.7, R45.81, R45.82, R45.83, R45.84
PTSD	309.81 F43.1
Impulse Control Disorders	312.30, 312.31, 312.32, 312.33, 312.34, 312.35, 312.39 F63.0, F63.1, F63.2, F63.3, F63.81, F63.89, F63.9, R45.850
Mood Disorders	293.83, 296.00, 296.01, 296.02, 296.03, 296.04, 296.05, 296.06, 296.10, 296.11, 296.12, 296.13, 296.14, 296.15, 296.16, 296.20, 296.21, 296.22, 296.23, 296.24, 296.25, 296.26, 296.30, 296.31, 296.32, 296.33, 296.34, 296.35, 296.36, 296.40, 296.41, 296.42, 296.43, 296.44, 296.45, 296.46, 296.50, 296.51, 296.52, 296.53, 296.54, 296.55, 296.56, 296.60, 296.61, 296.62, 296.63, 296.64, 296.65, 296.66, 296.7, 296.80, 296.81, 296.82, 296.89, 296.90, 296.99, 300.4, 311 F06.30, F06.31, F06.32, F06.33, F06.34, F30.10, F30.11, F30.12, F30.13, F30.2, F30.3, F30.4, F30.8, F30.9, F31.0, F31.10, F31.11, F31.12, F31.13, F31.2, F31.30, F31.31, F31.32, F31.4, F31.5, F31.60, F31.61, F31.62, F31.63, F31.64, F31.70, F31.71, F31.72, F31.73, F31.74, F31.75, F31.76, F31.77, F31.78, F31.81, F31.89, F31.9, F32.0, F32.1, F32.2, F32.3, F32.4, F32.5, F32.8, F32.81, F32.89, F32.9, F33.0, F33.1, F33.2, F33.3, F33.40, F33.41, F33.42, F33.8, F33.9, F34.0, F34.1, F34.8, F34.81, F34.89, F34.9, F39, R45.86
Personality Disorders	301.0, 301.10, 301.11, 301.12, 301.13, 301.20, 301.21, 301.22, 301.3, 301.4, 301.50, 301.51, 301.59, 301.6, 301.7, 301.81, 301.82, 301.83, 301.84, 301.89, 301.9

Alcohol-Related Disorders

F60.0, F60.1, F60.2, F60.3, F60.4, F60.5, F60.6, F60.7, F60.81, F60.89, F60.9, F69
291.0, 291.1, 291.2, 291.3, 291.4, 291.5, 291.8, 291.81, 291.82, 291.89, 291.9, 303.00, 303.01, 303.02, 303.03, 303.90, 303.91, 303.92, 303.93, 305.00, 305.01, 305.02, 305.03, 357.5, 425.5, 535.3, 535.30, 535.31, 571.0, 571.1, 571.2, 571.3, 760.71, 980.0
F10.10, F10.11, F10.120, F10.121, F10.129, F10.14, F10.150, F10.151, F10.159, F10.180, F10.181, F10.182, F10.188, F10.19, F10.20, F10.21, F10.220, F10.221, F10.229, F10.230, F10.231, F10.232, F10.239, F10.24, F10.250, F10.251, F10.259, F10.26, F10.27, F10.280, F10.281, F10.282, F10.288, F10.29, F10.920, F10.921, F10.929, F10.94, F10.950, F10.951, F10.959, F10.96, F10.97, F10.980, F10.981, F10.982, F10.988, F10.99, G62.1, I42.6, K29.20, K29.21, K70.0, K70.10, K70.11, K70.2, K70.30, K70.31, K70.40, K70.9, O99.310, O99.311, O99.312, O99.313, O99.314, O99.315, P04.3, Q86.0

Substance-Related Disorders

292.0, 292.11, 292.12, 292.2, 292.81, 292.82, 292.83, 292.84, 292.85, 292.89, 292.9, 304.00, 304.01, 304.02, 304.03, 304.10, 304.11, 304.12, 304.13, 304.20, 304.21, 304.22, 304.23, 304.30, 304.31, 304.32, 304.33, 304.40, 304.41, 304.42, 304.43, 304.50, 304.51, 304.52, 304.53, 304.60, 304.61, 304.62, 304.63, 304.70, 304.71, 304.72, 304.73, 304.80, 304.81, 304.82, 304.83, 304.90, 304.91, 304.92, 304.93, 305.20, 305.21, 305.22, 305.23, 305.30, 305.31, 305.32, 305.33, 305.40, 305.41, 305.42, 305.43, 305.50, 305.51, 305.52, 305.53, 305.60, 305.61, 305.62, 305.63, 305.70, 305.71, 305.72, 305.73, 305.80, 305.81, 305.82, 305.83, 305.90, 305.91, 305.92, 305.93, 648.30, 648.31, 648.32, 648.33, 648.34, 655.50, 655.51, 655.53, 760.72, 760.73, 760.75, 779.5, 965.00, 965.01, 965.02, 965.09, V65.42
F11.10, F11.11, F11.120, F11.121, F11.122, F11.129, F11.14, F11.150, F11.151, F11.159, F11.181, F11.182, F11.188, F11.19, F11.20, F11.21, F11.220, F11.221, F11.222, F11.229, F11.23, F11.24, F11.250, F11.251, F11.259, F11.281, F11.282, F11.288, F11.29, F11.90,

F11.920, F11.921, F11.922, F11.929, F11.93, F11.94,
F11.950, F11.951, F11.959, F11.981, F11.982,
F11.988, F11.99, F12.10, F12.11, F12.120, F12.121,
F12.122, F12.129, F12.150, F12.151, F12.159,
F12.180, F12.188, F12.19, F12.20, F12.21, F12.220,
F12.221, F12.222, F12.229, F12.23, F12.250, F12.251,
F12.259, F12.280, F12.288, F12.29, F12.90, F12.920,
F12.921, F12.922, F12.929, F12.93, F12.950, F12.951,
F12.959, F12.980, F12.988, F12.99, F13.10, F13.11,
F13.120, F13.121, F13.129, F13.14, F13.150, F13.151,
F13.159, F13.180, F13.181, F13.182, F13.188, F13.19,
F13.20, F13.21, F13.220, F13.221, F13.229, F13.230,
F13.231, F13.232, F13.239, F13.24, F13.250, F13.251,
F13.259, F13.26, F13.27, F13.280, F13.281, F13.282,
F13.288, F13.29, F13.90, F13.920, F13.921, F13.929,
F13.930, F13.931, F13.932, F13.939, F13.94, F13.950,
F13.951, F13.959, F13.96, F13.97, F13.980, F13.981,
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F14.121, F14.122, F14.129, F14.14, F14.150, F14.151,
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F14.20, F14.21, F14.220, F14.221, F14.222, F14.229,
F14.23, F14.24, F14.250, F14.251, F14.259, F14.280,
F14.281, F14.282, F14.288, F14.29, F14.90, F14.920,
F14.921, F14.922, F14.929, F14.94, F14.950, F14.951,
F14.959, F14.980, F14.981, F14.982, F14.988, F14.99,
F15.10, F15.11, F15.120, F15.121, F15.122, F15.129,
F15.14, F15.150, F15.151, F15.159, F15.180, F15.181,
F15.182, F15.188, F15.19, F15.20, F15.21, F15.220,
F15.221, F15.222, F15.229, F15.23, F15.24, F15.250,
F15.251, F15.259, F15.280, F15.281, F15.282,
F15.288, F15.29, F15.90, F15.920, F15.921, F15.922,
F15.929, F15.93, F15.94, F15.950, F15.951, F15.959,
F15.980, F15.981, F15.982, F15.988, F15.99, F16.10,
F16.11, F16.120, F16.121, F16.122, F16.129, F16.14,
F16.150, F16.151, F16.159, F16.180, F16.183,
F16.188, F16.19, F16.20, F16.21, F16.220, F16.221,
F16.229, F16.24, F16.250, F16.251, F16.259, F16.280,
F16.283, F16.288, F16.29, F16.90, F16.920, F16.921,
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F16.983, F16.988, F16.99, F17.200, F17.201, F17.203,
F17.208, F17.209, F17.210, F17.211, F17.213,
F17.218, F17.219, F17.220, F17.221, F17.223,
F17.228, F17.229, F17.290, F17.291, F17.293,
F17.298, F17.299, F18.10, F18.11, F18.120, F18.121,
F18.129, F18.14, F18.150, F18.151, F18.159, F18.17,
F18.180, F18.188, F18.19, F18.20, F18.21, F18.220,

F18.221, F18.229, F18.24, F18.250, F18.251, F18.259, F18.27, F18.280, F18.288, F18.29, F18.90, F18.920, F18.921, F18.929, F18.94, F18.950, F18.951, F18.959, F18.97, F18.980, F18.988, F18.99, F19.10, F19.11, F19.120, F19.121, F19.122, F19.129, F19.14, F19.150, F19.151, F19.159, F19.16, F19.17, F19.180, F19.181, F19.182, F19.188, F19.19, F19.20, F19.21, F19.220, F19.221, F19.222, F19.229, F19.230, F19.231, F19.232, F19.239, F19.24, F19.250, F19.251, F19.259, F19.26, F19.27, F19.280, F19.281, F19.282, F19.288, F19.29, F19.90, F19.920, F19.921, F19.922, F19.929, F19.930, F19.931, F19.932, F19.939, F19.94, F19.950, F19.951, F19.959, F19.96, F19.97, F19.980, F19.981, F19.982, F19.988, F19.99, F55.0, F55.1, F55.2, F55.3, F55.4, F55.8, O35.5XX0, O35.5XX1, O35.5XX2, O35.5XX3, O35.5XX4, O35.5XX5, O35.5XX9, O99.320, O99.321, O99.322, O99.323, O99.324, O99.325, P04.41, P04.49, P96.1, P96.2, T40.0X1A, T40.0X1D, T40.0X1S, T40.0X3A, T40.0X3D, T40.0X3S, T40.0X4A, T40.0X4D, T40.0X4S, T40.0X5A, T40.0X5D, T40.0X5S, T40.0X6A, T40.0X6D, T40.0X6S, T40.1X1A, T40.1X1D, T40.1X1S, T40.1X3A, T40.1X3D, T40.1X3S, T40.1X4A, T40.1X4D, T40.1X4S, T40.1X5A, T40.1X5D, T40.1X5S, T40.5X1A, T40.5X1D, T40.5X1S, T40.5X3A, T40.5X3D, T40.5X3S, T40.5X4A, T40.5X4D, T40.5X4S, T40.5X5A, T40.5X5D, T40.5X5S, T40.5X6A, T40.5X6D, T40.5X6S, T40.7X1A, T40.7X1D, T40.7X1S, T40.7X3A, T40.7X3D, T40.7X3S, T40.7X4A, T40.7X4D, T40.7X4S, T40.7X5A, T40.7X5D, T40.7X5S, T40.7X6A, T40.7X6D, T40.7X6S, T40.8X1A, T40.8X1D, T40.8X1S, T40.8X3A, T40.8X3D, T40.8X3S, T40.8X4A, T40.8X4D, T40.8X4S, T40.8X5A, T40.8X5D, T40.8X5S, T40.901A, T40.901D, T40.901S, T40.903A, T40.903D, T40.903S, T40.904A, T40.904D, T40.904S, T40.905A, T40.905D, T40.905S, T40.906A, T40.906D, T40.906S, T40.991A, T40.991D, T40.991S, T40.993A, T40.993D, T40.993S, T40.994A, T40.994D, T40.994S, T40.995A, T40.995D, T40.995S, T40.996A, T40.996D, T40.996S

Central Pain 338.0, 338.11, 338.12, 338.18, 338.19, 338.21, 338.22, 338.28, 338.29, 338.3, 338.4

G89.0, G89.11, G89.12, G89.18, G89.21, G89.22, G89.28, G89.29, G89.3, G89.4

**Musculoskeletal
Conditions**

**Rheumatoid arthritis and related
disease**

714.0, 714.1, 714.2, 714.30, 714.31, 714.32, 714.33, 714.4,
714.81, 714.89, 714.9, 720.0
M05.00, M05.011, M05.012, M05.019, M05.021, M05.022,
M05.029, M05.031, M05.032, M05.039, M05.041, M05.042,
M05.049, M05.051, M05.052, M05.059, M05.061, M05.062,
M05.069, M05.071, M05.072, M05.079, M05.09, M05.10,
M05.111, M05.112, M05.119, M05.121, M05.122, M05.129,
M05.131, M05.132, M05.139, M05.141, M05.142, M05.149,
M05.151, M05.152, M05.159, M05.161, M05.162, M05.169,
M05.171, M05.172, M05.179, M05.19, M05.20, M05.211,
M05.212, M05.219, M05.221, M05.222, M05.229, M05.231,
M05.232, M05.239, M05.241, M05.242, M05.249, M05.251,
M05.252, M05.259, M05.261, M05.262, M05.269, M05.271,
M05.272, M05.279, M05.29, M05.30, M05.311, M05.312,
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M05.339, M05.341, M05.342, M05.349, M05.351, M05.352,
M05.359, M05.361, M05.362, M05.369, M05.371, M05.372,
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M05.562, M05.569, M05.571, M05.572, M05.579, M05.59,
M05.60, M05.611, M05.612, M05.619, M05.621, M05.622,
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M05.649, M05.651, M05.652, M05.659, M05.661, M05.662,
M05.669, M05.671, M05.672, M05.679, M05.69, M05.70,
M05.711, M05.712, M05.719, M05.721, M05.722, M05.729,
M05.731, M05.732, M05.739, M05.741, M05.742, M05.749,
M05.751, M05.752, M05.759, M05.761, M05.762, M05.769,
M05.771, M05.772, M05.779, M05.79, M05.80, M05.811,
M05.812, M05.819, M05.821, M05.822, M05.829, M05.831,
M05.832, M05.839, M05.841, M05.842, M05.849, M05.851,
M05.852, M05.859, M05.861, M05.862, M05.869, M05.871,
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M06.012, M06.019, M06.021, M06.022, M06.029, M06.031,
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M06.052, M06.059, M06.061, M06.062, M06.069, M06.071,
M06.072, M06.079, M06.08, M06.09, M06.1, M06.20,
M06.211, M06.212, M06.219, M06.221, M06.222, M06.229,
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M06.251, M06.252, M06.259, M06.261, M06.262, M06.269,

M06.271, M06.272, M06.279, M06.28, M06.29, M06.30, M06.311, M06.312, M06.319, M06.321, M06.322, M06.329, M06.331, M06.332, M06.339, M06.341, M06.342, M06.349, M06.351, M06.352, M06.359, M06.361, M06.362, M06.369, M06.371, M06.372, M06.379, M06.38, M06.39, M06.4, M06.80, M06.811, M06.812, M06.819, M06.821, M06.822, M06.829, M06.831, M06.832, M06.839, M06.841, M06.842, M06.849, M06.851, M06.852, M06.859, M06.861, M06.862, M06.869, M06.871, M06.872, M06.879, M06.88, M06.89, M06.9, M08.00, M08.011, M08.012, M08.019, M08.021, M08.022, M08.029, M08.031, M08.032, M08.039, M08.041, M08.042, M08.049, M08.051, M08.052, M08.059, M08.061, M08.062, M08.069, M08.071, M08.072, M08.079, M08.08, M08.09, M08.1, M08.20, M08.211, M08.212, M08.219, M08.221, M08.222, M08.229, M08.231, M08.232, M08.239, M08.241, M08.242, M08.249, M08.251, M08.252, M08.259, M08.261, M08.262, M08.269, M08.271, M08.272, M08.279, M08.28, M08.29, M08.3, M08.40, M08.411, M08.412, M08.419, M08.421, M08.422, M08.429, M08.431, M08.432, M08.439, M08.441, M08.442, M08.449, M08.451, M08.452, M08.459, M08.461, M08.462, M08.469, M08.471, M08.472, M08.479, M08.48, M08.80, M08.811, M08.812, M08.819, M08.821, M08.822, M08.829, M08.831, M08.832, M08.839, M08.841, M08.842, M08.849, M08.851, M08.852, M08.859, M08.861, M08.862, M08.869, M08.871, M08.872, M08.879, M08.88, M08.89, M08.90, M08.911, M08.912, M08.919, M08.921, M08.922, M08.929, M08.931, M08.932, M08.939, M08.941, M08.942, M08.949, M08.951, M08.952, M08.959, M08.961, M08.962, M08.969, M08.971, M08.972, M08.979, M08.98, M08.99, M12.00, M12.011, M12.012, M12.019, M12.021, M12.022, M12.029, M12.031, M12.032, M12.039, M12.041, M12.042, M12.049, M12.051, M12.052, M12.059, M12.061, M12.062, M12.069, M12.071, M12.072, M12.079, M12.08, M12.09, M45.0, M45.1, M45.2, M45.3, M45.4, M45.5, M45.6, M45.7, M45.8, M45.9, M48.8X1, M48.8X2, M48.8X3, M48.8X4, M48.8X5, M48.8X6, M48.8X7, M48.8X8, M48.8X9

Osteoarthritis

715.00, 715.04, 715.09, 715.10, 715.11, 715.12, 715.13, 715.14, 715.15, 715.16, 715.17, 715.18, 715.20, 715.21, 715.22, 715.23, 715.24, 715.25, 715.26, 715.27, 715.28, 715.30, 715.31, 715.32, 715.33, 715.34, 715.35, 715.36, 715.37, 715.38, 715.80, 715.89, 715.90, 715.91, 715.92, 715.93, 715.94, 715.95, 715.96, 715.97, 715.98, V13.4 M15.0, M15.1, M15.2, M15.3, M15.4, M15.8, M15.9, M16.0, M16.10, M16.11, M16.12, M16.2, M16.30, M16.31, M16.32, M16.4, M16.50, M16.51, M16.52, M16.6, M16.7, M16.9,

M17.0, M17.10, M17.11, M17.12, M17.2, M17.30, M17.31, M17.32, M17.4, M17.5, M17.9, M18.0, M18.10, M18.11, M18.12, M18.2, M18.30, M18.31, M18.32, M18.4, M18.50, M18.51, M18.52, M18.9, M19.011, M19.012, M19.019, M19.021, M19.022, M19.029, M19.031, M19.032, M19.039, M19.041, M19.042, M19.049, M19.071, M19.072, M19.079, M19.111, M19.112, M19.119, M19.121, M19.122, M19.129, M19.131, M19.132, M19.139, M19.141, M19.142, M19.149, M19.171, M19.172, M19.179, M19.211, M19.212, M19.219, M19.221, M19.222, M19.229, M19.231, M19.232, M19.239, M19.241, M19.242, M19.249, M19.271, M19.272, M19.279, M19.90, M19.91, M19.92, M19.93

Pathological fracture

733.1, 733.10, 733.11, 733.12, 733.13, 733.14, 733.15, 733.16, 733.19, 733.93, 733.94, 733.95, 733.96, 733.97, 733.98, V13.51

M80.00XA, M80.00XD, M80.00XG, M80.00XK, M80.00XP, M80.00XS, M80.011A, M80.011D, M80.011G, M80.011K, M80.011P, M80.011S, M80.012A, M80.012D, M80.012G, M80.012K, M80.012P, M80.012S, M80.019A, M80.019D, M80.019G, M80.019K, M80.019P, M80.019S, M80.021A, M80.021D, M80.021G, M80.021K, M80.021P, M80.021S, M80.022A, M80.022D, M80.022G, M80.022K, M80.022P, M80.022S, M80.029A, M80.029D, M80.029G, M80.029K, M80.029P, M80.029S, M80.031A, M80.031D, M80.031G, M80.031K, M80.031P, M80.031S, M80.032A, M80.032D, M80.032G, M80.032K, M80.032P, M80.032S, M80.039A, M80.039D, M80.039G, M80.039K, M80.039P, M80.039S, M80.041A, M80.041D, M80.041G, M80.041K, M80.041P, M80.041S, M80.042A, M80.042D, M80.042G, M80.042K, M80.042P, M80.042S, M80.049A, M80.049D, M80.049G, M80.049K, M80.049P, M80.049S, M80.051A, M80.051D, M80.051G, M80.051K, M80.051P, M80.051S, M80.052A, M80.052D, M80.052G, M80.052K, M80.052P, M80.052S, M80.059A, M80.059D, M80.059G, M80.059K, M80.059P, M80.059S, M80.061A, M80.061D, M80.061G, M80.061K, M80.061P, M80.061S, M80.062A, M80.062D, M80.062G, M80.062K, M80.062P, M80.062S, M80.069A, M80.069D, M80.069G, M80.069K, M80.069P, M80.069S, M80.071A, M80.071D, M80.071G, M80.071K, M80.071P, M80.071S, M80.072A, M80.072D, M80.072G, M80.072K, M80.072P, M80.072S, M80.079A, M80.079D, M80.079G, M80.079K, M80.079P, M80.079S, M80.08XA, M80.08XD, M80.08XG, M80.08XK, M80.08XP, M80.08XS, M80.80XA, M80.80XD, M80.80XG, M80.80XK, M80.80XP, M80.80XS, M80.811A, M80.811D, M80.811G, M80.811K, M80.811P, M80.811S, M80.812A, M80.812D, M80.812G, M80.812K,

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Z87.310, Z87.311

Other connective tissue disease

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729.90, 729.91, 729.92, 729.99, 781.9, 781.91, 781.92,
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V43.61, V43.62, V43.63, V43.64, V43.65, V43.66, V43.69,
V43.7, V45.4, V48.1, V48.2, V48.3, V49.0, V49.1, V49.2,
V49.5, V49.60, V49.61, V49.62, V49.63, V49.64, V49.65,
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V49.75, V49.76, V49.77, V53.7
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M71.19, M71.20, M71.21, M71.22, M71.30, M71.311, M71.312, M71.319, M71.321, M71.322, M71.329, M71.331, M71.332, M71.339, M71.341, M71.342, M71.349, M71.351, M71.352, M71.359, M71.371, M71.372, M71.379, M71.38, M71.39, M71.40, M71.421, M71.422, M71.429, M71.431, M71.432, M71.439, M71.441, M71.442, M71.449, M71.451, M71.452, M71.459, M71.461, M71.462, M71.469, M71.471, M71.472, M71.479, M71.48, M71.49, M71.50, M71.521, M71.522, M71.529, M71.531, M71.532, M71.539, M71.541, M71.542, M71.549, M71.551, M71.552, M71.559, M71.561, M71.562, M71.569, M71.571, M71.572, M71.579, M71.58, M71.80, M71.811, M71.812, M71.819, M71.821, M71.822, M71.829, M71.831, M71.832, M71.839, M71.841, M71.842, M71.849, M71.851, M71.852, M71.859, M71.861, M71.862, M71.869, M71.871, M71.872, M71.879, M71.88, M71.89, M71.9, M72.0, M72.1, M72.2, M72.4, M72.6, M72.8, M72.9, M75.00, M75.01, M75.02, M75.100, M75.101, M75.102, M75.110, M75.111, M75.112, M75.120, M75.121, M75.122, M75.20, M75.21, M75.22, M75.30, M75.31, M75.32, M75.40, M75.41, M75.42, M75.50, M75.51, M75.52, M75.80, M75.81, M75.82, M75.90, M75.91, M75.92, M76.00, M76.01, M76.02, M76.10, M76.11, M76.12, M76.20, M76.21, M76.22, M76.30, M76.31, M76.32, M76.40, M76.41, M76.42, M76.50, M76.51, M76.52, M76.60, M76.61, M76.62, M76.70, M76.71, M76.72, M76.811, M76.812, M76.819, M76.821, M76.822, M76.829, M76.891, M76.892, M76.899, M76.9, M77.00, M77.01, M77.02, M77.10, M77.11, M77.12, M77.20, M77.21, M77.22, M77.30, M77.31, M77.32, M77.40, M77.41, M77.42, M77.50, M77.51, M77.52, M77.8, M77.9, M79.0, M79.1, M79.10, M79.11, M79.12, M79.18, M79.2, M79.3, M79.4, M79.5, M79.601, M79.602, M79.603, M79.604, M79.605, M79.606, M79.609, M79.621, M79.622, M79.629, M79.631, M79.632, M79.639, M79.641, M79.642, M79.643, M79.644, M79.645, M79.646, M79.651, M79.652, M79.659, M79.661, M79.662, M79.669, M79.671, M79.672, M79.673, M79.674, M79.675, M79.676, M79.7, M79.81, M79.89, M79.9, M79.A11, M79.A12, M79.A19, M79.A21, M79.A22, M79.A29, M79.A3, M79.A9, R25.2, R29.3, R29.6, R29.810, R29.818, R29.890, R29.898, R29.90, R29.91, Z87.39, Z96.60, Z96.611, Z96.612, Z96.619, Z96.621, Z96.622, Z96.629, Z96.631, Z96.632, Z96.639, Z96.641, Z96.642, Z96.643, Z96.649, Z96.651, Z96.652, Z96.653, Z96.659, Z96.661, Z96.662, Z96.669, Z96.691, Z96.692, Z96.693, Z96.698, Z96.7, Z97.10, Z97.11, Z97.12, Z97.13, Z97.14, Z97.15, Z97.16, Z98.1

Muscle Atrophy Weakness

728.2, 728.87

M62.50, M62.511, M62.512, M62.519, M62.521, M62.522,
M62.529, M62.531, M62.532, M62.539, M62.541, M62.542,
M62.549, M62.551, M62.552, M62.559, M62.561, M62.562,
M62.569, M62.571, M62.572, M62.579, M62.58, M62.59,
M62.81

Myalgia

729.1

M60.9, M79.1, M79.10, M79.11, M79.12, M79.18, M79.7

Supplemental Table S4. Regression Results for Unmatched Cohorts of Adults with and without Traumatic Spinal Cord Injury

	Estimate	StdErr	HR	95% CI		P
<i>SCI</i>	-0.948	0.138				<0.001
<i>Age 65+</i>	-2.380	0.024				<0.001
<i>SCI * Age 65+</i>	0.423	0.141				0.003
<i>Female</i>	-0.179	0.009	1.245	1.218	1.274	<0.001
<i>Race</i>						<0.001
<i>Asian</i>	0.218	0.030	0.766	0.713	0.822	<0.001
<i>Black</i>	-0.048	0.017	1.060	1.017	1.105	0.006
<i>Hispanic</i>	0.038	0.017	0.955	0.917	0.995	0.027
<i>Unknown/Missing</i>	-0.012	0.014	1.015	0.982	1.050	0.385
<i>White</i>			<i>Reference</i>			
<i>Division</i>						<0.001
<i>East North Central</i>	-0.050	0.020	1.063	1.014	1.114	0.011
<i>East South Central</i>	-0.168	0.029	1.229	1.147	1.316	<0.001
<i>Middle Atlantic</i>	-0.107	0.022	1.140	1.082	1.202	<0.001
<i>Mountain</i>	-0.019	0.019	1.024	0.977	1.072	0.324
<i>New England</i>	-0.173	0.025	1.236	1.164	1.312	<0.001
<i>Pacific</i>	-0.229	0.017	1.324	1.271	1.378	<0.001
<i>South Atlantic</i>	0.002	0.018	0.998	0.956	1.042	0.930
<i>Unknown</i>	-0.171	0.040	1.233	1.119	1.358	<0.001
<i>West North Central</i>	0.049	0.021	0.941	0.896	0.989	0.017
<i>West South Central</i>			<i>Reference</i>			
<i>Elixhauser</i>	-0.104	0.002	1.135	1.130	1.141	<0.001
<i>Education</i>						<0.001
<i>Less than 12th Grade</i>	-0.049	0.049	1.062	0.945	1.194	0.313
<i>High School Diploma</i>	0.000	0.011	1.000	0.973	1.027	0.977
<i>Bachelor Degree Plus</i>	-0.069	0.015	1.089	1.051	1.127	<0.001
<i>Unknown/Missing</i>	0.780	0.027	0.385	0.361	0.410	<0.001
<i>Less than Bachelor Degree</i>			<i>Reference</i>			
<i>Net-worth</i>						<0.001
<i>Unknown/Missing</i>	-0.646	0.016	2.207	2.124	2.294	<0.001
<\$25K	-0.222	0.017	1.312	1.259	1.368	<0.001
\$25K-\$149K	-0.218	0.017	1.306	1.255	1.359	<0.001
\$150K-\$249K	-0.172	0.018	1.234	1.181	1.289	<0.001
\$250K-\$499K	-0.153	0.015	1.206	1.162	1.251	<0.001
\$500K+			<i>Reference</i>			

Source: The 2007-2017 OptumInsight

Abbreviations: StdErr: Standard Error; HR: Hazard Ratio; CI: Confidence Interval.

Supplemental Table S5. Regression Results for Matched Cohorts of Adults with and without Traumatic Spinal Cord Injury

	Estimate	StdErr	HR	95% CI		P
<i>SCI</i>	-0.719	0.334				0.031
<i>Age 65+</i>	-2.792	0.293				<0.001
<i>SCI * Age 65+</i>	0.097	0.341				0.777
<i>Female</i>	-0.179	0.073	1.177	1.033	1.342	0.014
<i>Race</i>						0.011
<i>Asian</i>	0.042	0.211	0.963	0.660	1.405	0.844
<i>Black</i>	0.213	0.154	0.823	0.625	1.084	0.167
<i>Hispanic</i>	-0.192	0.124	1.192	0.955	1.487	0.120
<i>Unknown/Missing</i>	-0.237	0.096	1.242	1.045	1.475	0.014
<i>White</i>			<i>Reference</i>			
<i>Division</i>						0.076
<i>East North Central</i>	-0.198	0.136	1.198	0.939	1.528	0.146
<i>East South Central</i>	-0.091	0.204	1.087	0.755	1.566	0.654
<i>Middle Atlantic</i>	-0.064	0.167	1.060	0.787	1.429	0.701
<i>Mountain</i>	0.179	0.132	0.849	0.671	1.075	0.174
<i>New England</i>	0.106	0.181	0.908	0.657	1.255	0.559
<i>Pacific</i>	-0.031	0.117	1.028	0.834	1.268	0.793
<i>South Atlantic</i>	0.068	0.125	0.940	0.752	1.175	0.587
<i>Unknown</i>	0.410	0.358	0.688	0.363	1.305	0.252
<i>West North Central</i>	0.315	0.158	0.750	0.565	0.995	0.046
<i>West South Central</i>			<i>Reference</i>			
<i>Elixhauser</i>	-0.085	0.013	1.081	1.056	1.107	<0.001
<i>Education</i>						<0.001
<i>Less than 12th Grade</i>	-0.039	0.359	1.036	0.545	1.970	0.913
<i>High School Diploma</i>	-0.069	0.084	1.065	0.916	1.239	0.412
<i>Bachelor Degree Plus</i>	-0.168	0.107	1.166	0.963	1.411	0.115
<i>Unknown/Missing</i>	1.154	0.292	0.348	0.207	0.588	<0.001
<i>Less than Bachelor Degree</i>			<i>Reference</i>			
<i>Net worth</i>						<0.001
<i>Unknown/Missing</i>	-0.676	0.118	1.854	1.500	2.292	<0.001
<\$25K	-0.313	0.125	1.332	1.064	1.666	0.012
\$25K-\$149K	-0.323	0.120	1.343	1.084	1.665	0.007
\$150K-\$249K	-0.104	0.144	1.099	0.850	1.421	0.470
\$250K-\$499K	-0.101	0.123	1.097	0.881	1.366	0.409
\$500K+			<i>Reference</i>			

Source: The 2007-2017 OptumInsight

Abbreviations: StdErr: Standard Error; HR: Hazard Ratio; CI: Confidence Interval.

Supplemental Table S6. Adjusted Predicted Incremental Hazards of Traumatic Brain Injury and Cardiovascular Disease for ADRD after Traumatic Spinal Cord Injury among Unmatched Cohorts of Adults

TSCI	TBI	TSCI	TBI	Estimate	Std Err	Hazard Ratio	HR Lower	HR Upper	P-value
Yes	Yes	Yes	No	0.068	0.190	0.920	0.583	1.450	0.718
Yes	Yes	No	Yes	0.006	0.223	0.992	0.581	1.693	0.977
Yes	Yes	No	No	-0.716	0.198	2.403	1.492	3.870	<0.001
Yes	No	No	Yes	-0.062	0.126	1.079	0.798	1.459	0.621
Yes	No	No	No	-0.784	0.074	2.613	2.185	3.125	<0.001
No	Yes	No	No	-0.722	0.102	2.422	1.898	3.091	<0.001
TSCI	Prior CV	TSCI	Prior CV	Estimate	Std Err	Hazard Ratio	HR Lower	HR Upper	P-value
Yes	Yes	Yes	No	0.152	0.087	0.830	0.674	1.023	0.081
Yes	Yes	No	Yes	-0.310	0.126	1.462	1.079	1.979	0.014
Yes	Yes	No	No	-0.316	0.127	1.473	1.087	1.997	0.013
Yes	No	No	Yes	-0.462	0.141	1.760	1.255	2.469	0.001
Yes	No	No	No	-0.468	0.141	1.774	1.265	2.488	<0.001
No	Yes	No	No	-0.006	0.013	1.008	0.978	1.039	0.610

Source: The 2007-2017 OptumInsight

Abbreviations: TSCI: Traumatic Spinal Cord Injury; TBI: Traumatic Brain Injury; CV: Cardiovascular Disease; Std Err: Standard Error; HR: Hazard Ratio.

Supplemental Table S7. Adjusted Predicted Incremental Hazards of Traumatic Brain Injury and Cardiovascular Disease for ADRD after Traumatic Spinal Cord Injury among Matched Cohorts of Adults

TSCI	TBI	TSCI	TBI	Estimate	Std Err	Hazard Ratio	HR Lower	HR Upper	P-value
Yes	Yes	Yes	No	0.064	0.264	0.943	0.588	1.513	0.808
Yes	Yes	No	Yes	-0.713	1.141	1.919	0.249	14.800	0.532
Yes	Yes	No	No	-0.777	0.316	2.034	1.154	3.584	0.014
Yes	No	No	Yes	-0.778	1.112	2.035	0.278	14.901	0.484
Yes	No	No	No	-0.842	0.186	2.157	1.545	3.012	<0.001
No	Yes	No	No	-0.064	1.098	1.060	0.148	7.568	0.954
TSCI	Prior CV	TSCI	Prior CV	Estimate	Std Err	Hazard Ratio	HR Lower	HR Upper	P-value
Yes	Yes	Yes	No	0.058	0.131	0.948	0.750	1.200	0.658
Yes	Yes	No	Yes	-0.484	0.587	1.556	0.544	4.452	0.410
Yes	Yes	No	No	-1.013	0.613	2.523	0.842	7.562	0.098
Yes	No	No	Yes	-0.542	0.595	1.640	0.565	4.764	0.363
Yes	No	No	No	-1.071	0.617	2.661	0.881	8.035	0.083
No	Yes	No	No	-0.529	0.202	1.622	1.130	2.328	0.009

Source: The 2007-2017 OptumInsight

Abbreviations: TSCI: Traumatic Spinal Cord Injury; TBI: Traumatic Brain Injury; CV: Cardiovascular Disease; Std Err: Standard Error; HR: Hazard Ratio.