

The Barell Injury Diagnosis Matrix, Classification by Body Region and Nature of the Injury

based on 5 digit icd-9 CM codes

		A	B	C	D	E	F	G	H	I	J	K	L		
		ICD-9-CM codes	FRACTURE	DISLOCATION	SPRAINS & STRAINS	INTERNAL	OPEN WOUND	AMPUTATIONS	BLOOD VESSELS	CONTUSION / SUPERFICIAL	CRUSH	BURNS	NERVES	UNSPECIFIED	
			800-829	830-839	840-848	850-854,860-869	870-884, 890-894	885-887, 895-897	900-904	910-924	925-929	940-949	950-951 953-957	959	
37	Traumatic Brain Injury	1 Type 1 TBI	800,801,803,804(1-4,6-9), (03-05,53-55) 850(2-4), 851-854, 950(1-3), 995.55	/	/	850(2-4) 851-854*, 995.55	/	/	/	/	/	/	950.1-3	/	
		2 Type 2 TBI	800,801,803,804(00,02,06,09) (50,52,56,59) , 850(0,1,5,9)	800,801,803,804(00,02,06,09), 800,801,803,804(50,52,56,59)	/	/	850(0,1,5,9)	/	/	/	/	/	/	/	/
		3 Type 3 TBI	800,801,803,804(01,51)	/	/	/	/	/	/	/	/	/	/	/	/
38	Head and Neck Other head, face and neck	4 Other Head	873(0-1,8-9), 941.x6, 951, 959.01	/	/	/	873.0-1,8-9	/	/	/	/	941.x6	951	959.01*	
		5 Face	802, 830, 848.0-1, 872, 873.2-7, 941(x1,x3-x5,x7)	802	830	848.0-1	/	872, 873.2-7	/	/	/	/	941.x1,x3-x5,x7	/	/
		6 Eye	870-871, 918, 921, 940, 941.x2, 950(0,9)	/	/	/	/	870-871	/	/	918, 921	/	940, 941.x2	950(0,9)	/
		7 Neck	807.5-6, 848.2, 874, 925.2, 941.x8, 953.0, 954.0	807.5-6	/	848.2	/	874	/	/	/	925.2	941.x8	953.0, 954.0	/
		8 Head, Face and Neck Unspecified	900, 910, 920, 925.1, 941.x0, .x9, 947.0, 957.0, 959.09	/	/	/	/	/	/	900	910, 920	925.1	941.x0,x9, 947.0	957.0	959.09
		9 Cervical SCI	806(0-1), 952.0	806.0-1	/	/	952.0	/	/	/	/	/	/	/	/
		10 Thoracic/ Dorsal SCI	806(2-3), 952.1	806.2-3	/	/	952.1	/	/	/	/	/	/	/	/
		11 Lumbar SCI	806(4-5), 952.2	806.4-5	/	/	952.2	/	/	/	/	/	/	/	/
40	Spinal Cord (SCI)	12 Sacrum Coccyx SCI	806(6-7), 952(3-4)	806.6-7	/	/	952.3-4	/	/	/	/	/	/	/	
		13 Spine+ Back unspecified SCI	806(8-9), 952(8-9)	806.8-9	/	/	952.8-9	/	/	/	/	/	/	/	
		14 Cervical VCI	805(0-1), 839(0-1), 847.0	805.0-1	839.0-1	847.0	/	/	/	/	/	/	/	/	
		15 Thoracic /Dorsal VCI	805(2-3), 839(21,31), 847.1	805.2-3	839.21,31	847.1	/	/	/	/	/	/	/	/	
		16 Lumbar VCI	805(4-5), 839(20,30), 847.2	805.4-5	839.20,30	847.2	/	/	/	/	/	/	/	/	
		17 Sacrum Coccyx VCI	805(6-7), 839(41-42), 839(51-52), 847.3-4	805.6-7	839(41-42,51-52)	847.3-4	/	/	/	/	/	/	/	/	
		18 Spine+ Back unspecified VCI	805(8-9), 839(40,49), 839(50,59)	805.8-9	839(40,49,50,59)	/	/	/	/	/	/	/	/	/	
		19 Chest (Thorax)	807(0-4), 839(61,71), 848(3-4), 860-862, 875, 879(0-1), 901, 922(0-1,33), 926.19, 942.x1-x2 953.1	807.0-4	839.61,71	848.3-4	860-862	875, 879.0-1	/	901	922(0,1,33)	926.19	942.x1-x2	953.1	/
41	Torso	20 Abdomen	863-866, 868, 879(2-5), 902(0-4), 922.2,942.x3, 947.3, 953(2,5)	/	/	863-866, 868	879.2-5	/	902.0-4	922.2	/	942.x3, 947.3	953.2, 953.5	/	
		21 Pelvis & Urogenital	808, 839(69,79), 846, 848.5, 867,877-878 902(5,81-82), 922.4, 926(0,12), 942.x5,947.4, 953.3	808	839.69,79	846, 848.5	867	877-878	/	902(5,81-82)	922.4	926(0,12)	942.x5, 947.4	953.3	/
		22 Trunk	809, 879(6-7), 911, 922(8-9), 926(8-9), 942(x0,x9), 954(1,8-9), 959.1	809	/	/	/	879.6-7	/	/	911, 922.8-9	926.8-9	942.x0, 942.x9	954.1, 8-9	959.1
		23 Back and Buttock	847.9, 876, 922(31-32), 926.11, 942.x4	/	847.9	/	/	876	/	/	922.31-32	926.11	942.x4	/	/
		24 Shoulder & upper arm	810-812, 831, 840, 880, 887(2-3), 912,923.0, 927.0, 943(x3-x6), 959.2	810-812	831	840	/	880	887.2-3	/	912, 923.0	927.0	943.x3-x6	/	959.2
		25 Forearm & elbow	813, 832, 841, 881(x0-x1), 887(0-1), 923.1, 927.1, 943(x1-x2)	813	832	841	/	881.x0-x1	887.0-1	/	923.1	927.1	943.x1-x2	/	/
		26 Wrist, hand & fingers	814-817, 833-834, 842,881.x2, 882, 883, 885-886, 914-915, 923(2-3), 927(2-3), 944, 959(4-5)	814-817	833, 834	842	/	881.x2,882, 883	/	/	914-915, 923.2-3	927.2-3	944	/	959.4-5
		27 Other & unspecified	818, 884, 887(4-7), 903, 913, 923(8-9), 927(8-9), 943(x0,x9), 953.4, 955, 959.3	818	/	/	/	884	887.4-7	903	913,923.8,9	927.8-9	943.x0,x9	953.4, 955	959.3
44	Extremities	28 Hip	820, 835, 843, 924.01, 928.01	820	835	843	/	/	/	/	924.01	928.01	/	/	
		29 Upper leg & thigh	821, 897(2-3), 924.00, 928.00, 945.x6	821	/	/	/	897.2-3	/	924.00	928.00	945.x6	/	/	
		30 Knee	822, 836, 844.0-3, 924.11, 928.11, 945.x5	822	836	844.0-3	/	/	/	924.11	928.11	945.x5	/	/	
		31 Lower leg & ankle	823-824, 837, 845.0, 897(0-1), 924(10,21), 928(10,21), 945(x3-x4)	823-824	837	845.0	/	897.0-1	/	924.10,21	928.10,21	945.x3-x4	/	/	
		32 Foot & toes	825-826, 838, 845.1, 892-893, 895-896, 917, 924(3,20), 928 (.3,20), 945 (.x1-x2)	825-826	838	845.1	/	892-893	895-896	/	917, 924.3,20	928.3,20	945.x1-x2	/	/
		33 Other & unspecified	827,844(8-9), 890-891, 894, 897(4-7), 904(0-8), 916, 924(4-5), 928(8-9), 945(x0,x9), 959.6-7	827	/	844.8,9	/	890-891,894	897.4-7	904.0-8	916, 924.4-5	928.8,9	945.x0,x9	/	959.6-7
		34 Other/ multiple	819, 828, 902(87,89), 947(1-2), 953.8, 956	819, 828	/	/	/	/	902.87,89	/	/	/	947.1-2	953.8, 956	/
		35 Unspecified site	829, 839(8-9), 848(8-9), 869, 879(8,9), 902.9, 904.9, 919, 924(8,9), 929, 946, 947(8,9), 948, 949, 953.9, 957(1,8,9), 959(8,9)	829	839.8-9	848.8-9	869	879(8-9)	/	902.9, 904.9	919, 924.8,9	929	946, 947.8,9 948, 949	953.9, 957.1,8,9	959.8,9
46	System-wide & late effects	36 System-wide & late effects	905-908, 909 (0,1,2,4,9), 930-939,958, 960-994, 995.50-54,59, 995(80-85)	Foreign body (930-939), Early complications of trauma (958), Poisoning (960-979), Toxic Effects (980-989), Other and unspecified effects of external cause (990-994) Child and adult maltreatment (995.50-54,59, 995.80-85) Late effects of injuries, poisonings, toxic effects and other external causes (905-909) excluding 909(3,5)											
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Special diagnostic codes for trauma: Flail Chest (807.4) Pneumothorax (860)

For purposes of classification, head injuries are labeled as Type 1 TBI if there is recorded evidence of an intracranial injury or a moderate or a prolonged loss of consciousness (LOC), Shaken Infant Syndrome (SIS), or injuries to the optic nerve pathways.

Type 2 TBI includes injuries with no recorded evidence of intracranial injury, and LOC of less than one hour, or LOC of unknown duration, or unspecified level of consciousness. Type 3 TBI includes patients with no evidence of intracranial injury and no LOC.

* Note from CDC: 959.01 (added to ICD-9-CM in 1997) is not intended to be assigned to TBI cases; however, in the USA it has been assigned incorrectly to a substantial proportion of cases previously coded 854.

The Matrix is available on the net at www.cdc.gov/nchs/about/otheract/ice/barellmatrix.htm