Fracture site ("case" ICD-9	Additional aggs analifying negotinements	Old CPT codes used by Baron (1986-1990 data) &
codes)*	Additional case-qualifying requirements	Ray (1987 data)
Hip-closed (substr4(8200, 8202, 8208), 73314)	[Inpatient primary or secondary diagnosis code in ("case")] [CQ=1 or 2] OR [Carrier line or outpatient claim with HCPCS in (27230-27248) and diagnosis code in ("case") and date on or after follow-up start and before EOS] [CQ=3]	Baron: 27230-27248 Ray: 27125-27127, 27230- 38, 27240-48
Hip-other (after excluding substr4 in 8200, 8202, 8208, all substr3=820)	[Inpatient primary or secondary diagnosis code in ("case")] [CQ=1 or 2] OR [Carrier line or outpatient claim with HCPCS in (27230-27248) and diagnosis code in ("case") and date on or after follow-up start and before EOS] [CQ=3]	"
Pelvis-closed (substr4 8080, 8082, 8084, 8088)	[Inpatient primary or secondary diagnosis code in ("case")] [CQ=1 or 2] OR [Carrier line or outpatient claim with HCPCS in (27193-27194, 27215-27218, 27220, 27222, 27226-27228) and diagnosis code in ("case") and date on or after follow-up start and before EOS] [CQ=3]	Baron: 27210-27214 Ray: 27220, 27222, 27224, 27225
Pelvis-other (after excluding substr4 in 8080, 8082, 8084, 8088, all substr3=808)	[Inpatient primary or secondary diagnosis code in ("case")] [CQ=1 or 2] OR [Carrier line or outpatient claim with HCPCS in (27193-27194, 27215-27218, 27220, 27222, 27226-27228) and diagnosis code in ("case") and date on or after follow-up start and before EOS] [CQ=3]	66

Fracture site ("case" ICD-9 codes)*	Additional case-qualifying requirements	Old CPT codes used by Baron (1986-1990 data) & Ray (1987 data)
Leg-closed other than hip, not including knee or ankle (substr4(8210, 8212, 8230, 8232, 8238), 73315, 73316)	[Inpatient primary or secondary diagnosis code in ("case")][CQ=1 or 2] OR [Carrier line or outpatient claim with HCPCS in (27500-27514, 27530-27536, 27750-27759, 27780-27784, 27824-27828) and diagnosis code in ("case")] [CQ=3]	Baron: 27500-14, 27530-40, 27750-58, 27780-84, 27800-06 Ray: 27500,02,04,06,08, 10,12,14; 27530,32,34, 36-38,40, 27750,52,54, 56,58,80-82,84, 27800, 02,04,06
Leg-other, not including knee or ankle (after excluding substr4 in 8210, 8212, 8230, 8232, 8238 all substr3=821, 823)	[Inpatient primary or secondary diagnosis code in ("case")] [CQ=1 or 2] OR [Carrier line or outpatient claim with HCPCS in (27500-27514, 27530-27536, 27750-27759, 27780-27784, 27824-27828) and diagnosis code in ("case")] [CQ=3]	
Ankle (substr3=824)	[Inpatient primary or secondary diagnosis code in ("case")] [CQ=1 or 2] OR [Carrier line or outpatient claim with HCPCS in (27760, 27762, 27766, 27786, 27788, 27792, 27808, 27810, 27814, 27816, 27818, 27822, 27823, 28430, 28435, 28436, 28445 (includes talus)) and diagnosis code in ("case")] [CQ=3]	Baron: 27760-66, 27786-92, 27808-23 Ray: 27760,62,64,66,86,88, 90,92; 27810,12,14,16,18, 20,22,23
Distal forearm (substr4(8134, 8135), 73312)	[Inpatient primary or secondary diagnosis code in ("case")] [CQ=1 or 2] OR [Carrier line or outpatient claim with HCPCS in (25600, 25605, 25611, 25620, 25650, 25651, 25652 (includes ulnar styloid)) and diagnosis code in ("case")] [CQ=3]	Baron: 25600-20 Ray: 25600-20

Eventure site (George LCD 0		Old CPT codes used by
Fracture site ("case" ICD-9 codes)*	Additional case-qualifying requirements	Baron (1986-1990 data) & Ray (1987 data)
	12442202010120120120120120120120120120120120	(2) 0. (20)
Radius/ulna-other (after excluding substr4 in 8134, 8135, all substr3=813)	[Inpatient primary or secondary diagnosis code in ("case")] [CQ=1 or 2] OR [Carrier line or outpatient claim with HCPCS in (24650, 24655, 24665, 24666, 24670, 24675, 24685, 25500, 25505, 25515, 25520, 25525, 25526, 25530, 25535, 25545, 25560, 25565, 25574, 25575) and diagnosis code in ("case")] [CQ=3]	Baron: 24620-35 (elbow), 24650-85, 25500-75 Ray: 24650,55,60,65,66,70, 75,80,85; 25500,05,10,15, 30,35,40,45,60,65,70,75
All radius/ulna, not including elbow (substr3=813, 73312)	[Inpatient primary or secondary diagnosis code in ("case")] [CQ=1 or 2] OR [Carrier line or outpatient claim with HCPCS in (24650, 24655, 24665, 24666, 24670, 24675, 24685, 25500, 25505, 25515, 25520, 25525, 25526, 25530, 25535, 25545, 25560, 2565, 25574, 25575, 25600, 25605, 25611, 25620, 25650, 25651, 25652 (includes ulnar styloid)) and diagnosis code in ("case")] [NOTE: 24620-35 are elbow] [CQ=3]	Baron: 24620-35, 24650-85, 25500-75, 25600-20 Ray: 24620,25,35,50,55, 60,65,66,70,75,80,85, 25500,05,10,15,30,35,40,45, 60,65,70,75, 25600,05,10, 11,15,20,50
Humerus-closed (substr4(8120, 8122, 8124), 73311)	[Inpatient primary or secondary diagnosis code in ("case")] [CQ=1 or 2] OR [Carrier line or outpatient claim with HCPCS in (23600, 23605, 23615, 23616, 23520, 23625, 23630, 23665, 24500, 24505, 24515, 24516, 24530, 24535, 24538, 24545, 24546, 24560, 24565, 24566, 24575, 24576, 24577, 24579, 24582) and diagnosis code in ("case")] [CQ=3]	Baron: 23600-23630, 23665-23680, 24500-24588 Ray: 23600,05,10,15,20,25,30,65, 70,75,80, 24500,05,06,10,15,30,31, 35,36,38,40,42,45,60,65,70, 75-81,83,85-88

Fracture site ("case" ICD-9		Old CPT codes used by Baron (1986-1990 data) &
codes)*	Additional case-qualifying requirements	Ray (1987 data)
Humerus-other (after excluding	[Inpatient primary or secondary diagnosis code in ("case")]	"
substr4 in 8120, 8122, 8124, all	[CQ=1 or 2] OR	
substr3=812)	[Carrier line or outpatient claim with HCPCS in (23600,	
,	23605, 23615, 23616, 23520, 23625, 23630, 23665, 24500,	
	24505, 24515, 24516, 24530, 24535, 24538, 24545, 24546,	
	24560, 24565, 24566, 24575, 24576, 24577, 24579, 24582) and	
	diagnosis code in ("case")] [CQ=3]	
Clavicle-closed (substr4=8100)	[Inpatient primary or secondary diagnosis code in ("case")]	Baron: not analyzed
	[CQ=1 or 2] OR	Ray: 23500,05,10,15
	[Carrier line or outpatient claim with HCPCS in (23500,	
	23505, 23515) and diagnosis code in ("case")] [CQ=3]	
Clavicle-other (after excluding	[Inpatient primary or secondary diagnosis code in ("case")]	46
substr4 in 8100, all substr3=810)	[CQ=1 or 2] OR	
	[Carrier line or outpatient claim with HCPCS in (23500,	
	23505, 23515) and diagnosis code in ("case")] [CQ=3]	
Spine - incidence (8052, 8054, 8058,	[Inpatient primary diagnosis code in ("case")] [CQ=1] OR	Not analyzed
73313)	[Carrier line or outpatient claim with HCPCS in (22520,	
	22521, 22522, 76012, 76013, 22305, 22310, 22315, 22318,	
NOTE: use same approach for	22319, 22325, 22326, 22327, 22328) and diagnosis code in	
separate categories:	("case")] [CQ=3] OR	
a. 8052, 8054, 8058	[Carrier line or outpatient claim with HCPCS in (99xxx) and	
b. 73313	diagnosis in ("case") plus, up to 10 days earlier, Carrier line or	
	outpatient revenue center claim with HCPCS in (72010-72159,	
	72240-72295)][CQ=4]	

Fracture site ("case" ICD-9		Old CPT codes used by Baron (1986-1990 data) &
codes)*	Additional case-qualifying requirements	Ray (1987 data)
Spine TL closed - history (8050,	[Inpatient primary or secondary diagnosis code in ("case")	Not analyzed
8052, 8054, 73313)	[CQ=1 or 2] OR	
	[Carrier line or outpatient claim with HCPCS in (22520,	
	22521, 22522, 76012, 76013, 22305, 22310, 22315, 22318,	
	22319, 22325, 22326, 22327, 22328) and diagnosis code in	
	("case")] [CQ=3] OR	
	[Carrier line or outpatient claim with HCPCS in (99xxx) and	
	diagnosis in ("case")][CQ=5]	
Spine other – history (after	[Inpatient primary or secondary diagnosis code in ("case")	Not analyzed
excluding substr4 in 8050, 8052,	[CQ=1 or 2] OR	
8054, all substr3=805, 806)	[Carrier line or outpatient claim with HCPCS in (22520,	
	22521, 22522, 76012, 76013, 22305, 22310, 22315, 22318,	
	22319, 22325, 22326, 22327, 22328) and diagnosis code in	
	("case")] [CQ=3] OR	
	[Carrier line or outpatient claim with HCPCS in (99xxx) and	
	diagnosis in ("case")][CQ=5]	
Wrist, carpal bones (substr3=814)	[Inpatient primary or secondary diagnosis code in ("case")]	Baron: not analyzed
	[CQ=1 or 2] OR	Ray: 25622,24,26,28,30,35,
	[Carrier line or outpatient claim with HCPCS in (25622,	40,45,80,85
	25624, 25628, 25630, 25635, 25645, 25680, 25685) and	
	diagnosis code in ("case")] [CQ=3]	
*4-digit substring unless otherwise sp	pecified.	