$Quality\ Reporting\ Windows\ May\ Not\ Capture\ the\ Effects\ of\ Surgical\ Site\ Infections\ After\ Orthopaedic\ Surgery\ http://dx.doi.org/10.2106/JBJS.21.01278$

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STROBE Statement—Checklist of items that should be included in reports of *cohort studies*

	Item No	Recommendation	Page No
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the	
		abstract	
		(b) Provide in the abstract an informative and balanced summary of what was	1
		done and what was found	
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	2-4
Objectives	3	State specific objectives, including any prespecified hypotheses	3-4
Methods			
Study design	4	Present key elements of study design early in the paper	4
Setting	5	Describe the setting, locations, and relevant dates, including periods of	5-6
_		recruitment, exposure, follow-up, and data collection	
Participants	6	(a) Give the eligibility criteria, and the sources and methods of selection of	5-6
		participants. Describe methods of follow-up	
		(b) For matched studies, give matching criteria and number of exposed and	
		unexposed	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and	5-7
		effect modifiers. Give diagnostic criteria, if applicable	
Data sources/	8*	For each variable of interest, give sources of data and details of methods of	4-7
measurement		assessment (measurement). Describe comparability of assessment methods if	
		there is more than one group	
Bias	9	Describe any efforts to address potential sources of bias	12- 13
Study size	10	Explain how the study size was arrived at	4-8
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable,	7-8
		describe which groupings were chosen and why	
Statistical methods	12	(a) Describe all statistical methods, including those used to control for	
		confounding	
		(b) Describe any methods used to examine subgroups and interactions	7-8
		(c) Explain how missing data were addressed	
		(d) If applicable, explain how loss to follow-up was addressed	
		(\underline{e}) Describe any sensitivity analyses	
Results			

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Participants		13*	(a) Report numbers of individuals at each stage of study—eg numbers poten	tially	8-9
			eligible, examined for eligibility, confirmed eligible, included in the study,		
			completing follow-up, and analysed		
			(b) Give reasons for non-participation at each stage		
			(c) Consider use of a flow diagram		
Descriptive data		14*	(a) Give characteristics of study participants (eg demographic, clinical, social	ıl)	8-9
			and information on exposures and potential confounders		
			(b) Indicate number of participants with missing data for each variable of int	erest	
			(c) Summarise follow-up time (eg, average and total amount)		
Outcome data		15*	Report numbers of outcome events or summary measures over time		8-9
Main results	16	(a) Give t	unadjusted estimates and, if applicable, confounder-adjusted estimates and		
		their prec	ision (eg, 95% confidence interval). Make clear which confounders were		
		adjusted f	For and why they were included		
		(b) Repor	t category boundaries when continuous variables were categorized	8-11	
		(c) If rele	vant, consider translating estimates of relative risk into absolute risk for a		
		meaningf	ul time period		
Other analyses	17	Report of	her analyses done—eg analyses of subgroups and interactions, and sensitivity	NA	
		analyses			
Discussion					
Key results	18	Summaris	se key results with reference to study objectives	10-14	
Limitations	19		mitations of the study, taking into account sources of potential bias or	12-13	;
		imprecisi	on. Discuss both direction and magnitude of any potential bias		
Interpretation	20	Give a ca	utious overall interpretation of results considering objectives, limitations,	10-14	
•		multiplici	ty of analyses, results from similar studies, and other relevant evidence		
Generalisability	21	Discuss th	ne generalisability (external validity) of the study results	10-14	
Other informati	on				
Funding	22	Give the	source of funding and the role of the funders for the present study and, if	In	
1 unumg	22		e, for the original study on which the present article is based	subm	issio
		пррпсион	5, for the original stady on which the present article is based	files	

^{*}Give information separately for exposed and unexposed groups.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at http://www.strobe-statement.org.

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Table A2: List of CPT codes analyzed

Name	Description (Detailed)	СРТ	N	%
Total Knee Arthroplasty	Arthroplasty, Knee, Condyle And Plateau; Medial And Lateral Compartments	27447	39973	39.38
	With Or Without Patella Resurfacing (Total Knee Arthroplasty)			
Total Hip Arthroplasty	Arthroplasty, Acetabular And Proximal Femoral Prosthetic Replacement	27130	19912	19.62
	(Total Hip Arthroplasty), With Or Without Autograft Or Allograft			
Treat Thigh Fracture	Treatment Of Intertrochanteric, Peritrochanteric, Or Subtrochanteric	27245	2591	2.55
	Femoral Fracture; With Intramedullary Implant, With Or Without			
	Interlocking Screws And/Or Cerclage			
Treat Thigh Fracture	Open Treatment Of Femoral Fracture, Proximal End, Neck, Internal	27236	2578	2.54
	Fixation Or Prosthetic Replacement			
Revise/Replace Knee	Revision Of Total Knee Arthroplasty, With Or Without Allograft; Femoral	27487	2532	2.49
Joint	And Entire Tibial Component			
Reconstruct Shoulder	Arthroplasty, Glenohumeral Joint; Total Shoulder (Glenoid And Proximal	23472	2460	2.42
Joint	Humeral Replacement (Eg, Total Shoulder))			
Partial Hip Replacement	Hemiarthroplasty, Hip, Partial (Eg, Femoral Stem Prosthesis, Bipolar	27125	1783	1.76
	Arthroplasty)			
Revise/Replace Knee	Revision Of Total Knee Arthroplasty, With Or Without Allograft; 1 Component	27486	1702	1.68
Joint				
Treat Thigh Fracture	Treatment Of Intertrochanteric, Peritrochanteric, Or Subtrochanteric	27244	1678	1.65
	Femoral Fracture; With Plate/Screw Type Implant, With Or Without Cerclage			
Revise Hip Joint	Revision Of Total Hip Arthroplasty; Both Components, With Or Without	27134	1328	1.31
Replacement	Autograft Or Allograft			
Revision Of Knee Joint	Arthroplasty, Knee, Condyle And Plateau; Medial Or Lateral Compartment	27446	1096	1.08
Reconstruct Shoulder	Arthroplasty, Glenohumeral Joint; Hemiarthroplasty	23470	992	0.98
Joint				

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Percutaneous Skeletal Fixation Of Femoral Fracture, Proximal End, Neck	27235	911	0.9
Open Treatment Of Bimalleolar Ankle Fracture (Eg, Lateral And Medial Malleoli,	27814	608	0.6
Or Lateral And Posterior Malleoli, Or Medial And Posterior Malleoli), Includes			
Internal Fixation, When Performed			
Arthrodesis, Posterior Or Posterolateral Technique, Single Level; Lumbar (With	22612	593	0.58
Lateral Transverse Technique, When Performed)			
Open Treatment Of Distal Fibular Fracture (Lateral Malleolus), Includes Internal	27792	546	0.54
Fixation, When Performed			
Open Treatment Of Tibial Fracture, Proximal (Plateau); Unicondylar, Includes	27535	439	0.43
Internal Fixation, When Performed			
Laminectomy, Facetectomy And Foraminotomy (Unilateral Or Bilateral	63047	436	0.43
With Decompression Of Spinal Cord, Cauda Equina And/Or Nerve Root[S],			
[Eg, Spinal Or Lateral Recess Stenosis]), Single Vertebral Segment;			
Lumbar			
Conversion Of Previous Hip Surgery To Total Hip Arthroplasty, With Or	27132	424	0.42
Without Autograft Or Allograft			
Revision Of Total Hip Arthroplasty; Femoral Component Only, With Or	27138	407	0.4
Without Allograft			
Treatment Of Tibial Shaft Fracture (With Or Without Fibular Fracture) By	27759	393	0.39
Intramedullary Implant, With Or Without Interlocking Screws And/Or			
Cerclage			
Revision Of Total Hip Arthroplasty; Acetabular Component Only, With Or	27137	371	0.37
Without Autograft Or Allograft			
Open Treatment Of Proximal Humeral (Surgical Or Anatomical Neck) Fracture,	23615	364	0.36
Includes Internal Fixation, When Performed, Includes Repair Of Tuberosity(S),			
When Performed;			
Open Treatment Of Trimalleolar Ankle Fracture, Includes Internal Fixation, When	27822	308	0.3
Performed, Medial And/Or Lateral Malleolus; Without Fixation Of Posterior Lip			
	Open Treatment Of Bimalleolar Ankle Fracture (Eg, Lateral And Medial Malleoli, Or Lateral And Posterior Malleoli, Or Medial And Posterior Malleoli), Includes Internal Fixation, When Performed Arthrodesis, Posterior Or Posterolateral Technique, Single Level; Lumbar (With Lateral Transverse Technique, When Performed) Open Treatment Of Distal Fibular Fracture (Lateral Malleolus), Includes Internal Fixation, When Performed Open Treatment Of Tibial Fracture, Proximal (Plateau); Unicondylar, Includes Internal Fixation, When Performed Laminectomy, Facetectomy And Foraminotomy (Unilateral Or Bilateral With Decompression Of Spinal Cord, Cauda Equina And/Or Nerve Root[S], [Eg, Spinal Or Lateral Recess Stenosis]), Single Vertebral Segment; Lumbar Conversion Of Previous Hip Surgery To Total Hip Arthroplasty, With Or Without Autograft Or Allograft Revision Of Total Hip Arthroplasty; Femoral Component Only, With Or Without Allograft Treatment Of Tibial Shaft Fracture (With Or Without Fibular Fracture) By Intramedullary Implant, With Or Without Interlocking Screws And/Or Cerclage Revision Of Total Hip Arthroplasty; Acetabular Component Only, With Or Without Autograft Or Allograft Open Treatment Of Proximal Humeral (Surgical Or Anatomical Neck) Fracture, Includes Internal Fixation, When Performed, Open Treatment Of Trimalleolar Ankle Fracture, Includes Internal Fixation, When	Open Treatment Of Bimalleolar Ankle Fracture (Eg, Lateral And Medial Malleoli, Or Lateral And Posterior Malleoli, Or Medial And Posterior Malleoli), Includes Internal Fixation, When Performed Arthrodesis, Posterior Or Posterolateral Technique, Single Level; Lumbar (With 22612 Lateral Transverse Technique, When Performed) Open Treatment Of Distal Fibular Fracture (Lateral Malleolus), Includes Internal Fixation, When Performed Open Treatment Of Tibial Fracture, Proximal (Plateau); Unicondylar, Includes Internal Fixation, When Performed Laminectomy, Facetectomy And Foraminotomy (Unilateral Or Bilateral 63047 With Decompression Of Spinal Cord, Cauda Equina And/Or Nerve Root[S], [Eg, Spinal Or Lateral Recess Stenosis]), Single Vertebral Segment; Lumbar Conversion Of Previous Hip Surgery To Total Hip Arthroplasty, With Or 27132 Without Autograft Or Allograft Revision Of Total Hip Arthroplasty; Femoral Component Only, With Or 27138 Without Allograft Treatment Of Tibial Shaft Fracture (With Or Without Fibular Fracture) By 17759 Intramedullary Implant, With Or Without Interlocking Screws And/Or Cerclage Revision Of Total Hip Arthroplasty; Acetabular Component Only, With Or 27137 Without Autograft Or Allograft Open Treatment Of Proximal Humeral (Surgical Or Anatomical Neck) Fracture, 18615 Includes Internal Fixation, When Performed; 18625 Open Treatment Of Trimalleolar Ankle Fracture, Includes Internal Fixation, When 27822	Open Treatment Of Bimalleolar Ankle Fracture (Eg, Lateral And Medial Malleoli, Or Lateral And Posterior Malleoli, Or Medial And Posterior Malleoli), Includes Internal Fixation, When Performed Arthrodesis, Posterior Or Posterolateral Technique, Single Level; Lumbar (With 22612 593 Lateral Transverse Technique, When Performed) Open Treatment Of Distal Fibular Fracture (Lateral Malleolus), Includes Internal 27792 546 Fixation, When Performed Open Treatment Of Tibial Fracture, Proximal (Plateau); Unicondylar, Includes 27535 439 Internal Fixation, When Performed Laminectomy, Facetectomy And Foraminotomy (Unilateral Or Bilateral 63047 436 With Decompression Of Spinal Cord, Cauda Equina And/Or Nerve Root[S], [Eg, Spinal Or Lateral Recess Stenosis]), Single Vertebral Segment; Lumbar Conversion Of Previous Hip Surgery To Total Hip Arthroplasty, With Or 27132 424 Without Autograft Or Allograft Revision Of Total Hip Arthroplasty; Femoral Component Only, With Or 27138 407 Without Allograft Treatment Of Tibial Shaft Fracture (With Or Without Fibular Fracture) By 27759 393 Intramedullary Implant, With Or Without Interlocking Screws And/Or Cerclage Revision Of Total Hip Arthroplasty; Acetabular Component Only, With Or 27137 371 Without Autograft Or Allograft Open Treatment Of Proximal Humeral (Surgical Or Anatomical Neck) Fracture, 1861 1862 1864 1864 1864 1864 1864 1864 1864 1864

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Lumbar Spine Fusion	Arthrodesis, Posterior Interbody Technique, Including Laminectomy And/Or	22630	292	0.29
	Discectomy To Prepare Interspace (Other Than For Decompression),			
	Single Interspace; Lumbar			
Repair Of Thigh Muscle	Suture Of Quadriceps Or Hamstring Muscle Rupture; Primary	27385	282	0.28
Low Back Disk Surgery	Laminotomy (Hemilaminectomy), With Decompression Of Nerve Root(S), Including	63030	263	0.26
	Partial Facetectomy, Foraminotomy And/Or Excision Of Herniated Intervertebral			
	Disc; 1 Interspace, Lumbar			
Treat Kneecap Fracture	Open Treatment Of Patellar Fracture, With Internal Fixation And/Or	27524	239	0.24
	Partial Or Complete Patellectomy And Soft Tissue Repair			
Remove Spine Lamina	Laminectomy With Exploration And/Or Decompression Of Spinal Cord	63005	196	0.19
1/2 Lmbr	And/Or Cauda Equina, Without Facetectomy, Foraminotomy Or Discectomy			
	(Eg, Spinal Stenosis), 1 Or 2 Vertebral Segments; Lumbar, Except For			
	Spondylolisthesis			
Repair Of Kneecap	Suture Of Infrapatellar Tendon; Primary	27380	189	0.19
Tendon				
Treatment Of Thigh	Open Treatment Of Femoral Fracture, Distal End, Medial Or Lateral Condyle,	27514	187	0.18
Fracture	Includes Internal Fixation, When Performed			
C-Laminoplasty	Laminoplasty, Cervical, With Decompression Of The Spinal Cord, 2 Or	63051	179	0.18
W/Graft/Plate	More Vertebral Segments; With Reconstruction Of The Posterior Bony			
	Elements (Including The Application Of Bridging Bone Graft And			
	Non-Segmental Fixation Devices [Eg, Wire, Suture, Mini-Plates], When			
	Performed)			
Repair Rotator Cuff	Repair Of Ruptured Musculotendinous Cuff (Eg, Rotator Cuff) Open; Chronic	23412	175	0.17
Chronic				
Treat Ulnar Fracture	Open Treatment Of Ulnar Fracture, Proximal End (Eg, Olecranon Or Coronoid	24685	171	0.17
	Process[Es]), Includes Internal Fixation, When Performed			

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Treatment Of Thigh	Open Treatment Of Femoral Shaft Fracture, With Or Without External	27506	171	0.17
Fracture	Fixation, With Insertion Of Intramedullary Implant, With Or Without			
	Cerclage And/Or Locking Screws			
Neck Spine Fuse&Remov	Arthrodesis, Anterior Interbody, Including Disc Space Preparation, Discectomy,	22551	166	0.16
Bel C2	Osteophytectomy And Decompression Of Spinal Cord And/Or Nerve Roots;			
	Cervical			
	Below C2			
Revise Kneecap With	Arthroplasty, Patella; With Prosthesis	27438	162	0.16
Implant				
Arthroscop Rotator Cuff	Arthroscopy, Shoulder, Surgical; With Rotator Cuff Repair	29827	154	0.15
Repr				
Neck Spine Disk Surgery	Discectomy, Anterior, With Decompression Of Spinal Cord And/Or Nerve Root(S),	63075	151	0.15
	Including Osteophytectomy; Cervical, Single Interspace			
Treat Thigh Fracture	Open Treatment Of Greater Trochanteric Fracture, Includes Internal Fixation,	27248	149	0.15
	When Performed			
Removal Of Support	Removal Of Implant; Deep (Eg, Buried Wire, Pin, Screw, Metal Band, Nail,	20680	137	0.13
Implant	Rod Or Plate)			
Treat Humerus Fracture	Open Treatment Of Humeral Shaft Fracture With Plate/Screws, With Or	24515	128	0.13
	Without Cerclage			
Knee	Arthroscopy, Knee, Surgical; Debridement/Shaving Of Articular Cartilage	29877	128	0.13
Arthroscopy/Surgery	(Chondroplasty)			
Reinforce Hip Bones	Prophylactic Treatment (Nailing, Pinning, Plating Or Wiring) With Or	27187	119	0.12
	Without Methylmethacrylate, Femoral Neck And Proximal Femur			
Laminotomy Single	Laminotomy (Hemilaminectomy), With Decompression Of Nerve Root(S), Including	63042	119	0.12
Lumbar	Partial Facetectomy, Foraminotomy And/Or Excision Of Herniated Intervertebral			
	Disc, Reexploration, Single Interspace; Lumbar			
Optx Medial Ankle Fx	Open Treatment Of Medial Malleolus Fracture, Includes Internal Fixation, When	27766	118	0.12
	Performed			

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Neck Spine Fusion	Arthrodesis, Posterior Or Posterolateral Technique, Single Level;	22600	117	0.12
	Cervical Below C2 Segment			
Treat Knee Fracture	Open Treatment Of Tibial Fracture, Proximal (Plateau); Bicondylar, With	27536	117	0.12
	Or Without Internal Fixation			
Neck Spine Fusion	Arthrodesis, Anterior Interbody Technique, Including Minimal Discectomy To	22554	116	0.11
	Prepare Interspace (Other Than For Decompression); Cervical Below C2			
Leg Surgery Procedure	Unlisted Procedure, Femur Or Knee	27599	109	0.11
Remove Knee Joint Lining	Arthrotomy, With Synovectomy, Knee; Anterior Or Posterior	27334	105	0.1
Knee	Arthroscopy, Knee, Surgical; With Meniscectomy (Medial Or Lateral, Including Any	29881	105	0.1
Arthroscopy/Surgery	Meniscal Shaving) Including Debridement/Shaving Of Articular Cartilage			
	(Chondroplasty), Same Or Separate Compartment(S), When Performed			
Treatment Of Thigh	Open Treatment Of Femoral Shaft Fracture With Plate/Screws, With Or	27507	104	0.1
Fracture	Without Cerclage			
Removal Of Elbow Bursa	Excision, Olecranon Bursa	24105	101	0.1
Treat Fx Rad Extra-Articul	Open Treatment Of Distal Radial Extra-Articular Fracture Or Epiphyseal	25607	99	0.1
	Separation, With Internal Fixation			
Treat Lower Leg Fracture	Open Treatment Of Fracture Of Weight Bearing Articular Surface/Portion Of Distal	27828	96	0.09
	Tibia (Eg, Pilon Or Tibial Plafond), With Internal Fixation, When Performed; Of			
	Both Tibia And Fibula			
Revision Of Knee Joint	Arthroplasty, Femoral Condyles Or Tibial Plateau(S), Knee;	27442	92	0.09
Treat Fx Rad Intra-Articul	Open Treatment Of Distal Radial Intra-Articular Fracture Or Epiphyseal	25608	88	0.09
	Separation; With Internal Fixation Of 2 Fragments			
Remove Spine Lamina >2	Laminectomy With Exploration And/Or Decompression Of Spinal Cord	63015	88	0.09
Crvcl	And/Or Cauda Equina, Without Facetectomy, Foraminotomy Or Discectomy			
	(Eg, Spinal Stenosis), More Than 2 Vertebral Segments; Cervical			
Treat Humerus Fracture	Treatment Of Humeral Shaft Fracture, With Insertion Of Intramedullary	24516	83	0.08
	Implant, With Or Without Cerclage And/Or Locking Screws			

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Repair/Graft Of Tibia	Repair Of Nonunion Or Malunion, Tibia; With Iliac Or Other Autograft	27724	80	0.08
nopuli, Grant Criticia	(Includes Obtaining Graft)	2,,2.	00	0.00
Treatment Of Thigh	Open Treatment Of Femoral Supracondylar Or Transcondylar Fracture Without	27511	79	0.08
Fracture	Intercondylar Extension, Includes Internal Fixation, When Performed			
Remove Vert Body	Vertebral Corpectomy (Vertebral Body Resection), Partial Or Complete,	63081	79	0.08
Dcmprn Crvl	Anterior Approach With Decompression Of Spinal Cord And/Or Nerve			
	Root(S); Cervical, Single Segment			
Optx Thigh Fx	Open Treatment Of Femoral Fracture, Proximal End, Head, Includes Internal	27269	77	0.08
	Fixation, When Performed			
Treat Lower Leg Joint	Open Treatment Of Distal Tibiofibular Joint (Syndesmosis) Disruption, Includes	27829	76	0.07
	Internal Fixation, When Performed			
Fusion Of Ankle Joint	Arthrodesis, Ankle, Open	27870	70	0.07
Open				
Reconstruct Ankle Joint	Arthroplasty, Ankle; With Implant (Total Ankle)	27702	68	0.07
Shoulder	Arthroscopy, Shoulder, Surgical; Debridement, Limited	29822	68	0.07
Arthroscopy/Surgery				
Knee	Arthroscopy, Knee, Surgical; Synovectomy, Major, 2 Or More Compartments (Eg,	29876	67	0.07
Arthroscopy/Surgery	Medial Or Lateral)			
Explore/Treat Knee Joint	Arthrotomy, Knee; Including Joint Exploration, Biopsy, Or Removal Of	27331	65	0.06
	Loose Or Foreign Bodies			
Treat Clavicle Fracture	Open Treatment Of Clavicular Fracture, Includes Internal Fixation, When	23515	61	0.06
	Performed			
Knee	Arthroscopically Aided Anterior Cruciate Ligament Repair/Augmentation Or	29888	59	0.06
Arthroscopy/Surgery	Reconstruction			
Repair Rotator Cuff Acute	Repair Of Ruptured Musculotendinous Cuff (Eg, Rotator Cuff) Open; Acute	23410	57	0.06
Lumbar Spine Fusion	Arthrodesis, Combined Posterior Or Posterolateral Technique With Posterior	22633	56	0.06
Combined	Interbody Technique Including Laminectomy And/Or Discectomy Sufficient To			

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	Prepare Interspace (Other Than For Decompression), Single Interspace And			
	Segment; Lumbar			
Fusion Of Knee	Arthrodesis, Knee, Any Technique	27580	52	0.05
Shoulder	Arthroscopy, Shoulder, Surgical; Debridement, Extensive	29823	52	0.05
Arthroscopy/Surgery				
Repair Humerus With	Repair Of Nonunion Or Malunion, Humerus; With Iliac Or Other Autograft	24435	51	0.05
Graft	(Includes Obtaining Graft)			
Removal Of Kneecap	Excision, Prepatellar Bursa	27340	51	0.05
Bursa				
Remove Spine Lamina 1	Laminectomy, Facetectomy And Foraminotomy (Unilateral Or Bilateral	63045	51	0.05
Crvl	With Decompression Of Spinal Cord, Cauda Equina And/Or Nerve Root[S],			
	[Eg, Spinal Or Lateral Recess Stenosis]), Single Vertebral Segment;			
	Cervical			
Reinforce Thigh	Prophylactic Treatment (Nailing, Pinning, Plating, Or Wiring)	27495	50	0.05
	With Or Without Methylmethacrylate, Femur			
Shoulder	Arthroscopy, Shoulder, Surgical; Decompression Of Subacromial Space With Partial	29826	50	0.05
Arthroscopy/Surgery	Acromioplasty, With Coracoacromial Ligament (Ie, Arch) Release, When Performed			
	(List Separately In Addition To Code For Primary Procedure)			
Treat Fx Radial 3+ Frag	Open Treatment Of Distal Radial Intra-Articular Fracture Or Epiphyseal	25609	49	0.05
	Separation; With Internal Fixation Of 3 Or More Fragments			
Revise Kneecap	Arthroplasty, Patella; Without Prosthesis	27437	48	0.05
Repair/Graft Of Thigh	Repair, Nonunion Or Malunion, Femur, Distal To Head And Neck; With Iliac	27472	48	0.05
	Or Other Autogenous Bone Graft (Includes Obtaining Graft)			
Remove Shoulder Bone	Acromioplasty Or Acromionectomy, Partial, With Or Without Coracoacromial	23130	45	0.04
Part	Ligament Release			
Replace Elbow Joint	Arthroplasty, Elbow; With Distal Humerus And Proximal Ulnar Prosthetic	24363	44	0.04
	Replacement (Eg, Total Elbow)			

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Treat Humerus Fracture	Open Treatment Of Humeral Supracondylar Or Transcondylar Fracture, Includes	24545	44	0.04
	Internal Fixation, When Performed; Without Intercondylar Extension			
Knee	Arthroscopy, Knee, Surgical; With Lysis Of Adhesions, With Or Without	29884	43	0.04
Arthroscopy/Surgery	Manipulation (Separate Procedure)			
Revis Reconst Shoulder	Revision Of Total Shoulder Arthroplasty, Including Allograft When	23473	42	0.04
Joint	Performed; Humeral Or Glenoid Component			
Treat Fracture	Open Treatment Of Radial And Ulnar Shaft Fractures, With Internal Fixation, When	25575	42	0.04
Radius/Ulna	Performed; Of Radius And Ulna			
Repair Achilles Tendon	Repair, Primary, Open Or Percutaneous, Ruptured Achilles Tendon;	27650	41	0.04
Repair/Graft Of Thigh	Suture Of Quadriceps Or Hamstring Muscle Rupture; Secondary	27386	40	0.04
Muscle	Reconstruction, Including Fascial Or Tendon Graft			
Treat Humerus Fracture	Open Treatment Of Greater Humeral Tuberosity Fracture, Includes Internal	23630	39	0.04
	Fixation, When Performed			
Revision Of Knee Joint	Arthroplasty, Knee, Tibial Plateau;	27440	39	0.04
Knee	Arthroscopy, Knee, Surgical; Synovectomy, Limited (Eg, Plica Or Shelf	29875	38	0.04
Arthroscopy/Surgery	Resection) (Separate Procedure)			
Removal Of Kneecap	Patellectomy Or Hemipatellectomy	27350	36	0.04
Knee	Arthroscopy, Knee, Surgical; With Meniscectomy (Medial And Lateral, Including	29880	36	0.04
Arthroscopy/Surgery	Any Meniscal Shaving) Including Debridement/Shaving Of Articular Cartilage			
	(Chondroplasty), Same Or Separate Compartment(S), When Performed			
Exploratory Shoulder	Arthrotomy, Acromioclavicular, Sternoclavicular Joint, Including	23044	34	0.03
Surgery	Exploration, Drainage, Or Removal Of Foreign Body			
Revision Of Unstable	Reconstruction Of Dislocating Patella; With Extensor Realignment And/Or	27422	34	0.03
Kneecap	Muscle Advancement Or Release (Eg, Campbell, Goldwaite Type Procedure)			
Realignment Of Knee	Osteotomy, Proximal Tibia, Including Fibular Excision Or Osteotomy	27455	34	0.03
	(Includes Correction Of Genu Varus [Bowleg] Or Genu Valgus			
	[Knock-Knee]); Before Epiphyseal Closure			

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Partial Removal Collar	Claviculectomy; Partial	23120	33	0.03
Bone				
Treat Fx Distal Radial	Percutaneous Skeletal Fixation Of Distal Radial Fracture Or Epiphyseal	25606	33	0.03
	Separation			
Remove Knee Joint Lining	Arthrotomy, With Synovectomy, Knee; Anterior And Posterior Including	27335	33	0.03
	Popliteal Area			
Incision Of Tibia	Osteotomy; Tibia	27705	33	0.03
Treatment Of Tibia	Percutaneous Skeletal Fixation Of Tibial Shaft Fracture (With Or Without	27756	33	0.03
Fracture	Fibular Fracture) (Eg, Pins Or Screws)			
Repair Of Humerus	Repair Of Nonunion Or Malunion, Humerus; Without Graft (Eg, Compression	24430	31	0.03
	Technique)			
Treat Elbow Fracture	Open Treatment Of Periarticular Fracture And/Or Dislocation Of The Elbow	24586	31	0.03
	(Fracture Distal Humerus And Proximal Ulna And/Or Proximal Radius);			
Treat Finger Fracture	Open Treatment Of Phalangeal Shaft Fracture, Proximal Or Middle Phalanx, Finger	26735	31	0.03
Each	Or Thumb, Includes Internal Fixation, When Performed, Each			
Repair/Graft Kneecap	Suture Of Infrapatellar Tendon; Secondary Reconstruction, Including	27381	30	0.03
Tendon	Fascial Or Tendon Graft			
Repair Of Tibia	Repair Of Nonunion Or Malunion, Tibia; Without Graft, (Eg, Compression	27720	29	0.03
	Technique)			
Explore Wound Extremity	Exploration Of Penetrating Wound (Separate Procedure); Extremity	20103	28	0.03
Exploration Of Hip Joint	Arthrotomy, Hip, Including Exploration Or Removal Of Loose Or Foreign	27033	27	0.03
	Body			
Revision Of Knee Joint	Arthroplasty, Knee, Hinge Prosthesis (Eg, Walldius Type)	27445	27	0.03
Repair Of Thigh	Repair, Nonunion Or Malunion, Femur, Distal To Head And Neck; Without	27470	27	0.03
	Graft (Eg, Compression Technique)			
Lat Retinacular Release	Lateral Retinacular Release, Open	27425	26	0.03
Open				

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Revision Of Knee Joint	Arthroplasty, Femoral Condyles Or Tibial Plateau(S), Knee; With	27443	26	0.03
	Debridement And Partial Synovectomy			
Thorax Spine Fusion	Arthrodesis, Posterior Or Posterolateral Technique, Single Level; Thoracic (With	22610	25	0.02
	Lateral Transverse Technique, When Performed)			
Treat Metacarpal	Open Treatment Of Metacarpal Fracture, Single, Includes Internal Fixation, When	26615	25	0.02
Fracture	Performed, Each Bone			
Treatment Of Fibula	Open Treatment Of Proximal Fibula Or Shaft Fracture, Includes Internal Fixation,	27784	25	0.02
Fracture	When Performed			
Repair/Graft Radius Or	Repair Of Nonunion Or Malunion, Radius Or Ulna; With Autograft (Includes	25405	24	0.02
Ulna	Obtaining Graft)			
Treatment Of Thigh	Open Treatment Of Femoral Supracondylar Or Transcondylar Fracture With	27513	24	0.02
Fracture	Intercondylar Extension, Includes Internal Fixation, When Performed			
Treat Elbow Fracture	Open Treatment Of Monteggia Type Of Fracture Dislocation At Elbow (Fracture	24635	23	0.02
	Proximal End Of Ulna With Dislocation Of Radial Head), Includes Internal			
	Fixation, When Performed			
Repair Of Leg Tendon	Repair, Extensor Tendon, Leg; Primary, Without Graft, Each Tendon	27664	23	0.02
Each				
Repair Fibula Nonunion	Repair Of Fibula Nonunion And/Or Malunion With Internal Fixation	27726	23	0.02
Shoulder Surgery	Unlisted Procedure, Shoulder	23929	22	0.02
Procedure				
Fusion Of Foot Bones	Arthrodesis; Subtalar	28725	22	0.02
Shoulder	Arthroscopy, Shoulder, Surgical; Distal Claviculectomy Including Distal	29824	22	0.02
Arthroscopy/Surgery	Articular Surface (Mumford Procedure)			
Arthroscopy Biceps	Arthroscopy, Shoulder, Surgical; Biceps Tenodesis	29828	22	0.02
Tenodesis				
Remove Lamina/Facets	Laminectomy With Removal Of Abnormal Facets And/Or Pars	63012	22	0.02
Lumbar	Inter-Articularis With Decompression Of Cauda Equina And Nerve Roots			
	For Spondylolisthesis, Lumbar (Gill Type Procedure)			

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Reinsert Spinal Fixation	Reinsertion Of Spinal Fixation Device	22849	21	0.02
Excision Of Hip	Capsulectomy Or Capsulotomy, Hip, With Or Without Excision Of	27036	21	0.02
Joint/Muscle	Heterotopic Bone, With Release Of Hip Flexor Muscles (Ie, Gluteus			
	Medius, Gluteus Minimus, Tensor Fascia Latae, Rectus Femoris,			
	Sartorius, Iliopsoas)			
Tibial	Arthroscopically Aided Treatment Of Tibial Fracture, Proximal (Plateau);	29855	21	0.02
Arthroscopy/Surgery	Unicondylar, Includes Internal Fixation, When Performed (Includes Arthroscopy)			
Remove Spine Lamina	Laminectomy With Exploration And/Or Decompression Of Spinal Cord	63001	21	0.02
1/2 Crvl	And/Or Cauda Equina, Without Facetectomy, Foraminotomy Or Discectomy			
	(Eg, Spinal Stenosis), 1 Or 2 Vertebral Segments; Cervical			
Repair Shoulder Capsule	Capsulorrhaphy, Anterior; With Labral Repair (Eg, Bankart Procedure)	23455	20	0.02
Treat Lower Leg Fracture	Open Treatment Of Fracture Of Weight Bearing Articular Surface/Portion Of Distal	27826	20	0.02
	Tibia (Eg, Pilon Or Tibial Plafond), With Internal Fixation, When Performed; Of			
	Fibula Only			
Remove Spine Fixation	Removal Of Posterior Segmental Instrumentation	22852	19	0.02
Device				
Repair Biceps Tendon	Tenodesis Of Long Tendon Of Biceps	23430	19	0.02
Treat Fracture Of Ulna	Open Treatment Of Ulnar Shaft Fracture, Includes Internal Fixation, When	25545	19	0.02
	Performed			
Treat Clavicle Dislocation	Open Treatment Of Acromioclavicular Dislocation, Acute Or Chronic;	23550	18	0.02
Treat Fracture Of Radius	Open Treatment Of Radial Shaft Fracture, Includes Internal Fixation, When	25515	18	0.02
	Performed			
Repair/Graft Femur	Bone Graft, Femoral Head, Neck, Intertrochanteric Or Subtrochanteric	27170	18	0.02
Head/Neck	Area (Includes Obtaining Bone Graft)			
Resect Femur/Knee	Radical Resection Of Tumor, Femur Or Knee	27365	18	0.02
Tumor				
Decompression Of Lower	Decompression Fasciotomy, Leg; Anterior And/Or Lateral, And Posterior	27602	18	0.02
Leg	Compartment(S)			

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Remove Foreign Body	Incision And Removal Of Foreign Body, Subcutaneous Tissues; Complicated	10121	17	0.02
Knee	Arthroscopy, Knee, Surgical; For Removal Of Loose Body Or Foreign Body	29874	17	0.02
Arthroscopy/Surgery	(Eg, Osteochondritis Dissecans Fragmentation, Chondral Fragmentation)			
Remove Spine Lamina	Laminectomy With Exploration And/Or Decompression Of Spinal Cord	63003	17	0.02
1/2 Thrc	And/Or Cauda Equina, Without Facetectomy, Foraminotomy Or Discectomy			
	(Eg, Spinal Stenosis), 1 Or 2 Vertebral Segments; Thoracic			
Neck Spine Disk Surgery	Laminotomy (Hemilaminectomy), With Decompression Of Nerve Root(S), Including	63020	17	0.02
	Partial Facetectomy, Foraminotomy And/Or Excision Of Herniated Intervertebral			
	Disc; 1 Interspace, Cervical			
Muscle-Skin Graft Leg	Muscle, Myocutaneous, Or Fasciocutaneous Flap; Lower Extremity	15738	16	0.02
Resect Thigh/Knee Tum <	Radical Resection Of Tumor (Eg, Sarcoma), Soft Tissue Of Thigh Or Knee Area;	27329	16	0.02
5 Cm	Less			
	Than 5 Cm			
Optx Post Ankle Fx	Open Treatment Of Posterior Malleolus Fracture, Includes Internal Fixation, When	27769	16	0.02
	Performed			
Treat Ankle Dislocation	Open Treatment Of Ankle Dislocation, With Or Without Percutaneous	27848	16	0.02
	Skeletal Fixation; With Repair Or Internal Or External Fixation			
Cervical Laminoplsty 2/>	Laminoplasty, Cervical, With Decompression Of The Spinal Cord, 2 Or More	63050	16	0.02
Seg	Vertebral Segments;			
Iliac Bone Graft	Bone Graft With Microvascular Anastomosis; Iliac Crest	20956	15	0.01
Microvasc				
Treat	Open Treatment Of Shoulder Dislocation, With Fracture Of Greater Humeral	23670	15	0.01
Dislocation/Fracture	Tuberosity, Includes Internal Fixation, When Performed			
Fusion Of Shoulder Joint	Arthrodesis, Glenohumeral Joint;	23800	15	0.01
Repair Arm	Repair, Tendon Or Muscle, Upper Arm Or Elbow, Each Tendon Or Muscle,	24341	15	0.01
Tendon/Muscle	Primary Or Secondary (Excludes Rotator Cuff)			
Exc Thigh/Knee Tum	Excision, Tumor, Soft Tissue Of Thigh Or Knee Area, Subfascial (Eg,	27328	15	0.01
Deep <5Cm	Intramuscular); Less Than 5 Cm			

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Repair Degenerated Kneecap	Anterior Tibial Tubercleplasty (Eg, Maquet Type Procedure)	27418	15	0.01
Realignment Of Knee	Osteotomy, Proximal Tibia, Including Fibular Excision Or Osteotomy (Includes Correction Of Genu Varus [Bowleg] Or Genu Valgus [Knock-Knee]); After Epiphyseal Closure	27457	15	0.01
Repair Of Lower Leg	Repair Of Nonunion Or Malunion, Tibia; By Synostosis, With Fibula, Any Method	27725	15	0.01
Remove Spine Lamina 1 Thrc	Laminectomy, Facetectomy And Foraminotomy (Unilateral Or Bilateral With Decompression Of Spinal Cord, Cauda Equina And/Or Nerve Root[S], [Eg, Spinal Or Lateral Recess Stenosis]), Single Vertebral Segment; Thoracic	63046	15	0.01
Treat Ankle Fracture	Open Treatment Of Talus Fracture, Includes Internal Fixation, When Performed	28445	14	0.01
Insert Spine Fixation Device	Posterior Segmental Instrumentation (Eg, Pedicle Fixation, Dual Rods With Multiple Hooks And Sublaminar Wires); 3 To 6 Vertebral Segments (List Separately In Addition To Code For Primary Procedure)	22842	13	0.01
Revision Of Collar Bone	Osteotomy, Clavicle, With Or Without Internal Fixation; With Bone Graft For Nonunion Or Malunion (Includes Obtaining Graft And/Or Necessary Fixation)	23485	13	0.01
Treat Scapula Fracture	Open Treatment Of Scapular Fracture (Body, Glenoid Or Acromion) Includes Internal Fixation, When Performed	23585	13	0.01
Repair Finger Tendon	Repair, Extensor Tendon, Finger, Primary Or Secondary; Without Free Graft, Each Tendon	26418	13	0.01
Treat Hip Dislocation	Open Treatment Of Hip Dislocation, Traumatic, With Acetabular Wall And Femoral Head Fracture, With Or Without Internal Or External Fixation	27254	13	0.01
Reconstruction Knee	Ligamentous Reconstruction (Augmentation), Knee; Extra-Articular	27427	13	0.01
Repair Of Leg Tendon Each	Repair, Flexor Tendon, Leg; Primary, Without Graft, Each Tendon	27658	13	0.01

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Removal Of Head Of	Resection, Humeral Head	23195	12	0.01
Humerus				
Repair Shoulder Capsule	Capsulorrhaphy, Anterior, Any Type; With Coracoid Process Transfer	23462	12	0.01
Treat Humerus Fracture	Open Treatment Of Humeral Condylar Fracture, Medial Or Lateral, Includes	24579	12	0.01
	Internal Fixation, When Performed			
Treat Finger Fracture	Percutaneous Skeletal Fixation Of Unstable Phalangeal Shaft Fracture,	26727	12	0.01
Each	Proximal Or Middle Phalanx, Finger Or Thumb, With Manipulation, Each			
Incision Of Knee Joint	Capsulotomy, Posterior Capsular Release, Knee	27435	12	0.01
Treatment Of Thigh	Percutaneous Skeletal Fixation Of Femoral Fracture, Distal End, Medial	27509	12	0.01
Fracture	Or Lateral Condyle, Or Supracondylar Or Transcondylar, With Or Without			
	Intercondylar Extension, Or Distal Femoral Epiphyseal Separation			
Reinforce Tibia	Prophylactic Treatment (Nailing, Pinning, Plating Or Wiring) With Or	27745	12	0.01
	Without Methylmethacrylate, Tibia			
Treat/Graft Heel Fracture	Open Treatment Of Calcaneal Fracture, Includes Internal Fixation, When	28420	12	0.01
	Performed; With Primary Iliac Or Other Autogenous Bone Graft (Includes			
	Obtaining			
	Graft)			
Fusion Of Foot Bones	Arthrodesis; Triple	28715	12	0.01
Shoulder	Arthroscopy, Shoulder, Surgical; Synovectomy, Partial	29820	12	0.01
Arthroscopy/Surgery				
Treat	Open Treatment Of Shoulder Dislocation, With Surgical Or Anatomical Neck	23680	11	0.01
Dislocation/Fracture	Fracture, Includes Internal Fixation, When Performed			
Radical Resection Of	Radical Resection Of Capsule, Soft Tissue, And Heterotopic Bone, Elbow,	24149	11	0.01
Elbow	With Contracture Release (Separate Procedure)			
Repair Wrist Joints	Arthroplasty, Interposition, Intercarpal Or Carpometacarpal Joints	25447	11	0.01
Treat Fracture Radius &	Open Treatment Of Radial And Ulnar Shaft Fractures, With Internal Fixation, When	25574	11	0.01
Ulna	Performed; Of Radius Or Ulna			
Reconstruction Knee	Ligamentous Reconstruction (Augmentation), Knee; Intra-Articular (Open)	27428	11	0.01

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Incision Of Thigh	Osteotomy, Femur, Shaft Or Supracondylar; With Fixation	27450	11	0.01
Carpal Tunnel Surgery	Neuroplasty And/Or Transposition; Median Nerve At Carpal Tunnel	64721	11	0.01
Repair Of Ruptured	Reinsertion Of Ruptured Biceps Or Triceps Tendon, Distal, With Or	24342	10	0.01
Tendon	Without Tendon Graft			
Treat Humerus Fracture	Open Treatment Of Humeral Supracondylar Or Transcondylar Fracture, Includes	24546	10	0.01
	Internal Fixation, When Performed; With Intercondylar Extension			
Treat Radius Fracture	Open Treatment Of Radial Head Or Neck Fracture, Includes Internal Fixation Or	24665	10	0.01
	Radial Head Excision, When Performed;			
Decompress Forearm 1	Decompression Fasciotomy, Forearm And/Or Wrist, Flexor Or Extensor	25020	10	0.01
Space	Compartment; Without Debridement Of Nonviable Muscle And/Or Nerve			
Repair Finger/Hand	Repair Or Advancement, Flexor Tendon, In Zone 2 Digital Flexor Tendon Sheath	26356	10	0.01
Tendon	(Eg, No Man'S Land); Primary, Without Free Graft, Each Tendon			
Incision/Fixation Of	Osteotomy, Intertrochanteric Or Subtrochanteric Including Internal Or	27165	10	0.01
Femur	External Fixation And/Or Cast			
Treat Hip Dislocation	Open Treatment Of Hip Dislocation, Traumatic, Without Internal Fixation	27253	10	0.01
Remove Femur Lesion	Excision Or Curettage Of Bone Cyst Or Benign Tumor Of Femur;	27355	10	0.01
Resect Thigh/Knee Tum 5	Radical Resection Of Tumor (Eg, Sarcoma), Soft Tissue Of Thigh Or Knee Area; 5	27364	10	0.01
Cm/>	Cm			
	Or Greater			
Osteochondral Knee	Osteochondral Allograft, Knee, Open	27415	10	0.01
Allograft				
Revision Of Unstable	Reconstruction Of Dislocating Patella; (Eg, Hauser Type Procedure)	27420	10	0.01
Kneecap				
Leg/Ankle Surgery	Unlisted Procedure, Leg Or Ankle	27899	10	0.01
Procedure				
Fusion Of Foot Bones	Arthrodesis, Midtarsal Or Tarsometatarsal, Single Joint	28740	10	0.01
Shoulder	Arthroscopy, Shoulder, Surgical; Capsulorrhaphy	29806	10	0.01
Arthroscopy/Surgery				

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Shoulder	Arthroscopy, Shoulder, Surgical; Repair Of Slap Lesion	29807	10	0.01
Arthroscopy/Surgery				
Elbow	Arthroscopy, Elbow, Surgical; Debridement, Extensive	29838	10	0.01
Arthroscopy/Surgery				
Knee	Arthroscopically Aided Posterior Cruciate Ligament Repair/Augmentation	29889	10	0.01
Arthroscopy/Surgery	Or Reconstruction			
Ankle	Arthroscopy, Ankle (Tibiotalar And Fibulotalar Joints), Surgical; With	29899	10	0.01
Arthroscopy/Surgery	Ankle Arthrodesis			
Remove Spine Lamina >2	Laminectomy With Exploration And/Or Decompression Of Spinal Cord	63016	10	0.01
Thrc	And/Or Cauda Equina, Without Facetectomy, Foraminotomy Or Discectomy			
	(Eg, Spinal Stenosis), More Than 2 Vertebral Segments; Thoracic			
Repair Spinal Fluid	Repair Of Dural/Cerebrospinal Fluid Leak, Not Requiring Laminectomy	63707	10	0.01
Leakage				
Apply Bone Fixation	Application Of A Multiplane (Pins Or Wires In More Than 1 Plane), Unilateral,	20692	9	0.01
Device	External Fixation System (Eg, Ilizarov, Monticelli Type)			
Muscle Transfer	Muscle Transfer, Any Type, Shoulder Or Upper Arm; Single	23395	9	0.01
Shoulder/Arm				
Reinforce Shoulder Bones	Prophylactic Treatment (Nailing, Pinning, Plating Or Wiring) With Or	23491	9	0.01
	Without Methylmethacrylate; Proximal Humerus			
Repair Radius Or Ulna	Repair Of Nonunion Or Malunion, Radius Or Ulna; Without Graft (Eg,	25400	9	0.01
	Compression Technique)			
Incision Of Hip/Thigh	Fasciotomy, Hip Or Thigh, Any Type	27025	9	0.01
Fascia				
Decompression Of Lower	Decompression Fasciotomy, Leg; Anterior And/Or Lateral Compartments Only	27600	9	0.01
Leg				
Revision Of Lower Leg	Lengthening Or Shortening Of Tendon, Leg Or Ankle; Single Tendon	27685	9	0.01
Tendon	(Separate Procedure)			
Repair/Graft Of Tibia	Repair Of Nonunion Or Malunion, Tibia; With Sliding Graft	27722	9	0.01

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Shoulder	Arthroscopy, Shoulder, Surgical; Synovectomy, Complete	29821	9	0.01
Arthroscopy/Surgery				
Treat Shoulder	Open Treatment Of Acute Shoulder Dislocation	23660	8	0.01
Dislocation				
Treat Radius Fracture	Open Treatment Of Radial Head Or Neck Fracture, Includes Internal Fixation Or	24666	8	0.01
	Radial Head Excision, When Performed; With Radial Head Prosthetic Replacement			
Decompress Forearm 1	Decompression Fasciotomy, Forearm And/Or Wrist, Flexor Or Extensor	25023	8	0.01
Space	Compartment; With Debridement Of Nonviable Muscle And/Or Nerve			
Release Palm Contracture	Fasciectomy, Partial Palmar With Release Of Single Digit Including	26123	8	0.01
	Proximal Interphalangeal Joint, With Or Without Z-Plasty, Other Local			
	Tissue Rearrangement, Or Skin Grafting (Includes Obtaining Graft);			
Tendon Excision	Synovectomy, Tendon Sheath, Radical (Tenosynovectomy), Flexor Tendon,	26145	8	0.01
Palm/Finger	Palm And/Or Finger, Each Tendon			
Revise Knuckle With	Arthroplasty, Metacarpophalangeal Joint; With Prosthetic Implant, Each	26531	8	0.01
Implant	Joint			
Treat Finger Dislocation	Open Treatment Of Interphalangeal Joint Dislocation, Includes Internal Fixation,	26785	8	0.01
	When Performed, Single			
Revision/Removal Of	Reconstruction Of Dislocating Patella; With Patellectomy	27424	8	0.01
Kneecap				
Remove Lower Leg Bone	Excision Or Curettage Of Bone Cyst Or Benign Tumor, Tibia Or Fibula;	27635	8	0.01
Lesion				
Remove/Graft Leg Bone	Excision Or Curettage Of Bone Cyst Or Benign Tumor, Tibia Or Fibula;	27638	8	0.01
Lesion	With Allograft			
Repair/Graft Achilles	Repair, Primary, Open Or Percutaneous, Ruptured Achilles Tendon; With	27652	8	0.01
Tendon	Graft (Includes Obtaining Graft)			
Fusion Of Foot Bones	Arthrodesis, Midtarsal Or Tarsometatarsal, Multiple Or Transverse;	28730	8	0.01
	·			

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Hip Arthr0	Arthroscopy, Hip, Surgical; With Debridement/Shaving Of Articular	29862	8	0.01
W/Debridement	Cartilage (Chondroplasty), Abrasion Arthroplasty, And/Or Resection Of Labrum			
Arthroscopy Of Joint	Unlisted Procedure, Arthroscopy	29999	8	0.01
Exploration Of Spinal Fusion	Exploration Of Spinal Fusion	22830	7	0.01
Repair Shoulder Capsule	Capsulorrhaphy, Glenohumeral Joint, Posterior, With Or Without Bone Block	23465	7	0.01
Fusion Of Shoulder Joint	Arthrodesis, Glenohumeral Joint; With Autogenous Graft (Includes Obtaining Graft)	23802	7	0.01
Release Elbow Joint	Arthrotomy Of The Elbow, With Capsular Excision For Capsular Release (Separate Procedure)	24006	7	0.01
Treat Humerus Fracture	Open Treatment Of Humeral Epicondylar Fracture, Medial Or Lateral, Includes Internal Fixation, When Performed	24575	7	0.01
Removal Of Wrist Bones	Carpectomy; All Bones Of Proximal Row	25215	7	0.01
Release Palm/Finger Tendon	Tenolysis, Flexor Tendon; Palm Or Finger, Each Tendon	26440	7	0.01
Treat Hip Dislocation	Open Treatment Of Spontaneous Hip Dislocation (Developmental, Including Congenital Or Pathological), Replacement Of Femoral Head In Acetabulum (Including Tenotomy, Etc);	27258	7	0.01
Repair Of Knee Ligament	Repair, Primary, Torn Ligament And/Or Capsule, Knee; Collateral	27405	7	0.01
Repair Of Knee Ligaments	Repair, Primary, Torn Ligament And/Or Capsule, Knee; Collateral And Cruciate Ligaments	27409	7	0.01
Exploration Of Ankle Joint	Arthrotomy, Posterior Capsular Release, Ankle, With Or Without Achilles Tendon Lengthening	27612	7	0.01
Revise Lower Leg Tendon	Transfer Or Transplant Of Single Tendon (With Muscle Redirection Or Rerouting); Deep (Eg, Anterior Tibial Or Posterior Tibial Through	27691	7	0.01

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	Interosseous Space, Flexor Digitorum Longus, Flexor Hallucis Longus, Or			
	Peroneal Tendon To Midfoot Or Hindfoot)			
Incision Of Heel Bone	Osteotomy; Calcaneus (Eg, Dwyer Or Chambers Type Procedure), With Or	28300	7	0.01
	Without Internal Fixation			
Treat Heel Fracture	Open Treatment Of Calcaneal Fracture, Includes Internal Fixation, When	28415	7	0.01
	Performed;			
Ankle	Arthroscopy, Ankle (Tibiotalar And Fibulotalar Joints), Surgical;	29898	7	0.01
Arthroscopy/Surgery	Debridement, Extensive			
Decompress Spinal Cord	Transpedicular Approach With Decompression Of Spinal Cord, Equina	63056	7	0.01
Lmbr	And/Or Nerve Root(S) (Eg, Herniated Intervertebral Disc), Single			
	Segment; Lumbar (Including Transfacet, Or Lateral Extraforaminal			
	Approach) (Eg, Far Lateral Herniated Intervertebral Disc)			
Repair Shoulder Capsule	Capsulorrhaphy, Anterior, Any Type; With Bone Block	23460	6	0.01
Reinforce Humerus	Prophylactic Treatment (Nailing, Pinning, Plating Or Wiring), With Or	24498	6	0.01
	Without Methylmethacrylate, Humeral Shaft			
Treat Elbow Fracture	Open Treatment Of Periarticular Fracture And/Or Dislocation Of The Elbow	24587	6	0.01
	(Fracture Distal Humerus And Proximal Ulna And/Or Proximal Radius);			
	With Implant Arthroplasty			
Transplant Forearm	Tendon Transplantation Or Transfer, Flexor Or Extensor, Forearm And/Or	25310	6	0.01
Tendon	Wrist, Single; Each Tendon			
Repair Hand Tendon	Repair, Extensor Tendon, Hand, Primary Or Secondary; Without Free Graft,	26410	6	0.01
	Each Tendon			
Remove Hip Bone Les	Excision Of Bone Cyst Or Benign Tumor, Wing Of Ilium, Symphysis Pubis, Or	27066	6	0.01
Deep	Greater Trochanter Of Femur; Deep (Subfascial), Includes Autograft, When			
	Performed			
Remove Hip Foreign Body	Removal Of Foreign Body, Pelvis Or Hip; Deep (Subfascial Or	27087	6	0.01
	Intramuscular)			

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Treat Hip Fracture(S)	Open Treatment Of Acetabular Fracture(S) Involving Anterior Or Posterior	27227	6	0.01
	(One) Column, Or A Fracture Running Transversely Across The Acetabulum,			
	With Internal Fixation			
Treat Hip Fracture(S)	Open Treatment Of Acetabular Fracture(S) Involving Anterior And	27228	6	0.01
	Posterior (Two) Columns, Includes T-Fracture And Both Column Fracture			
	With Complete Articular Detachment, Or Single Column Or Transverse			
	Fracture With Associated Acetabular Wall Fracture, With Internal			
	Fixation			
Remove Femur	Excision Or Curettage Of Bone Cyst Or Benign Tumor Of Femur; With	27356	6	0.01
Lesion/Graft	Allograft			
Treat Knee Fracture	Open Treatment Of Intercondylar Spine(S) And/Or Tuberosity Fracture(S) Of The	27540	6	0.01
	Knee, Includes Internal Fixation, When Performed			
Resect Leg/Ankle Tum 5	Radical Resection Of Tumor (Eg, Sarcoma), Soft Tissue Of Leg Or Ankle Area; 5 Cm	27616	6	0.01
Cm/>	Or			
	Greater			
Incision Of Tibia & Fibula	Osteotomy; Tibia And Fibula	27709	6	0.01
Fusion Of Foot Bones	Arthrodesis; Pantalar	28705	6	0.01
Shoulder	Arthroscopy, Shoulder, Surgical; With Lysis And Resection Of Adhesions,	29825	6	0.01
Arthroscopy/Surgery	With Or Without Manipulation			
Knee	Arthroscopy, Knee, Surgical; With Lateral Release	29873	6	0.01
Arthroscopy/Surgery				
Laminotomy Single	Laminotomy (Hemilaminectomy), With Decompression Of Nerve Root(S), Including	63040	6	0.01
Cervical	Partial Facetectomy, Foraminotomy And/Or Excision Of Herniated Intervertebral			
	Disc, Reexploration, Single Interspace; Cervical			
Remove Vert Body	Vertebral Corpectomy (Vertebral Body Resection), Partial Or Complete,	63085	6	0.01
Dcmprn Thrc	Transthoracic Approach With Decompression Of Spinal Cord And/Or Nerve			
	Root(S); Thoracic, Single Segment			

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Repair Spinal Fluid	Repair Of Dural/Cerebrospinal Fluid Leak Or Pseudomeningocele, With	63709	6	0.01
Leakage	Laminectomy			

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Table A3: List of subsequent surgery CPT codes

CPT Code	Description
27487	REVISION OF TOTAL KNEE ARTHROPLASTY, WITH OR WITHOUT ALLOGRAFT; FEMORAL AND
	ENTIRE TIBIAL COMPONENT
27570	MANIPULATION OF KNEE JOINT UNDER GENERAL ANESTHESIA (INCLUDES APPLICATION OF
	TRACTION OR OTHER FIXATION DEVICES)
27486	REVISION OF TOTAL KNEE ARTHROPLASTY, WITH OR WITHOUT ALLOGRAFT; 1 COMPONENT
20680	REMOVAL OF IMPLANT; DEEP (EG, BURIED WIRE, PIN, SCREW, METAL BAND, NAIL, ROD OR PLATE)
27488	REMOVAL OF PROSTHESIS, INCLUDING TOTAL KNEE PROSTHESIS, METHYLMETHACRYLATE WITH OR WITHOUT INSERTION OF SPACER, KNEE
27134	REVISION OF TOTAL HIP ARTHROPLASTY; BOTH COMPONENTS, WITH OR WITHOUT AUTOGRAFT
27134	OR ALLOGRAFT
27310	ARTHROTOMY, KNEE, WITH EXPLORATION, DRAINAGE, OR REMOVAL OF FOREIGN BODY (EG, INFECTION)
11042	DEBRIDEMENT, SUBCUTANEOUS TISSUE (INCLUDES EPIDERMIS AND DERMIS, IF PERFORMED); FIRST 20 SQ CM OR LESS
27301	INCISION AND DRAINAGE, DEEP ABSCESS, BURSA, OR HEMATOMA, THIGH OR KNEE REGION
11044	DEBRIDEMENT, BONE (INCLUDES EPIDERMIS, DERMIS, SUBCUTANEOUS TISSUE, MUSCLE AND/OR FASCIA, IF PERFORMED); FIRST 20 SQ CM OR LESS
27590	AMPUTATION, THIGH, THROUGH FEMUR, ANY LEVEL;
27138	REVISION OF TOTAL HIP ARTHROPLASTY; FEMORAL COMPONENT ONLY, WITH OR WITHOUT ALLOGRAFT
11043	DEBRIDEMENT, MUSCLE AND/OR FASCIA (INCLUDES EPIDERMIS, DERMIS, AND SUBCUTANEOUS
10100	TISSUE, IF PERFORMED); FIRST 20 SQ CM OR LESS
10180	INCISION AND DRAINAGE, COMPLEX, POSTOPERATIVE WOUND INFECTION
27880	AMPUTATION, LEG, THROUGH TIBIA AND FIBULA;

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27266	CLOSED TREATMENT OF POST HIP ARTHROPLASTY DISLOCATION; REQUIRING REGIONAL OR
	GENERAL ANESTHESIA
27091	REMOVAL OF HIP PROSTHESIS; COMPLICATED, INCLUDING TOTAL HIP PROSTHESIS,
	METHYLMETHACRYLATE WITH OR WITHOUT INSERTION OF SPACER
27137	REVISION OF TOTAL HIP ARTHROPLASTY; ACETABULAR COMPONENT ONLY, WITH OR WITHOUT
10170	AUTOGRAFT OR ALLOGRAFT
13160	SECONDARY CLOSURE OF SURGICAL WOUND OR DEHISCENCE, EXTENSIVE OR COMPLICATED
26990	INCISION AND DRAINAGE, PELVIS OR HIP JOINT AREA; DEEP ABSCESS OR HEMATOMA
20610	ARTHROCENTESIS, ASPIRATION AND/OR INJECTION, MAJOR JOINT OR BURSA (EG, SHOULDER, HIP, KNEE, SUBACROMIAL BURSA); WITHOUT ULTRASOUND GUIDANCE
27132	CONVERSION OF PREVIOUS HIP SURGERY TO TOTAL HIP ARTHROPLASTY, WITH OR WITHOUT AUTOGRAFT OR ALLOGRAFT
29871	ARTHROSCOPY, KNEE, SURGICAL; FOR INFECTION, LAVAGE AND DRAINAGE
10140	INCISION AND DRAINAGE OF HEMATOMA, SEROMA OR FLUID COLLECTION
29884	ARTHROSCOPY, KNEE, SURGICAL; WITH LYSIS OF ADHESIONS, WITH OR WITHOUT
	MANIPULATION (SEPARATE PROCEDURE)
27886	AMPUTATION, LEG, THROUGH TIBIA AND FIBULA; RE-AMPUTATION
20670	REMOVAL OF IMPLANT; SUPERFICIAL (EG, BURIED WIRE, PIN OR ROD) (SEPARATE PROCEDURE)
26951	AMPUTATION, FINGER OR THUMB, PRIMARY OR SECONDARY, ANY JOINT OR PHALANX, SINGLE,
	INCLUDING NEURECTOMIES; WITH DIRECT CLOSURE
27580	ARTHRODESIS, KNEE, ANY TECHNIQUE
27030	ARTHROTOMY, HIP, WITH DRAINAGE (EG, INFECTION)
27334	ARTHROTOMY, WITH SYNOVECTOMY, KNEE; ANTERIOR OR POSTERIOR
27870	ARTHRODESIS, ANKLE, OPEN
27596	AMPUTATION, THIGH, THROUGH FEMUR, ANY LEVEL; RE-AMPUTATION
27090	REMOVAL OF HIP PROSTHESIS; (SEPARATE PROCEDURE)
10060	INCISION AND DRAINAGE OF ABSCESS (EG, CARBUNCLE, SUPPURATIVE HIDRADENITIS, CUTANEOUS OR SUBCUTANEOUS ABSCESS, CYST, FURUNCLE, OR PARONYCHIA); SIMPLE OR SINGLE

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23474	REVISION OF TOTAL SHOULDER ARTHROPLASTY, INCLUDING ALLOGRAFT WHEN PERFORMED; HUMERAL AND GLENOID COMPONENT
24105	EXCISION, OLECRANON BURSA
23655	CLOSED TREATMENT OF SHOULDER DISLOCATION, WITH MANIPULATION; REQUIRING ANESTHESIA
27331	ARTHROTOMY, KNEE; INCLUDING JOINT EXPLORATION, BIOPSY, OR REMOVAL OF LOOSE OR FOREIGN BODIES
23040	ARTHROTOMY, GLENOHUMERAL JOINT, INCLUDING EXPLORATION, DRAINAGE, OR REMOVAL OF FOREIGN BODY
27122	ACETABULOPLASTY; RESECTION, FEMORAL HEAD (EG, GIRDLESTONE PROCEDURE)
27884	AMPUTATION, LEG, THROUGH TIBIA AND FIBULA; SECONDARY CLOSURE OR SCAR REVISION
23473	REVISION OF TOTAL SHOULDER ARTHROPLASTY, INCLUDING ALLOGRAFT WHEN PERFORMED; HUMERAL OR GLENOID COMPONENT
11000	DEBRIDEMENT OF EXTENSIVE ECZEMATOUS OR INFECTED SKIN; UP TO 10% OF BODY SURFACE
12020	TREATMENT OF SUPERFICIAL WOUND DEHISCENCE; SIMPLE CLOSURE
97597	DEBRIDEMENT (EG, HIGH PRESSURE WATERJET WITH/WITHOUT SUCTION, SHARP SELECTIVE DEBRIDEMENT WITH SCISSORS, SCALPEL AND FORCEPS), OPEN WOUND, (EG, FIBRIN, DEVITALIZED EPIDERMIS AND/OR DERMIS, EXUDATE, DEBRIS, BIOFILM), INCLUDING TOPICAL APPLICATION(S), WOUND ASSESSMENT, USE OF A WHIRLPOOL, WHEN PERFORMED AND INSTRUCTION(S) FOR ONGOING CARE, PER SESSION, TOTAL WOUND(S) SURFACE AREA; FIRST 20 SQ CM OR LESS
10061	INCISION AND DRAINAGE OF ABSCESS (EG, CARBUNCLE, SUPPURATIVE HIDRADENITIS, CUTANEOUS OR SUBCUTANEOUS ABSCESS, CYST, FURUNCLE, OR PARONYCHIA); COMPLICATED OR MULTIPLE
27603	INCISION AND DRAINAGE, LEG OR ANKLE; DEEP ABSCESS OR HEMATOMA
23030	INCISION AND DRAINAGE, SHOULDER AREA; DEEP ABSCESS OR HEMATOMA
23332	REMOVAL OF FOREIGN BODY, SHOULDER; COMPLICATED (EG, TOTAL SHOULDER)
26910	AMPUTATION, METACARPAL, WITH FINGER OR THUMB (RAY AMPUTATION), SINGLE, WITH OR WITHOUT INTEROSSEOUS TRANSFER

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20245	BIOPSY, BONE, OPEN; DEEP (EG, HUMERAL SHAFT, ISCHIUM, FEMORAL SHAFT)
29874	ARTHROSCOPY, KNEE, SURGICAL; FOR REMOVAL OF LOOSE BODY OR FOREIGN BODY (EG, OSTEOCHONDRITIS DISSECANS FRAGMENTATION, CHONDRAL FRAGMENTATION)
27252	CLOSED TREATMENT OF HIP DISLOCATION, TRAUMATIC; REQUIRING ANESTHESIA
23700	MANIPULATION UNDER ANESTHESIA, SHOULDER JOINT, INCLUDING APPLICATION OF FIXATION APPARATUS (DISLOCATION EXCLUDED)
27335	ARTHROTOMY, WITH SYNOVECTOMY, KNEE; ANTERIOR AND POSTERIOR INCLUDING POPLITEAL AREA
27303	INCISION, DEEP, WITH OPENING OF BONE CORTEX, FEMUR OR KNEE (EG, OSTEOMYELITIS OR BONE ABSCESS)
27607	INCISION (EG, OSTEOMYELITIS OR BONE ABSCESS), LEG OR ANKLE
27724	REPAIR OF NONUNION OR MALUNION, TIBIA; WITH ILIAC OR OTHER AUTOGRAFT (INCLUDES OBTAINING GRAFT)
28810	AMPUTATION, METATARSAL, WITH TOE, SINGLE
27610	ARTHROTOMY, ANKLE, INCLUDING EXPLORATION, DRAINAGE, OR REMOVAL OF FOREIGN BODY
28825	AMPUTATION, TOE; INTERPHALANGEAL JOINT
27881	AMPUTATION, LEG, THROUGH TIBIA AND FIBULA; WITH IMMEDIATE FITTING TECHNIQUE INCLUDING APPLICATION OF FIRST CAST
28820	AMPUTATION, TOE; METATARSOPHALANGEAL JOINT
22015	INCISION AND DRAINAGE, OPEN, OF DEEP ABSCESS (SUBFASCIAL), POSTERIOR SPINE; LUMBAR, SACRAL, OR LUMBOSACRAL
27882	AMPUTATION, LEG, THROUGH TIBIA AND FIBULA; OPEN, CIRCULAR (GUILLOTINE)
11040	DEBRIDEMENT; SKIN, PARTIAL THICKNESS
27360	PARTIAL EXCISION (CRATERIZATION, SAUCERIZATION, OR DIAPHYSECTOMY) BONE, FEMUR, PROXIMAL TIBIA AND/OR FIBULA (EG, OSTEOMYELITIS OR BONE ABSCESS)
27295	DISARTICULATION OF HIP
28805	AMPUTATION, FOOT; TRANSMETATARSAL
97605	NEGATIVE PRESSURE WOUND THERAPY (EG, VACUUM ASSISTED DRAINAGE COLLECTION), UTILIZING DURABLE MEDICAL EQUIPMENT (DME), INCLUDING TOPICAL APPLICATION(S),

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	WOUND ASSESSMENT, AND INSTRUCTION(S) FOR ONGOING CARE, PER SESSION; TOTAL WOUND(S) SURFACE AREA LESS THAN OR EQUAL TO 50 SQUARE CENTIMETERS
10120	INCISION AND REMOVAL OF FOREIGN BODY, SUBCUTANEOUS TISSUES; SIMPLE
23044	ARTHROTOMY, ACROMIOCLAVICULAR, STERNOCLAVICULAR JOINT, INCLUDING EXPLORATION, DRAINAGE, OR REMOVAL OF FOREIGN BODY
26020	DRAINAGE OF TENDON SHEATH, DIGIT AND/OR PALM, EACH
29825	ARTHROSCOPY, SHOULDER, SURGICAL; WITH LYSIS AND RESECTION OF ADHESIONS, WITH OR WITHOUT MANIPULATION
27033	ARTHROTOMY, HIP, INCLUDING EXPLORATION OR REMOVAL OF LOOSE OR FOREIGN BODY
27592	AMPUTATION, THIGH, THROUGH FEMUR, ANY LEVEL; OPEN, CIRCULAR (GUILLOTINE)
27594	AMPUTATION, THIGH, THROUGH FEMUR, ANY LEVEL; SECONDARY CLOSURE OR SCAR REVISION
27704	REMOVAL OF ANKLE IMPLANT
24000	ARTHROTOMY, ELBOW, INCLUDING EXPLORATION, DRAINAGE, OR REMOVAL OF FOREIGN BODY
27552	CLOSED TREATMENT OF KNEE DISLOCATION; REQUIRING ANESTHESIA
23930	INCISION AND DRAINAGE, UPPER ARM OR ELBOW AREA; DEEP ABSCESS OR HEMATOMA
27372	REMOVAL OF FOREIGN BODY, DEEP, THIGH REGION OR KNEE AREA
27640	PARTIAL EXCISION (CRATERIZATION, SAUCERIZATION, OR DIAPHYSECTOMY), BONE (EG, OSTEOMYELITIS); TIBIA
11041	DEBRIDEMENT; SKIN, FULL THICKNESS
27265	CLOSED TREATMENT OF POST HIP ARTHROPLASTY DISLOCATION; WITHOUT ANESTHESIA
27275	MANIPULATION, HIP JOINT, REQUIRING GENERAL ANESTHESIA
10121	INCISION AND REMOVAL OF FOREIGN BODY, SUBCUTANEOUS TISSUES; COMPLICATED
26991	INCISION AND DRAINAGE, PELVIS OR HIP JOINT AREA; INFECTED BURSA
24160	REMOVAL OF PROSTHESIS, INCLUDES DEBRIDEMENT AND SYNOVECTOMY WHEN PERFORMED; HUMERAL AND ULNAR COMPONENTS
27598	DISARTICULATION AT KNEE
23107	ARTHROTOMY, GLENOHUMERAL JOINT, WITH JOINT EXPLORATION, WITH OR WITHOUT REMOVAL OF LOOSE OR FOREIGN BODY

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23335	REMOVAL OF PROSTHESIS, INCLUDES DEBRIDEMENT AND SYNOVECTOMY WHEN PERFORMED; HUMERAL AND GLENOID COMPONENTS (EG, TOTAL SHOULDER)
24101	ARTHROTOMY, ELBOW; WITH JOINT EXPLORATION, WITH OR WITHOUT BIOPSY, WITH OR WITHOUT REMOVAL OF LOOSE OR FOREIGN BODY
25028	INCISION AND DRAINAGE, FOREARM AND/OR WRIST; DEEP ABSCESS OR HEMATOMA
27087	REMOVAL OF FOREIGN BODY, PELVIS OR HIP; DEEP (SUBFASCIAL OR INTRAMUSCULAR)
27703	ARTHROPLASTY, ANKLE; REVISION, TOTAL ANKLE
25449	REVISION OF ARTHROPLASTY, INCLUDING REMOVAL OF IMPLANT, WRIST JOINT
22861	REVISION INCLUDING REPLACEMENT OF TOTAL DISC ARTHROPLASTY (ARTIFICIAL DISC), ANTERIOR APPROACH, SINGLE INTERSPACE; CERVICAL

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Table A4: List of variables

Risk Analysis Index

^{*} ASA: American Society of Anesthesiologists