

Online supplement**What are the Costs of Cervical Radiculopathy Prior to Surgical Treatment?****Cover title:** Non-operative Costs Prior to ACDF**Key-words:** Anterior cervical discectomy and fusion; cervical radiculopathy; non-operative management; diagnosis; Humana claims database; longitudinal registry; ACDF; resource utilization; healthcare economics; costs; PearlDiver**Study funding:** None**Conflicts of Interests/Disclosures:** None

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Table S1. Coding Definitions (ICD-9-CM codes)			
GROUP	CATEGORY	CODES	NOTES/CODING RULES
Procedure code	Anterior Cervical Discectomy and Fusion (ACDF)	22551	<i>CPT code</i>
Diagnosis codes	Cervical radiculopathy	721.0, 722.0, 722.4, 722.91, 723.0, 723.1, 723.4	<i>ICD-9 Diagnosis code</i>
Non-operative diagnostic tests/procedures	X-Ray	72020, 72040, 72050, 72052	<i>CPT codes</i>
	CT	72126, 72125, 61065, 62310	<i>CPT codes</i>
	MRI	72141, 72142, 72156	<i>CPT codes</i>
	EMG NCS	95860, 95861, 95863, 95864, 95870, 95872, 95900, 95903, 95904, 95925	<i>CPT codes</i>
Non-operative treatments/interventions	Physical Therapy	97110, 97140, 97010, 97014, 97112, 97001, 97530, 97002, 97032, 97035, 97116, 97012, 97535, 97113, 97124, 97033, 97003, 98960, 97139, 97750, 97004, 95831, 90901, 97799	<i>CPT codes</i>
	Chiropractic	98940, 98941, 98942	<i>CPT codes</i>
	Bracing	22310, L0120, L0130, L0140, L0150, L0160, L0170, L0172, L0174	<i>CPT codes</i>
	Injections	64633, 64479, 64490, 62310	<i>CPT codes</i>
	Medications: Gabapentin, muscle relaxants, narcotic, tramadol, NSAIDs		

Table S2. List of narcotic prescription drugs queried in the Humana claims database	
Dilaudid	Hydrocodone-Acetaminophen
Dilaudid-5	Vicodin
Dilaudid-HP	Vicodin ES
Hydromorphone HCL Dosette	Vicodin HP
Hydromorphone HCL ER	Norco
Percoset	Fentanyl
Percodan	Fentanyl citrate
Oxycodone/Acetaminophen	Fentanyl citrate oral TRA
Oxycodone/Apap	Duragesic
Oxycodone/Aspirin	Methadone HCL
Oxycodone/Ibuprofen	Methadone HCL Diskets
Oxycodone HCL	Methadone HCL Intensol
Oxycodone HCL CR	Methadose
Oxycodone HCL ER	Methadose sugar free
Oxycodone APAP	Morphine sulphate
Oxycontin	Morphine sulphate CR
Hydrocodone/Acetaminophen	Morphine sulphate ER
Hydrocodone/Ibuprofen	MS CONTIN

Table S3. List of non-steroid anti-inflammatory drugs (NSAID) queried in the Humana claims database	
Celebrex	Indocin SR
Diclofenac potassium	Ketoprofen
Diclofenac sodium	Ketoprofen ER
Diclofenac sodium/Misopro	Ketoprofen Ultra Microniz
Diclofenac sodium DR	Ketorolac Tromethamine
Diclofenac sodium EC	Toradol Oral
Diclofenac sodium ER	Mefenamic Acid
Diclofenac sodium XR	Ponstel
Cataflam	Meloxicam
Voltaren	Mobic
Arthrotec 50	Nabumetone
Arthrotec 75	Relafen SB
Diflunisal	Naproxen Sodium
Lodine	CVS Naproxen Sodium
Etodolac	Naproxen
Etodolac CR	Naproxen DR
Etodolac ER	Naproxen Sodium
Fenoprofen calcium	QC Naproxen Sodium
Ansaid	RA Naproxen Sodium
CVS Ibuprofen	Oxaprozin
Cvs Ibuprofen IB	Daypro
EQL Ibuprofen	Piroxicam
GNP Ibuprofen	Feldene
Ibuprofen	Sulindac
RA Ibuprofen	Clinoril
SB Ibuprofen	Tolmetin Sodium
SM Ibuprofen	Cambia
TGT Ibuprofen	Flector
Motrin	Pennsaid

Motrin IB	Solaraze
Indomethacin	Zipsor
Indomethacin CR	Zorvolex
Indomethacin ER	Advil
Indocin	Sprix

Table S4. List of prescription drugs [Tramadol, Gabapentin and muscle relaxants] queried in the Humana claims database

Tramadol	Ultram
	Ultram ER
	Tramadol HCl
	Tramadol HCl ER
	Tramadol Hydrochloride/AC
	Conzip
Gabapentin	Gabapentin
	Lyrica
Muscle relaxants	Baclofen
	Flexeril
	Hydroxyzine HCl
	Hydroxizine Pamoate