

2017.1 Procedures Criteria

PATIENT:	Name	DOB	ID#	GROUP#	
	Facility		Service Date		
PROVIDER:	Name		Fax#	Phone#	
	Signature		Date	NPI/ID#	
TOD 10					
ICD-10:					
CPT®:					
Subset: Ver	tebroplasty or Kyphoplasty ^(1, 2, 3, 4)				
-	Service: Vertebroplasty				
Age: ⁽⁵⁾ Age	≥ 18				
INSTRUCTION	ONS: Choose one of the following options	and continue to	the appropriate section		
□10. Malig	gnancy related compression fracture ⁽⁶⁾				
□20. Oste	oporotic vertebral compression fracture ⁽⁷⁾				
\square 30. Vertebral hemangioma ^(8, 9)					
	-				
□ 10 Malia	nancy related compression fracture(6)				
	ose all that apply:				
	A) Back pain interferes with ADLs				
	B) No neurologic deficits ⁽¹⁰⁾				
	C) Compression fracture by imaging				
	O) Other clinical information (add comment	:)			
If the number of options selected is 3 and option D not selected, then go to question 2				2	
• 1	No other options lead to the requested serv	vice			
2 Chor	ose all that apply:(11, 12)				
	A) Malignancy by biopsy				
	3) Evidence of malignancy by history				
		logy roport			
	C) Evidence of malignancy by current radio				
	D) Other clinical information (add comment				
• I	f 1 or more options A, B or C selected and	option D not se	elected, then go to questio	n 3	
• 1	No other options lead to the requested serv	vice			
3. Choo	ose all that apply:(13)				

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] 10.	Malignancy related compression fracture (Continued)
	☐ A) No septicemia
	☐ B) No active osteomyelitis of the target vertebra
	☐ C) No coagulopathy or coagulopathy treated
	☐ D) No known allergy to bone cement or opacification agent
	☐ E) Other clinical information (add comment)
	• If the number of options selected is 4 and option E not selected, then the rule is satisfied; you may stop here (Outpatient)
	No other options lead to the requested service
20.	Osteoporotic vertebral compression fracture ⁽⁷⁾
1.	Choose all that apply:
	☐ A) Osteoporosis by history
	☐ B) Back pain interferes with ADLs
	\square C) No neurologic deficits $^{(10)}$
	☐ D) Osteoporotic compression fracture by imaging
	☐ E) Other clinical information (add comment)
	If the number of options selected is 4 and option E not selected, then go to question 2
	No other options lead to the requested service
,	
2.	Treatment within last year, Choose all that apply: (14)
	 A) NSAIDs or acetaminophen ≥ 3 weeks⁽¹⁵⁾
	\Box B) Back brace ≥ 4 weeks or back brace contraindicated or not tolerated ⁽¹⁶⁾
	☐ C) Activity modification ≥ 6 weeks ⁽¹⁷⁾
	D) Other clinical information (add comment)
	If the number of options selected is 3 and option D not selected, then go to question 3
	No other options lead to the requested service
,	
3.	Continued pain after treatment
	☐ Yes
	□ No
	If option Yes selected, then go to question 4
	No other options lead to the requested service
,	(12)
4.	Choose all that apply: ⁽¹³⁾



□ 20.	. Osteoporotic vertebral compression fracture <i>(Continued)</i>
	☐ A) No septicemia
	☐ B) No active osteomyelitis of the target vertebra
	☐ C) No coagulopathy or coagulopathy treated
	☐ D) No known allergy to bone cement or opacification agent
	☐ E) Other clinical information (add comment)
	• If the number of options selected is 4 and option E not selected, then the rule is satisfied; you may stop here (Outpatient)
	No other options lead to the requested service
	The other options read to the requested service
□ 30.	Vertebral hemangioma ^(8, 9)
1.	Choose all that apply:
	☐ A) Back pain interferes with ADLs
	☐ B) No neurologic deficits ⁽¹⁰⁾
	\square C) Pathologic fracture by imaging ⁽¹⁸⁾
	☐ D) Other clinical information (add comment)
	If the number of options selected is 3 and option D not selected, then go to question 2
	No other options lead to the requested service
2	Treatment within last year, Choose all that apply:
۷.	 A) NSAIDs or acetaminophen ≥ 3 weeks⁽¹⁵⁾
	 B) Back brace ≥ 4 weeks OR back brace contraindicated or not tolerated⁽¹⁶⁾ C) Astrictive readification > 6 weeks (17)
	☐ C) Activity modification ≥ 6 weeks ⁽¹⁷⁾
	☐ D) Other clinical information (add comment)
	• If the number of options selected is 3 and option D not selected, then go to question 3
	No other options lead to the requested service
3.	Continued pain after treatment
	☐ Yes
	□ No
	If option Yes selected, then go to question 4
	No other options lead to the requested service
4	Choose all that apply: ⁽¹³⁾
••	☐ A) No septicemia
	☐ B) No active osteomyelitis of the target vertebra
	☐ C) No coagulopathy or coagulopathy treated
	□ D) No known allergy to bone cement or opacification agent
	E) Other clinical information (add comment)
	L) Other Gillical Illiothlation (add collinelic)



30. Vertebral hemangioma	(Continued	
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- If the number of options selected is 4 and option E not selected, then the rule is satisfied; you may stop here (Outpatient)
- No other options lead to the requested service



Notes

(1)

I/O Setting: Outpatient

(2)

These criteria cover vertebroplasty and kyphoplasty in either the thoracic or lumbar spine.

(3)

Vertebroplasty is a percutaneous technique performed under fluoroscopic or CT guidance that involves the injection of polymethylmethacrylate cement into a collapsed vertebral body. It is performed for pain relief and to stabilize the fracture. Kyphoplasty, a modification of vertebroplasty, involves the insertion of an inflatable balloon within the vertebral body to expand the compressed vertebrae prior to cement injection. Kyphoplasty has been shown to restore vertebral body height and aid in the correction of kyphotic deformity that results from vertebral collapse (Kim et al., J Spinal Disord Tech 2012, 25: 338-44).

(4)

InterQual® Procedures criteria are derived from the systematic, continuous review and critical appraisal of the most current evidence-based literature and include input from our independent panel of clinical experts. To generate the most appropriate recommendations, a comprehensive literature review of the clinical evidence was conducted. Sources searched included PubMed, Agency for Healthcare Research and Quality (AHRQ) Comparative Effectiveness Reviews, the Cochrane Library, Choosing Wisely, Centers for Medicare &Medicaid Services (CMS) National Coverage Determinations, the National Institute of Health and Care Excellence (NICE), and the National Guideline Clearinghouse. Other medical literature databases, medical content providers, data sources, regulatory body websites, and specialty society resources may also have been used. Relevant studies were assessed for risk of bias following principles described in the Cochrane Handbook. The resulting evidence was assessed for consistency, directness, precision, effect size, and publication bias. Observational trials were also evaluated for the presence of a dose-response gradient and the likely effect of plausible confounders.

(5)

These criteria address adult diagnoses or indications. The diagnoses or indications are not applicable to individuals < 18 and therefore, this content should only be applied to adults.

(6)

Bone metastases and multiple myeloma are common causes of compression fracture. Primary cancers such as breast, lung, and prostate cancer often cause bone metastases, most commonly to the spinal column. Vertebroplasty and kyphoplasty have been shown to provide pain relief and vertebral stabilization in patients with vertebral compression fractures due to malignancy (American College of Radiology (ACR), ACR Appropriateness Criteria: Management of Vertebral Compression Fractures. 2013; Julka et al., J Spinal Disord Tech 2012: Aug;27(6):342-6; Berenson et al., Lancet Oncol 2011, 12: 225-35; Vissers et al., Pain Pract. 2011, 11: 453-75).

(7)

Vertebroplasty and kyphoplasty are procedures designed to reduce pain and restore function in patients with painful, osteoporotic vertebral compression fractures. Early randomized controlled trials comparing vertebroplasty with a sham procedure or conservative care reported no significant clinical difference between the surgical and nonsurgical approaches (Rousing et al., Spine (Phila Pa 1976) 2010, 35: 478-82; Buchbinder et al., N Engl J Med 2009; 361(6): 557-568; Kallmes et al., N Engl J Med 2009; 361(6): 569-579). In contrast, kyphoplasty compared with conservative treatment resulted in clinical improvement that lasted up to 12 months, and reduction in back pain remained statistically significant at 2 years in one study (Boonen et al., J Bone Miner Res 2011, 26: 1627-37). More recent studies have demonstrated that both vertebroplasty and kyphoplasty are superior to conservative therapy and are equally effective in reducing pain and disability (Evans et al., J Neurointerv Surg 2015: Jun 24; Gu et al., J Neurointerv Surg 2015: May 11; Dohm et al., AJNR Am J Neuroradiol 2014, 35: 2227-36; Stevenson et al., Health Technol Assess 2014, 18: 1-290). In addition, vertebroplasty and kyphoplasty are both recommended as treatment options for osteoporotic vertebral compression fractures in major guidelines (Barr et al., J Vasc Interv Radiol 2014, 25: 171-81; American College of Radiology (ACR), ACR Appropriateness Criteria: Management of Vertebral Compression Fractures. 2013; National Institute for Health and Care Excellence (NICE), Percutaneous vertebroplasty and percutaneous balloon kyphoplasty for treating osteoporotic vertebral compression fractures. NICE technology appraisal guidance 279. 2013).

(8)

Def: Vertebral hemangiomas are benign tumors of dilated blood vessels that cause pain as they grow to involve the entire vertebral body. They are typically found in the lower thoracic or upper lumbar spine.

(9)

Vertebroplasty is an option for treating vertebral hemangiomas that have caused a pathologic fracture (Jian, Pain Physician 2013, 16: E419-25; Liu et al., Eur Radiol 2013, 23: 2575-81; Hao and Hu, Pain physician 2012, 15: 43-9). Prior to vertebroplasty, diagnostic evaluation by injection is helpful in identifying potential leakage sites into the venous system. In addition, vascular embolization may be performed prior to cement injection (Blecher et al., Journal of spinal disorders &techniques 2011, 24: 196-201).



(10)

Spinal neurologic deficits are sensory or motor abnormalities due to neurocompression of either the spinal cord or nerve root and can include muscle weakness, paralysis, or paresthesias. When present, decompression of the affected nerve should be considered.

(11)

Malignancy-related compression fractures are often difficult to distinguish from osteoporotic compression fractures, since clear radiographic findings of the malignancy are sometimes absent. These criteria are, therefore, satisfied when malignancy has been documented by biopsy, a history of recent malignancy, or radiographic evidence of a malignancy (Sutcliffe et al., Health Technol Assess 2013, 17: 1-274).

(12)

Since malignancy-related compression fractures are likely to progress, a trial of conservative treatment is not advised (Sutcliffe et al., Health Technol Assess 2013, 17: 1-274).

(13)

The listed findings are absolute contraindications to vertebroplasty or kyphoplasty (American College of Radiology (ACR), ACR Appropriateness Criteria: Management of Vertebral Compression Fractures. 2013).

(14)

The pain associated with vertebral compression fractures is usually intense and sometimes incapacitating for the first few weeks, improving gradually over the ensuing months. If vertebroplasty or kyphoplasty are recommended, they should be used as a second-line procedure for patients who have failed or cannot tolerate conservative management (Baerlocher et al., J Vasc Interv Radiol 2014, 25: 165-70; Barr et al., J Vasc Interv Radiol 2014, 25: 171-81; American College of Radiology (ACR), ACR Appropriateness Criteria: Management of Vertebral Compression Fractures. 2013).

(15)

NSAIDs are the preferred pharmacotherapy treatment of this condition because of their anti-inflammatory effect, although the improvement in pain is small when compared to placebo and there is a risk of gastrointestinal side effects (Qaseem et al., Ann Intern Med 2017: epub; Enthoven et al., Cochrane Database Syst Rev 2016, 2: CD012087). Evidence does not support the use of acetaminophen as first line therapy for treating spine pain; however, it can be used as an alternative when NSAIDs are contraindicated (e.g., pregnancy, history of peptic ulcer disease) (Machado et al., BMJ 2015, 350: h1225).

(16)

A back brace promotes pain relief from vertebral compression fractures by stabilizing the spine. Bracing limits pain-provoking movements and can facilitate early mobilization (Longo et al., J Bone Joint Surg Br 2012, 94: 152-7).

(17)

Activity modification involves limiting activities which provoke or aggravate symptoms. Patients may require bed rest in severe cases, although the risks of prolonged immobility must be balanced against the symptomatic benefits.

(18)

Def: A pathologic fracture is a fracture that occurs when a bone is weakened by disease (e.g., osteoporosis, benign or malignant tumors, osteomyelitis).



ICD-10-CM (circle all that apply): C41.2, C79.51, C79.52, D18.09, M48.50XA, M80.08XA, M84.48XA, M84.68XA, Other
ICD-10-PCS (circle all that apply): 0PU33JZ, 0PU34JZ, 0PU43JZ, 0PU44JZ, 0QU03JZ, 0QU04JZ, 0QU13JZ, 0QU14JZ,
Other
CPT® (circle all that apply): 22510, 22511, 22512, Other