



Definition

The bones of the spinal column are called vertebrae (plural) (vertebra – singular). A vertebral fracture is a break in a bone of the spine. (Cleveland Clinic, 2022)

Types (American Academy of Orthopaedic Surgeons, 2020)

Compression fracture – Vertebral bone tissue collapses within itself, becoming squashed or compressed. **Burst fracture** – A more severe form of compression fracture in which the vertebra breaks in multiple directions. **Vertebral fracture-dislocation** – An unstable injury involving bone and/or soft tissue in which a vertebra moves off an adjacent vertebra (displacement). This type of injury can cause serious spinal cord compression.

Causes/Risk factors (Cleveland Clinic, 2021)

- **Traumatic** caused by trauma or injury (e.g., a patient falls and lands on their feet or buttocks causing downward pressure on the spinal column causing the vertebrae to fracture.)
 - **Pathologic** caused by a disease process that weakens the bone, for example:
 - Osteoporosis (most common cause)
 - Tumors/cancers that started in the bones of the spine or tumors/cancers that started in other parts of the body and then spread to the bones of the spine
- **Both** occurs when the vertebrae are weakened by a disease process that even minor trauma causes a compression fracture.

Signs and symptoms (Cleveland Clinic, 2021)

There may be no symptoms; however, symptoms can include:

- Back pain with sudden onset or chronic back pain that usually gets better when you lie down and worsens when you stand or walk
- Loss of height
- Hunchback (Kyphosis can cause pressure on the spine that may cause numbness, tingling or weakness, problems with walking, bowel or bladder function.)

Diagnostic tools (Cleveland Clinic, 2021)

- Medical history and physical exam
- Imaging tests: spine X-ray, CT, MRI
- <u>Dual-energy X-ray absorptiometry (DEXA) scan</u> (bone density testing) for osteoporosis

Treatment (Cleveland Clinic, 2021)

- Pain medications (e.g., NSAID's, muscle relaxers etc.)
- Bedrest
- Back brace
- Physical therapy
- Surgery
- Treatment of underlying condition (if pathologic fracture)
- Medications to strengthen bones (ibandronic acid (Boniva®) and alendronic acid (Fosamax®).



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E Best documentation practices for healthcare providers

Subjective

In the subjective section of the office note, document the presence or absence of any current symptoms related to vertebral fracture(s) (e.g., back pain, trouble walking etc.).

Objective

The objective section should include current associated physical exam findings and results of neurological testing and related diagnostic imaging.

Assessment

Describe vertebral fractures to the highest level of specificity, including all of the following:

- Site/affected level of spinal column
- Type of fracture, for example:
 - Open/Closed
 Collapsed or Wedge compression
- Stable/Unstable burst

- Acute/ChronicCause of the fracture(s):
 - If traumatic, specify the type of injury or trauma and when it occurred.

• Displaced/Nondisplaced

- If pathologic, clearly link the fracture to the underlying causative disease.
- Alert: It is critical that the medical record document whether a fracture is traumatic versus pathologic. Without this, there is no coding path or default in the ICD-10-CM classification and no code can be assigned.
- Current status (improving, unchanged, healed, etc., or with complications such as delayed healing, nonunion or malunion).

Plan:

- Document a clear and concise treatment plan for the fracture(s). (e.g., bedrest, back bracing, physical therapy etc.),
- Document details of referrals and consultation requests, orders for diagnostic testing and medications
 prescribed with clear linkage to the fracture(s).

Coding tips (AAPC, 2023)

The principles of multiple coding of injuries should be followed in coding fractures.

- A fracture not indicated as open or closed is coded to closed.
- A fracture not indicated whether displaced or not displaced is coded to displaced. Multiple fractures are sequenced in accordance with the severity of the fracture.

Coding traumatic vertebral fractures

Traumatic vertebral fractures are coded in accordance with the provisions within categories S12, S22 and S32 and the level of detail documented in the medical record. 5th and 6th characters specify the particular site within each vertebral region of the spinal column and the type of fracture. There are many descriptors within each subcategory. A 7th character is added to report the encounter as follows:

Vertebral level	Subcategories
Cervical	S12.ØØ – S12.69, S12.9
Thoracic	S22.ØØ – S22.Ø8
Lumbar	S32.ØØ – S32.Ø5
Sacral	S32.1Ø – S32.19
Соссух	S32.2

А	initial encounter for closed fracture
В	initial encounter for open fracture
D	subsequent encounter for fracture with routine healing
G	subsequent encounter for fracture with delayed healing
К	subsequent encounter for fracture with nonunion
S	sequela



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Initial encounter – active treatment of traumatic vertebral fracture (7th characters A and B)

Seventh characters A and B are used for each encounter in which the patient is receiving active treatment for traumatic vertebral fracture (including patients who delayed seeking treatment for the fracture or nonunion):

- A: initial encounter for closed fracture
- B: initial encounter for open fracture

Examples of active treatment: surgical treatment, emergency department encounter, evaluation and continuing (ongoing) active treatment by the same or a different physician.

While a patient may be seen by a new or different physician over the course of treatment for an injury, assignment of the 7th character is based on whether the patient is undergoing active treatment and not whether the physician is seeing the patient for the first time.

Subsequent encounter – routine healing of traumatic vertebral fracture (7th character D)

This describes care given after the patient has completed active treatment of the fracture and is receiving routine care for the fracture during the healing or recovery phase. The 7th character extension is:

D: subsequent encounter for fracture with routine healing

Examples of routine traumatic fracture care: brace adjustment, X-ray to check healing status of fracture, medication adjustment and follow-up visits that occur after active fracture treatment has been completed.

The aftercare Z codes should not be used for aftercare for traumatic fractures. For aftercare of a traumatic fracture, assign the acute fracture code with the appropriate 7th character.

Complications of traumatic vertebral fracture 7th characters G and K:

Care for *complications of the traumatic vertebral fracture itself* during the healing or recovery phase is reported by adding the appropriate 7th character to the fracture code as follows:

- G: subsequent encounter for fracture with delayed healing
- K: subsequent encounter for fracture with nonunion

By contrast, care for *complications of surgical treatment of the traumatic vertebral fracture* is reported with the appropriate surgical complication code with its own corresponding 7th character as indicated by the medical record documentation. For active treatment of the surgical complication, the complication code is sequenced first with 7th character "A". Active treatment refers to active treatment of the surgical complication even though the complication relates to a procedure performed at a previous encounter. *(See Example 3 under Coding examples)*

Sequela of traumatic vertebral fracture – 7th character S

A sequela is a late effect – a residual condition produced after the acute phase of a vertebral fracture has ended. The sequela may be apparent early, or it may occur months or years later. There is no time limit on when a sequela code can be used. Sequelae are reported with 7th character S: sequela.

- Use both the traumatic vertebral fracture code and the code for the sequela itself. S is added only to the fracture code, not the sequela code.
- The specific type of sequela (e.g., kyphosis) is sequenced first, followed by the fracture code.
- Examples include kyphosis, spinal stenosis, prolonged chronic pain and spinal arthritis.

Additional reminders

 These subcategories include multiple instructional notes that must be carefully reviewed and applied as appropriate.



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\Xi Coding examples

Example 1		
Assessment	Initial visit for age-related osteoporosis with newly diagnosed L1 and L2 lumbar wedge compression fractures	
ICD-10-CM code	M8Ø.Ø8xA Age-related osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture	
Example 2		
Assessment	Severe lumbar spinal stenosis due to history of traumatic wedge compression fractures of fourth and fifth lumbar vertebrae	
ICD-10-CM codes	M48.Ø61 Spinal stenosis, lumbar region without neurogenic claudication S32.Ø4ØS Wedge compression fracture of fourth lumbar vertebra, sequela S32.Ø5ØS Wedge compression fracture of fifth lumbar vertebra, sequela	
Example 3		
Assessment and plan	3 months post-op traumatic burst fracture at T10, now with nonunion due to implant failure (screw pull out). Will schedule revision surgery to extend level of fixation.	
ICD-10-CM codes	T84.226A Displacement of internal fixation device of vertebrae, initial encounter S22.Ø71K Stable burst fracture of T9-T10 vertebrae, subsequent encounter for fracture with nonunion	
Example 4		
Assessment and plan	Age-related osteoporotic lumbar compression fracture at L2 status post L2 vertebroplasty 4 weeks ago. Now complains of lower extremity weakness. Imaging shows delayed healing due to epidural and intradural leakage of bone cement. Plan: Schedule L1 and L2 laminotomy to remove bone cement.	
ICD-10-CM codes	T84.498A Other mechanical complication of other internal orthopedic devices, implants and grafts, initial encounter M8Ø.Ø8xG Age-related osteoporosis with current pathological fracture, vertebra(e), subsequent encounter for fracture with delayed healing	

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