

Demographic and Clinical Predictors of Rib Fracture, Complication, and Follow-up Among Patients With Rib Injuries Presenting to Urgent Care

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Supplemental Table 1: ICD-10 Codes for Rib Injury, Rib Fracture, and Related Complications

Category	ICD-10 Code	Description
Rib injury/Fracture	S29.9XXA	Unspecified injury of thorax, initial encounter
Rib injury/Fracture	S23.41XA	Sprain of ribs, initial encounter
Rib injury/Fracture	S22.31XA	Fracture of one rib, right side, initial encounter for closed fracture
Rib injury/Fracture	S22.32XA	Fracture of one rib, left side, initial encounter for closed fracture
Rib injury/Fracture	S22.31XB	Fracture of one rib, right side, initial encounter for open fracture
Rib injury/Fracture	S22.32XB	Fracture of one rib, left side, initial encounter for open fracture
Rib injury/Fracture	S22.39XA	Fracture of one rib, unspecified side, initial encounter for closed fracture
Rib injury/Fracture	S22.39XB	Fracture of one rib, unspecified side, initial encounter for open fracture
Rib injury/Fracture	S22.43XA	Multiple fractures of ribs, bilateral, initial encounter for closed fracture
Rib injury/Fracture	S22.43XB	Multiple fractures of ribs, bilateral, initial encounter for open fracture
Rib injury/Fracture	S22.41XB	Multiple fractures of ribs, right side, initial encounter for open fracture
Rib injury/Fracture	S22.41XA	Multiple fractures of ribs, right side, initial encounter for closed fracture
Rib injury/Fracture	S22.42XA	Multiple fractures of ribs, left side, initial encounter for closed fracture
Rib injury/Fracture	S22.42XB	Multiple fractures of ribs, left side, initial encounter for open fracture
Rib injury/Fracture	S22.49XA	Multiple fractures of ribs, unspecified side, initial encounter for closed fracture
Rib injury/Fracture	S22.49XB	Multiple fractures of ribs, unspecified side, initial encounter for open fracture
Rib injury/Fracture	S20.211A	Contusion of right front wall of thorax, initial encounter
Rib injury/Fracture	S20.212A	Contusion of left front wall of thorax, initial encounter
Rib injury/Fracture	S20.221A	Contusion of right back wall of thorax, initial encounter
Rib injury/Fracture	S20.222A	Contusion of left back wall of thorax, initial encounter
Hemothorax	S27.1XXA	Traumatic hemothorax, initial encounter
Hemothorax	S27.1XXD	Traumatic hemothorax, subsequent encounter
Hemothorax	S27.1XXS	Traumatic hemothorax, sequela
Hemothorax	J94.2	Hemothorax (Hemopneumothorax; Hemothorax after surgery; Postprocedural hemothorax; Hemopneumothorax)
Pneumothorax	J93.2	Traumatic pneumothorax
Pneumothorax	J93.9	Pneumothorax, unspecified
Pneumothorax	S27.0XXA	Traumatic pneumothorax, initial encounter
Pneumothorax	S27.0XXD	Traumatic pneumothorax, subsequent encounter
Pneumothorax	S27.0XXS	Traumatic pneumothorax, sequela
Pneumothorax	Code J93.83	Other pneumothorax
Hemopneumothorax	S27.2XXA	Traumatic hemopneumothorax, initial encounter
Hemopneumothorax	S27.2XXD	Traumatic hemopneumothorax, subsequent encounter
Hemopneumothorax	S27.2XXS	Traumatic hemopneumothorax, sequela
Pneumonia	J18.9	Pneumonia, unspecified organism
Pneumonia	J18.8	Other pneumonia, unspecified organism
Pneumonia	J15.9	Unspecified bacterial pneumonia
Pneumonia	J18.1	Lobar pneumonia, unspecified organism
Pneumonia	J18.0	Bronchopneumonia, unspecified organism
Pneumonia	J12.9	Viral pneumonia, unspecified
Pneumonia	J12.89	Other viral pneumonia

Cardiac/vascular	S26.01XA	Contusion of heart with hemopericardium, initial encounter
Cardiac/vascular	S26.92XA	Laceration of heart, unspecified with or without hemopericardium, initial encounter
Cardiac/vascular	S26.09XA	Other injury of heart with hemopericardium, initial encounter
Cardiac/vascular	S25.01XA	Minor laceration of thoracic aorta, initial encounter
Cardiac/vascular	S25.02XA	Major laceration of thoracic aorta, initial encounter
Intraabdominal injuries	S36.112A	Contusion of liver, initial encounter
Intraabdominal injuries	S36.029A	Unspecified contusion of spleen, initial encounter
Rib injury/Fracture	S22.31XD	Fracture of one rib, right side, subsequent encounter for fracture with routine healing
Rib injury/Fracture	S22.31XG	Fracture of one rib, right side, subsequent encounter for fracture with delayed healing
Rib injury/Fracture	S22.31XK	Fracture of one rib, right side, subsequent encounter for fracture with nonunion
Rib injury/Fracture	S22.32XD	Fracture of one rib, left side, subsequent encounter for fracture with routine healing
Rib injury/Fracture	S22.32XG	Fracture of one rib, left side, subsequent encounter for fracture with delayed healing
Rib injury/Fracture	S22.32XK	Fracture of one rib, left side, subsequent encounter for fracture with nonunion
Rib injury/Fracture	S22.39XD	Fracture of one rib, unspecified side, subsequent encounter for fracture with routine healing
Rib injury/Fracture	S22.39XG	Fracture of one rib, unspecified side, subsequent encounter for fracture with delayed healing
Rib injury/Fracture	S22.39XK	Fracture of one rib, unspecified side, subsequent encounter for fracture with nonunion
Rib injury/Fracture	S22.43XD	Multiple fractures of ribs, bilateral, subsequent encounter for fracture with routine healing
Rib injury/Fracture	S22.43XG	Multiple fractures of ribs, bilateral, subsequent encounter for fracture with delayed healing
Rib injury/Fracture	S22.43XK	Multiple fractures of ribs, bilateral, subsequent encounter for fracture with nonunion
Rib injury/Fracture	S22.5XXA	Flail chest, initial encounter for closed fracture
Rib injury/Fracture	S22.5XXB	Flail chest, initial encounter for open fracture
Rib injury/Fracture	S22.41XD	Multiple fractures of ribs, right side, subsequent encounter for fracture with routine healing
Rib injury/Fracture	S22.41XG	Multiple fractures of ribs, right side, subsequent encounter for fracture with delayed healing
Rib injury/Fracture	S22.41XK	Multiple fractures of ribs, right side, subsequent encounter for fracture with nonunion
Rib injury/Fracture	S22.42XD	Multiple fractures of ribs, left side, subsequent encounter for fracture with routine healing
Rib injury/Fracture	S22.42XG	Multiple fractures of ribs, left side, subsequent encounter for fracture with delayed healing
Rib injury/Fracture	S22.42XK	Multiple fractures of ribs, left side, subsequent encounter for fracture with nonunion
Rib injury/Fracture	S22.49XD	Multiple fractures of ribs, unspecified side, subsequent encounter for fracture with routine healing
Rib injury/Fracture	S22.49XG	Multiple fractures of ribs, unspecified side, subsequent encounter for fracture with delayed healing
Rib injury/Fracture	S22.42XK	Multiple fractures of ribs, left side, subsequent encounter for fracture with nonunion
Rib injury/Fracture	S22.49XD	Multiple fractures of ribs, unspecified side, subsequent encounter for fracture with routine healing
Rib injury/Fracture	S22.49XG	Multiple fractures of ribs, unspecified side, subsequent encounter for fracture with delayed healing
Rib injury/Fracture	S22.49XK	Multiple fractures of ribs, unspecified side, subsequent encounter for fracture with nonunion

ICD-10 codes with descriptions for rib injury/fracture and related complications like hemothorax, pneumothorax, hemopneumothorax, pneumonia, cardiac/vascular, intraabdominal injuries.

ICD-10 Codes for Comorbid Conditions:

Diabetes: E08.XX – E13.XX, O24.XX

Asthma: J45.XX, COPD J44.XX

Hypertension: I10.XX – I16.XX, O10.XX-O11.XX

Hyperlipidemia: E78.XX

Coronary Artery Disease: I20.XX-125.XX