

Additional content 2 Excluded studies with reasons given for exclusion

1	Galan G, Penalver JC, Paris F, et al. BLUNT CHEST INJURIES IN 1696 PATIENTS. <i>Eur J Cardiothorac Surg.</i> 1992; 6: 284-7.	Study Design
2	Actis Dato GM, Aidala E and Ruffini E. Surgical management of flail chest. <i>Ann Thorac Surg.</i> 1999; 67: 1826-7.	Study Design
3	Ahmed Z and Mohyuddin Z. Management of flail chest injury: Internal fixation versus endotracheal intubation and ventilation. <i>Journal of Thoracic and Cardiovascular Surgery.</i> 1995; 110: 1676-80.	Study Design
4	Akkus M, Utkusavas A, Hanozu M, Kaya M and Bakir I. Stabilization of Flail Chest and Fractured Sternum by Minimally Invasive Repair of Pectus Excavatum. <i>Thoracic and Cardiovascular Surgeon Reports.</i> 2015; 4: 11-3.	Study Design
5	Althausen PL, Shannon S, Watts C, et al. Early surgical stabilization of flail chest with locked plate fixation. <i>J Orthop Trauma.</i> 2011; 25: 641-7.	Study Design
6	Ananiadou O, Karaiskos T, Givissis P and Drossos G. Operative stabilization of skeletal chest injuries secondary to cardiopulmonary resuscitation in a cardiac surgical patient. <i>Interact Cardiovasc Thorac Surg.</i> 2010; 10: 478-80.	Study Design
7	Attia RQ, Schulte KL and Whitaker DC. eReply: In patients with acute flail chest does surgical rib fixation improve outcomes in terms of morbidity and mortality? <i>Interactive Cardiovascular and Thoracic Surgery.</i> 2016; 23: 319-20.	Study Design
8	Bailey J, VanderHeiden T, Burlew CC, et al. Thoracic hyperextension injury with complete "bony disruption" of the thoracic cage: Case report of a potentially life-threatening injury. <i>World Journal of Emergency Surgery.</i> 2012; 7.	Study Design
9	Beelen R, Rumbaut J and De Geest R. Surgical stabilization of a rib fracture using an angle stable plate. <i>Journal of Trauma - Injury, Infection and Critical Care.</i> 2007; 63: 1159-60.	Study Design
10	Beltrami V, Martinelli G, Giansante P and Gentile K. An original technique for surgical stabilisation of traumatic flail chest. <i>Thorax.</i> 1978; 33: 528-9.	Study Design
11	Berthet JP, Solovei L, Tiffet O, et al. Chest-wall reconstruction in case of infection of the operative site: Is there any interest in titanium rib osteosynthesis. <i>Eur J Cardiothorac Surg.</i> 2013; 44: 866-74.	Study Design
12	Bibas BJ and Bibas RA. Operative stabilization of flail chest using a prosthetic mesh and methylmethacrylate. <i>Eur J Cardiothorac Surg.</i> 2006; 29: 1064-6.	Study Design
13	Bille A, Okiror L, Campbell A, Simons J and Routledge T. Evaluation of long-term results and quality of life in patients who underwent rib fixation with titanium devices after trauma. <i>General Thoracic and Cardiovascular Surgery.</i> 2013; 61: 345-9.	Study Design

14	Bille A, Okiror L, Karenovics W and Routledge T. Experience with titanium devices for rib fixation and coverage of chest wall defects. <i>Interactive Cardiovascular and Thoracic Surgery</i> . 2012; 15: 588-95.	Study Design
15	Bonne SL, Turnbull IR and Southard RE. Technique for repair of fractures and separations involving the cartilaginous portions of the anterior chest wall. <i>Chest</i> . 2015; 147: e199-e204.	Study Design
16	Borrelly J and Aazami MH. New insights into the pathophysiology of flail segment: The implications of anterior serratus muscle in parietal failure. <i>Eur J Cardiothorac Surg</i> . 2005; 28: 742-9.	Study Design
17	Bottlang M, Long WB, Phelan D, Fielder D and Madey SM. Surgical stabilization of flail chest injuries with MatrixRIB implants: A prospective observational study. <i>Injury</i> . 2013; 44: 232-8.	Study Design
18	Brotzu G, Montisci R, Pillai W and Sanna S. Chest injuries. A review of 195 patients. <i>Ann Chir Gynaecol</i> . 1988; 77: 155-9.	Study Design
19	Buyukkarabacak YB, Sengul AT, Celik B, et al. The Usefulness of Early Surgical Rib Stabilization in Flail Chest. <i>Acta Chir Belg</i> . 2015; 115: 408-13.	Study Design
20	Cacchione RN, Richardson JD and Seligson D. Painful nonunion of multiple rib fractures managed by operative stabilization. <i>Journal of Trauma - Injury, Infection and Critical Care</i> . 2000; 48: 319-21.	Study Design
21	Campbell N, Conaglen P, Martin K and Antippa P. Surgical stabilization of rib fractures using inion OTPS wraps-techniques and quality of life follow-up. <i>Journal of Trauma - Injury, Infection and Critical Care</i> . 2009; 67: 596-601.	Study Design
22	Caragounis EC, Olsen MF, Pazooki D and Granhed H. Surgical treatment of multiple rib fractures and flail chest in trauma: a one-year follow-up study. <i>World Journal of Emergency Surgery</i> . 2016; 11.	Study Design
23	Chapman BC, Herbert B, Rodil M, et al. RibScore: A novel radiographic score based on fracture pattern that predicts pneumonia, respiratory failure, and tracheostomy. <i>J Trauma Acute Care Surg</i> . 2016; 80: 95-101.	Study Design
24	Charafeddine AH, Stone ME, Reddy SH, Teperman SH, Kaban JM and Cohen-Levy WB. Anterior chest wall disassociation: A pattern associated with serious underlying injury. <i>Am Surg</i> . 2015; 81: E244-E5.	Study Design
25	Cho YH, Kim HK, Kang DY and Choi YH. Reoperative surgical stabilization of a painful nonunited rib fracture using bone grafting and a metal plate. <i>J Orthop Trauma</i> . 2009; 23: 605-6.	Study Design
26	De La Santa Barajas PM, Polo Otero MD, Delgado Sanchez- Gracian C, Leal Ruiloba S, Trinidad C and Choren Duran M. Surgical treatment for flail chest. <i>Interactive Cardiovascular and Thoracic Surgery</i> . 2012; 15: S5.	Study Design
27	De Moya M, Bramos T, Agarwal S, et al. Pain as an indication for rib fixation: A bi-institutional pilot study. <i>Journal of Trauma -</i>	Study Design

	Injury, Infection and Critical Care. 2011; 71: 1750-4.	
28	de Palma A, Sollitto F, Loizzi D, et al. Chest wall stabilization and reconstruction: Short and long-term results 5 years after the introduction of a new titanium plates system. Journal of Thoracic Disease. 2016; 8: 490-8.	Study Design
29	Dean NC, Van Boerum DH and Liou TG. Rib plating of acute and sub-acute non-union rib fractures in an adult with cystic fibrosis: a case report. BMC Res Notes. 2014; 7: 681.	Study Design
30	Defreest L, Tafen M, Bhakta A, et al. Open reduction and internal fixation of rib fractures in polytrauma patients with flail chest. Am J Surg. 2016; 211: 761-7.	Study Design
31	Dehghan N, de Mestral C, McKee MD, Schemitsch EH and Nathens A. Flail chest injuries: A review of outcomes and treatment practices from the National Trauma Data Bank. Journal of Trauma and Acute Care Surgery. 2014; 76: 462-8.	Study Design
32	Doben AR, Eriksson EA, Denlinger CE, et al. Surgical rib fixation for flail chest deformity improves liberation from mechanical ventilation. J Crit Care. 2014; 29: 139-43.	Study Design
33	Dunlop RLE, Tiong W, Veerasingam D and Kelly JL. Novel use of hand fracture fixation plates in the surgical stabilisation of flail chest. Journal of Plastic, Reconstructive and Aesthetic Surgery. 2010; 63: e51-e3.	Study Design
34	Engel C, Krieg JC, Madey SM, Long WB and Bottlang M. Operative chest wall fixation with osteosynthesis plates. Journal of Trauma - Injury, Infection and Critical Care. 2005; 58: 181-6.	Study Design
35	Evman S, Kolbas I, Dogruyol T and Tezel C. A Case of Traumatic Flail Chest Requiring Stabilization with Surgical Reconstruction. Thoracic and Cardiovascular Surgeon Reports. 2015; 4: 8-10.	Study Design
36	Fagevik Olsén M, Pazooki D and Granhed H. Recovery after stabilising surgery for 'flail chest'. Unfallchirurgie. 2013; 39: 501-6.	Study Design
37	Farquhar J, Almahrabi Y, Slobogean G, et al. No benefit to surgical fixation of flail chest injuries compared with modern comprehensive management: results of a retrospective cohort study. Canadian Journal of Surgery. 2016; 59: 299-303.	Study Design
38	Flagel BT, Luchette FA, Reed RL, et al. Half-a-dozen ribs: the breakpoint for mortality. Surgery. 2005; 138: 717-23; discussion 23-5.	Study Design
39	Gabram SGA, Devanney J, Jones D and Jacobs LM. Delayed hemorrhagic pericardial effusion: Case reports of a complication from severe blunt chest trauma. Journal of Trauma. 1992; 32: 794-800.	Study Design
40	Galvin IF, Costa R and Murton M. FRACTURED RIB WITH PENETRATING CARDIOPULMONARY INJURY. Ann Thorac Surg. 1993; 56: 558-9.	Study Design

41	Gardenbroek TJ, Bemelman M and Leenen LPH. Pseudarthrosis of the ribs treated with a locking compression plate: A report of three cases. <i>Journal of Bone and Joint Surgery - Series A</i> . 2009; 91: 1477-9.	Study Design
42	Gasparri MG, Almassi GH and Haasler GB. Surgical management of multiple rib fractures. <i>Chest</i> . 2003; 124: 295S-6S.	Study Design
43	George RJ and Stern HS. An approach to surgical fixation of traumatic costosternal diastasis. <i>ANZ J Surg</i> . 2014; 84: 594-5.	Study Design
44	Gerov I and Yablanski V. Damage control - Increasing the survival rates through emergency bone stabilization in a polytraumatized young patient. <i>Injury</i> . 2011; 42: S29.	Study Design
45	Ginsberg RJ and Kostin RF. 5. New approaches to the management of flail chest. <i>Can Med Assoc J</i> . 1977; 116: 613-5.	Study Design
46	Govaert G, Schuetz M and Peters P. Rib fixation for a traumatic 'stove-in chest': An option to consider. <i>ANZ J Surg</i> . 2012; 82: 276-7.	Study Design
47	Granetzny A, Abd El-Aal M, Emam E, Shalaby A and Boseila A. Surgical versus conservative treatment of flail chest. Evaluation of the pulmonary status. <i>Interact Cardiovasc Thorac Surg</i> . 2005; 4: 583-7.	Study Design
48	Granhed HP and Pazooki D. A feasibility study of 60 consecutive patients operated for unstable thoracic cage. <i>J Trauma Manag Outcomes</i> . 2014; 8: 20.	Study Design
49	Guernelli N, Bragaglia RB, Briccoli A, Mastroilli M and Vecchi R. Technique for the management of anterior flail chest. <i>Thorax</i> . 1979; 34: 247-8.	Study Design
50	Gunn JM, Savola J and Isotalo K. Left-sided diaphragmatic and pericardial ruptures with subluxation of the heart after blunt trauma. <i>Ann Thorac Surg</i> . 2012; 93: 317-9.	Study Design
51	Haasler GB. Open fixation of flail chest after blunt trauma. <i>Ann Thorac Surg</i> . 1990; 49: 993-5.	Study Design
52	Hasenboehler EA, Bernard AC, Bottiggi AJ, et al. Treatment of traumatic flail chest with muscular sparing open reduction and internal fixation: Description of a surgical technique. <i>Journal of Trauma - Injury, Infection and Critical Care</i> . 2011; 71: 494-501.	Study Design
53	Hellberg K, de Vivie ER, Fuchs K, et al. Stabilization of flail chest by compression osteosynthesis--experimental and clinical results. <i>Thorac Cardiovasc Surg</i> . 1981; 29: 275-81.	Study Design
54	Igai H, Kamiyoshihara M, Nagashima T and Ohtaki Y. Rib fixation for severe chest deformity due to multiple rib fractures. <i>Annals of Thoracic and Cardiovascular Surgery</i> . 2012; 18: 458-61.	Study Design
55	Ivancic A, Saftic I, Cicvaric T, et al. Initial experience with external thoracic stabilization by the "figure of eight" osteosynthesis in	Study Design

	polytraumatized patients with flail chest injury. <i>Coll Antropol.</i> 2009; 33: 51-6.	
56	Jayle CP, Allain G, Ingrand P, et al. Flail chest in polytraumatized patients: surgical fixation using Stracos reduces ventilator time and hospital stay. <i>Biomed Res Int.</i> 2015; 2015: 624723.	Study Design
57	Kamiyoshihara M, Nagashima T, Ibe T and Takeyoshi I. Rupture of the diaphragm and pericardium with cardiac herniation after blunt chest trauma. <i>General Thoracic and Cardiovascular Surgery.</i> 2010; 58: 291-4.	Study Design
58	Kaplan T, Gulbahar G, Gundogdu AG and Han S. An unexpected complication of titanium rib clips. <i>Ann Thorac Surg.</i> 2014; 98: 2206-9.	Study Design
59	Ke S, Duan H, Cai Y, Kang J and Feng Z. Thoracoscopy-assisted minimally invasive surgical stabilization of the anterolateral flail chest using Nuss bars. <i>Ann Thorac Surg.</i> 2014; 97: 2179-82.	Study Design
60	Khandelwal G, Mathur RK, Shukla S and Maheshwari A. A prospective single center study to assess the impact of surgical stabilization in patients with rib fracture. <i>Int J Surg.</i> 2011; 9: 478-81.	Study Design
61	Kilic D, Findikcioglu A, Akin S, et al. Factors affecting morbidity and mortality in flail chest: Comparison of anterior and lateral location. <i>Thoracic and Cardiovascular Surgeon.</i> 2011; 59: 45-8.	Study Design
62	Kim JJ, Kim YH, Moon SW, Choi SY and Jeong SC. Nuss procedure for severe flail chest after blunt trauma. <i>Ann Thorac Surg.</i> 2015; 99: e25-7.	Study Design
63	Konstantinov IE, Saxena P and Wood DJ. Stabilisation of chronic flail chest: A novel approach of surgical fixation and osteogenesis. <i>Thorax.</i> 2009; 64: 265-6.	Study Design
64	Kruger M, Zinne N, Zhang RY, et al. Multidirectional Thoracic Wall Stabilization: A New Device on the Scene. <i>Ann Thorac Surg.</i> 2013; 96: 1846-9.	Study Design
65	Kulaylat AN, Chesnut CH, 3rd, Santos AP and Armen SB. Successful operative rib fixation of traumatic flail chest in a patient with osteogenesis imperfecta. <i>Interact Cardiovasc Thorac Surg.</i> 2014; 19: 518-9.	Study Design
66	Landreneau RJ, Hinson Jr JM, Hazelrigg SR, Johnson JA, Boley TM and Curtis JJ. Strut fixation of an extensive flail chest. <i>Ann Thorac Surg.</i> 1991; 51: 473-5.	Study Design
67	Lang M, Krumrey MT, Roder J, Ulmer J, Friederichs J and Buhren V. Late complications following blunt abdominal and thoracic trauma: Two case reports of a minimally invasive therapy. [German, English]. <i>Chirurg.</i> 2012; 83: 1078-81.	Study Design
68	Lang-Lazdunski L, Bonnet PM, Pons F, Brinquin L and Jancovici R. Traumatic extrathoracic lung herniation. <i>Ann Thorac Surg.</i>	Study Design

	2002; 74: 927-9.	
69	Lanier ST, Wetterau M, Smith-Singares E, et al. Management of pulmonary hernia through a flail segment in closed thoracic trauma using open reduction, internal fixation and pectoralis major flap reconstruction: A case report. Canadian Journal of Plastic Surgery. 2011; 19: 145-7.	Study Design
70	Lardinois D, Krueger T, Dusmet M, Ghisletta N, Gugger M and Ris HB. Pulmonary function testing after operative stabilisation of the chest wall for flail chest. Eur J Cardiothorac Surg. 2001; 20: 496-501.	Study Design
71	Lee SA, Hwang JJ, Chee HK, Kim YH and Lee WS. Flail chest stabilization with Nuss operation in presence of multiple myeloma. Journal of Thoracic Disease. 2014; 6: E43-E7.	Study Design
72	Lee SK and Kang DK. Nuss procedure for surgical stabilization of flail chest with horizontal sternal body fracture and multiple bilateral rib fractures. Journal of Thoracic Disease. 2016; 8: E390-E2.	Study Design
73	Lee SY, Lee SJ, Lee CS and Lee KR. Spontaneous fractures of judet struts. Journal of Trauma - Injury, Infection and Critical Care. 2009; 67: 214.	Study Design
74	Leenstra BS, Stolwijk A and Poeze M. Surgical stabilisation in a 13-year-old boy with traumatic flail chest. BMJ Case Rep. 2015; 2015 (no pagination).	Study Design
75	Majercik S, Cannon Q, Granger SR, Van Boerum DH and White TW. Regarding: Long-term patient outcomes after surgical stabilization of rib fractures. Am J Surg. 2015; 210: 199-200.	Study Design
76	Majercik S, Cannon Q, Granger SR, Vanboerum DH and White TW. Long-term patient outcomes after surgical stabilization of rib fractures. Am J Surg. 2014; 208: 88-92.	Study Design
77	Majercik S, Vijayakumar S, Olsen G, et al. Surgical stabilization of severe rib fractures decreases incidence of retained hemothorax and empyema. Am J Surg. 2015; 210: 1112-7.	Study Design
78	Marasco S, Cooper J, Pick A and Kossmann T. Pilot study of operative fixation of fractured ribs in patients with flail chest. ANZ J Surg. 2009; 79: 804-8.	Study Design
79	Marasco S, Liew S, Edwards E, Varma D and Summerhayes R. Analysis of bone healing in flail chest injury: Do we need to fix both fractures per rib? Journal of Trauma and Acute Care Surgery. 2014; 77: 452-8.	Study Design
80	Marasco S, Quayle M, Summerhayes R, Sutalo ID and Liovic P. An assessment of outcomes with intramedullary fixation of fractured ribs. J Cardiothorac Surg. 2016; 11.	Study Design

81	Marasco SF, Davies AR, Cooper J, et al. Prospective randomized controlled trial of operative rib fixation in traumatic flail chest. <i>J Am Coll Surg.</i> 2013; 216: 924-32.	Study Design
82	Maury JM, Roquet G, Marcotte G and David JS. Surgical fixation of rib fractures in chest wall trauma. <i>Intensive Care Med.</i> 2015; 41: 1483-4.	Study Design
83	Maxwell CA, Mion LC and Dietrich MS. Hospitalized injured older adults: clinical utility of a rib fracture scoring system. <i>J Trauma Nurs.</i> 2012; 19: 168-74; quiz 75-6.	Study Design
84	Mayberry JC, Ham LB, Schipper PH, Ellis TJ and Mullins RJ. Surveyed opinion of American trauma, orthopedic, and thoracic surgeons on rib and sternal fracture repair. <i>J Trauma.</i> 2009; 66: 875-9.	Study Design
85	Mayberry JC, Kroeker AD, Ham LB, Mullins RJ and Trunkey DD. Long-Term Morbidity, Pain, and Disability after Repair of Severe Chest Wall Injuries. <i>Am Surg.</i> 2009; 75: 389-94.	Study Design
86	Mayberry JC, Terhes JT, Ellis TJ, Wanek S and Mullins RJ. Absorbable Plates for Rib Fracture Repair: Preliminary Experience. <i>Journal of Trauma - Injury, Infection and Critical Care.</i> 2003; 55: 835-9.	Study Design
87	Menard A, Testart J, Philippe JM and Grise P. TREATMENT OF FLAIL CHEST WITH JUDET STRUTS. <i>Journal of Thoracic and Cardiovascular Surgery.</i> 1983; 86: 300-5.	Study Design
88	Messing JA, Gall V and Sarani B. Successful management of severe flail chest via early operative intervention. <i>J Trauma Nurs.</i> 2014; 21: 83-5.	Study Design
89	Metin B and Intepe YS. Operative ease and efficiency of nitinol memory rib plaque on the multiple costa and sternum fractures: Three-year clinical experience. <i>International Journal of Clinical and Experimental Medicine.</i> 2016; 9: 11510-7.	Study Design
90	Michelet P and Boussen S. Case scenario - thoracic trauma. <i>Annales Francaises D Anesthesie Et De Reanimation.</i> 2013; 32: 504-9.	Study Design
91	Michelitsch C, Acklin YP, Hassig G, Sommer C and Furrer M. Operative stabilisation of chest wall trauma: Single center report of initial management and longterm outcome. <i>Respiration.</i> 2016; 91 (5): 456.	Study Design
92	Mintz AC, Albano A, Reisdorff EJ, Choe KA and Lillegard W. Stress fracture of the first rib from serratus anterior tension: an unusual mechanism of injury. <i>Ann Emerg Med.</i> 1990; 19: 411-4.	Study Design
93	Morodomi Y, Okamoto T, Tagawa T, et al. A novel method of using bioabsorbable materials for the surgical repair of flail chest. <i>Journal of Trauma and Acute Care Surgery.</i> 2016; 81: 984-7.	Study Design

94	Moslam KE, Badawy MS and Asida SM. Evaluation of respiratory functions in chest trauma patients treated with thoracic wall stabilization. <i>Egyptian Journal of Chest Diseases and Tuberculosis</i> . 2015; 64: 213-7.	Study Design
95	Mouton W, Lardinois D, Furrer M, Regli B and Ris HB. Long-term follow-up of patients with operative stabilisation of a flail chest. <i>Thorac Cardiovasc Surg</i> . 1997; 45: 242-4.	Study Design
96	Muhm M, Harter J, Weiss C and Winkler H. Severe trauma of the chest wall: surgical rib stabilisation versus non-operative treatment. <i>European Journal of Trauma and Emergency Surgery</i> . 2013; 39: 257-65.	Study Design
97	Nagaie T, Tateishi H and Minagawa S. New method for the internal stabilisation of flail chest. <i>Eur J Surg</i> . 1992; 158: 613-4.	Study Design
98	Ng ABY, Giannoudis PV, Bismil Q, Hinsche AF and Smith RM. Operative stabilisation of painful non-united multiple rib fractures. <i>Injury</i> . 2001; 32: 637-9.	Study Design
99	Nickerson TP, Kim BD, Zielinski MD, Jenkins D and Schiller HJ. Use of a 90degree drill and screwdriver for rib fracture stabilization. <i>World J Surg</i> . 2015; 39: 789-93.	Study Design
100	Nickerson TP, Thiels CA, Kim BD, Zielinski MD, Jenkins DH and Schiller HJ. Outcomes of Complete Versus Partial Surgical Stabilization of Flail Chest. <i>World J Surg</i> . 2016; 40: 236-41.	Study Design
101	Nicolau AE, Merlan V, Ciupan R, et al. Postoperative early enteral nutrition in a patient with politrauma and late duodenal perforation. <i>Chirurgia</i> . 2008; 103: 111-5.	Study Design
102	Nirula R, Allen B, Layman R, Falimirski ME and Somberg LB. Rib fracture stabilization in patients sustaining blunt chest injury. <i>Am Surg</i> . 2006; 72: 307-9.	Study Design
103	Noonan TJ, Sakryd G, Espinoza LM and Packer D. Posterior rib stress fracture in professional baseball pitchers. <i>American Journal of Sports Medicine</i> . 2007; 35: 654-8.	Study Design
104	Olsen MF, Sloba M, Klarin L, Caragounis EC, Pazooki D and Granhed H. Physical function and pain after surgical or conservative management of multiple rib fractures - a follow-up study. <i>Scandinavian Journal of Trauma Resuscitation & Emergency Medicine</i> . 2016; 24.	Study Design
105	Ovadia P, Szewczyk D and Rabinovici R. Bilateral cervical rib fracture secondary to blunt trauma. <i>J Trauma</i> . 1997; 43: 157-8.	Study Design
106	Oyamatsu H, Ohata N and Narita K. New technique for fixing rib fracture with bioabsorbable plate. <i>Asian Cardiovascular and Thoracic Annals</i> . 2016; 24: 736-8.	Study Design
107	Oyarzun JR, Bush AP, McCormick JR and Bolanowski PJP. Use of 3.5-mm acetabular reconstruction plates for internal fixation of	Study Design

	flail chest injuries. <i>Ann Thorac Surg.</i> 1998; 65: 1471-4.	
108	Pape HC, Remmers D, Rice J, Ebisch M, Krettek C and Tscherne H. Appraisal of early evaluation of blunt chest trauma: Development of a standardized scoring system for initial clinical decision making. <i>Journal of Trauma-Injury Infection and Critical Care.</i> 2000; 49: 496-504.	Study Design
109	Perna V and Morera R. Prognostic factors in chest traumas: A prospective study of 500 patients. <i>Cirugía Española (English Edition).</i> 2016; 94: 165-70.	Study Design
110	Pieracci FM, Johnson JL, Stovall RT and Jurkovich GJ. Completely thoracoscopic, intra-pleural reduction and fixation of severe rib fractures. <i>Trauma Case Reports.</i> 2015; 1: 39-43.	Study Design
111	Pieracci FM, Lin Y, Rodil M, et al. A prospective, controlled clinical evaluation of surgical stabilization of severe rib fractures. <i>Journal of Trauma and Acute Care Surgery.</i> 2016; 80: 187-94.	Study Design
112	Pieracci FM, Majercik S, Ali-Osman F, et al. Consensus statement: Surgical stabilization of rib fractures rib fracture colloquium clinical practice guidelines. <i>Injury.</i> 2016; 48: 307-21.	Study Design
113	Pieracci FM, Rodil M, Stovall RT, et al. Surgical stabilization of severe rib fractures. <i>Journal of Trauma and Acute Care Surgery.</i> 2015; 78: 883-7.	Study Design
114	Pimakhov V and Belov O. Optimization of chest stabilization methods for acute respiratory distress-syndrome prophylaxy and treatment in patients with craniothoracic trauma. <i>Interactive Cardiovascular and Thoracic Surgery.</i> 2014; 18: S60.	Study Design
115	Pimakhov V. Assessment of long-term outcome of different rib fracture stabilization methods for patients with craniothoracic trauma. <i>Interactive Cardiovascular and Thoracic Surgery Conference: 23rd European Conference on General Thoracic Surgery Lisbon Portugal Conference Start.</i> 2015; 21.	Study Design
116	Pompili C, Brunelli A, Xiume F and Sabbatini A. Chest wall reconstruction with a titanium rib bridge for post-traumatic parietal hernia. <i>Eur J Cardiothorac Surg.</i> 2010; 37: 737.	Study Design
117	Pressley CM, Fry WR, Philp AS, Berry SD and Smith RS. Predicting outcome of patients with chest wall injury. <i>Am J Surg.</i> 2012; 204: 910-4.	Study Design
118	Puranik G and Gillham N. Bilateral fractured clavicles with multiple rib fractures. <i>Emerg Med J.</i> 2007; 24: 675.	Study Design
119	Puranik G and Gillham N. Bilateral fractured clavicles with multiple rib fractures.[Erratum appears in <i>Emerg Med J.</i> 2007 Dec;24(12):867]. <i>Emerg Med J.</i> 2007; 24: 675.	Study Design

120	Pushkin S and Benyan A. Our first steps in osteosynthesis of fractured ribs using Matrix Rib technologies. European Respiratory Journal Conference: European Respiratory Society Annual Congress. 2012; 40.	Study Design
121	Qiu M, Shi Z, Xiao J, Zhang X, Ling S and Ling H. Potential Benefits of Rib Fracture Fixation in Patients with Flail Chest and Multiple Non-flail Rib Fractures. Indian Journal of Surgery. 2016; 78: 458-63.	Study Design
122	Ramponi F, Meredith GT, Bendinelli C and Soderlund T. Operative management of flail chest with anatomical locking plates (MatrixRib). ANZ J Surg. 2012; 82: 658-9.	Study Design
123	Reber P, Ris HB, Inderbitzi R, Stark B and Nachbur B. Osteosynthesis of the injured chest wall: Use of the AO (Arbeitsgemeinschaft fur Osteosynthese) technique. Scandinavian Journal of Thoracic and Cardiovascular Surgery. 1993; 27: 137-42.	Study Design
124	Reber PU, Kniemeyer HW, Ris HB, et al. Reconstruction plates for internal fixation of flail chest [4] (multiple letters). Ann Thorac Surg. 1998; 66: 2158.	Study Design
125	Redwan B, Reichelt J, Freermann S, Semik M and Fischer S. Video-assisted minimally invasive rib osteosynthesis using intramedullary titanium splints in patients with unstable rib fractures: Treatment algorithm and first clinical results. Interactive Cardiovascular and Thoracic Surgery Conference: 23rd European Conference on General Thoracic Surgery Lisbon Portugal Conference Start. 2015; 21.	Study Design
126	Richardson JD, Franklin GA, Heffley S and Seligson D. Operative fixation of chest wall fractures: An underused procedure? Am Surg. 2007; 73: 591-6.	Study Design
127	Sahin MS, Ergun T, Cakmak G and Akyuz M. Posterior sternoclavicular joint dislocation with first rib fracture and ipsilateral vocal cord palsy. Journal of Emergency Medicine. 2012; 42: e121-e3.	Study Design
128	Said SM, Goussous N, Zielinski MD, Schiller HJ and Kim BD. Surgical stabilization of flail chest: the impact on postoperative pulmonary function. European Journal of Trauma and Emergency Surgery. 2014; 40: 501-5.	Study Design
129	Sanchez-Lloret J, Letang E, Mateu M, et al. Indications and surgical treatment of the traumatic flail chest syndrome. An original technique. The Thoracic and cardiovascular surgeon. 1982; 30: 294-7.	Study Design
130	Sarani B, Schulte L and Diaz JJ. Pitfalls associated with open reduction and internal fixation of fractured ribs. Injury. 2015; 46: 2335-40.	Study Design
131	Sawan TG, Nickerson TP, Thiels CA, et al. Load Sharing, not Load Bearing Plates: Lessons Learned from Failure of Rib Fracture Stabilization. The American surgeon. 2016; 82: E15-E7.	Study Design

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