

**Table 1. Cases of nail gun penetration the heart.**

	First author	Year	Age	Sex	Site of injury	presentation	Management	Post-op outcome	Association
	Our case	2021	32	M	Left Ventricle	Elective	median sternotomy CPB	Uneventful	Coronary-Pulmonary Artery Fistula
1	Kamal YA	2019	19	M	right ventricle	ED	left anterior thoracotomy	Uneventful	intrapericardial hematoma
2	Ciou-Nan Ye	2019	58	M	left ventricle	ED	median sternotomy	Uneventful	hemorrhagic brain injury
3	Simon Ho	2017	51	M	right ventricle	ED	median sternotomy	Uneventful	pericarditis
4	Yasser Shabaan Mubark	2017	22	M	right ventricle	ED	median sternotomy.	Uneventful	Hemopericardium Right hemothorax
5	Vasu Chirumamilla	2016	20	M	Right Atrium	ED	Pericardiocentesis left anterolateral thoracotomy	Uneventful	
6	Kara L. Michalsen Case1	2015	3	M	right and left ventricle	ED	median sternotomy	Uneventful	mitral regurgitation
7	Kara L. Michalsen Case2	2015	37		right ventricle	ED	median sternotomy with upper midline laparotomy	Uneventful	ST-segment elevation. high cardiac troponin Pericardial effusion anterior stomach injury
8	Holger Rupprecht	2014	18	M	left ventricle	ED	sternotomy	Uneventful	
9	Weizhi Zhang	2014	4	F	right ventricle	ED	median sternotomy	Uneventful	Hemopericardium
10	Osama saber eldib	2014	25	M	right ventricle	ED	median sternotomy	Uneventful	Hemopericardium hemothorax
11	Alton D. Temple	2013	33	M	right ventricle	ED	-	-	right ventricular laceration
12	B.C. Prokesch,	2013	57	M	left ventricle	ED	median sternotomy	Uneventful	traumatic septal defect

13	Ahmadreza Jodati,	2011	24	M	right ventricle	ED	median sternotomy CPB	Uneventful	Mitral valve injury with moderate to sever MR
14	Chiara Comoglio	2009	76	M	left ventricle	chest pain and syncope	-	Uneventful	increase of cardiac enzymes left lung injury pneumothorax
15	L Ray Guo	2008	25	M	right ventricle	ED	median sternotomy	Uneventful	
16	Sampurna Tuladhar,	2008	49	M	right and left ventricle	ED	median sternotomy CPB	Uneventful	hemo-pericardium
17	Ercan Eren	2005	37	M	right ventricle	ED	left anterior thoracotomy	Uneventful	
18	Lars Nolke Case1	2005	16	M	left ventricular apex	ED	left anterior thoracotomy	Uneventful	
19	Lars Nolke Case2	2005	36	M	right ventricle	ED	left anterior thoracotomy	Uneventful	
20	Lars Nolke Case3	2005	37	M	left ventricle	ED	-	postoperative pericarditis	
21	Timothy A Pritts	2005	23	M	right ventricle	ED	median sternotomy	Uneventful	right ventricular laceration with clot formation
22	Ming-Jiuh Wang	1999	17	M	left ventricle	ED	median sternotomy CPB	Uneventful	cardiac tamponade Periaortic hematoma
23	Rex de Lisle Stanbridge	1982	26	M	left ventricle	ED	thoracotomy	subendocardial muscle necrosis	left lung injury pneumothorax