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Isolated internal mammary artery injury managed by mini-thoracotomy

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Penetrating injuries to anterior chest may result in life-threatening complications such as massive haemothorax as a result of injury to the Internal Mammary Artery (IMA). Isolated internal mammary injury is a very rare cause of massive haemothorax and associated with high mortality. Massive tension haemothorax resulting from penetrating internal mammary artery injury, managed with anterior mini-thoracotomy with uneventful recovery, as in our case, has not been reported yet. Nevertheless, injury to IMA is infrequently reported in literature. It can be a result of penetrating or blunt trauma but still with serious consequences. We are presenting this 32 year old gentleman who sustained a thoracic stab wound. He was in hypovolemic shock with a blood pressure of 80/45 mm Hg and pulse rate of 120 beats per minute. Stab wound was noted in his right anterior chest wall medial to mid-clavicular line and in right parasternal area at 3rd inter costal space measuring about 3 cm × 1 cm with intra thoracic extension. He had an emergency right anterior mini-thoracotomy by extending the stab wound rather than standard thoracotomy or sternotomy and discharged with no complication. This potentially life threatening injury can be managed by mini-thoracotomy with enhanced recovery; however, it is case specific and needs proper judgement.

Biography

Mohammad M R Miah has completed his MRCS in 2016 from Royal College of Surgeons of England. He is working in Surgery as a middle grade Surgeon under NHS England. He has completed multiple audits and quality improvement project as a lead Auditor and presented in many national and international conferences.