

Intercostal herniation of lung and liver in a post-traumatic patient

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A 54-year-old man presented with chest pain after a traffic accident. Radiologically, two rib fractures were detected in the right hemithorax and there was intercostal herniation of the lung and liver (**Figures 1a** and **b**).

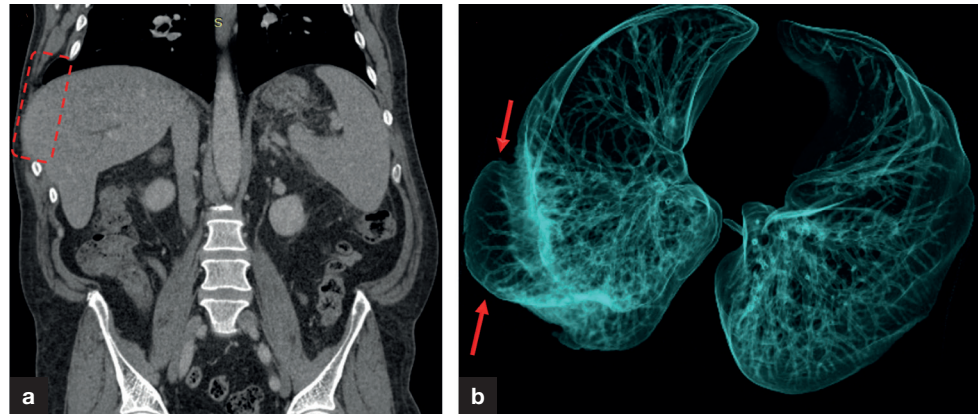


Figure 1. a. Coronal computed tomography scan in the parenchymal window showing intercostal herniation (frame) of both the lung and liver, and (b) air-specific three-dimensional computed tomography image showing intercostal herniation (arrows) of the lung.

Intercostal lung herniation is a very rare condition and usually occurs as a result of trauma. Patients usually complain of swelling and pain in the intercostal space during Valsalva manoeuvre and coughing (Ufuk, 2021). Intercostal liver herniation is also very rare and typically occurs after trauma. It carries a risk of necrosis if not reduced surgically (Bendinelli et al, 2012). Intercostal herniation of both the lung and liver should be kept in mind as a rare complication of trauma.

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References

Bendinelli C, Martin A, Nebauer SD, Balogh ZJ. Strangulated intercostal liver herniation subsequent to blunt trauma. First report with review of the world literature. *World J Emerg Surg.* 2012;7(1):23. <https://doi.org/10.1186/1749-7922-7-23>

Ufuk F. Intercostal lung hernia. *Radiology.* 2021;299(2):277. <https://doi.org/10.1148/radiol.2021203479>

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