Double fistula between esophagus and mediastinum during chemo-radiotherapy in a patient affected with esophageal cancer

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A 61 years-old woman received the diagnosis of cervical esophageal stenosing cancer in September 2015. An esophageal stent was endoscopically placed at the diagnosis. The patient was treated by concomitant chemotheraphy (weekly carboplatin AUC2 and paclitaxel 50mg/m²) and radiotherapy (41.4 Gy) completed in December 2015. In February 2016 the patient complained cough; an X-ray was performed and was suspicious for pneumonia with multiple foci. Computed tomography (CT) was scheduled with administration of intravenous contrast and administration of hydrosoluble contrast per os. CT showed a large consolidation in the right lung with air-fluid level and the presence of a leak of contrast between the esophageal lumen and the collection for the presence of a fistula (Figure 1: a, b, c). Another smaller para-esophageal collection was also recognizable in the upper third of the esophagus with air-fluid level; at this level there was another leak of contrast for the presence of a second fistula (Figure 1.d). The patient was considered inoperable and she was treated only with palliative/supportive care.

The incidence of fistula in esophageal cancer is reported in the range of 5% to 13%. [1-2]

Esophagobronchial fistula could be caused by direct neoplastic infiltration and necrosis between the esophagus, bronchus, and mediastinum or could also be induced by necrosis or cyorteduction of the tumor. There is no clear evidence that multimodal treatment increase the incidence of fistula formation [3], however development of fistula during concomitant chemo-radiotherapy in patients affected by esophageal and lung cancer is reported. [3-4]

The peculiarity of our case is the occurrence of two fistulas during chemo-radiotherapy. The main symptoms are cough, dyspnea and fever due to pneumonia, which is often recurrent [5]. The development of an esophagobronchial fistula is a devastating and life-threatening complication; therapeutic modalities comprehends surgical resection, endoscopic placement of self-expandable covered stents and non-invasive supportive/palliative therapy. [4-5]. Our patient was considered inoperable and the development of this complication was fatal.

References

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