Medical Safety Information Pharmaceuticals and Medical Devices Agency http://www.pmda.go.jp/english/safety/info-services/safety-information/0001.html



Precaution when Handling Thoracic Catheters

Key points for safe use

- (Case 1) As a chest X-ray revealed a collapse of the right lung, a thoracic catheter was inserted and the symptom was re-checked by a chest X-ray. When an autologous blood patch pleurodesis was performed 2 days after the thoracic catheter was inserted, the patient expectorated blood through coughing. A chest CT scan revealed that the thoracic catheter had penetrated the right upper lung field.
- (Case 2) Pleural effusion was noted. When a thoracic catheter was inserted to perform drainage, the patient complained of pain and experienced a decrease in percutaneous oxygen saturation (SpO₂). Thoracoscopy revealed damage to the descending aorta and at the basal segment of the lung.

Precautions when placing thoracic catheters

When inserting a thoracic catheter, attention should be paid to the position and direction for insertion to prevent damaging blood vessels, lung, heart, and other organs.



Be careful of the risk of damaging the aorta, lung, heart, and other organs from not only thoracic drainage but also thoracentesis!

Precautions for the position/direction for insertion of thoracic catheters



Precautions after inserting a thoracic catheter

Confirm that the thoracic catheter has been placed at the target position based on the chest X-ray image, and monitor the patient's condition.



Contact: Medical Safety Information Group

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About this information

- * PMDA Medical Safety Information is issued by the Pharmaceuticals and Medical Devices Agency for the purpose of providing healthcare providers with clearer information from the perspective of promoting the safe use of pharmaceuticals and medical devices. The information presented here has been compiled, with the assistance of expert advice, from cases collected as Medical Accident Information Reports by the Japan Council for Quality Health Care, and collected as Adverse Drug Reaction and Malfunction Reports in accordance with the Law on Securing Quality, Efficacy and Safety of Pharmaceuticals and Medical Devices.
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