FIREARM INJURY PATIENTS WITH SITUS INVERSUS TOTALIS - CASE REPORT

Tratamento cirúrgico em paciente com situs inversus totalis após ferimento por arma de fogo – relato de caso

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INTRODUCTION

Situs inversus is a rare congenital anomaly of reversal site of thoracic and abdominal organs. It can be partial (only one cavity) or with total abdominal and thoracic organs affected. The first case was described in 1600 by Fabricius. Incidence of 1/10000-50000 live births. This anatomical anomaly does not affect survival and is not considered pre-malignant. It is usually diagnosed incidentally with imaging. A few decades ago it had the diagnosis made only intraoperatively. Surgical procedures are considered more difficult in patients with this condition by the anatomical difference and position of organs.

CASE REPORT

Man of 40 years suffered gunshot wounds in the thoracoabdominal transition with entrance hole in the right midaxillary line at the 10th intercostal space, without outlet.

On physical examination, patent airway, spontaneous ventilation wearing a neck collar on rigid board. Pulmonary auscultation presented vesicular murmur in the left hemithorax and decreased in the right lung base. Hemodynamically unstable. Had Glasgow coma scale 15 and pupils isochoric. The abdomen was distended with signs of peritoneal irritation. The patient had no other injury.

The initial procedure was fluid replacement, blood transfusion, bladder catheterization of delay-sealed tube drainage water to the right. Then, revealed presence of about 1000 mL of blood intra-cavity with lots of clots, visualization of situs inversus totalis (Figures 1 and 2), grade V splenic
injury (Figure 3), gastric lesion grade III, grade II pancreatic injury, diaphragmatic injury grade II. The procedures were total splenectomy, gastrorrafy, pancreateorrafy, diaphragmatic repairs cavity washing. He was discharged on the 8th day after surgery in good clinical condition.

**DISCUSSION**

Penetrating abdominal trauma is associated with hemodynamic instability, immediate indication for laparotomy. As in the case described, hemodynamically unstable patient had surgical indication without further investigation or examination and no delay in trying to resuscitate the patient before the operation.

Due to the complexity of vascular anomalies, situs inversus in the past was considered a contraindication to liver operations. The orientation of the hepatic vessels is reversed and the upper right quadrant contains the spleen and stomach making its handling technically difficult. Several cases have been reported for elective operations such as laparoscopic cholecystectomy, even with success rates similar to the procedures in patients without situs inversus.

This condition can lead to some problems of orientation and dissection during the procedure, because at least two thirds of the surgeons are right-handed. The total splenectomy procedures and primary suture of injury, in relation to the patient in question, were carried out with relative difficulty, but without complications.

**CONCLUSION**

Although the surgical procedures in patients with situs inversus have more complex situations, the operation can to be successfully performed even with extensive trauma.

**REFERENCES**