Ovarian Vein Thrombophlebitis: Case Report

Sanchez AV*, RG Merino, Maria Teresa CG and Strikes RG

Department of Internal Medicine, Carlos Haya Regional University Hospital, Malaga, Spain

Abstract

The ovarian vein thrombophlebitis (TVO) is a rare entity which may occur during the immediate postpartum period and carries considerable morbidity. Its incidence is 0.15 to 0.18% at vaginal delivery, with a mortality rate of 0.18 million pregnancies, being more common after cesarean (1-2%). We present a patient with postpartum TVO, which in the present study hypercoagulable positive lupus anticoagulant, to our knowledge there are only two cases reported in the medical literature, this being first diagnosed in the immediate postpartum. It also presents culture positive lochia, which is rare in cases described previously, and inferior vena cava thrombosis, one of the possible complications of TVO.

Keywords: Ovarian vein thrombophlebitis; Antiphospholipid syndrome; Thrombophlebitis

Introduction

The ovarian vein thrombophlebitis (TVO) is a rare entity, first described by Austin et al. [1], which may occur during the immediate postpartum period and carries considerable morbidity. Its incidence is 0.15% to 0.18% at vaginal delivery [2], with a mortality rate of 18 / million pregnancies, being more common after cesarean (1-2%) [3].

We present a patient with postpartum TVO, which in the present study hypercoagulable positive lupus anticoagulant, to our knowledge there are only two cases reported in the medical literature [4], this being first diagnosed in the immediate postpartum. It also presents culture positive lochia, which is rare in cases described previously, and inferior vena cava thrombosis, one of the possible complications of TVO.

Case Report

A female of 24 years Surgery for vesicoureteral reflux in children, Primipara. He presented gestational diabetes mellitus with good metabolic control. Planned caesarean section for twin presentation facility. The 5th day post-intervention consultation begins with spiking fevers in daily needle to 40 with abdominal tenderness. And extracted Enterococcus faecalis loquios to. A month before the caesarean surgical intervention, she had a caesarean for twin presentation. And extracted Enterococcus faecalis loquios to. A month before the caesarean surgical intervention, she had a caesarean for twin presentation. And extracted Enterococcus faecalis loquios to.

Figure 1: The structure of pyelocalyceal ectasia.

48 h unanswered abdominopelvic computed tomography is requested, which 2×12 cm Tubular structure described in the lower portion of the blind, attenuation increased fat-free liquid adjoining periappendiceal. The structure compressed into the middle of the right ureter third producing a discrete degree of pyelocalyceal ectasia (Figure 1). Given the poor prognosis of the patient performing exploratory laparotomy was decided with the following findings: normal appendix, performing prophylactic appendectomy and retroperitoneal tubular structure wooden 3×12 cm, originating in right infundibulopelvic parallel vein, however, IVC thrombosis suggestive of ovarian vessels rights to its mouth in inferior vena cava. Closing and expectant attitude is decided. It starts anticoagulation with low molecular weight heparin (LMWH) prophylactic doses. Absolute contraindication to anticoagulation lower cavography where filling defect right side, below renal veins, which corresponds to the arrival of the thrombosed vein is checked and transient Günther Tulip filter is implanted between said filling defect and subsequently performed inserting renal veins, checking correct positioning in subsequent control (Figure 2). Chest CT angiography in which discarded filling defect in pulmonary vascular tree is performed. It trascurrida one week laparotomy starts full dose LMWH. The filter is removed after 21 days without complications and treatment is initiated with warfarin. Test results thrombophilia are: prothrombin gene mutation, factor V Leiden, protein C and S, antithrombin III negative. Anciuerpos normal IgG and IgM anticardiolipina. 9 AntiB2Glicoproteína IgM, IgG AntiB2GP 35 lupus anticoagulant positive. A 2nd determination is performed 8 weeks later: 33 AntiB2GP IgM, IgG AntiB2GP 26 1/40 speckled pattern antinuclear antibodies, ENA negative, negative neutrophil cytoplasmic antibodies,
Discussion

Postpartum ovarian thrombophlebitis presents clinically as fever, abdominal pain together with feeling flanks mass. It can occur in the postpartum period or other pelvic procedures [5]. 90% of cases occur in the first 10 postpartum days and affects the right ovarian vein, due to its greater length, greater valvular incompetence, uterine dextrotorsión during pregnancy and presence of expansion and antegrade flow postpartum thereof [6].

The pathogenesis of TVO is explained by the triad of Virchow and the unique conditions of hemostasis occurring during the postpartum period (decreased protein S, increased factors II, VII, IX, X, increased adherence, Platelets, decreased activity fibrinolytic) and trauma that occurs during labor that facilitates intrauterine infection, inflammation and leukocyte infiltration [7].

Although intrauterine infection is present or suspected in the onset of symptoms, to crops extracted persistent fever are negative in most cases [8], smaller percentages describing culture positive cases 35% [9]. This low profitability may be due in part to the introduction of empirical antibiotic treatment prior to diagnosis. In the case presented loquios culture was positive for Enterococcus faecalis.

As for prothrombotic predisposition, there are numerous acquired risk factors described in relation to TVO. In a retrospective study includes 22 patients with TVO, the primary hypercoagulable state was present in half of the patients with TVO puerperal highlighting heterozygosity for factor V Leiden, protein S deficiency, or homozygous for mutation in methylenetetrahydrofolate reductase [10].

The SAF is a well known thrombosis including unusual locations [11], although to date there are only two cases reported in the literature TVO and SAF [4], including a recent European cohort of 1000 patients with APS [12] causes. 2 have also been described in cases of a series TVO autopsy in patients with catastrophic syndrome [13].

Despite being an atypical localization of thrombosis, recent studies like rathrombosis risk it is found that DVT affects lower limbs, with no significant difference in survival five years. Poor survival rate is explained by cases associated with malignancy. As for possible complications in this series comprising 114 patients, only 1 presented vena cava extension [14], as in the case presented. He, although rare, pulmonary thromboembolism is a complication that must be present in body [15].

Conclusion

Due to the low incidence of TVO and its considerable morbidity and mortality, it is necessary a high clinical suspicion in cases with symptoms compatible to establish diagnosis, early treatment and establish comprehensive medical surveillance. We must examine this possibility more febrile postpartum abdominal pain and surgical procedures, infection or cancer in the pelvic area. The diagnostic technique of choice is MRI or abdominal computed tomography. The treatment of choice is based on LMWH with broad-spectrum antibiotics. Because described his recent association with acquired and inherited bleeding disorders should be performed thrombophilia testing and microbiological culture despite its apparent low profitability.

References