INTRODUCTION

Determination of the cause of a febrile state is a difficult and often complex diagnostic problem due to aetiological diversity of elevated body temperature [2,3], defined as a morning body temperature above 37.2°C and an afternoon one above 37.7°C. Generally, the body temperature above 37.2°C is considered the febrile state. [3]. The most common causes of elevated body temperature are infections caused by viruses (HIV included) and bacteria, followed by fungal infections. The other causes of febrile states include autoimmune diseases, collagenoses, in particular, neoplasms, diseases of the brain and cerebrospinal meninges, allergies, less commonly zoonoses and others [6,7,8]. Despite the advances in medical diagnostics, there is still a certain group of patients with fever, the cause of which remains unexplained [10].

We present a case of a patient with the febrile state of several-week duration and atypical disease manifestations, which required multi-directional diagnostic procedures and interdisciplinary management to be finally successfully diagnosed and treated.

CASE REPORT:

A 72-year-old patient was admitted to the Department of Internal Diseases due to the persistent several-week febrile state accompanied by extremely severe pain of the right lower limb. Prior to admission, the patient had been treated for arterial hypertension by the GP and neurologist. The following agents were prescribed: hypotensive drugs from the group of angiotensin-converting enzyme inhibitors, beta-blocker, indapamide and acetylsalicylic acid preparation.

Arterial blood pressure was satisfactorily controlled. Based on the recommendations of the attending physicians, the patient had chest and hip joint X-rays, which did not demonstrate any abnormalities. On an outpatient basis, the patient received cefuroxime, diclofenac and dexamethasone without any therapeutic effect. On admission to the Department of Internal Diseases, the general condition of the patient was severe. He suffered badly and complained of persistent pain of the lower limb; his body temperature was 39°C. The nutritional condition of the patient was normal (BMI: 28.6 kg/m²).

The physical examination of the chest and abdomen revealed no abnormalities, except for slight enlargement of the spleen. On palpation, accessible lymph nodes were not enlarged. Laboratory tests disclosed substantially elevated inflammatory indices CRP – 375 mg/l (range of 0-5 mg/l), leucocytosis – 22 thousand/mm³, platelet count – 655 G/l, increased levels of fibrinogen – 8.6 g/l (reference values 1.8-3.5 g/l) and of D-Dimer – 7 928 ng/ml (norm above 500 ng/ml) and 13 397 ng/ml on the next determination. Moreover, hepatic enzymes, ALAT and AsPAT, were elevated, 92 IU/l and 87 IU/l, respectively. The other laboratory results were within normal limits. Blood cultures were negative. Echocardiography did not show valve vegetation. Due to persisting severe pains in the right lower limb, the case was consulted with the vascular surgeon and the patient underwent the ultrasound of the lower limb venous system, which did not demonstrate venous thrombosis. MRI of the lumbar spine revealed only advanced degenerative-productive lesions. Abdominal ultrasound showed a slight enlargement of the spleen; CT of the abdomen visualised an irregular hypotensive lesion, 60×50×70 mm, within the spleen [Fig. 1]. The nature of the lesion was suggestive of a subcapsular splenic hematoma. After the consultation with the surgeon, the patient was qualified for surgery during which the splenic abscess was found. Splenectomy was performed and febrile states as well as pain subsided.

Different faces of a febrile state

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ABSTRACT

Fever develops in various diseases. It is mainly associated with infectious diseases but can also occur in non-infectious ailments. Clinical symptoms are not always explicit, which can hinder the diagnosis and delay the institution of appropriate treatment. The aim of the study is to present difficulties in diagnosing the cause of a febrile state in a patient with splenic abscess.

KEYWORDS:
febrile state,
splenic abscess.

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Different faces of a febrile state

Our case describes the diagnostic difficulties in determining the causes of the long-term febrile state. The difficulties were associated with the fact that the essential clinical symptoms were lower limb pains suggestive of venous thrombosis and a neoplastic spine lesion. Once CT of the abdomen was performed, further diagnostic management was continued in the right direction. Splenectomy with splenic abscess removal led to complete recovery of the patient. The postoperative management involved only several-week antithrombotic therapy. The case described evidences that not all febrile states can be treated on an outpatient basis and some cases require hospitalization in the department of internal diseases. Moreover, the diagnostic management should be based on the dynamics of clinical symptoms rather than the symptoms themselves. Accurate history taking can also be valuable. In our case, the patient remembered the injury to the abdomen sustained several months earlier, which was the likely cause of a haematoma followed by a splenic abscess. It seems that antibiotics and antipyretics used too hastily in such conditions decrease transiently the temperature, which may obscure the picture of disease and hinder the diagnosis. In many cases, the treatment with various antibiotics is initiated under pressure of patients and their families. Antibiotic management should not be a substitute for diagnosis. Considering the case presented, it is worth remembering that not all the abscesses within the abdominal cavity develop in a classical way; in some cases, such abscesses can imitate some other, completely surprising diseases, for example abscesses of spleen.

In recent years abscesses of spleen have been more frequently observed. This is a result of immunosuppressive treatment and more accurate diagnostic techniques.

REFERENCES: