

{6mg/ml}. The results became obvious after 4 procedures. The old elements were resorbed and new ones did not reappear. Remarkable aesthetic success was achieved after completing the full course. The amount of relapses were cut down.

**Conclusions.** Taking account side effects of antibiotics, retinoid and hormonal drugs at the early age, it is necessary to think over the alternative methods of treatment witch one is ozone therapy. Ozone therapy is one of the best therapies easily accepted by patients leading to improve their individual and social life.

**Key words:** acne, ozone therapy

## DEPARTMENT OF HUMAN PHYSIOLOGY AND BIOPHYSICS

### 20. AORTIC VALVULOPATHY IN OCHRONOSIS

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**Background.** Ochronosis (alkaptonuria) is a very rare metabolic disease. This pathology has an autosomal recessive transmission and is manifested by the progressive and irreversible impairment of the connective tissue. Alkaptonuria occurs as a result of the innate defect of tyrosine metabolism due to the homogentisic acid oxidase deficiency (enzymopathy), which causes the accumulation of homogentisic acid in the collagen structures of the body. Clinical manifestations of alkaptonuria are homogentisic aciduria, specific staining of conjunctival structures (ochronosis) and arthropathy of large joints. Cardiovascular disorders involving the aortic, mitral valve and coronary arteries in alkaptonuria are less common, and their incidence remains unclear.

**Case report.** In this clinical report, we present the case of a 57-year-old female, with a history of progressive blue pigmentation of the integuments, sclera and auricular cartilages, as well as hyperchromic urine, which the patient reports having it since childhood. Four years ago, the patient had total bilateral hip arthroplasty, and at the moment, presents with clinical signs of severe aortic stenosis and ischemic cardiomyopathy.

**Conclusions.** We will refer to the etiology, pathogenesis, diagnosis and possibilities of treatment during ochronosis discussion. In particular, we will describe the cardiac conditions detected in this case, the intraoperative findings and the results of the surgical treatment performed.

**Key words:** Alkaptonuria, autosomal recessive disease, blue pigmentation, aortic valvulopathy