CUTANEOUS OSTEOMAS IN A SEVEN-MONTH-OLD CHILD

P. Radulović¹, I. Pavić¹, L. Kotrulja², S. Ožanić-Bulić², I. Dediol²

¹Ljudevit Jurak University Department of Pathology, ²University Department of Dermatovenereology, Sestre milosrdnice University Hospital Center, Zagreb, Croatia

Cutaneous osteoma (CO) is a rare entity with only scattered cases reported in the literature. Cutaneous ossifications are divided into primary and secondary CO. Secondary CO accounts for 85% of cutaneous ossifications and develops within preexisting neoplastic or inflammatory skin lesions. Primary CO accounts for about 15% of cutaneous ossifications and develops on its own. A 7-month-old child, born as second trigeminus by cesarean section after IVF pregnancy, presented with incidental finding of multiple firm, nontender, subcutaneous pale-brownish papules scattered on the skin of the lower abdomen, arms and legs, measuring up to 7 mm. Changes were unremarkable in neonatal period. Changes became visible by the end of the fourth month of life. History specified no trauma, inflammatory changes, nevi, dermatologic or other significant medical conditions. Family history for CO or other associated diseases was negative. First punch biopsy (3 mm) obtained from the lower abdomen showed unremarkable epidermis but the dermis underneath showed well circumscribed spicules of mature lamellar bone entrapped mature adipose tissue without hematopoietic elements. Pathologist indicated CO. One month later, second 2-mm punch biopsy obtained from the left lower extremity confirmed CO indicated in first biopsy. Laboratory revealed elevated thyrotropin (TSH) up to 8.79 mIU/L (reference range: 0.4-4.0 mIU/L) and parathyroid hormone (PTH) up to 88 pg/mL (reference range: 15-65 pg/ mL). Other tests regarding thyroid hormone, calcium and phosphorous levels were unremarkable. Final pathology report of CO found in biopsies suggested three possibilities: Albright's hereditary osteodystrophy (AHO), Gardner syndrome and progressive osseous heteroplasia. CO as primary form can occur de novo in the form of multiple miliary osteomas, widespread osteoma or plaque-like presenting as a single lesion, both found in neonatal period. All previously mentioned osteoma changes have a good prognosis. Unlike previously mentioned states with CO, AHO-

psuedohypoparathyroidism type 1a has poor long term prognosis, where besides CO it manifests with obesity, developmental disability, short stature, round face and ganglia calcification. In our case, laboratory findings supported by histology suggested the AHO syndrome, although the phenotype-associated symptoms of disease were not present yet in infancy. Further follow up is needed. The initially mild cutaneous manifestations may herald a more progressive ossification disorder, as it could be associated with multiple endocrine hormone resistance enhanced with neurobehavioral and developmental problems. Treatment of the present underlying disease is the first step. If the patient is symptomatic, surgical excision including punch excisions is currently the treatment of choice for CO.

COMBINED CARCINOID AND LOW-GRADE MUCINOUS NEOPLASM OF APPENDIX: CASE REPORT

T. Džombeta¹, C. Lež², F. Szerda³, B. Krušlin^{1,4}

¹Department of Pathology, School of Medicine, University of Zagreb; ²Department of Pathology, ³Department of Surgery, Zabok General Hospital, Zabok; ⁴Ljudevit Jurak Department of Pathology, Sestre milosrdnice University Hospital Center, Zagreb, Croatia

Mucinous tumors and carcinoids are the most common appendiceal neoplasms, but overall, they account for approximately 1% of all pathologic conditions in appendicectomy specimens. They usually appear as an incidental finding in appendices removed due to suspected acute inflammation. Synchronous occurrence of these neoplasms is extremely rare and only a few cases have been reported in the literature to date. We present a case of combined low-grade appendiceal mucinous neoplasm and carcinoid in a 25-year-old female patient. The patient was admitted to the hospital due to abdominal pain. Ultrasonography showed a tumor mass near the right ovary. Diagnostic laparoscopy was performed and enlarged appendix, but no adnexal abnormalities, was found. The appendix was removed and referred for pathology. Grossly, the appendix was enlarged and filled with mucinous material. Histologically, it contained two distinct tumor areas. The mucinous component, confined to mucosa and submucosa, was composed of mucinous-type tall