SKELETAL CYSTIC ANGIOMATOSIS: STABILIZATION DURING BISPHOSPHONATE TREATMENT

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Cystic angiomatosis is a rare condition of disseminated multifocal hemangiomatous and/or lymphangiomatous lesions of the skeleton with possible visceral organ involvement. The cause of this condition is unknown. Patients with cystic angiomatosis may remain asymptomatic or experience bone pain, even in the absence of pathologic fracture. In the present study we described a 20-year old men, in otherwise (x) cellent health, had a 2-year history of cervical and dorsal back pain. Radiographs of the column showed the presence of multiple cystic lesions in the cervical, dorsal and lumbar vertebra! 500 /. A triple-phase whole-body bone scan demonstrated focal increased up trike within, with no oth a abriormalities. Destruction of bone was confirmed by CT scans an ! MRI scans showed angio natious soft tissue formation. A bone biopsy specimen appeared as a timp a cys or multiple communicating cysts. Serum calcium and phosphorous levels PTH and Vitamin 2 metabolites at the presentation were within the respective rangers. Serum bone all alline phosphatase was all valid (31.4 U/L; reference range 10-25) and desoxypiridinoling (DFD) in the normal range. For additional studies, we assessed the serum concentrations of the cstepic astic regulators as enprovedent (OPG) and osteopontin (OPN) at the baseline and during the follo y-up by ELISA (R&D System, USA; Immundiagnostik, Germany). At the baseline OPN and OPG levels were high (OFN:13±0.5 ng/ml reference value: 5.9±0.6 and OPG 125±0.34 pmol/ml reference value 0-30). Patie t stalled an intravenous bisphosphonate infusion (30 mg pamidronate) every month. A follow up after 6 months therapy showed an improve of mobility and back pain of the patient. Imaging tud as including conventional X-ray and CT scans after 3 and 6 months of treatment did not show and progression of bone destruction. After initiation of bisphosphonate tretment serum bone alkaline phosphatase levels normalized. In addition OPN and OPG decreased significantly. In conclusion, an immediate clinical improvement of local pain, an improvement of metabolic resorption and a stable clinical, radiological picture during the first 6 months of follow-up suggests effectiveness of pamidronate treatment alone. Longer-term follow-up and additional studies employing bisphosphonates in skeletal cysitic angiomatosis will help to evaluate this therapeutic approach in further detail.