Subpontic osseous hyperplasia (SOH) is an ectopic growth of bone occurring on the edentulous ridge beneath a fixed partial denture. The aim of this article is to present three patients with SOH with long-term follow-up and to make a current overview of the literature. Presented maxillary SOH is the second case in the dental literature. Intraorally the lesions were bone-hard and painless swellings in the subpontic space. Radiographically, the maxillary case was a nodular bone growth having similar radiodensity and trabeculation to the adjacent bone with a thin radiopaque border. Mandibular cases were bony growths, which were more radiopaque than the adjacent alveolar ridge. Follow-up radiographs revealed regression in two of the cases. Clinicians should take care not to cause the possible etiologies of SOH such as functional stresses and chronic irritation by the prosthetic treatments and be aware of SOH does not usually require treatment or a biopsy.