INTRODUCTION: Biodentine™ was developed by Septodont® as a new dental material. Its chemical composition is based on Ca₃SiO₅, which gives it a good bio-activity compared to MTA™, another well-known endodontic restorative cement.

OBJECTIVES: To analyse the literature and present the results about the proprieties of Biodentine™, comparatively with MTA™.

MATERIALS AND METHODOLOGY: Examination of the literature obtained conducting searches on PubMed, with the key word "Biodentine". Criteria for inclusion: case-studies and research articles comparing Biodentine™ with other materials, written in English and published between 2013 and 2016. Further references were obtained by examining the references on the selected literature. A total of 105 articles were analysed.

CONCLUSIONS: Biodentine™ is an alternative to MTA™ in endodontics, restorative dentistry and odontopediatrics. Long term studies are necessary to verify its longevity and effectiveness.