Abstract: Enamel decalcification in early stages of clinical appearances calls white spot lesion (WSL) are common problem in groups of people with low oral hygiene practice which increase the likelihood of plaque accumulation this in turn leads to demineralization of enamel. One of the historical methods for increasing the resistance of enamel against the demineralization is the application of fluoride to the tooth surfaces. Laser is known almost new field in dentistry and could be used in different branches of dentistry such as hard tissue or soft tissue procedure. In this regard the new method is the application of laser that cause increasing the resistance to caries. there are several theories that representing about how laser irradiation could increase the enamel resistance against the remineralization. several studies have been performed in this field and demonstrated the effect of various laser on enamel. there are different factors that should keep in mind to achieve the high resistance and maximum benefit of laser application such as selection of appropriate type of laser. Adjusting of optimum power in laser application and laser irradiation in wet or dry condition that will be discussed in this article.