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**Lecture synopsis: Low level laser therapy (LLLT) in dentistry**

Low level laser therapy (LLLT) is an evolving science and has been proved to be an effective adjunctive treatment modality in dentistry. This presentation provides an outline of the biologic mechanism of LLLT and summarizes various applications in oral medicine, such as the diagnosis of oral precancerous lesion, treatments of recurrent aphthous ulceration, erosive oral lichen planus, pemphigus vulgaris, oral mucositis, burning mouth syndrome, xerostomia, etc. While LLLT is steadily moving into mainstream medicine, further scientific evidences, high quality clinical trials, and international clinical guidelines are still be needed to confirm the effectiveness and credibility of LLLT.