Title: Introduction of different types of light units in dentistry

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Abstract: The goal of this article is to introduce and give more information about light cure units so that dentists can have better selection and more effective clinical use of light cure units.

Light cure resins have an important role in modern dentistry. Light cured resins do not set until light of suitable wavelength and intensity is applied so it is essential to take care about principles of resin polymerization. Successful curing depends directly on many factors of which the most important is the correct functioning of the curing unit to emit light of sufficient intensity and quality. 4 types of light cure units are used for light polymerization in dentistry:

1. LED
2. QTH
3. PAC
4. ARGON LAZER LAMPS

Results: The most intensity is for ARGON LAZER UNIT and the least is for LED. The most common light sources used in dentistry to photo-activate composites is quartz-tungsten halogen and blue LED (light-emitting diode). Light-emitting diodes have fewer maintenance problems than halogen bulbs generally but must be checked for decreased power density owing to accumulation during long curing times.

light cures, resin, polymerization

Presentation: Oral