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Light Curing Within Dentistry

## Outline

- Background/History
  - What kind of light? – Wavelength
- Intro to Composite Resin
  - Resins
  - Fillers
  - Flowable vs. Packable
- Types of Light Curing Units
  - Plasma Arcs
  - Lasers
  - Tungsten Halogen
  - Light Emitting Diodes
- Science of Light Curing
  - Polymerization Failure
    - Irradiance
    - Curing time/regimens
      - Conventional Technique
      - Slow Start Techniques
    - Wavelength/bandwidth
      - Photoinitiators
- Risk of Ocular Damage
- Curing Light Maintenance
  - Infection Control
  - Regular Testing
  - Cleaning
- Qualities of an Ideal Curing Light

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