

Operatory Aerosol Control Guide

Aerosol-generating procedures happen in the smallest rooms in outpatient care. Continuous UV-C air treatment turns room air over every 10-15 minutes during the appointment instead of only after it.

Placement in small treatment rooms

- Operatory: one or two 2'x2' UV-C troffers, centered over and behind the chair
- Exam room: one 2'x2' troffer, offset from the supply diffuser
- Hard-lid ceiling: wall-mounted unit at breathing-zone height, opposite the door
- Corridor and sterilization area: linear fixture or sconce

Coverage for rooms under 200 sq ft

- Design target: 4-6 air changes per hour
- 100-140 sq ft operatory: typically one fixture
- 140-200 sq ft: typically two fixtures
- Confirm against ceiling height and existing mechanical supply

Patient-facing explanation script

- "The light above your chair also cleans the air."
- "Room air is pulled through a sealed chamber of UV-C LEDs and returned clean."
- "It runs continuously, while you're in the chair."
- "The UV light is fully enclosed — it never reaches you."

Front-desk FAQ answers

- Is UV safe? The UV-C source is sealed inside the fixture; no light exits the housing.
- Does it replace ventilation? No — it adds continuous treatment on top of your HVAC.
- Do we still follow clinical wait guidance? Yes; follow your governing guidance.
- Any filters? None. LEDs are rated in years and a service light signals maintenance.

Claims discipline

- Describe what the system does mechanically
- Do not quote infection-rate reductions your practice has not measured
- Keep the emphasis on continuous, enclosed operation