

SECTION II

PURPOSE OF THIS STUDY

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The main objectives of this project are:

- Use airflow modeling to evaluate the effects of the following parameters on minimizing the risk from airborne organism in isolation rooms:
 - Ventilation flow rate
 - Supply temperature
 - Types of Ventilation system
 - Baseboard heating
 - Pressurization of the room
 - Location of UV fixture
 - Power of the UV output

- Assess the effectiveness of:
 - Removing bacteria via the ventilation system
 - Killing bacteria with U-V.

- Provide an architectural/engineering tool for good design practice that is generally applicable to conventional isolation room use