



Evaluation of Safe Decontamination Strategies in Trainee Dormitories

U.S. AIR FORCE

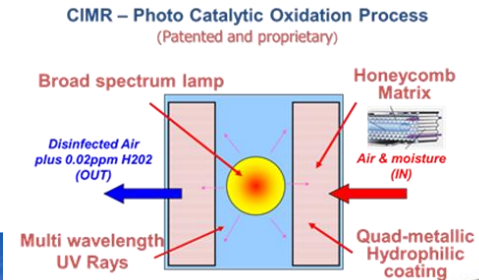
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Problem, Hypothesis & Military Relevance:

Problem: Asymptomatic individuals can still shed infectious virus into ambient air and increasing rate of infectivity

Hypothesis: Does the use of H₂O₂ air purification systems decrease the number of respiratory-like cases and loss of training days in high-traffic facilities like trainee dormitories through a reduction of infectious pathogens in ambient air and surfaces?

Military Relevance: This project addresses the following capability gaps: 163 Chemical, Biological, Radiological, Nuclear Defense (CBRN) Decontamination, 312 Enhanced Force Health Protection and Austere Support



Proposed Solution:

SPECIFIC AIMS/OBJECTIVES:

1. Compare and contrast population trends (surveillance) among ATC/RH&T dormitories with the portable CIMR air purification system and similar dormitories with no portable CIMR air purification system
 - a) Population-based Outcomes of Interest
 - i. Incidence of reported respiratory illness
 - ii. Number of lost training days
 - iii. Gender % differences (male vs female)
2. Determine the cost of lost training days pre-COVID and during pandemic.

Timeline and Total Cost (direct and indirect)

Activities	FY20	FY21	FY22
CIMR Acquisition and Staff Hire			
Data Collection			
Analysis			
Final Report			
Estimated Total (\$K)	\$550k		

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