

Mission Next

FOUNDATION

Independent Shared Air Strategic Research Board (ISASRB) Layered Protocols

Version: 3.23.21

Emerging Concepts	LAYER 8	INTEGRATE PROTOCOLS INTO EMERGING SOCIETAL MACRO TRENDS Ensure all-hazard pathogens protection and indoor air quality protocols are responsive to broad societal demands.
	LAYER 7	IDENTIFY AND ANALYZE EMERGING TECHNOLOGIES Identify and analyze emerging technologies for combatting all-hazard pathogens and enhancing indoor air quality.
	LAYER 6	DEPLOY ADD-ON TECHNOLOGY TO CURRENT AIR HANDLING SYSTEMS Consider ionization technologies (stand-alone or integrated into heating, ventilation, and air conditioning systems). Consider low level ionized hypochlorous acid.
Engineering Controls	LAYER 5	INTRODUCE ADVANCED PATHOGEN SCAVENGING TECHNOLOGY (ACTIVE AND PASSIVE) Consider deploying non-ozone producing photocatalytic processes (stand-alone or integrated into heating, ventilation, and air conditioning (HVAC)). Consider emerging surface resistant coatings.
	LAYER 4	OPTIMIZE BALANCED CONTROL OF EXISTING AIR HANDLING SYSTEMS (UPGRADE AS NEEDED) Consider more aggressive HVAC system maintenance by professionals. Consider monitor and correct humidity level. Consider introducing positive pressure filtered fresh air supply. Consider ongoing monitoring of indoor air quality for optimal conditions to resist respiratory pathogen spread. Consider high-efficiency particulate air (HEPA) filtration with consideration of terminal pathogen killing (e.g. ultraviolet light).
	LAYER 3	EXECUTE IMMEDIATE ACTION TO PREVENT/MINIMIZE AIRBORNE SPREAD Consider increasing air turnover using HVAC system. Consider installing physical barriers. Consider providing directional air flow as a virtual barrier. Consider surveying/mapping/mitigating air flow hazards in high-risk public indoor spaces.
Informational and Administrative	LAYER 2	INTEGRATE CURRENT CDC AND PUBLIC HEALTH GUIDELINES Integrate current CDC and Public Health recommendations while reinforcing the importance of education and personal responsibility to protect the community.
	LAYER 1	EDUCATE THE COMMUNITY The American people are smart and care for each other. Therefore, education is the foundation to understanding potential threats posed by COVID and other infectious pathogens and how to mitigate individual and community risk. Deploy an effective multimedia education plan tailored to specific sectors of the public which informs and encourages individuals on appropriate actions. Reinforce educational messaging using influential and trusted members of the community.
	LAYER 0	GATHER CURRENT RESEARCH, ANALYSIS, AND SYNTHESIS Utilize an Adaptive Planning and Execution (APEX) model to assess credible information, analyzing it with a cross functional team of subject matter experts, community leaders, private enterprise, and public officials to develop effective, affordable, and sustainable models which provide strategic guidance to community stakeholders. Ensure that all recommendations are safe and effective based on the best available science at the time of creation. Assume an action-based mentality such as utilizing an Observe, Orient, Decide, Act (OODA Loop) model for rapid and continuous improvement as knowledge and best practice advance.

Copyright © 2021 Independent Shared Air Strategic Research Board. The Independent Shared Air Strategic Research Board (ISASRB) is a non-profit, non-partisan, volunteer board of medical and public health professionals, scientists, air quality experts, application engineers, architects, educators, strategic planners, and private citizens working collaboratively to develop creative strategies to protect shared air in the United States of America. This document is placed into the public domain under the Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License to encourage dissemination and build a coalition to protect shared air. Comments and suggestions for improvement are welcomed as part of the ongoing scientific process.

*All protocols are subject to change based on emerging science and practice. Visit mission-next.com/irb for latest protocol version

Contact: Mission-Next LLC
426 S. Lamar Blvd., Suite 13
Oxford, MS 38655
mission-next.com

426 South Lamar Blvd, Ste 13 Oxford, MS 38655