



## COVID HVAC Study FINDINGS

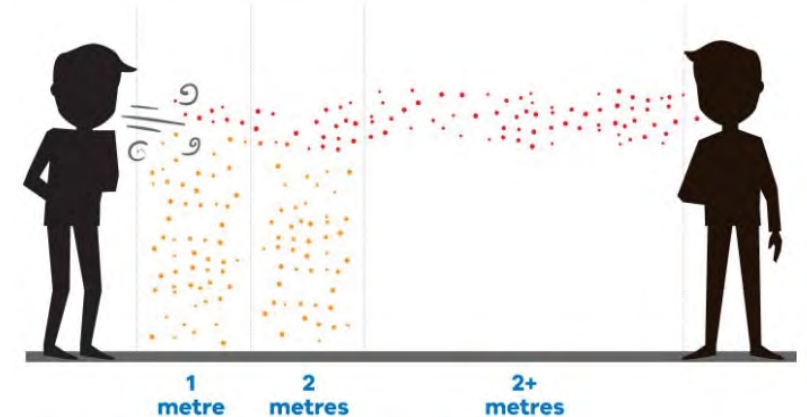
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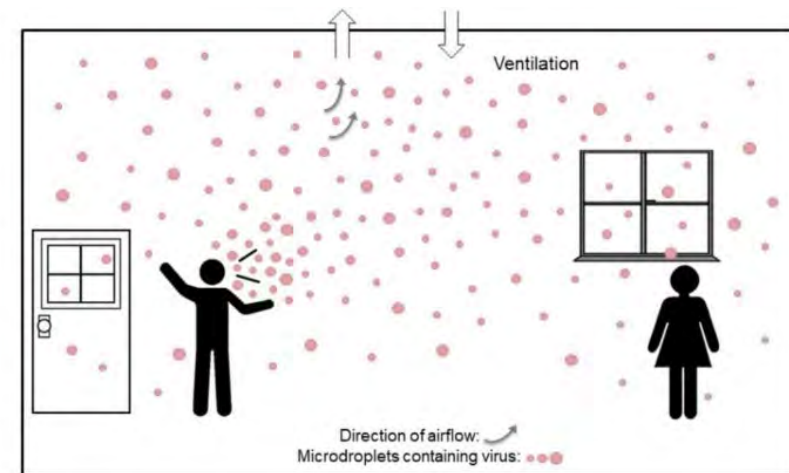
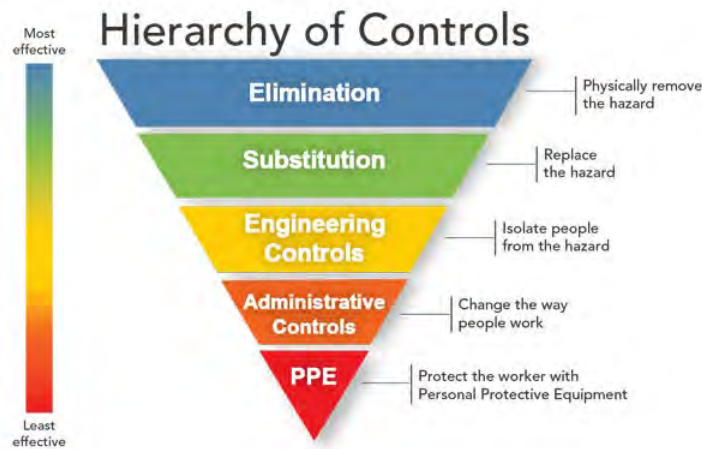
# A.G. Coombs & managing COVID

- Started A/C systems earlier and turned them off later
- Purged our office spaces where possible
- Measuring airflow rates and re-balancing our a/c systems in each area
- Upgrading filters
- Installing air purification units where appropriate
- Ensuring adequate spacing (1.5m), personal hygiene, hand sanitisation stations, temperature checks, masks and a daily questionnaire



# Proposal Overview & Methodology

- On-site review of spaces
- Review of installed HVAC systems with on site service technicians
- Review of plant control
- Assessment of design metrics (ventilation, filtration, air change rates, air diffusion & air patterns)
- Review of systems with regard to the government guidelines
- Identification of relevant strategies for the spaces and system types


















# Key Findings

- Upgrade of air-conditioning plant filters
- Modification to the HVAC plant control strategies (extend hours of operation, increasing outdoor airflow via dampers, increasing ability to operate economy cycles)
- Ensure operable windows can be fully opened (training of users to utilise these windows)
- Survey of various system outdoor airflow and supply airflow rates and recommission of airflow rates to increase outdoor air where practicable
- Review of installed HVAC systems with on site service technicians
- Purchase of air purification units (HEPA units) to high occupied areas or where other measures cannot be implemented

# Implementation



  
**P** Planning / **E** Executing / **C** Complete

Status	Berwick	Churchill	Mt. Helen	SMB & Camp St	Brisbane	Horsham	Comments
Ventilation Audits							
Replace Air Filters							Replacements have commenced, however high demand for filters Australia-wide has delayed installations.
Air Purification Units							Distributed as recommended in the audit.
Openable Windows Audit							
Window rectification works					N/A		
Survey of Air Flows							
Building Management System modifications							
Calibration checks							

# Questions / Open Forum

Alternatively, please direct any questions or concerns:  
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