

Medihood McMonty Summary



The Problem:

- As a result of the global COVID-19 pandemic, many hospitals found themselves with the problem of insufficient access to the negative pressure rooms needed to isolate infectious patients.
- Adequate isolation is essential to ensure that healthcare workers (HCWs) and patients do not become infected. In Victoria alone there were 3561 HCW COVID-19 infections in 2020.

The solution:

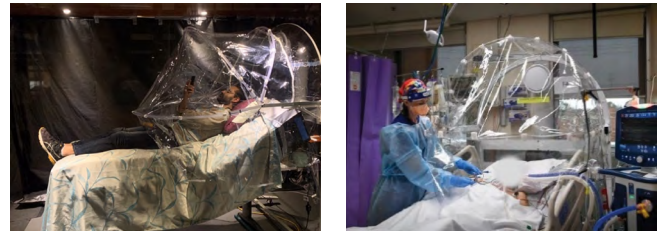
- The McMonty is a personal ventilation hood, i.e. a portable solution to negative pressure room. It's made up of 3 main components – a mobile frame, a transparent hood placed over the patient and a fan-filter exhaust unit. It's development was strongly supported by the Australian Government and a number of hospitals across the country that took part in a multi-site clinical trial.

How It Works:

- A transparent, pram-like hood contains expired aerosols, which are then drawn out by an extraction unit and filtered through a H13 HEPA filter.
- The transparent hood has flaps on the sides to allow access to the patient while maintaining a physical barrier between the infectious environment inside and the HCW outside.

The Benefits (to HCWs, patients and overall health system):

- Positive mental health outcomes in HCW from minimising stress of potential exposure.
- 100% of staff respondents to a questionnaire reported preferring the use of the hood to standard care; 98% recognised the hood's ability to prevent cross-contamination
 - A nurse in one Melbourne hospital returned to work from maternity leave early during the second wave of COVID in 2020, noting that she felt safe and protected by the McMonty when dealing with infectious patients.
- Hospital acquired infections such as COVID-19, Tuberculosis and Measles are minimised through containment and filtration of aerosols.
 - 277 COVID-19 patients hospitalised in VIC up to 15 November 2020 acquired their infections in hospital.
- With McMonty unit pricing being below AU\$6,000 per unit, if it prevents just one single additional bed-day in almost any ICU it will have nearly paid for itself and mean that a bed will then be available to another patient.
- The product range has been specifically designed to minimise resource consumption, especially when it comes to hospital budgetary and staffing constraints.



The Medihood McMonty is an additional, non-invasive layer of protection that – with adequate consideration and planning – will be invaluable in helping to save lives.

With many HCWs experiencing continued complications from long-COVID contracted 6+ months ago, implementing a simple device like the McMonty has had serious, long-term benefits for all stakeholders in over 100 hospitals around the country.

The McMonty is now part of the VIC Government guidelines on reducing transmission of COVID-19 in acute healthcare settings (<https://www.dhhs.vic.gov.au/department-health-coronavirus-covid-19-policy-doc>).

QUICK FACTS:

- >100 air changeovers per hour
- H13 HEPA filter
- 99.98% reduction in aerosols when administering high aerosol generating procedures
- Two sizes available
 - Narrow (<1000mm bed width)
 - Standard (>1000mm bed width)
- Portable
- ARTG Listed (342670; 342671)
- Easy and quick to set up and pack away
- Australian Manufactured and Owned
- Created by Melbourne University and Western Health

