



KUTITJI

Mobile Isolation Unit

Control airborne infections acquired in
healthcare settings

Controlling airborne infections is a critical health and safety issue faced by hospitals and aged care organisations around the world.

The KUTITJI mobile isolation unit is an engineered environmental detoxification device that reduces the transmission of airborne infections and thereby create safer healthcare environments for staff and patients.



HEALTH
FORGE



Hospitals and aged care facilities are vulnerable to airborne infections

HAIs (Hospital Acquired Infections) in healthcare workplaces continue to be unacceptably high despite COVID safe practices, vaccinations, and PPE protocols.



Healthcare workers deserve better protection

The transmission of airborne infections is predominantly caused by occupational reliance on health PPE, such as face masks. According to the hierarchy of protection controls, PPE is the least efficient form of protection in preventing the spread of infectious pathogens. Airborne infections are exacerbated by building ventilation systems, which spread pathogens to other rooms.

Hospitalised patients typically spend most of their time in bed or next to their beds, usually more than two metres apart, with only a curtain separating them from other patients.

Aged care patients and people with a disability are at risk of contracting airborne infections due to their physical immobility and their permanent close proximity to others.

KUTITJI Mobile Isolation Units for beds and chairs will improve occupational health and safety for healthcare workers and patients.

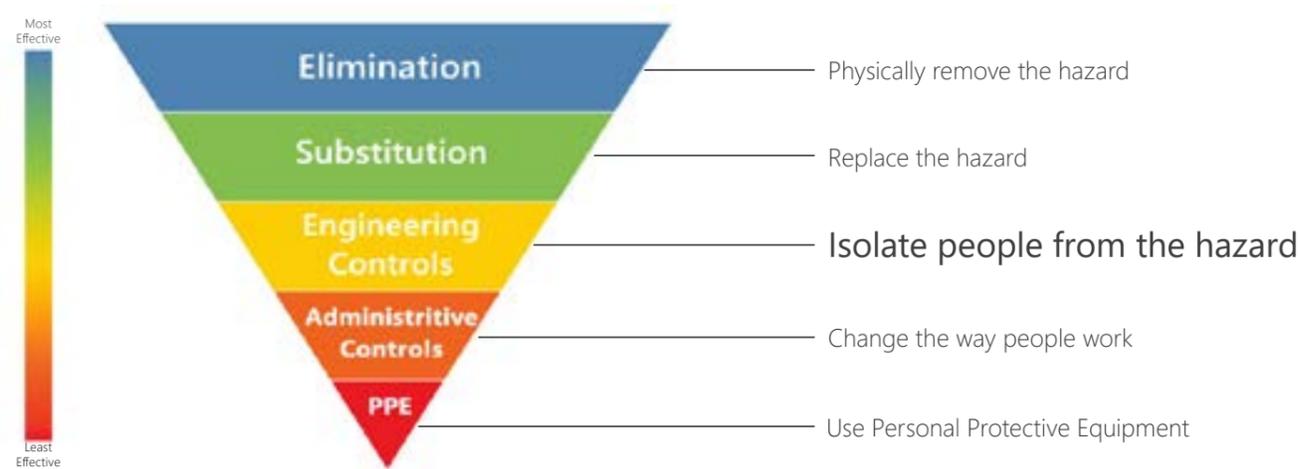
- KUTITJI Mobile Isolation Units can be used for:
- helping hospitals and aged care facilities to safely operate at and beyond surge capacity.
 - scalable deployment in a multitude of occupational environments.
 - improving infection control protocols.



Engineering new safety standards

Engineering controls create a safer workplace

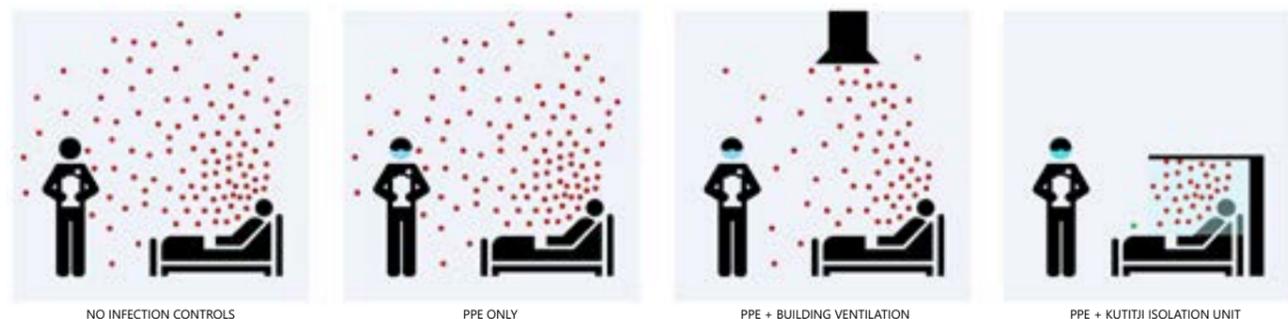
As outlined by the [Australian Department of Health in May 2021](#), the hierarchy of protection controls illustrates how engineering controls that isolate people from the hazard are more effective and reliable than PPE.



Hierarchy of protection controls

Mobile Isolation Units are a game changer

KUTITJI Mobile Isolation Unit improve workplace safety by creating an isolated enclosure around patients and filtering up to 99.95% of harmful pathogens before they can be transmitted into the room where workers and other patients are present.



KUTITJI Mobile Isolation Units For beds and chairs

During a global pandemic it is not uncommon for institutions to be operating at or beyond surge capacity. In instances like COVID-19 where the causative organism is a respiratory virus, expansion of safe and efficient hospital isolation capacity is crucial.



Functional design
reduces OPEX



Relieve work
related stress



Control aerosolised
pathogens



Efficiently manage
patient overflow

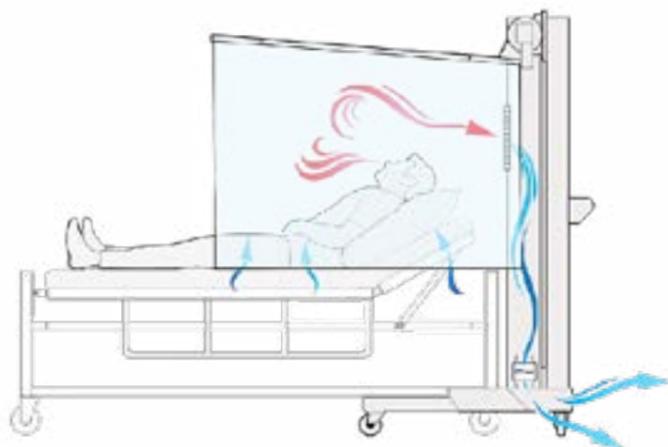
**Safe and efficient expansion of
hospital isolation capacity**

Medical grade device

Through extensive consultation with healthcare professionals, Health Forge has set a new benchmark of excellence in the control of airborne infections. The design incorporates advanced manufacturing techniques, lightweight powder coated aluminium chassis and control technologies to achieve a safe, ergonomic and intuitive user experience.



- Fail safe redundancy built into design
- Motorised canopy and leg extension
- Full patient visibility
- Patient access slit
- Intuitive pendant control
- Easy to clean and operate
- Re-usable or disposable curtain
- Compact mobility
- Compact storage



- Controlled negative pressure enclosure isolates patients
- H13 HEPA filter removes up to 99.95% of infectious pathogens from airflow
- Dual speed air extraction returns safe and clean air into clinical environment

Improving airborne infection control in healthcare settings

How to use

The engineered device is a compact mobile unit that can be rolled into place and used over beds or chairs. The transparent canopy enclosure mechanically deploys around the patient. Extraction fans maintain a controlled negative pressure environment within the enclosure with the infected air filtered through H13 HEPA filters to remove harmful pathogens before it is returned to the ward.

Flexible, scalable and affordable

KUTITJI can be deployed in a multitude of occupational environment and will help healthcare organisations to safely operate beyond surge capacity in the following settings:

Hospital wards
Quarantine
Palliative care
Residential aged / disability care

Dialysis treatment
Emergency departments
Oncology
Intensive care units

Cost effective

- One twentieth of the cost compared to in-situ isolation rooms
- Durable construction that maximises life span
- Reduced maintenance and consumable costs
- Reduced operating costs

COMPLIANCE

The KUTITJI Mobile Isolation Unit is considered environmental detoxification equipment under schedule 1, clause 12 of the TGA Excluded Goods Determination and as such does not require TGA registration.

Designed to ISO 13485 and ISO 14971



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