SHARKMEDICAL INNOVATIONS

ShareGuard99®

New standard for controlling infectious respiratory particles in healthcare facilities

Isolate and purify

The ShareGuard99® is an innovative medical device for respiratory infectious patient isolation. It is designed to **reduce and prevent the transmission of respiratory diseases in healthcare facilities** by reducing the spread of aerosols and droplets generated by the patients and treatment measures (e.g., suction of mucus, non-invasive ventilation, etc.). It is **compatible with other care equipment**, such as oxygen therapy and patient monitoring devices.

CE Standardised and qualified medical device in Europe

SHARK MEDICAL

Nordic Quality

The ShareGuard99® is a medical device developed and manufactured in Finland by the top professionals in their field. It has been granted the Design From Finland label as proof of **professional, responsible and user-centric Finnish design.** Companies that have received the label communicate openly about the structure of their production chain and the country of manufacture. In addition to high quality standards, Nordic design is known for its simplistic and uncluttered appearance, both of which are present in the ShareGuard99®.

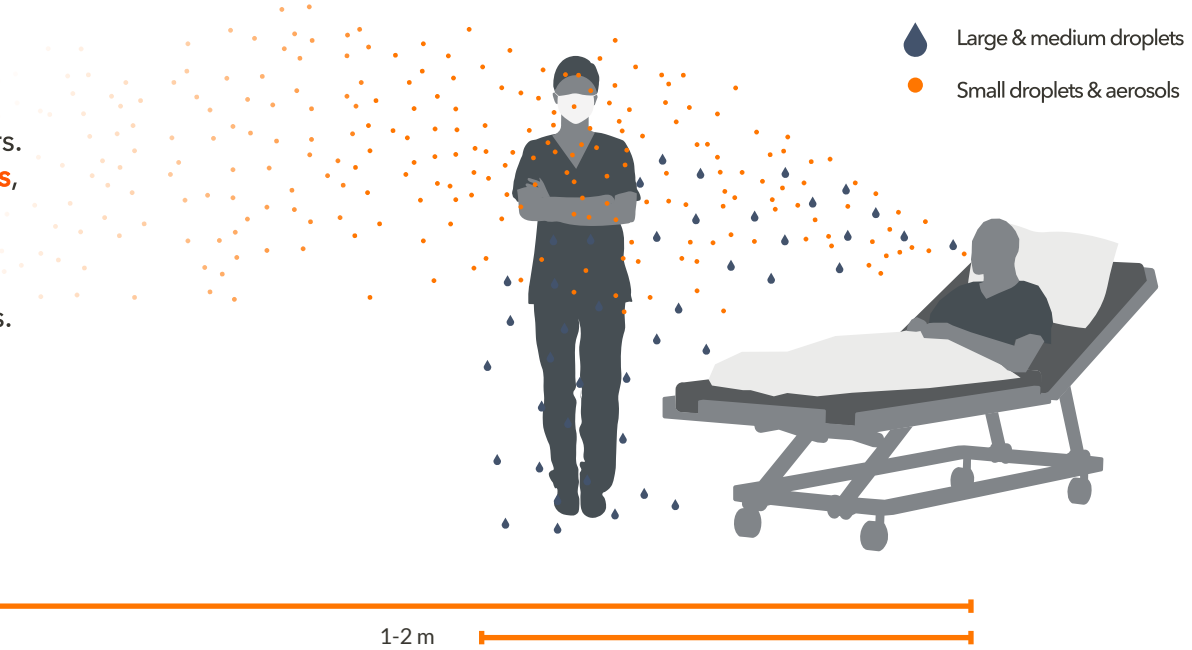
DESIGN FROM FINLAND

SHARKMEDICAL

Infectious respiratory particles can stay airborne for several hours

Infectious viruses are enriched in small particles, where they can stay airborne for hours and travel several meters. These particles are able to travel furthest into the airways, causing infection.

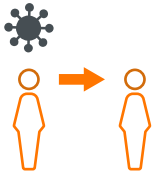
The majority of particles caused by respiratory activities (such as breathing, speaking and coughing) are aerosols. For instance, speaking produces 100–1000 times more aerosols than it does droplets. [1]



1 DOI: 10.1126/science.abd9149

Prevent over 99% of infectious respiratory particles from ever entering the room air

The ShareGuard99® air purifier and isolation system is proven to prevent > 99%[2] of infectious respiratory particles from entering the room air, **equivalent to FFP3.** This has major benefits:

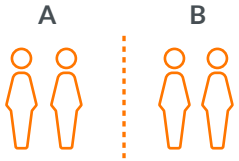


REDUCE TRANSMISSION

ShareGuard99® significantly reduces the risk of infection via airborne transmission, compared to standalone use of PPE.

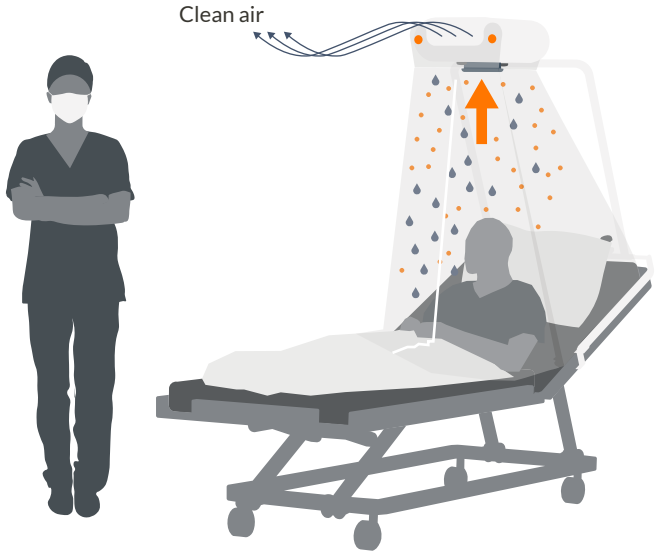
PATIENT PRIORITISATION

Allows airborne infection isolation rooms to be kept available e.g. for immunosuppressed patients.



REDUCE COHORT

Cuts down the need for cohort and allows for better utilisation of space and human resources.



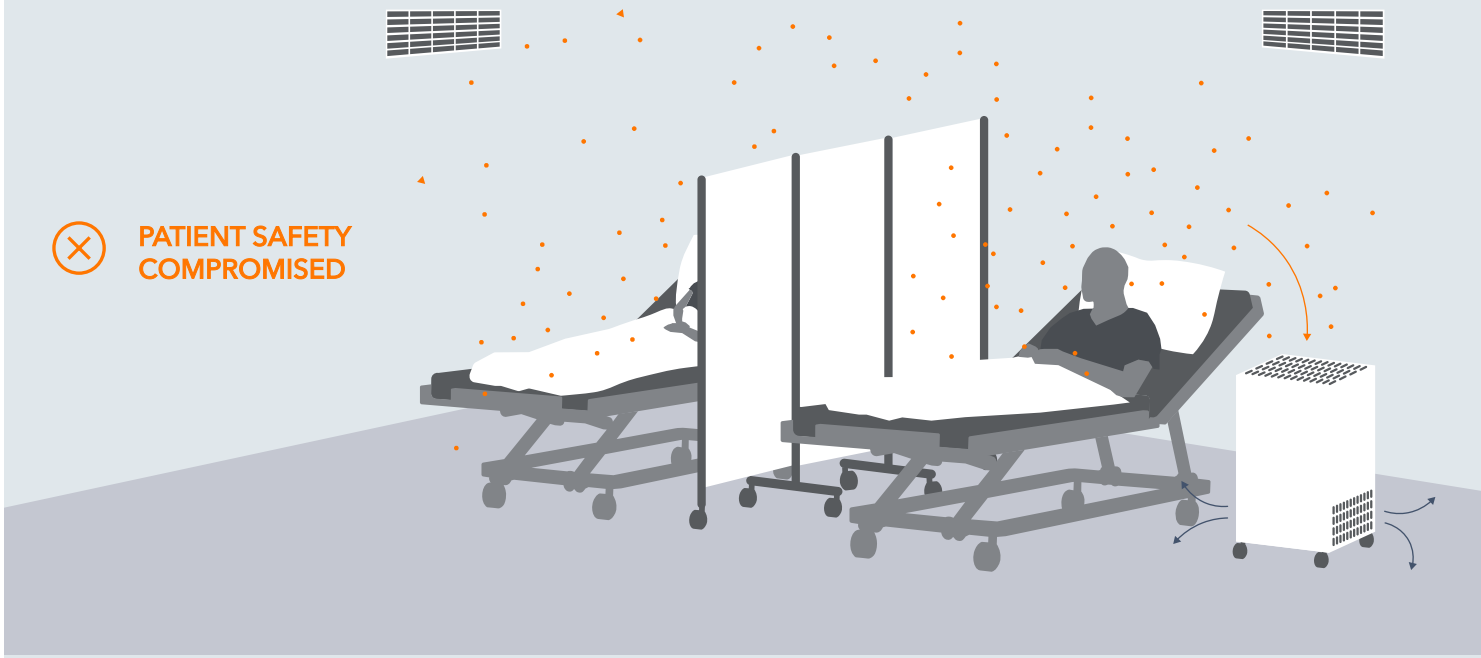
2 Based on the analysis performed by VTT, report: VTT-CR-00531-22

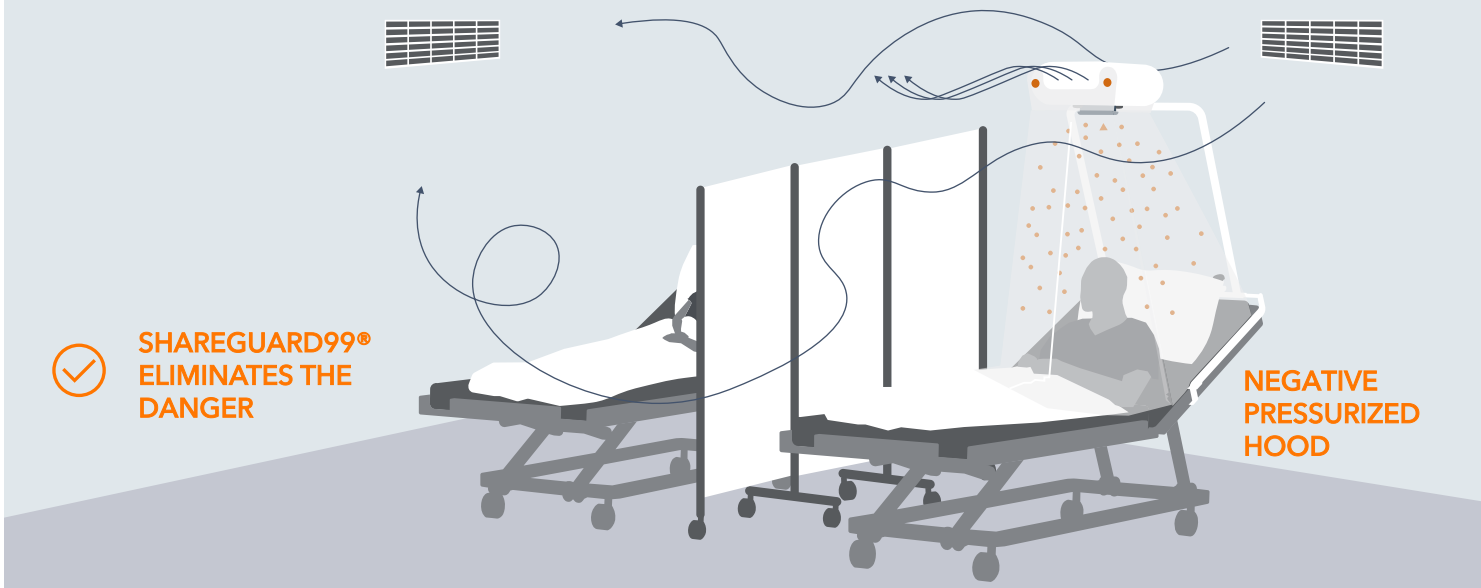
SHARKMEDICAL

Air is unpredictable

It is almost impossible to predict the actual flow of air currents. Even a small change in space (moving around, moving furniture, opening a door) causes turbulence, which invalidates even the most informed estimations and air flow simulations.

This issue doesn't exist with the ShareGuard99®, as it **completely prevents infectious respiratory particles from entering the room air.** Changes in the room have no effect on the effectiveness of the ShareGuard99®.



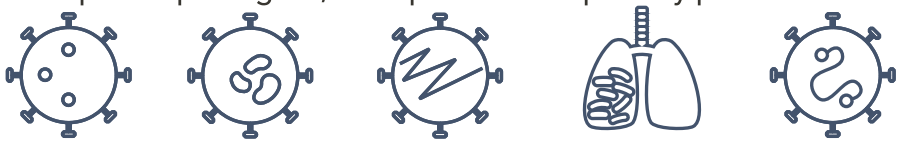


SHARK MEDICAL

The highest level of infection control

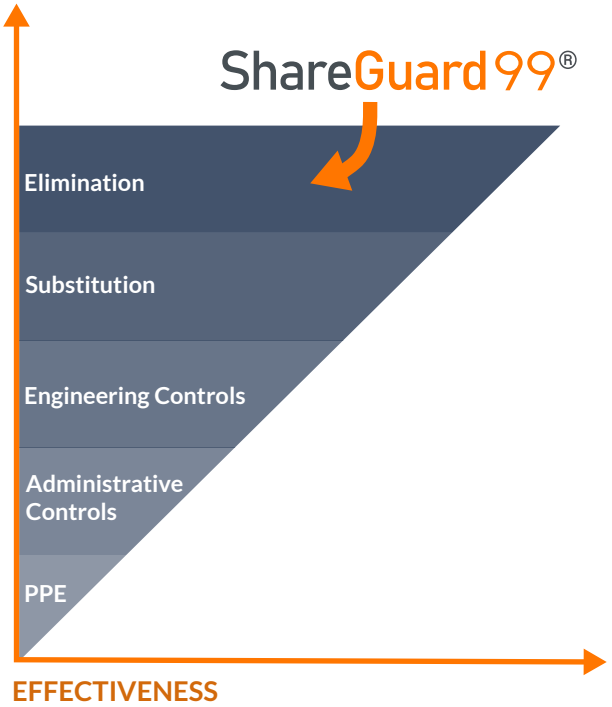
The highest level of control over a hazard is achieved by entirely eliminating the hazard. The ShareGuard99® does this by both **isolating the source** (the patient) and **actively removing** the infectious respiratory particles and preventing them from accessing the room air.

Examples of pathogens, that spread via respiratory particles:



SARS-CoV-2 | Influenza virus | Measles virus | Tuberculosis | RSV

Hierarchy of Controls:



SHARKMEDICAL

EASY TO USE

Intuitive and simple functionality.

SAFE DESIGN

Non-obtrusive and rounded design allows for safe patient care. Easy removal for emergencies.

HIGH QUALITY

Standardised and qualified medical device.

LOW TO NO MAINTENANCE

6 months continuous run time.

HIGHLY EFFICIENT

Purifier with > 99% capture efficiency and > 99.95% filtration efficiency.

INDEPENDENTLY TESTED

Documented effectiveness, tested by one of Europe's leading research institutions.[2]

ADJUSTABLE

Fits onto hospital beds that are 510-900 mm (20,1''-35'') in width.

QUIET

At 49 dBA the ShareGuard99® is as quiet as a standard refrigerator.

PROFESSIONAL

Developed by a team of medical device experts and health care professionals.

SHARK MEDICAL

Easy to use and maintain

The ShareGuard99® requires **minimal maintenance** on a day-to-day basis and can run continuously for **6 months** until the filter needs to be replaced.

DAY-TO-DAY USE

1 The frame is installed to the bed frame.

2 A single-use hood is attached to the air purifier unit.

3 The ShareGuard99® is used to isolate an infectious individual as long as needed.

4 The hood is removed and the ShareGuard99® is cleaned.

SHARK MEDICAL

Specifications

Dimension
W 51–90 cm x L 84.3 cm x H 134.4 cm
(W 20.1''–35.4'' x L 33.2'' x H 52.9'')

Net weight
13.9 - 16.5 kg
(30.6 - 36.4 lbs)

Capture efficiency
> 99% (equivalent to FFP3)

Filtration efficiency
> 99.95%

Electrical specifications
Operating voltage 12 VDC
Power supply input 110-240 VAC, 50/60 Hz Power max 42 W

Filter type
HEPA 13

Filter change frequency
Every 6 months

Relative noise level
Normal mode 49 dBA,
Boost mode 57 dBA

Operating temperature
15 °C to 35 °C (59 °F to 95 °F)

Storage/transport temperature
-10 °C to 35 °C (14°F to 95 °F)

Warranty
1 year

CE compliant
CE RoHS Compliant

Intended use
ShareGuard99® is a medical device intended to protect the medical staff and other patients from infectious airborne diseases by reducing the spread of aerosols and droplets caused by the patient and treatment measures (e.g., suction of mucus, non-invasive ventilation, etc.). ShareGuard99® is intended to be used in situations where a patient is suspected or confirmed to have a disease that can be spread either through droplets or air. It should only be used by healthcare professionals in healthcare facilities for conscious patients of 12 years or older, capable of using both of their hands.

SHARKMEDICAL

Contact us

Sharkmed Oy
Martinsyrjäntie 8 A3
05810 Hyvinkää
FINLAND

CUSTOMER SERVICE:

email: customerservice@sharkmedicalinnovations.com
+358 (0)19 414 581

CLS SURGICAL

www.cls-surgical.com

CLS Surgical Limited
123a Allerton Road,
Mossley Hill,Liverpool
L18 2DD

0151 733 1900

customerservice@cls-surgical.com

SHARK MEDICAL

We are on a mission to help professionals save more lives, more efficiently and safely.

At Sharkmedical Innovations, we take great pride in what we do. As experienced healthcare professionals and medical device experts, we are devoted to providing innovative, high-quality medical solutions that help save more lives, safely and more effectively. It is our priority to ensure we deliver only to the highest quality standards – **because lives depend on it.**

SHARKMEDICAL INNOVATIONS

Proudly working with you