STERISAFE®

THE MOST POWERFUL WEAPON AGAINST THE CORONA VIRUS

INTRODUCTION

At STERISAFE, we make solutions for whole room disinfection of surfaces and air.

We respond to the global challenges of bacteria and viruses outbreaks, fungi and other pathogen contamination.

We respond to the increasing Hospital Acquired Infections (HAI) all over the world.

And we respond to the urgent need to upgrade technologies used to disinfect rooms.

STERISAFE is a health-tech company with the ambition to lead the revolution in upgrading the environmental hygiene methods in the healthcare segment, as well as in other industries.

We want to lead the revolution for a world where infection is not a part of people's every day life.

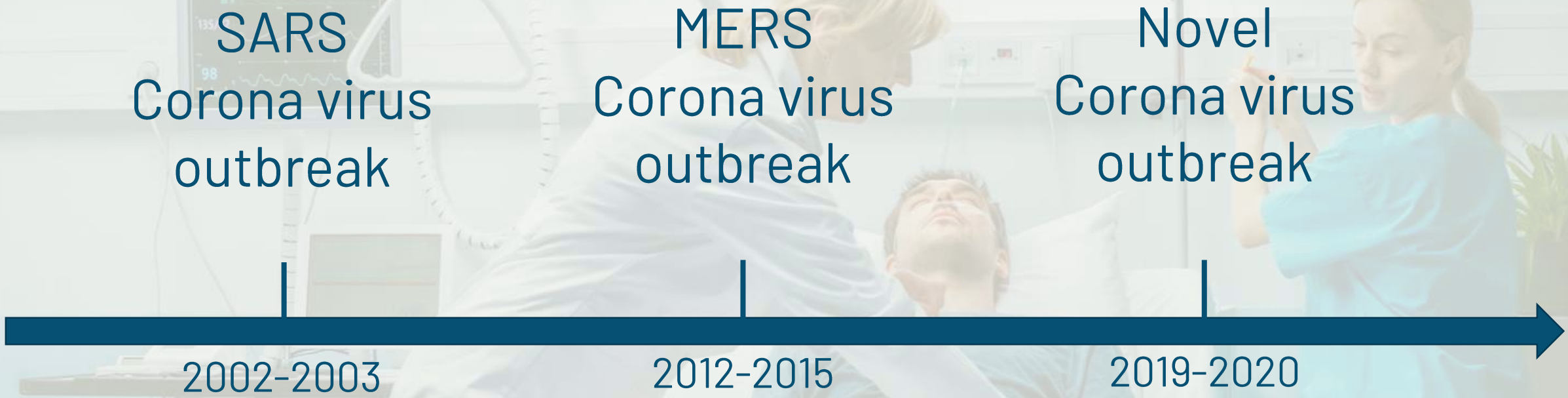
WHO has issued an edition of guidance on infection prevention towards Corona Virus

World Health Organization

- "Notify the area receiving the patient of any necessary precautions as early as possible before the patient's arrival"
- **"Routinely clean and disinfect surfaces which the patient is in contact"**
- "Ensure that cleaning and disinfection procedures are followed consistently and correctly."

Source: WHO

Serious outbreaks of contagious diseases over the past years



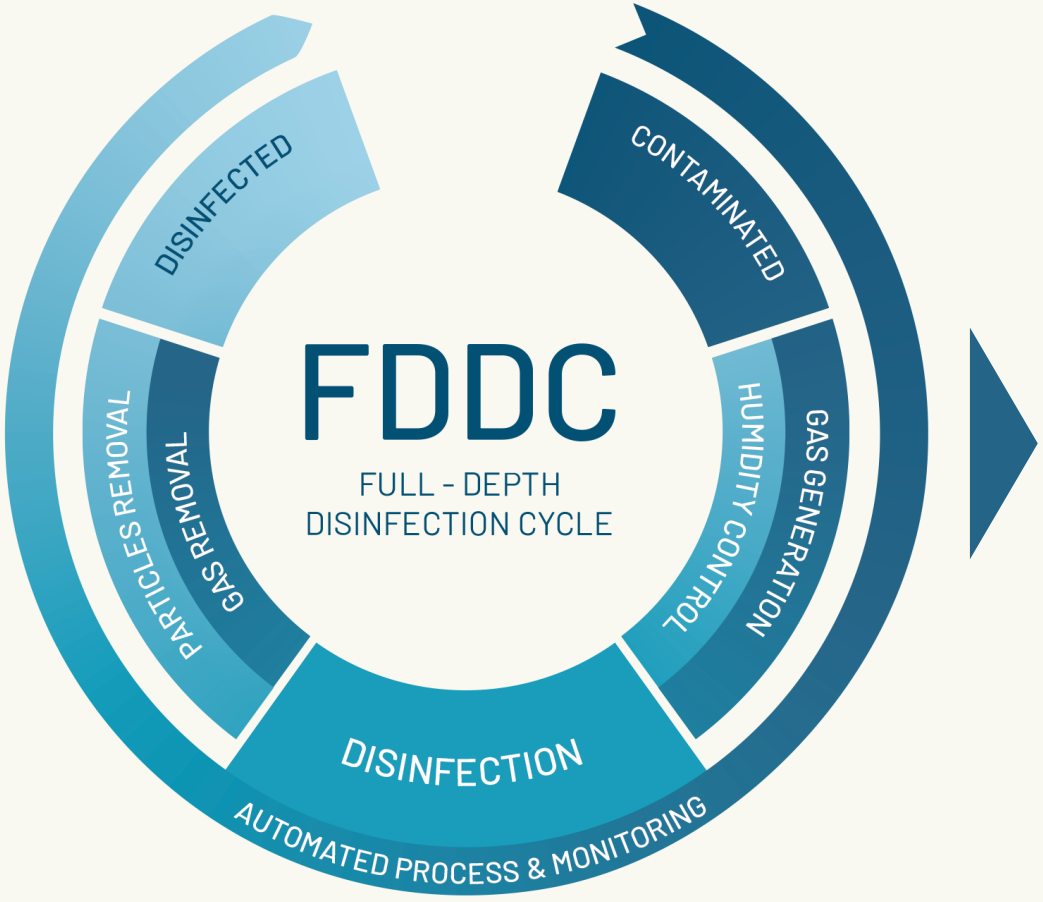
How to avoid the next virulent outbreak?

STERISAFE®

SUPERIOR AUTOMATED DISINFECTION TECHNOLOGY

The Full Depth Disinfection Cycle (FDDC) Technology

A patented process to disinfect air and surfaces from all harmful pathogens

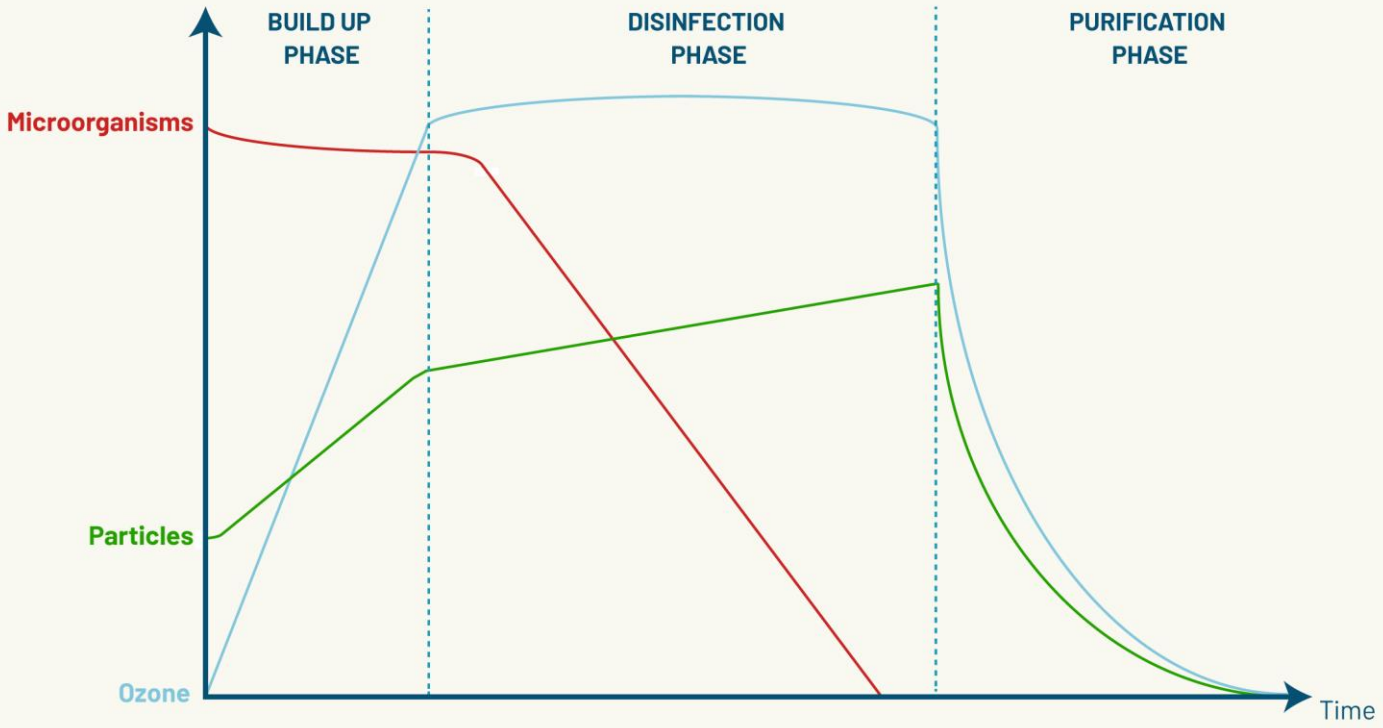


- ✓ **High efficacy – kill pathogens up to 99.99999%**
- ✓ Gas phase treatment – reaches all cracks and corners; no condensation
- ✓ Continuously monitors the biocidal gas concentration – automated validation
- ✓ Documentation of each treatment
- ✓ Removes the by-products (particles) after disinfection
- ✓ Active removal of the biocidal gas after disinfection
- ✓ Unique and patented technology

Effective – Safe – Simple.

The FDDC is a superior disinfection solution

The Full Depth Disinfection Cycle process



Total FDDC process time subject to room size and outbreak situation

The 3 phases of the FDDC process:

1. **Build-up:** Biocide gas generated in-situ (O_3 - ozone) – gas widely diffused in the room - full control of concentration and humidity level.

2. **Disinfection:** High gas concentration and high humidity maintained and spread into every nook and cranny.

3. **Purification:** All remaining biocide gas actively removed and turned into oxygen. Removal of all particles and nanoparticles (particle pollution). Parameters monitored to guarantee safety at re-entry.

A fully automated and monitored disinfection solution

STERISAFE®

THE PRODUCTS

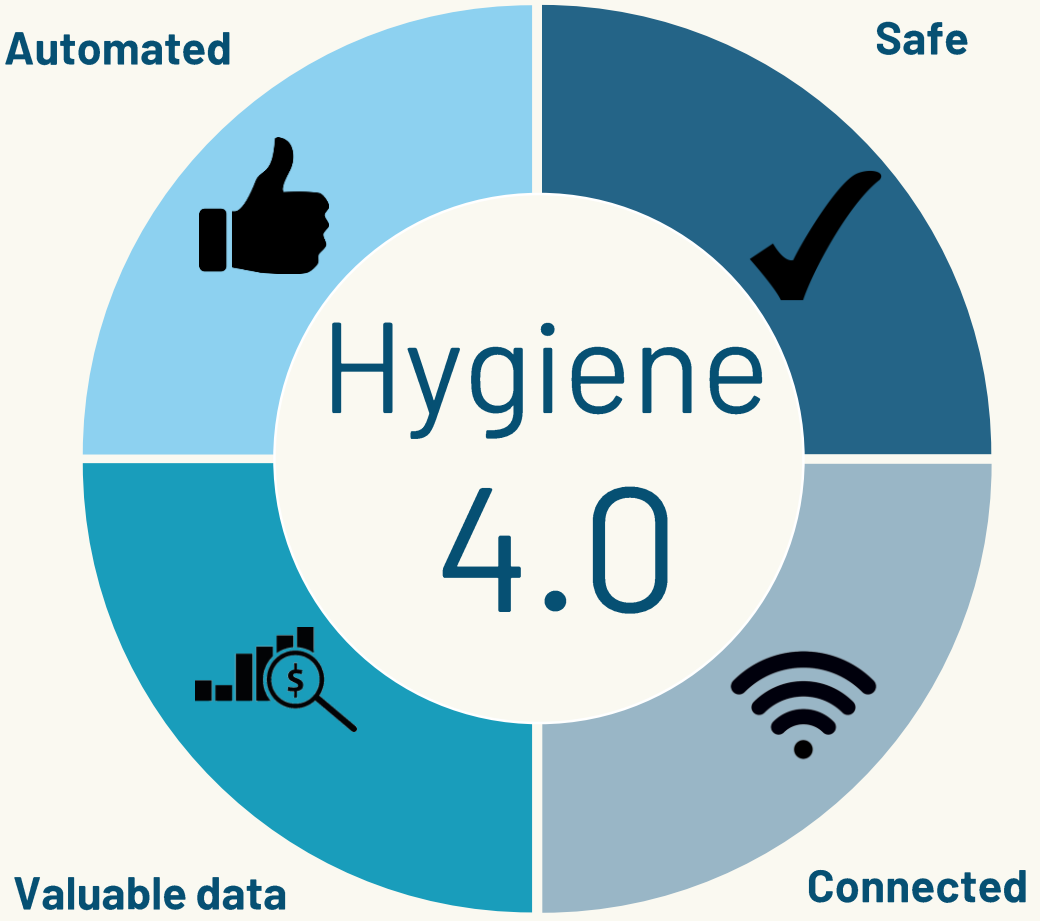
STERISAFE PRO

- ✓ All-in-one FDDC mobile unit
- ✓ Easy to move from room to room
- ✓ Treat up to 130 m^3
- ✓ CE Marking and Biocide registration in place
- ✓ Patented technology
- ✓ First solution not using any form of Chemicals

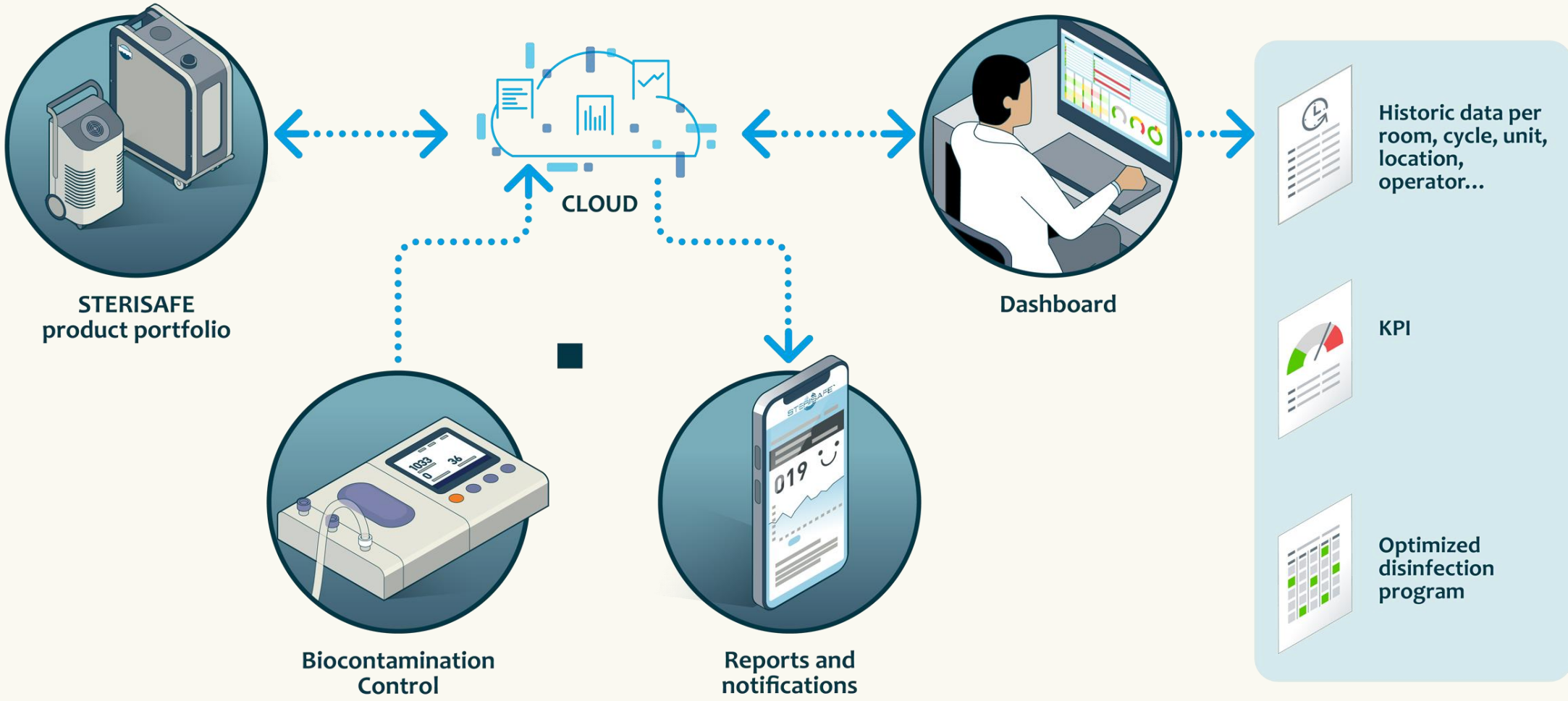
STERISAFE PRO – developed for healthcare, valuable for many industries

STERISAFE introducing Hygiene 4.0

- ✓ The world-first cloud-based room hygiene system for multiple sites management
- ✓ The establishment and management of disinfection protocols, to secure adequate infection prevention standards
- ✓ The generation and provision of disinfection protocols to external bodies, such as insurance companies and legislative institutions
- ✓ System interface serves as the dashboard for managing STERISAFE equipment and hygiene protocols.



Hygiene 4.0: The connected platform for room hygiene management and traceability



Hygiene 4.0: The connected platform for room hygiene management and traceability

STERISAFE®

EFFICACY & APPROVALS

Strong third party efficacy documentation

Type (minimal log-reduction required)	Germ	STERISAFE log-reduction *)	
Bacteria (> 5.0)	Enterococcus faecium*	6.73	99.9999%
	Enterococcus hirae***	6.59	99.9999%
	Proteus mirabilis*	5.80	99.9999%
	Pseudomonas aeruginosa*	6.99	99.99999%
	Staphylococcus aureus*	6.80	99.99999%
	VRE*	5.51	99.9999%
	Listeria monocytogenes*	≥ 6.97	99.99999%
	Escherichia coli*	6.18	99.9999%
Fungi & yeast (> 4.0)	Candida albicans*	4.17	99.99%
Viruses (> 4.0)	Adenovirus**	≥ 4.28	99.99%
	Norovirus**	≥ 4.96	99.999%
	Modified Vaccinia Ankara (MVA)**	≥ 4.68	99.999%
	Polyomavirus SV40**	4.77	99.999%

In blue: Reference microorganisms listed in NF T 72-281
* Tested by Danish Technological Institute
** Tested by Dr. Brill + Partner GmbH Institute for Hygiene and Microbiology
*** Tested by INFUSER ApS and Metropolitan University College

*) Log-reduction is typically marked on commercial packaging as a kill-rate percentage, where a log-2 reduction corresponds to a 99% germicidal power, a log-3 to 99.9%, and so forth.

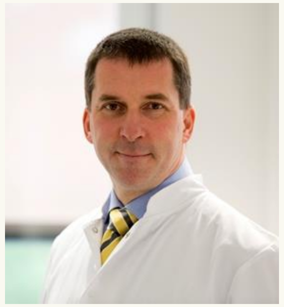
Certification

- ✓ STERISAFE is the owner of a Biocide Product Registration dossier for Ozone (BPR – Directive 98/8/EC – Listed in Article 95)
- ✓ CE Marked
- ✓ Classified by US EPA
- ✓ Efficacy tested by accredited and independent laboratory under the standard NF T 72-281

STERISAFE®

Endorsement by key opinion leaders (KOLs)

Documented with Prof. Dr. J. K. Knobloch at UKE (Hamburg, DE). KOL for Western Europe



- Operation in complex rooms
- Comparison with H_2O_2 foggers
- Efficacy on multi-resistant microorganisms
  → *C. Auris, Acinetobacter, E. Faecium*

Standardised test of the disinfection efficiency of room disinfection with ozone under complex room conditions

Authors: Birte Knobling, Tatjana Kostenkow, Johannes K.-M. Knobloch

Birte Knobling, Tatjana Kostenkow, Johannes K.-M. Knobloch

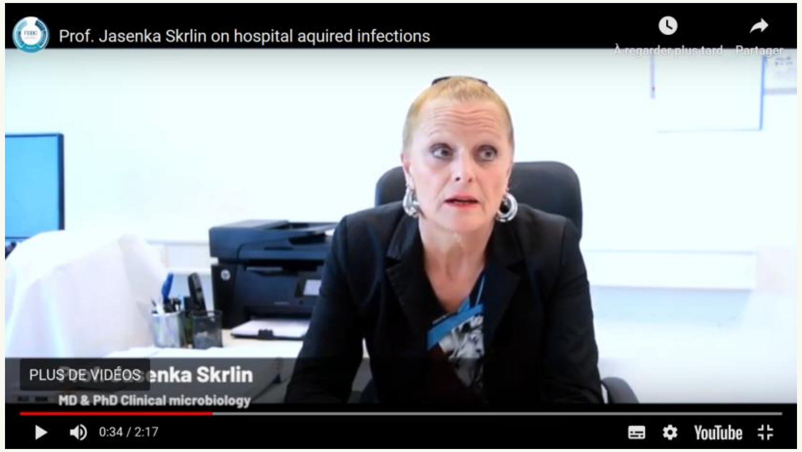
Standardisierte Prüfung der Desinfektionsleistung einer Raumdesinfektion mit Ozon unter komplexen räumlichen Bedingungen

S10-3 | Disinfection of surfaces contaminated with Candida auris using ozone under complex room conditions

S10-2 | Multiple versus single colony MIC testing in Candida species

Documented with Prof. Dr. J. Škrlin at DUH (Zagreb, HR). KOL for Southern Europe

- Real hospital environment
- Multi-resistant microorgansims MRSA, VRE, ESBL
- Addition:Air sampling



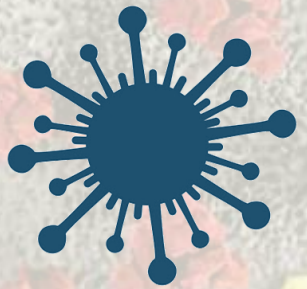
STERISAFE®

THE VIRUS KILLER

STERISAFE – The Virus Killer

STERISAFE technology has demonstrated efficacy up to **99.999%** against non-enveloped and enveloped viruses

Adenovirus



Murine Norovirus

Modified Vacina Virus, strain Anakara (MVA)

These pathogens are the standard laboratory test viruses from the EN16777* to prove efficacy on enveloped viruses, such as Corona Virus

*) EN16777 – Quantitative non-porous surface test for the evaluation of virucidal activity of chemical disinfectants used in the medical area

STERISAFE®