

99Technologies

Advanced and Innovative Technology for Tangible Progress In Disinfection

99T High-Level No-Touch Disinfection Technologies: Moving into Food & Agriculture Business

Tel Aviv, 30 November 2016

99Technologies SA

Via al Chioso, 8 - 6900 Lugano, Switzerland info@99technologies.ch



99Technologies in a nutshell







Presentation contents







a 99 technologies Presentation

Company profile

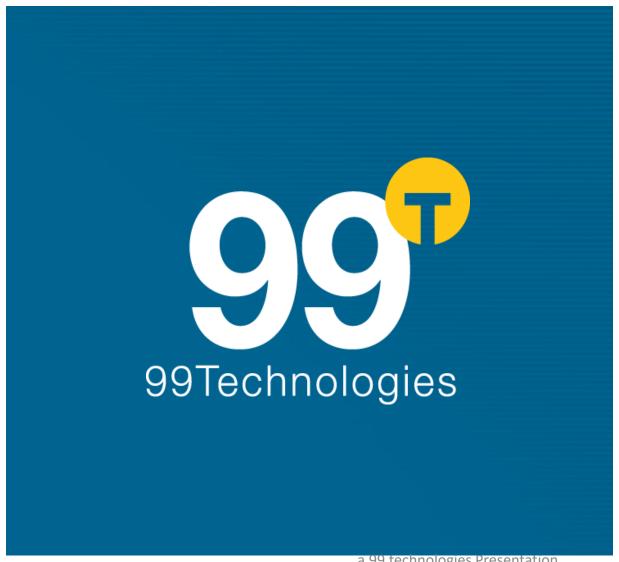






Our technology in a nutshell







1. Guideline for Disinfection and Sterilization in Healthcare Facilities, 2008 http://www.cdc.gov/hicpac/D isinfection_Sterilization/1_s umIntroMethTerms.html

Components of an effective environmental disinfection system





The road to validation









Regulatory Compliance: Tests in Vitro





nisms tested

is aeruginosa, Staphylococcus aureus

is aeruginosa, Staphylococcus aureus coli, Enterococcus hirae

neumophila

Is aeruginosa, Staphylococcus aureus coli, Enterococcus hirae, Acinetobacter Staphylococcus aureus, Enterococcus , Klebsiella pneumoniae, Salmonella m, Listeria monocytogenes

cans, Aspergillus niger

ium Avium, Myctobacterium Terrae

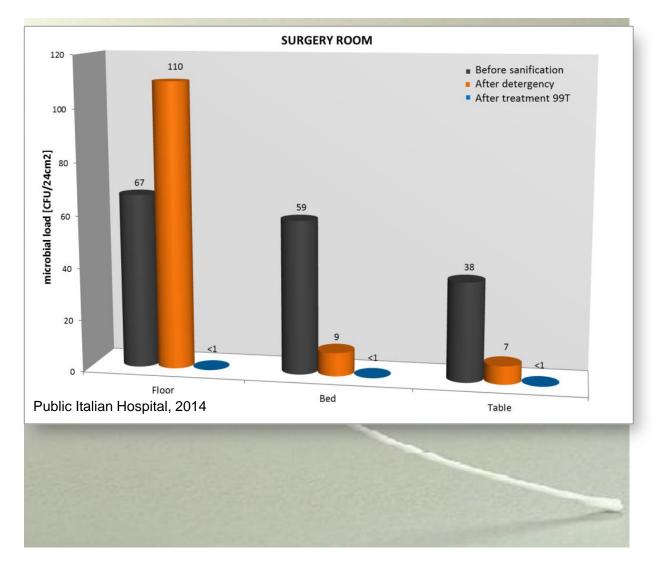
cans, Aspergillus niger

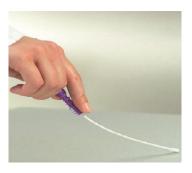
ilis, Clostridium Difficile

Sc-2ab (Sabin), Adenovirus 5,

Technology's application: Test in Vivo









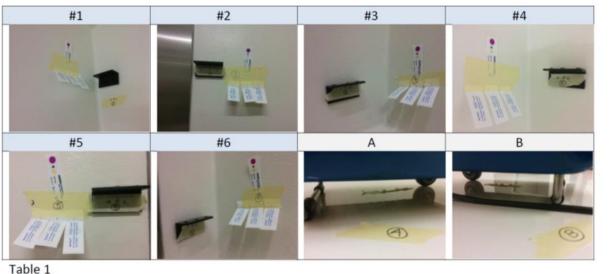
Actual testing for aerosol disinfection





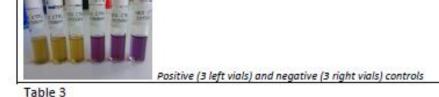
Actual testing for aerosol disinfection: the Spiez lab













Test in various clinical settings











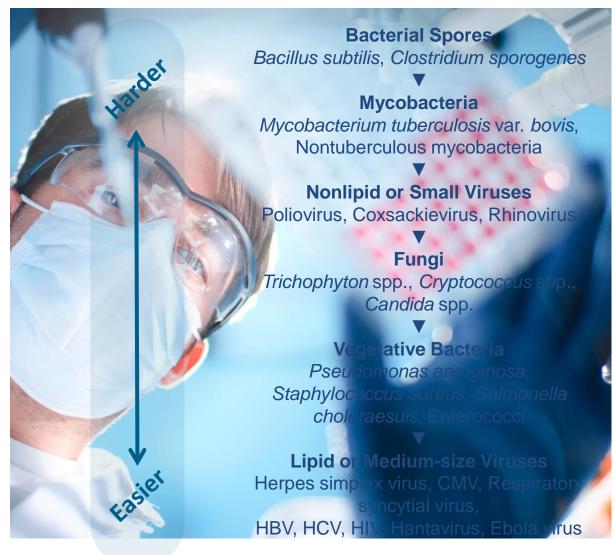






The CDC scale of germicidal resistance¹









Biosafety in Microbiological and Biomedical Laboratories http://www.cdc.gov/biosafety/p ublications/bmbl5/bmbl5_appen dixb.pdf

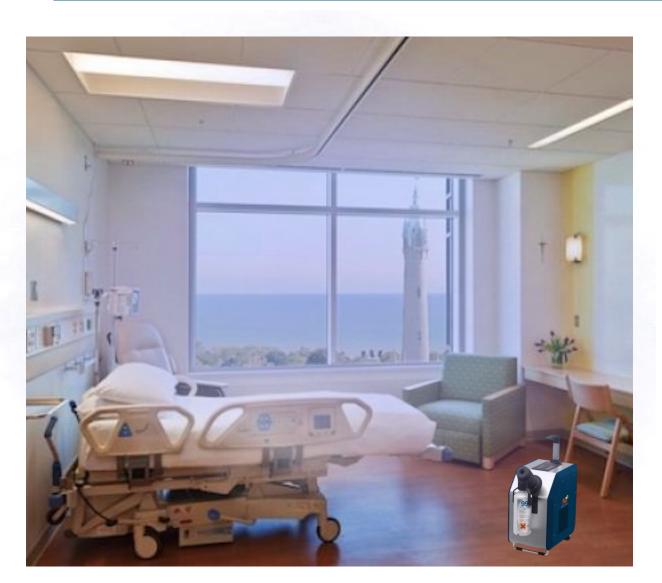






Put the machine into a rooms' corner





Disinfectant solution transformed into a gas like Hyper DRY Mist

Hundreds of millions of sub-micron droplets (<1 μ and about 75% < 0.5 μ) loaded with hydrogen peroxide molecules and positive silver ions uniformly distributed all over the environment

Sub-micron coating with a great biocidal efficiency generated



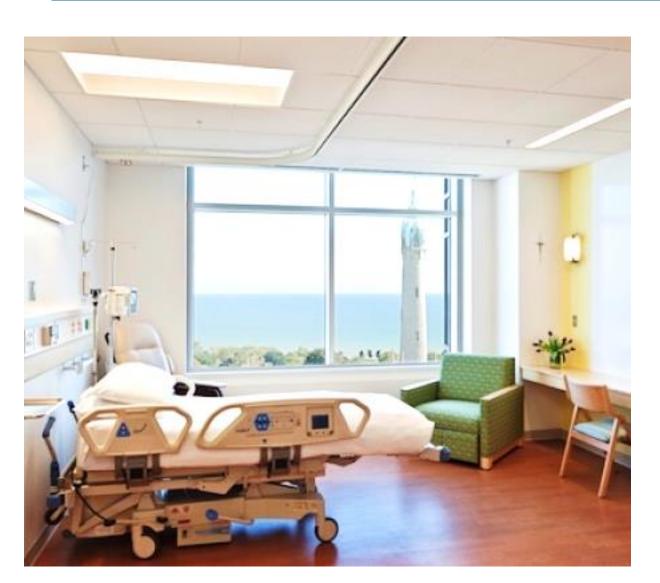


Instantly, the hydrogen peroxide attacks all organic substances which it comes in contact with

Positive silver ions complete the biocidal action

Inactivation of viruses, bacteria, spores, fungi and bio-film present on surfaces ensuring a prolonged biocidal effect





Free radicals formed by the hydrogen peroxide quickly transform into oxygen

No harmful residue left in the air

After a shortened period of time, it is possible to set up for reuse the treated areas

Quantitative Microbial Risk Assessment¹









1,0Ryan et al., Application of quantitative microbial risk assessment for selection of microbial reduction targets for hard surface disinfectants, American Journal of Infection Control

Quantitative Microbial Risk Assessment¹





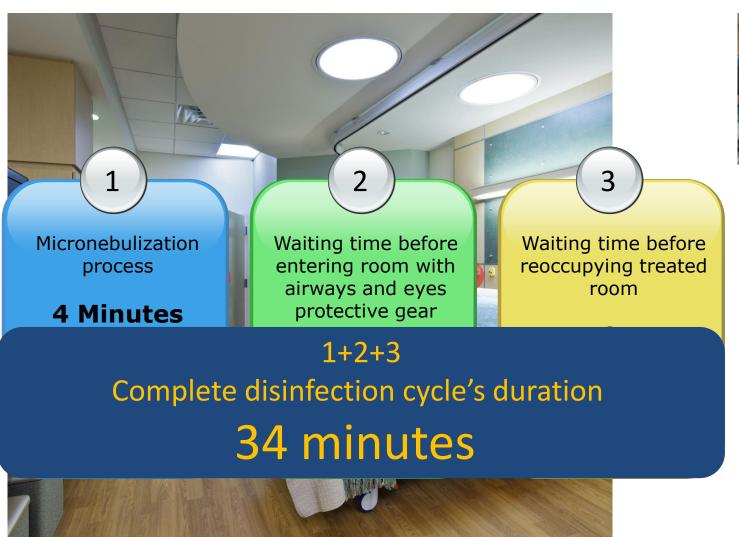




1,0Ryan et al., Application of quantitative microbial risk assessment for selection of microbial reduction targets for hard surface disinfectants, American Journal of Infection Control

Protocols



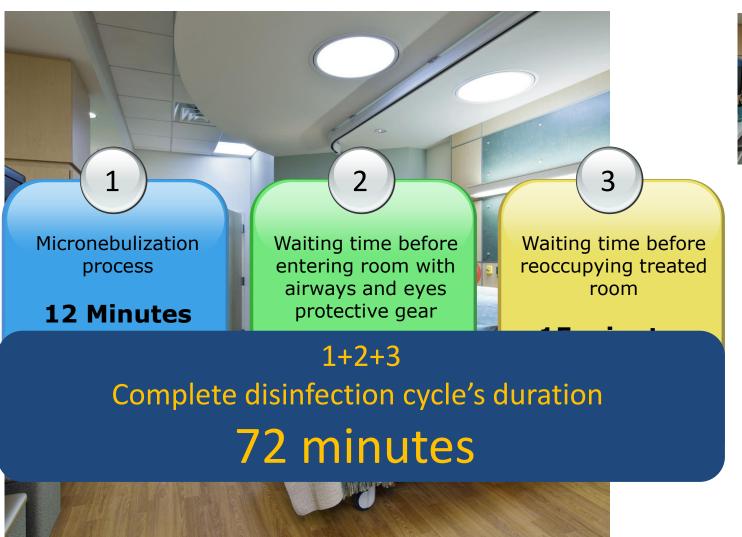






Protocols









Protocols



Elevated degree of flexibility, from preventive to sterilization Healthcare facility's infection control determines on the basis of QMRA



1

Microbial load levels assessment

2

Take into consideration role of air conditioning or ventilation

3

Adjust intensity of treatment up to sterilization



Disinfectant solution characteristics What we set out to achieve







Efficacy Convenience

99T

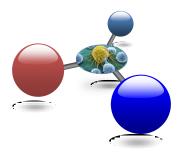
Compliance Value for Investment

Disinfectant solution characteristics A three-pronged disinfectant action



- Hydrogen Peroxide widely known for wide spectrum biocidal action
- Ag+ also widely reported in some literature
- Outside healthcare non AG+ formula
- Co-formulants: strong element of the IP
 - 3 sets of sub-company sacteria
 - Stabilizes HP to maintain full blooidal eapabilities of
- Favors disaggregation of bacteria's membranes







HyperDRYMist® characteristics





Technology's strong points









What's transferrable to F&A









Possible applications for F&A









Modulators Micro-Nebulizers







Solution's Bottle RFID RW tag

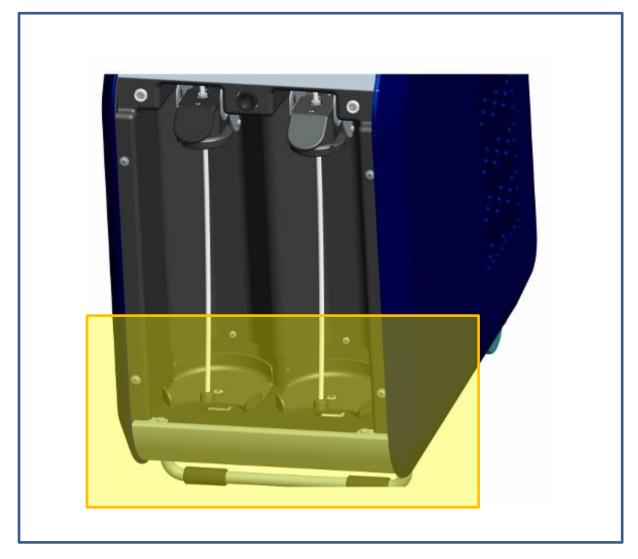






High quality micro-nebulization





Modulator can host 2 1-liter bottles

Gauges to the gram consumption



High quality micro-nebulization





No tank

Virtually no waste

Automatic bottle switch when bottle empty



High quality micro-nebulization





Easy bottle replacement

Seamless disinfection operations



Clean, powerful, and... hearable flow



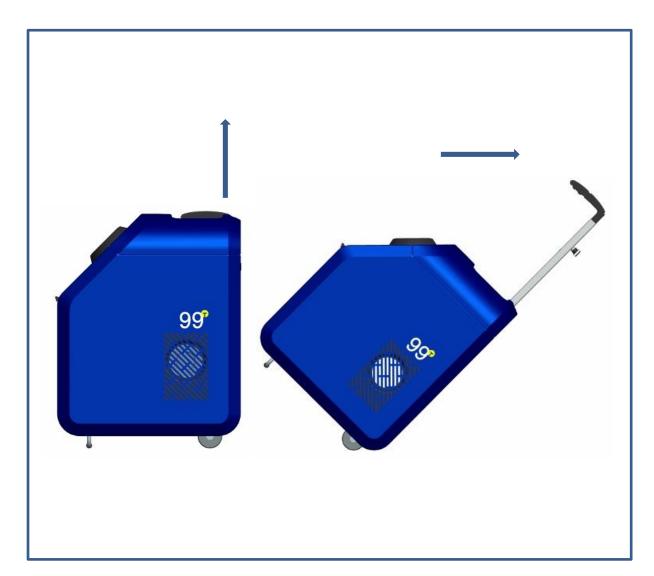


Air intake separation HEPA level filtering of engine's cooling air No harmful particles emitted by machine



Portability for agility and speed of use



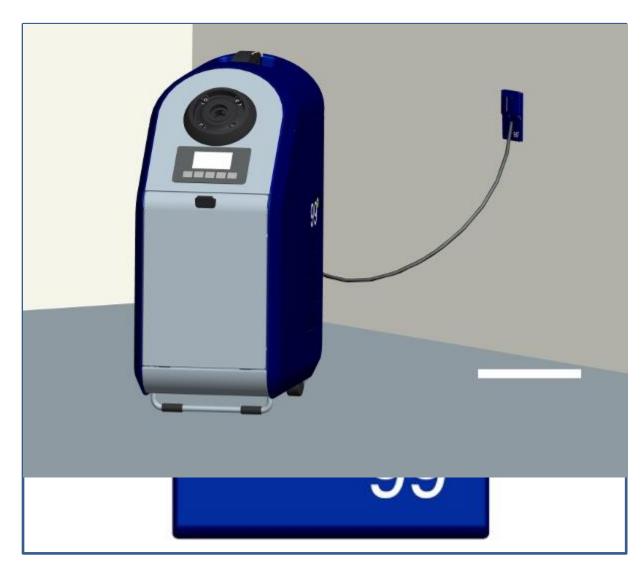


Actual Size: H 58 cm D 45 cm W 25 cm



Interactive Room ID Tag



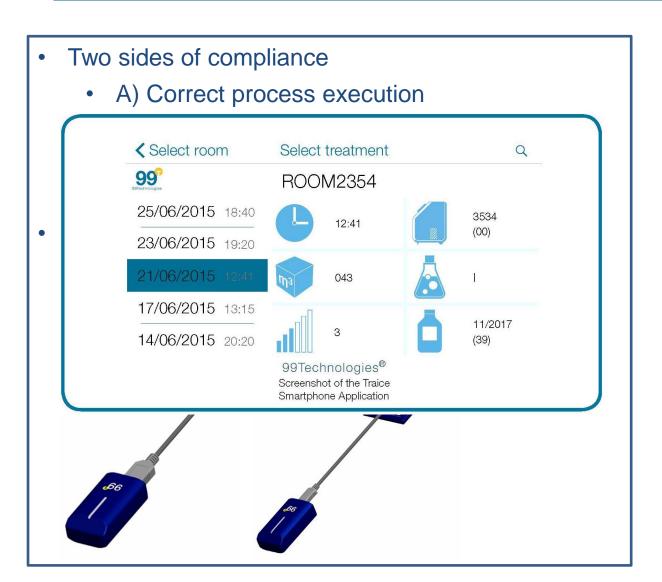
















Coming to full circle







Thank You for

Your Kind Attention