Intelligent Disinfection Robot





Represented by Frontier Instruments in Australia

TMI Medical • Hospital Infection Control



Intelligent Disinfection Robot

The Mainly Controlled Environment in Medical Institutions



Surgery rooms: Inanimate environmental surface being touched at high frequency Frequent pollution: Under lab's simulated condition, the efficiency of microbial propagation from the surface of the object to the hand is 27.59%-68.80%



ICU : If not being sterilized strictly, wards, once inhabited by infected patients, will have increased verdigris infection ratio at OR2.3, P<0.02 as well as increased acinetobacter baumanii infection ratio at OR2.4, P<0.01.



Wards: Almost 56% of wards are not cleaned and sterilized in a right way, which can bring infection risk to new patients.



Product Introduction

Application

Suitable for disinfection of indoor air and object surfaces in hospital

Features

The robot servesas a carrier to integrate three disinfection modes: ultraviolet rays, ultra-dry mist hydrogen peroxide, and plasma air filtration to meet the high-level disinfection requirements, killing endospores at the rate as high as 99.9999%. It applies the autonomous navigation technology and is autonomously mobile. Intelligent operation interface, simple and easyto operate

Policy & Regulation Support

Guo Wei Ban Yi Han- Notice of General Office of National Health Commission Concerning Further Strength ening of Infection Prevention and Control of Medical Institutions, BasicSystemof Infection Prevention and Control of Medical Institutions (trial)

Value

Autonomous

Totally intelligent operation, separated operation from operator to machine, security guarantee.

Timing

Calculate disinfection time autonomously based on area space.

Efficient

Equipped with various disinfection methods, quantitative management on disinfection process.

Precise

Automatic disinfection around targets without any blind corner.



Disinfection Mode



Ultra-dry mist hydrogen peroxide disinfection mode



Ultraviolet rays disinfection mode



Multi-mode combined disinfection ultraviolet catalyzed hydrogen peroxide decomposition



Plasma air filtration disinfection mode



Clinical Application

ICU, negative pressure isolation wards, laboratories (virus, bacterial), surgery rooms, pathology departments, laboratory departments, PIVAS , supply rooms etc.









Disinfection type	Sampling point	Before	Manual disinfection	Machine disinfection
			After	After
Air disinfection	1	21cfu	2cfu	0cfu
	2	> 100cfu	6cfu	1cfu
Surface disinfection	1	53cfu	21cfu	1cfu
	2	6cfu	3cfu	0cfu
	3	4cfu	1cfu	0cfu

Workflow



Success Stories

Union Hospital affiliated to Tongji Medical School of Huazhong University of Science & Technology



Shenzhen Baoan Maternal and Child Health Hospital



The Central Hospital of Wuhan



Shenzhen People's Hospital







Renji Hospital affiliated to Shanghai Jiaotong University School of Medical



The Second Affiliated Hospital of Xi'an Jiaotong University



Xinqiao Hospital, Second Affiliated Hospital of Army Military Medical University (Third Military Medical University)





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