

Review Form2

Book Name:	Medicine and Medical Research: New Perspectives
Manuscript Number:	Ms_BPR_2626
Title of the Manuscript:	Pathogen detection on inanimate surfaces in healthcare institutions: Phenotype incubation methods and molecular methods
Type of the Article	Book Chapter

PART 1: Review Comments

<u>Compulsory</u> REVISION comments	Reviewer's comment	Author's Feedback(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimumof 3-4 sentences may be required for this part.	Manuscript is important from microbiological safety to prevent infections. But the manuscript is not well-constructed.	
Is the title of the article suitable? (If not please suggest an alternative title)	No... This should be changed to "A review onPathogen detection methods on inanimate surfaces in healthcare institutions".	

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Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	ABSTRACT AIMS: The persistence and transmission of microorganisms, especially in hospitals environments, are critical concerns in preventing healthcare-associated infections (HCAI). This comprehensive chapter addresses various facets of environmental hygiene and pathogen detection. Emphasis has been made on emphasizing the importance of effective sanitation practices and advanced detection methods in mitigating healthcare-associated infections. based on the results of our 10 studies on the detection of pathogens on surfaces using various phenotype, and genotype methods. Methods: Studies are conducted on the detection of pathogens on surfaces using various phenotype and genotype methods using different databases. For detection of pathogenic bacteria and fungi found on the surfaces, Several incubation-based methods like for detecting microorganisms on surfaces, including contact plates, swabbing, elution, and some other methods can be used. are included. These methods are mainly employed for cultivable bacteria and fungi. In contrast, molecular methods such as polymerase chain reaction (PCR) offer a rapid alternative to phenotype incubation methods. On the other hand, viruses are also important disease-causing pathogens. The D detection of viruses is mainly conducted using PCR for gene amplification, followed by virus isolation in cell cultures. Results and discussion: Hospitals environmental surfaces can harbour microorganisms for extended periods, significantly contributing to nosocomial infections. Amidst the COVID-19 pandemic, understanding surface contamination by SARS-CoV-2 became paramount. Implementing rigorous sanitation measures and continuous hygiene monitoring, including regular employee education on hand hygiene are crucial in preventing recontamination. Hospital laundries are potential hotspots for pathogen transmission if textiles are not properly disinfected and handled. Microorganisms can survive on surfaces for various periods and at different temperatures. Traditional methods for assessing surface cleanliness, involving surface sampling and classical incubation, are time-consuming methods that may take, taking 2-4 days in analysis of thefor results. Amidst the COVID-19 pandemic, understanding surface contamination by SARS-CoV-2 became paramount.	
Are subsections and structure of the manuscript appropriate?	No.. Proper methodology needs to be added as mentioned in the manuscript. IN METHODOLOGY, MENTION ABOUT THE DATABASES USED TO SEARCH FOR THE LITERATURE. ALSO GIVE THE DURATION IN MONTHS ONLY Methodology written by author should be part of results and discussion which is not properly structured and merely representing the works done by other authors without giving any proper significance.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The manuscript does not give any scientific significance.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Yes	
Optional/General comments	No scientific significance and not properly structured.	

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PART 2:

	Reviewer’s comment	Author’s comment(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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