

Review Group Membership

MaHTAS Reviewer:

Syful Azlie Md Fuzi
Dr. Junainah Sabirin
Datin Dr. Rugayah Bakri

External Reviewer:

Disclaimer:

Technology review is a brief report, prepared on an urgent basis, which draws on restricted reviews from analysis of pertinent literature, on expert opinion and / or regulatory status where appropriate. It is subjected to an external review process. While effort has been made to do so, this document may not fully reflect all scientific research available. Additionally, other relevant scientific findings may have been reported since completion of this review.

For further information please contact:

Health Technology Assessment
Section (MaHTAS)
Medical Development Division
Ministry of Health Malaysia
Level 4, Block E1, Precinct 1
Government Office Complex
62590 Putrajaya.

Tel: 603 8883 1246

Fax: 603 8883 1230

Available at the following
website: <http://www.moh.gov.my>

Introduction

█████ Clean and █████ Care (Sanitiser and Disinfectant Spray) was claimed by the manufacturer to be highly effective killing 99.99% of microbes including 650 germs, bacteria, viruses, and spores within less than 10 minutes when exposed directly with nano silver ion, the active ingredient in the products. Silver has been used for the treatment of medical ailments for over 100 years due to its natural antibacterial and antifungal properties. The nano silver particles typically measure 25 nm. They have relatively extremely large surface area, increasing their contact with bacteria or fungi, and vastly improving its bactericidal and fungicidal effectiveness. The nano silver when coming in contact with bacteria and fungus will adversely affect cellular metabolism and inhibit cell growth. The nano silver suppresses respiration, basal metabolism of electron transfer system, and transport of substrate in the microbial cell membrane. The nano silver inhibits multiplication and growth of those bacteria and fungi which cause infection, odor, itchiness and sores.

█████ Clean is use for disinfectant of physical environment such as surface, floor, and air condition filter, while █████ Care is use for hands and face mask sanitiser.

This technology review was conducted based on a request from the Director of Disease Control Division, Ministry of Health, Malaysia, who received a letter from Ministry of Education, Malaysia, on █████ Clean and █████ Care (Sanitiser and Disinfectant Spray) to be used for Ministry of Education facilities.

Objective/Aim

The objective of this technology review was to assess the safety, efficacy and cost-effectiveness of █████ Clean for disinfectant of physical environment such as surface, floor, and air condition filter, and █████ Care for hands and face mask sanitiser.

Results and Conclusions

There was no retrievable evidence on US FDA approval or CE mark for █████ Clean and █████ Care (Sanitiser and Disinfectant Spray). There was also no retrievable evidence on the adverse events related to the use of this product from the available scientific databases. There was no retrievable evidence on the efficacy of █████ Clean and █████ Care (Sanitiser and Disinfectant Spray) although it contained nano silver ion which is the active ingredient in the products. There was also insufficient and poor level of evidence on nano silver ion to determine its efficacy. There was no retrievable evidence on the cost-effectiveness of █████ Clean and █████ Care (Sanitiser and Disinfectant Spray). However, the company claimed that the cost for █████ Clean and █████ Care is approximately between RM █████ to RM █████ depending on its package (60 ml, 1 liter, and 5 liter).

Methods

Electronic databases were searched, which included PubMed, Medline, Journal @ Ovid full text via OVID, OVID EBM Reviews - Cochrane central register of controlled trials, EBM Reviews - Cochrane database of systematic review, Horizon scanning databases - Centre, Birmingham, Australia and New Zealand Horizon scanning (ANZHSN), FDA website, MHRA website and from

non scientific database - Google search engine. In addition, a cross-referencing of the articles retrieved was also carried out accordingly to the topic. Relevant articles were critically appraised and evidence graded using US / Canadian Preventive Services Task Force.