



## **TRISTEL TRIO WIPES SYSTEM **VS** RAPICIDE PERACETIC ACID**

A STUDY CONDUCTED AT THE KHOO TECH PUAT HOSPITAL, SINGAPORE, HAS CONCLUDED THAT THE TRISTEL CHLORINE DIOXIDE WIPES HAVE EQUIVALENT EFFICACY TO A WORLD-LEADING PERACETIC ACID HIGH-LEVEL DISINFECTANT (RAPICIDE; CANTEL MEDICAL, NEW JERSEY, USA), AND PROVIDE SIGNIFICANT OTHER ADVANTAGES TO A HOSPITAL.

# STUDY IN SUMMARY



THE STUDY TOOK PLACE IN THE EAR, NOSE AND THROAT CLINIC IN 2014



ONE HUNDRED PATIENTS WERE RECRUITED TO PARTICIPATE



TWO FLEXIBLE NASOENDOSCOPES WERE USED PER ENDOSCOPIC EXAMINATION, ONE ENTERING THE LEFT NOSTRIL (DISINFECTED BY TRISTEL) AND ONE ENTERING THE RIGHT NOSTRIL (DISINFECTED BY RAPICIDE)



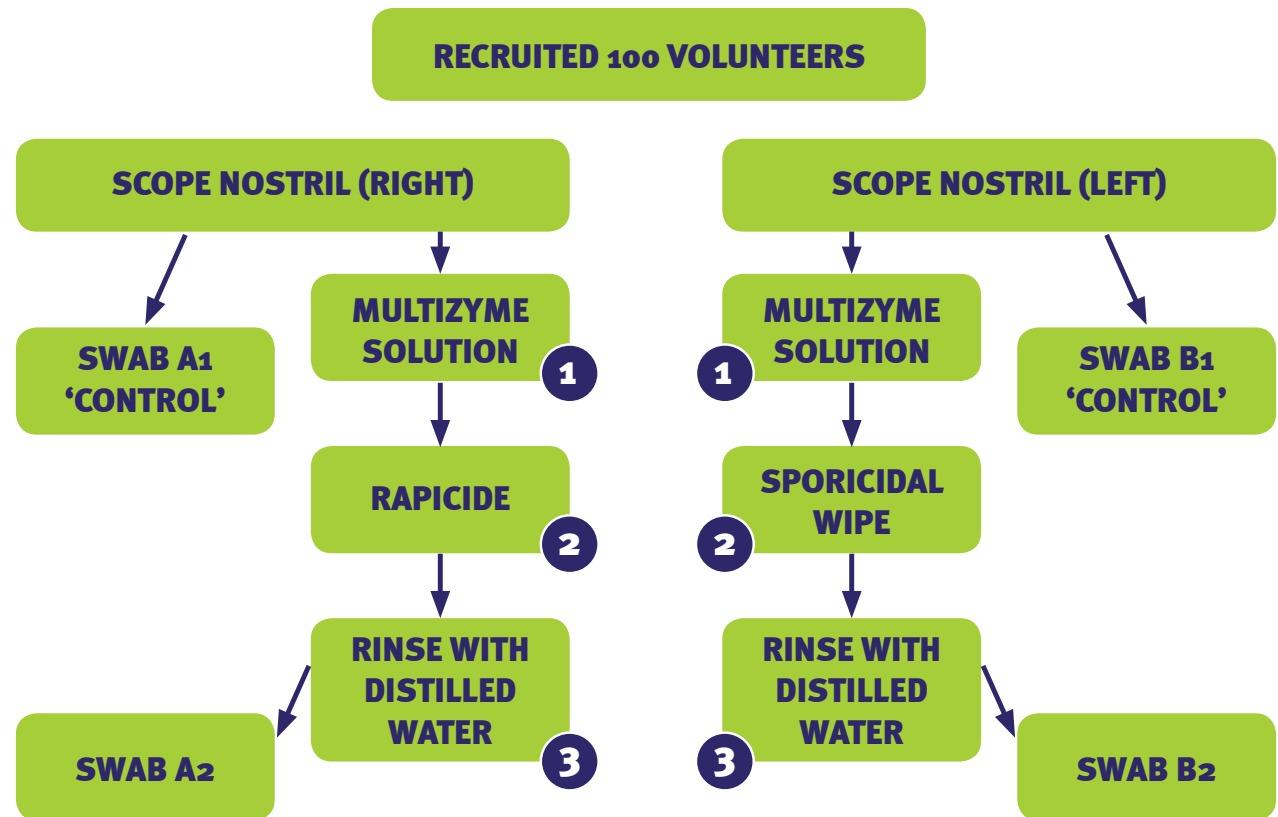
SWABBING WAS PERFORMED PRE AND POST DISINFECTION. THE STUDY CONCLUDES THAT RAPICIDE AND THE TRISTEL WIPE ARE STATISTICALLY EQUIVALENT IN TERMS OF EFFICACY

One hundred patients from the ENT Clinic of Khoo Tec Puat Hospital, Singapore, were recruited to participate in the study. Patients were subjected to a standardised flexible nasoendoscopic examination. Two separate endoscopes were used for each examination, one through each nasal cavity.

A swab was taken from the tip of each nasoendoscope once the procedure was completed to be used as the control. A swab was also taken from the tip of each nasoendoscope after decontamination and sent for cultures.

After microbiological swabs were obtained from the two nasoendoscopes, both were subjected to a three-step decontamination process. Firstly, both were cleaned using the same Multizyme solution. For the second step, one scope was disinfected with Rapicide, the other with the Tristel Sporicidal Wipe. Lastly, both were rinsed with distilled water.

A second swab was taken from the tip of each nasoendoscope after decontamination and sent to a microbiology lab for cultures.



- All swabs were taken from the tip of the flexible nasoendoscope.
- Swabs A1 and B1 were taken after flexible nasoendoscopy and prior to decontamination.



TRISTEL PROVIDED A RAPID TURNAROUND OF LESS THAN THREE MINUTES COMPARED TO 15 MINUTES FOR RAPICIDE - FIVE TIMES FASTER



THE PORTABILITY OF THE TRISTEL WIPES MEANS THAT THEY CAN EASILY BE TAKEN TO EMERGENCY DEPARTMENTS AND OTHER WARDS



We are pleased to see the publication in a peer-reviewed journal of yet another study comparing our Wipe with a leading peracetic acid high-level disinfectant – Cantel’s Rapicide product. Peracetic acid is the most widely used high-level disinfectant chemistry in Europe and probably the United States also. The results affirm the key advantages of our Wipes over alternative chemistries and disinfection methods. These advantages are the level and speed of kill and the capability of our Wipe System to be deployed anywhere within a healthcare setting without the need for power, water and space. This is the 31<sup>st</sup> peer-reviewed and published scientific paper featuring Tristel products – a body of evidence of our products’ attributes that forms one of our Company’s key strengths.



Paul Swinney, CEO

The swabs taken from tips prior to decontamination resulted in **82 positive** cultures for Rapicide and **76 positive** cultures for Tristel. The three most common organisms were *Staphylococcus* species, *Diphtheroid bacilli* and *Streptococcus* species.

The post-decontamination swab culture results were **four positive** culture swabs for those disinfected with Tristel Wipes and **one positive** culture swab for Rapicide cohort. The efficacy of Rapicide was **98.8%** compared to **94.7%** for Tristel. **After statistical analysis, the difference between either was not considered to be statistically significant.**

The study also noted that the positive cultures post-decontamination were likely due to improper handling of the nasoendoscopes rather than a result of inadequate disinfection.

**In conclusion, the study validated the efficacy of Tristel Wipes as a comparable alternative to peracetic acid-based disinfectants for flexible nasoendoscopes. The study also concluded that Tristel is a more convenient, faster, more portable and more ergonomic alternative to Rapicide.**

The Tristel Wipes System is a unique, patented decontamination method for non-lumened endoscopes and ultrasound probes. It has been a very significant sales success for the company globally. Worldwide sales of the Wipes System in the financial year ending June 2017 were **£11.5m**.



“Flexible nasoendoscopy decontamination: a comparison between Rapicide and Tristel Wipes, a prospective cohort study” (Gan et al., 2018)

To view the full study, please visit:  
<http://dx.doi.org/10.18203/issn.2454-5929.ijohns20175607>

- Published in the International Journal of Otorhinolaryngology and Head and Neck Surgery in January 2018.
- Performed in the Department of Otolaryngology, Khoo Teck Puat Hospital, Singapore and was conducted from January 2014 to December 2014.

**Tristel™**

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