

TECHNICAL ANALYSE OF WIPES IN INTERMEDIATE LEVEL DISINFECTION : ARE THEY AN ALTERNATIVE TO

SEMI AUTOMATED DISINFECTION ?

Johanna Borsato¹, Maeva Laffite¹, Eve Ronin², Freddy Mounsef¹, Valérie Dubois¹, Philippe Berthelot²

¹ : Stérilisation, CHU de Saint-Etienne, Hôpital Nord, Avenue Albert Raimond, 42 270 Saint-Priest-en-Jarez

² : UGRI, CHU de Saint-Etienne, Hôpital Nord, Avenue Albert Raimond, 42 270 Saint-Priest-en-Jarez



Background

Endocavity ultrasound probes are semi-critical medical devices (Spaulding classification)

In March 2019 the **French Society for Hospital Hygiene (SF2H)** published new guidelines for the disinfection of endocavitary ultrasound probes. The instrument **disinfection is upgraded to intermediate level** disinfection to prevent notably **HPV infection**.

The University Hospital of Saint-Etienne is equipped with a TROPHON® (automated device using peroxyde hydrogene with a 7 min time for disinfection). In practice, with an estimated number of 70-80 acts per day, the resources available are not enough. The implementation of wipes use appears as an easy alternative to set up.

The aim is to evaluate the **compliance of wipes with SF2H new guidelines** and make a choice according to the practices in medical ward.

Material & Methods

To reach an **intermediate level of disinfection**, the manufacturer of the disinfecting wipe must claim compliance with the following **European standards**:







- ✓ **bactericidal activity** **EN16615**
- ✓ **fongicidal activity** **EN 16615 EN 13624 and EN 14562**
- ✓ **mycobactericidal activity** **EN 14348 and EN 14563**
- ✓ **virucidal activity** **EN 14476**

We analyse 6 wipes products of 5 different manufacturers: **TRISTEL** (Duo ULT and Trio), **ANIOS**, **Dr. WEIGERT**, **FRANKLAB** and **THX medical**.

Wipes validation is performed by analysing feasibility, level of disinfection, estimating contact time and cost.

RESULTS



	Activity	Standards	Contact time	Cost
TRISTEL TRIO® Tristel 	Bactericidal activity Fongicidal activity Mycobactericidal activity Virucidal activity Sporocidal activity	EN 13727, EN 14561, EN 16615 EN 13624 , EN 14562 , EN 16615 EN 14348 , EN 14563 EN 14476 , EN 16615 EN 14347, EN 14561	30 sec 30 sec 30 sec 30 sec 30 sec	+++
TRISTEL DUO ULT® Tristel 	Bactericidal activity Fongicidal activity Mycobactericidal activity Virucidal activity Sporocidal activity	EN 13727, EN 14561, EN 16615 EN 13624 , EN 14562 , EN 16615 EN 14348 , EN 14563 EN 14476 , EN 16615 EN 14347	30 sec 30 sec 30 sec 30 sec 30 sec	++
WIP'ANIOS Clean UP + solution Sporactiv® Anios 	Bactericidal activity Fongicidal activity Mycobactericidal activity Virucidal activity Sporocidal activity	EN 13727, EN 16615 EN 13624 EN 16615 EN 14348 , EN 16615 EN 14476 , EN 16615 EN 13704, EN 16615, ASTM 296-715	30 sec 1 min 3 min 30 sec, 3 min 2 min	++
WIPES MEDIPAL 3 IN 1 Dr Weigert 	Bactericidal activity Fongicidal activity Mycobactericidal activity Virucidal activity Sporocidal activity	EN 13727, EN 16615 , EN 13697 EN 13624 EN 16615 EN 14348 EN 14476 , EN 16615 EN 13704	1 min, 2 min, 2 min 2 min 1 min 2 min 2 min	+
VIRO'WIPES 150 Franklab 	Bactericidal activity Fongicidal activity Mycobactericidal activity Virucidal activity	EN 13727, EN 16615 , EN 13697 EN 13624 , EN 16615 EN 14348 EN 14476	5 min, 2 min, 5 min 10 min, 2 min 10 min 10 min	+
CLEANISEPT® WIPES FORTE MAXI THX Medical 	Bactericidal activity Virucidal activity Sporocidal activity	EN 13704, EN 16615 EN 14476 , EN 16777 EN 13704	2 min 2 min 2 min	+

Discussion and Conclusion

THX MEDICAL wipes are not retained for further test because they do not meet the intermediate disinfection standards. The others wipes are conform to the European Standards. TRISTEL DUO ULT and TRIO, ANIOS, Dr. WEIGERT and FRANKLAB wipes are going to be tested in the different departments. The final choice, if the use of wipes is retained for disinfection of endocavitary probes, will be according to the feasibility, the global time and the cost in real routine use comparing to TROPHON®.