The Sutherland Hospital Emergency Department Disinfection of Ultrasound Transducers Guideline

This document relates to the two types of cleaning processes for Point of Care Ultrasound (PoCUS) transducers in the ED and should be read in conjunction with the 'TSH Daily Ultrasound Machine

Cleaning Guidelines'.

- After any use of the ultrasound transducer Low Level Disinfection (LLD) should be performed
 - o Low level disinfection kills vegetative bacteria, some fungi, and some viruses
 - o Clinell wipes should be used to wipe transducer probe and cord
 - Some microorganisms require longer cleaning times this can be achieved after wiping the probe
 and cord by leaving a wet Clinell wipe wrapped around the probe sitting in the probe holder
 - → See table on next page for specific cleaning times
- If probe comes into <u>contact with bodily fluids</u>, or probe is visibly contaminated with bodily fluids <u>High Level Disinfection (HLD)</u> of probe should be performed
 - High level disinfection kills all microorganisms (except high levels of bacterial spores)
 - Clinell wipes should be used initially to wipe transducer probe and cord
 - The affected probe should then be taken to the Medical Imaging Department and undergo high level disinfection using the Trophon machine please see a member of the PoCUS Faculty or review the instructional video available via the following link:

http://www.sutherlanded.com/pocus/tsh-ultrasound-videos/

EFFECTIVE AGAINST TIME	KILL
BACTERIA	
Acinetobacter baumanii	5 min
Acinetobacter baumannii	10 secs
Campylobacter jejuni	5 min
Enterococcus faecalis	10 secs
Enterococcus faecium (VRE)	10 secs
Enterococcus hirae	1 min
Enterococcus hirae	1 min
Enterococcus hirae	10 secs
Escherichia coli (E. coli)	1 min
Escherichia coli	10 secs
Klebsiella pneumoniae	5 min
Klebsiella pneumoniae (ESBL)	10 secs
Listeria monocytogenes	5 min
Methicillin Resistant Staphylocc aureus (MRSA)	us 1 min
Methicillin Resistant Staphylocc aureus (MRSA)	us 10 sec
Pseudomonas aeruginosa	1 min
Pseudomonas aeruginosa	1 min
Pseudomonas aeruginosa	10 secs
Salmonella typhimurium	5 min
Staphylococcus aureus	10 secs
Staphylococcus aureus	1 min
Vancomycin Resistant Enterococcus faecalis (VRE)	5 min
Vibrio cholerae	5 min

FUNGUS	
Candida albicans	10 secs
VIRUS	
Hepatitis B	1 min
Hepatitis C	1 min
HIV	30 sec
Influenza H5N1	30 sec
MERS-CoV	1 min
Murine Norovirus	1 min
MYCOBACTERIA	
Mycobacterium bovis	2 min
Mycobacterium Smegmatis	5 min