

AUVS Automated Ultra –Violet Systems Trial

May 9 – June 15, 2017

Starting in May and continuing for 6 weeks, trial of 2 Medium sized Automated Ultra – Violet System units. These units were placed in the ED at the control desk, and Emerson 6 in the Conference room. Environmental sampling was completed on Medical and Non – Medical devices. Microbiologic testing was conducted on 6/12/17.

The units safely sanitize medical and non-medical devices without equipment or screen damage in 48 seconds using Ultraviolet Light.

Staff reactions –

1. Love this, nice to have something to sanitize phones
2. Use it on my stethoscope
3. Put hand held phones in all the time
4. Put the phones in every day before handing out

Staff identified items placed in units:

Cell phones, badges, stethoscopes, beepers, hand held phones, 1 pair of shoes

Microbiology testing:

Remel Contact Plate – Tryptic Soy Agar – 20 plates (10 before and 10 after) on 10 items.
Colony forming units were counted after 48 hours, species were not identified.

Results:

ED:

1. Hand held Phones (3) total count:
 - a. Before - 7187 colony forming units (cfu)
 - b. After - 23 cfu
2. Badges (2)
 - a. Before – 7 cfu
 - b. After – 3 cfu

E6:

1. Stethoscope
 - a. Before - >100cfu/plate
 - b. After – 0 cfu/ plate
2. Badges (2)
 - a. Before – 113 cfu
 - b. After – 3 cfu

3. Hand held phone
 - a. Before - > 100 cfu
 - b. After – 2 cfu

4. Cell phone
 - a. Before - > 100 cfu
 - b. After – 3 cfu

Results indicate the number of colony forming units found on the plates both before and after use of the machine. As you can see there is a decrease in the number of colonies for the most part. Items were not cleaned before being placed in the units.



