

CLEAN ROOM STERILIZATION PROCESS IMPROVEMENT

Cherry County Hospital, Critical Access Hospital, Valentine, NE

Background

- 23 bed, Critical Access Hospital in North-Central Nebraska
- Reports from hood recertification were pulled dating back to 2019
- Particle and Viable counts were the target for improvement

Date	Viable Count	Particle count
3/19/2020	F	F
10/20/2020	F	F
4/15/2021	F	F
9/24/2021	F	F
4/14/2022	F	F
10/13/2022	F	P
4/3/2023	P	P

Aims

- Ensure the most sterile environment possible for continued compliance and best practice, for the safety of our patients

Plan

- Stricter garbing practices and training
- Medication storage removed from cleanrooms
- Use of point of care proprietary systems (ex. Baxter Mini-Bag Plus Containers)
- Re-varnishing the doors
- Examining air handler and vents
- Increased cleaning
- Implementation of Tru-D UVC disinfection device



Picture: Tru-D. Accessed 31 July 2023. <https://tru-d.com/>

Measure

- Viable Counts, Particle Counts from AT analytical which take into account surface sampling and air sampling
- Reviewed Infection Control Rates for Surgery and Nosocomial Infections
- Increased surface sampling going forward

Results

- Spring of 2023 was the first time, since 2019, that the *initial* report for the hood recertification received full passing marks



Picture: LabWrench Accessed 31 July 2023. <https://www.labwrench.com/equipment/9022/nuaire-pharmagard-nr797>

Next Steps

- Updating policies to reflect the new cleaning processes which will incorporate Tru-D device
- Updating policies to adhere to new USP 797 requirements for surface sampling

Team

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