

IMPLEMENTATION OF AN ASEPTIC TECHNIQUE VALIDATION PROTOCOL IN A PHARMACY DEPARTMENT

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Aseptic technique validation is crucial in ensuring the safety and quality of sterile products, reducing contamination risks in hospital pharmacy preparations.



To establish a protocol for the validation of aseptic technique (VTA) in the Pharmacy Department (PD) through simulation, assessing the performance of personnel working in aseptic conditions in compliance with good practice standards.



EVERIM Following a literature review, the recommendations outlined in Chapter 797 of the United States Pharmacopeia (USP) and the guide on good preparation practices in hospital pharmacy services were adopted.

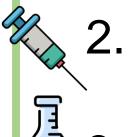
According to USP guidelines, the process simulation test should closely mimic standard aseptic manufacturing, using a liquid culture medium instead of the usual products. The USP categorizes sterile preparations into three risk levels: low, medium, and high, detailing quality control standards for each.

Ne implemented a high-risk protocol, involving the preparation of sterile products where either a non-sterile product or device is used, utilizing this this the highest-risk conditions that could occur in a laminar flow hood.



The following protocol was developed:

1. Approximately 50 mL of non-bacteriostatic water is measured into a beaker.



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A 0.2-micron filter is attached to a 5 mL syringe, and 3 mL of water is drawn.

A new 0.2-micron filter is applied, and 2.4 mL of water is injected into a vial containing thioglycolate. This procedure is repeated with another vial.



Finally, the content of both vials is transferred to a 100 mL vacuum flask using a 50 mL syringe, labeled, and sealed.

A positive control (CP) is prepared by swabbing the forearm skin and placing the swab in a new thioglycolate vial.

The preparations, along with the CP and a negative control (NC), are stored at room temperature for 14 days.

They are considered free from contamination.

 (\bigcirc) If the vials remain clear After the incubation period, a visual inspection is performed.

If the vials doesn't remain clear

turbidity indicates non-compliance, necessitating corrective measures, including revalidation



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CONCLUSION AND RELEVANCE

VTA is a simple, cost-effective, and easy-to-implement process. Implementing VTA alongside environmental and surface controls in cleanrooms ensures the safety and quality of sterile products, reducing the need for routine microbiological cultures in most cases.



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