RISK ASSESSMENT OF STERILE PREPARATIONS PERFORMED IN THE HOSPITAL PHARMACY SERVICE.

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WHAT WAS DONE?

Sterile magistral formulas are personalized medications prepared in hospital pharmacy services to meet individual patient needs. In 2023, a risk matrix was implemented to systematically evaluate the risks associated with their preparation.

WHY WAS IT DONE?

The preparation of sterile magistral formulas involves significant risks.

A systematic risk assessment was essential to identify vulnerabilities, classify risk levels, and implement preventive measures to improve safety and compliance with regulatory standards.

HOW WAS IT DONE?

- -Sterile magistral formulas prepared during 2023 were identified.
- -A Microsoft Excel® database was designed to apply the GGP-based risk matrix, categorizing formulas into *low, medium, or high risk*.
- -Each formula was evaluated across six key criteria

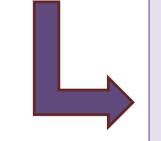


- preparation process
- number of units prepared
- route of administration
 - preparation vulnerabilities
- drug safety profile
- distribution process

-Risk levels were assigned using a combination of letters (A-D) based on the matrix.

WHAT HAS BEEN ACHIEVED?

✓ 80 sterile magistral formulas were assessed



38.75% medium risk >>> 67.7% included a "C" in the matrix

36.25% high risk 96.6% contained at least one "D" 25% low risk



ANALYSIS

- ✓ The most frequent risk combinations were "BBAAAA" (11.25%) and "BBBAAA" (10%)
- ✓ The preparation process and administration route were the primary contributors to overall risk.

WHAT NEXT?



This initiative demonstrated the value of a risk matrix in identifying and managing risks in the preparation of sterile magistral formulas.

It represents a best practice model with significant potential for adaptation in other healthcare settings, enhancing patient safety and standardizing risk management in hospital pharmacy operations.

