Enhancing Drug Compatibility Management in the ICU: A Collaborative Approach Between **Clinical Pharmacists and Medical Staff** UNIVERSITÀ



Brunoro R¹, Martignoni I¹, Grotto A¹, Gambera M² 1. University of Milan - Hospital Pharmacy Specialization School 2. P. Pederzoli Hospital – Pharmacy Service

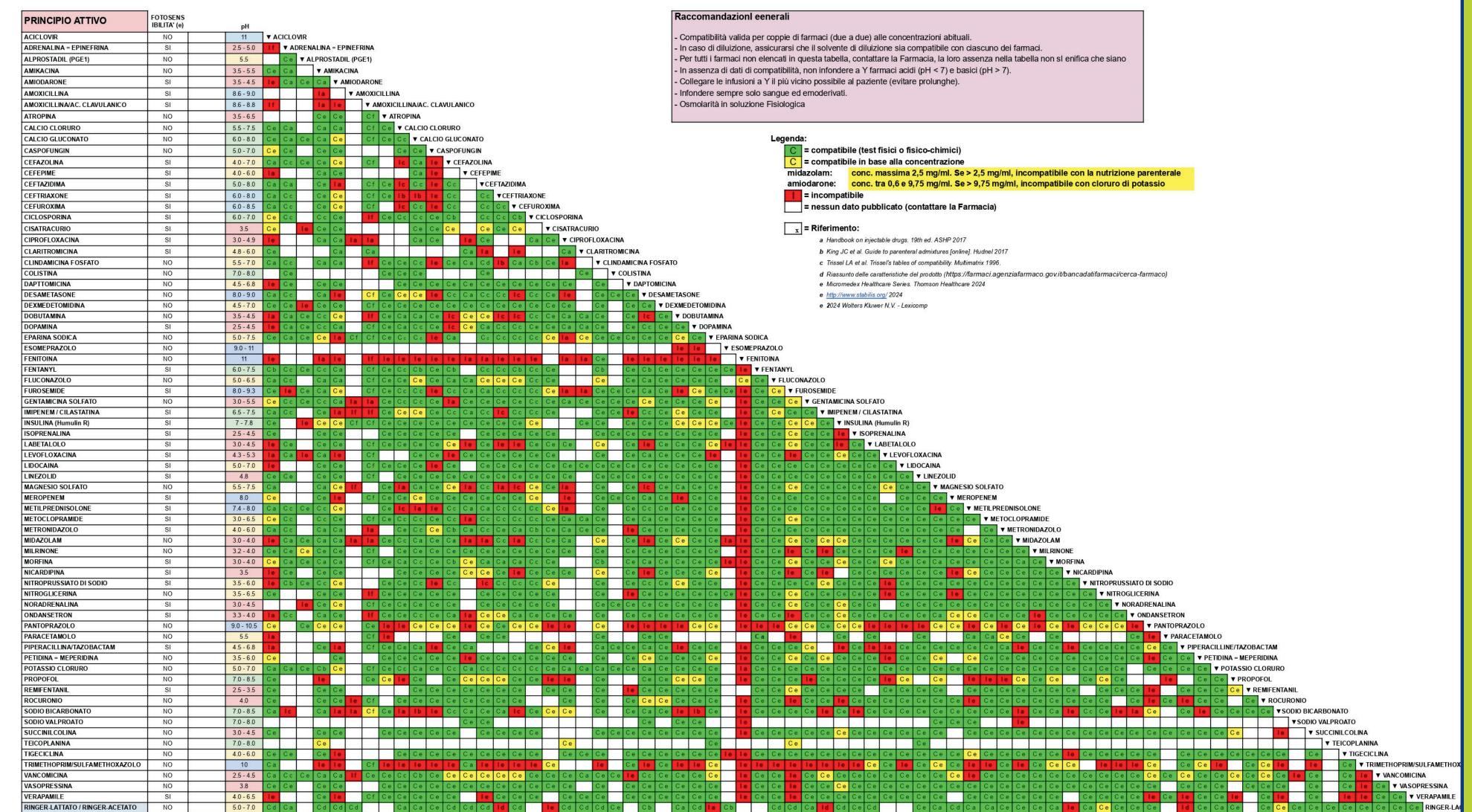


What was done?: Periodic audits in hospital settings play a crucial role in identifying non-conformities and areas for improvement, ensuring that departments meet the required operational standards. During a routine inspection of the intensive care unit (ICU), the hospital pharmacy team discovered an outdated Y-site drug compatibility chart, which had not undergone prior review or approval. This non-conformity underscored the need for updated and reliable resources for managing drug compatibility in critical care settings. Addressing this issue became an opportunity to strengthencollaboration between the pharmacy and the ICU, with the aim of improving patient safety and clinical workflows.



Why was it done?: The primary objective was to update and optimize the Y-site drug compatibility management in the ICU by revising the existing chart and educating the medical staff on real-time, evidence-based tools for accessing drug stability and interaction data integrating these tools into the daily practices of the ICU, ensuring that staff could access the most current information quickly and efficiently.

How was it done?: ICU staff received dedicated training on using up-to-date software tools such as Stabilis, Micromedex, and Lexidrug. These tools provide real-time information on drug stability and interactions. Following the training, a comprehensive review of the ICU's most frequently used medications was conducted and a new Y-site compatibility chart was developed, incorporating the latest stability data. The chart was tailored to meet the specific needs and operational practices of the ICU team, ensuring it was both practical and user-friendly



What has been achieved?: The revised chart and the associated training program significantly enhanced collaboration among healthcare professionals in the ICU, improving communication and awareness of each team member's expertise. Further support measures will be implemented, such drug-specific tables outlining stability, interactions, storage, and handling instructions. These tables align with recommendations on medication management and provide an essential resource for clinical decision-making

Fig. 1: Revised Trissel's IV Compatibility chart

What next?: This project highlights the value of expanding the clinical role of hospital pharmacists, their expertise can directly improve patient care and support the management of complex drug therapies. The initiative not only enhanced the quality and safety of medication administration but also fostered a culture of continuous professional development and collaboration, ultimately benefiting the ICU's clinical operations and patient outcomes





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