

Review of: "Meropenem Usage Assessment amid the Antibiotic Resistance Crisis: A Comprehensive Analysis in a Tertiary Care Hospital in Pakistan"

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Potential competing interests: No potential competing interests to declare.

Meropenem Usage Assessment amid the Antibiotic Resistance Crisis: A Comprehensive Analysis in a Tertiary Care Hospital in Pakistan

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This study addresses a critical issue in contemporary healthcare: the prudent use of antibiotics, specifically meropenem, in the face of rising antibiotic resistance. The research is timely and relevant, especially in the context of a tertiary care hospital in Pakistan, where guidelines and practices may vary significantly.

Strengths:

1. **Relevance:** The focus on antibiotic prescribing patterns and adherence to guidelines is highly pertinent given the global health implications of antibiotic resistance.
2. **Comprehensive Approach:** The study employs a cross-sectional design to evaluate various factors, including demographics, prescribing practices, and patient education, which provides a well-rounded view of the issue.
3. **Data Analysis:** The use of statistical analysis to interpret the data adds rigor to the findings, making them more credible.

Areas for Improvement:

1. **Sample Size and Generalizability:** While the study includes 100 patients, discussing the representativeness of this sample in the broader context of antibiotic prescribing practices in Pakistan would enhance the findings' applicability.
2. **Detail on Methodology:** Providing more detail on the data collection methods and statistical techniques used would strengthen the methodology section and allow for better reproducibility.
3. **Discussion of Implications:** Expanding on how the findings can inform policy changes or clinical practices would enhance the manuscript's impact. Addressing potential barriers to implementing standardized guidelines and educational initiatives would also be beneficial.

Overall, this study makes a meaningful contribution to understanding and improving antibiotic stewardship practices. By

addressing the identified areas for improvement, the authors can enhance the clarity and impact of their findings, which are essential for safeguarding public health against antibiotic resistance.