

Q3 WHAT IS THE BIGGEST RISK OF DOSING ANTIBIOTICS CONTINUOUSLY VS INTERMITTENT

- A. Underdosing with continuous antibiotics
- B. Underdosing with intermittent antibiotics
- C. Greater antibiotic compatibility with continuous dosing
- D. Greater antibiotic compatibility with intermittent dosing

The correct answer is A.

Many antibiotics are effective by time-dependent killing meaning a certain concentration (MIC) over a certain period of time must be achieved in order for effective treatment. Continuous antibiotics can make dosing unreliable due to lost time during the fill and drain portion of a cycle. In addition, shorter dwell times, most commonly via cyclers, can lead to inadequate systemic absorption which is especially important for time-dependent antibiotics.

Further reading:

<https://journals.sagepub.com/doi/epub/10.1177/08968608221080586>