



The Medical **Bulletin**

In Infection

Protection against COVID variants from Previous COVID 19 infections

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Natural infection with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) elicits strong protection against reinfection with other variants.

But the effectiveness in preventing reinfection with different variants is not same.

The effectiveness of previous infection against

Alpha variant	90%
Beta variant	85%
Delta variant	92%
Omicron	56%

Nitrofurantoin Revisited

The common antibiotic that is mostly sensitive in urinary culture reports against common urinary organisms like E coli and Klebsiella is Nitrofurantoin. However, it is not universally recommended against Upper UTI (Pyelonephritis) and men with UTI (unless prostatitis has been ruled out).

Nitrofurantoin will work in vitro (culture plates), but the drug doesn't achieve effective therapeutic concentrations in prostate and kidney (in vivo).

Take home point prescribe Nitrofurantoin for lower UTI (cystitis) not for prostatitis or pyelonephritis (upper UTI) even if it is sensitive in culture report.

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