

Abstract

Some bacterial infections require dual therapy for treatment. When two antibiotic treatments are used concurrently, there needs to be a certainty that the two medications do not interact to avoid complications in the patient. This study looks at the potential interaction of nafcillin sodium and gentamicin. We tested the mixture of nafcillin and gentamicin (in various concentrations) in glass vials and in syringes with sterile water, 5% dextrose, and 0.9% sodium chloride. The only compatibility test with nafcillin and gentamicin was tested in total parenteral nutrition (TPN). We found in all instances that nafcillin and gentamicin are incompatible when mixed in syringe or glass vial; even at low concentrations. Due to this incompatibility, nafcillin and gentamicin shouldn't be administered together via syringe.