**QUIXIN®**

**Quinolones**

**Quinolones** are a class of broad-spectrum antibiotics that inhibit bacterial DNA gyrase, which is essential for the replication and growth of bacterial DNA. They work by binding to the enzyme DNA gyrase, preventing the relaxation of supercoiled DNA, and thereby inhibiting bacterial growth and reproduction. Infections caused by susceptible strains of bacteria can be treated with quinolones, which are effective against a wide range of Gram-negative and Gram-positive bacteria, including enteric Gram-negative rods, anaerobic bacteria, and some species of mycobacteria.

Quinolones are typically administered orally or intravenously and are available as both generic and brand-name products. They are commonly used to treat respiratory infections, urinary tract infections, and skin and soft tissue infections. However, quinolones have been associated with a number of side effects, including gastrointestinal disturbances, central nervous system effects, and interactions with other medications. Therefore, quinolones should be used with caution and under the guidance of a healthcare provider.

**References:**

