

Immunomodulatory Effects of Levofloxacin on Patients with Pneumonia

Badari MS, et al. *Egypt J Immunol.* 2015;22(1):79-85.

- **Immunomodulatory effects of antibiotics could influence the degree of systemic and local responses to infection**
 - Fluoroquinolones are known to exert modulatory activity on immune responses to microbial infection. However the mechanism has not been well documented.
- **Immunomodulatory effects** of levofloxacin were assessed on concentrations of the pro-inflammatory cytokine tumor necrosis factor α (TNF- α) and the anti-inflammatory cytokine Interleukin - 10 (IL-10) in serum of 40 pneumonic patients.
- **Levofloxacin significantly decreased mean levels of TNF- α and IL-10.**

Levofloxacin exerts an IMMUNOMODULATORY effect in patients with pneumonia

This may provide additional benefits in treatment of respiratory tract infections, independent of its antibacterial properties.