

Comparison the Effect of Ceftriaxon and Ampiclox Product by Different Available Companies in Iraq Pharmacies

Ibraheem A.Eltaif*, Duniya K.Salim and Marwa H. Abdulwahab

Collage of Sciences, University of Tikrit, Iraq.

Abstract : Aims : In the last years, Iraq became open market to different unguaranteed antibiotics companies, and the local pharmacies are full of cheated drug and antibiotics. Most of these antibiotics are ineffective. In Iraq, about 50% of patients take the drugs randomly without physician's prescription, without any test and take antibiotics depending on pharmacists. This study sheds light on this matter.

Methods : All productive companies of antibiotics in Iraq were admitted in this study. Twelve of different Ceftriaxone and seven of different Ampiclox (Ampicillin/Cloxacillin) were produced by companies which are available in Iraq pharmacy. Those antibiotics were tested using broth dilution method.

Results : The results of ceftriaxone screening showed that (Acino and Roth) companies which produce these antibiotics are the most antimicrobial effect, whereunto their minimum inhibitory concentration (MIC) = 8 µg/ml, followed by (REX, Bili, LDP and PHIL.GMP) companies, their MIC = 16 µg/ml while (SANAVITA, Ronly, Pharma International, United, BRAWN and LG life sciences) companies, the MIC = 32 µg/ml, are the lowest antimicrobial effect.

Ampiclox screening revealed that (TROGE, SANAVITA and CCM) companies are the most antimicrobial effect, their MIC = 256 µg/ml, followed by (BRAWN and LDP) companies, the MIC = 512 µg/ml, followed by (LG Life Sciences) the MIC = 1024 µg/ml, while (Natural Pharma Limited) companies, the MIC = 2048 µg/ml, are the lowest antimicrobial effect.

Conclusion: This study indicates that the productive companies (Acino and Roth) of ceftriaxone are good options, following by (REX, Bili, LDP, GMP and PHIL). While all ampiclox options are not efficient because their MIC are very high.

Keywords : Iraq Pharmacies, Antibiotics, Determining Minimum Inhibitory Concentration (MIC).

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