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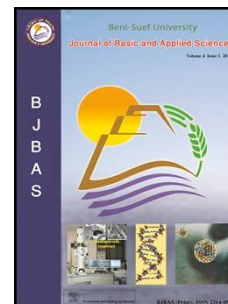
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Study of antimicrobial, analgesic wound healing and antioxidant activities of some newly synthesized Oxychinolin derivatives and their characterization

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ABSTRACT

A series of aryl and heteroaryl substituted Oxychinolin derivatives have been synthesized and spectral characterizations have been conducted with different modern analytical techniques. The antimicrobial activities of the novel synthesized Oxychinolin analogues against different microbial strains have been screened by agar diffusion method. The compounds **4g** and **4h** were observed with significant antibacterial activity in comparison to reference antibiotic (Ampicillin) against most of the bacterial pathogens. Compound 4-((8-hydroxyquinolin-5-yl) diazenyl) -N-(5-methyl isoxazol-3-yl) benzene sulfonamide (**4c**), 4-((8-hydroxyquinolin-5-yl) diazenyl)-1, 5-dimethyl-2-phenyl-1H-pyrazol-3(2H)-one (**4g**) and 2-((8-hydroxyquinolin-5-yl) diazenyl) benzoic acid (**4h**) showed zone of inhibition at MIC level $31.25\mu\text{gml}^{-1}$ against most of the organisms. The compounds **4g** and **4h** are observed with significant wound healing, analgesic and potential antioxidant activity.

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