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Title of Thesis: Analytical and Stability Studies on some Drugs Affecting the Musculoskeletal System

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Abstract :

Most pharmaceutical compounds are subjected to some degradation with the subsequent partial or even complete loss of pharmacological activity or the conversion into harmful or toxic substances. A stability indicating procedure may be defined as a procedure that affords selective determination of a drug in presence of its degradation products. This work is concerned with the quantitative determination of the intact molecules of some for some drugs affecting the musculoskeletal system, namely, diacerein, neostigmine bromide, allopurinol, benzbromarone and orphenadrine citrate in raw materials, in presence of their degradation products and in their pharmaceutical dosage forms using different analytical techniques. Simple spectrophotometric, ion-selective electrode based potentiometric and chromatographic methods were developed for the stability indicating determination of diacerein, neostigmine bromide, orphenadrine citrate and for the analysis of a mixture of allopurinol and benzbromarone.

Keywords :

Spectrophotometric; Ion-selective electrode; Chromatography; Diacerein; Neostigmine bromide; Orphenadrine; Allopurinol; Benzbromarone.