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with the highest antilipase activity. Like cisplatin, their antiproliferative propensities against a panel of colorectal cancer cell lines are investigated with Sulforodamine B (SRB) colometric assay. Surprisingly, some FQ and TFQ derivatives (35, 67, 63, 73, 79, 87 and 89) exhibited unselective cytotoxicity against HT29, HCT116, SW620 CACO2 and SW480 proved comparable to or substantially exceeding that of cisplatin. Finally, this work produced novel FQ and TFQ derivatives with new primary alkyl and aryl amines at C-7 position that may produce new antiobesity and anticancer agents in the future.

Nifedipine self-nanoemulsifying drug delivery system development and evaluation

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Purpose: The small size of drug particles may have several potential benefits in the applications of the drug delivery systems, like the enhancement of drug bioavailability and long-term stability. This study aims to develop a self-nanoemulsifying system of Nifedipine.

Methods: In order to develop the self-nanoemulsifying system, three components were used to construct a ternary phase diagram, olive oil, Tween 80 and Capmul, which help to find the optimum formulation, which was loaded with Nifedipine. The effect of sonication on the drug loading has been also evaluated. After that, measurement of the droplet size, size distribution, zeta potential and SEM were conducted for the formulations.
Results: From the phase diagram, four formulations showed nanosize below 200 nm, but only one was selected to be loaded with Nifedipine. The selected formulation has the lowest droplet size of 98 nm and size distribution 0.192, and is composed of 48% Tween 80, 32% Capmul and 20% olive oil. The Nifedipine SNEDDS showed a significant change in the particle size (97 nm) and size distribution (0.257) after sonication. Its zeta potential was -32.3 indicating good stability. The SEM photographs of Nifedipine showed particles with spherical shape and smooth surface.

Conclusion: It is concluded that Nifedipine can be loaded in a self-nanoemulsifying system with better particle characterization after sonication.

Factors related to medication adherence among patients with type 2 diabetes in Palestine

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Purpose: To assess medication adherence and its relationship with organizational factors and patient characteristics.

Methods: A convenient sample of 250 patients was selected from all type 2 diabetes patients who were seen regularly (at least two visits) over a period of one year. A prestructured questionnaires sought information about patient