



FORMULATION AND EVALUATION OF FLOATING GASTRO RETENTIVE MICROSPHERES OF ESOMEPRAZOLE

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ABSTRACT:

Thermo-sensitive liposomes (TSLs) have been a vital research area in the field of tumor targeted chemotherapy. Since the first TSLs appeared that using 1,2-dipalmitoyl-sn-glyce-ro-3-phosphocholine (DPPC) as the primary liposomal lipid, many studies have been done using this type of liposome from basic and practical aspects. While TSLs composed of DPPC develop the cargo release near the phase transition temperature, it has been shown that many factors affect their temperature sensitivity. Thus numerous attempts have been undertaken to develop new TSLs for improving their thermal response performance. The main objective of this review is to introduce the development and recent update of innovative TSLs formulations, including combination of radiofrequency ablation (RFA), high-intensity focused ultrasound (HIFU), magnetic resonance imaging (MRI) and alternating magnetic field (AMF). In addition, various factors affecting the design of TSLs, such as lipid composition, surfactant, size and serum components are also discussed.

Keywords: Thermo-sensitive liposomes, Content release rate, Hyperthermia, Tumor chemotherapy, Smart liposomes Drug delivery

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