**Preparation and Evaluation Electrospun of Nano Fiber**

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**ABSTRACT**

A homogeneous nanofibre without spherules can be achieved by changing different parameters of solution such as concentration of polymers and concentration of drug, the distance between the tip of the needle and the collector, electrospinning voltage, and solution flow velocity. In this study, polymer and drug can prepared with different concentrations, and can electrospun. The voltage of electrospinning process can chang; the distance between the tip of the needle and the collector in different concentrations can chang; and the flow rate at the diffrent levels can chang too. Most of the time results showed that changes in the concentration of drug have a significant effect on fibre diameter.

Recently, biodegradable polymers have been widely used as drug carriers in the human body [1, 2]. These polymers have been used because they have very low, and near-to-zero, effects on human body; and one of their most important characteristics is that they are suitable carriers for drug delivery, and have direct response to physiological stimuli; and they are also non-official and economical [1, 3, 4]. The purpose of this study is to produce microfibre of polymers and drug with different solvent. It will also investigate the effect of changing drug concentration on the morphology and diametre of fibres.

**Keywords:** Electrospinning, Polymer, Nanofibre, Morphology, Fibre diametre

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