

عنوان مقاله:

Formulation and Evaluation of Chitosan Nanocomposite as a Modern Wound Dressing

محل انتشار:

ششمین کنفرانس بین المللی علوم، مهندسی، تکنولوژی و کسب و کارهای فناورانه (سال: 1402)

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خلاصه مقاله:

Current wound dressings may lack safety and efficacy our objective was to address these concerns by synthesizing a novel antimicrobial dressing containing an antiseptic drug along with silver nanoparticles that itself possess strong antimicrobial activity used for the prevention of wound infections. The physiochemical characterization includes FTIR and TEM studies. FTIR studies reveal that no chemical interaction is present between the ingredients of the formulation. We can clearly see the round structure of blank silver nanoparticles and drug-loaded silver nanoparticles which clearly suggest the uniformity of the formulation. In vitro release studies are also performed on the release of formulation at PH ۵.۵ was about ۷۸ percent of the drug is released in a controlled manner and in PH ۷.۴ the release of .the drug occurs about ۵۰ percent

کلمات کلیدی:

Chitosan, Wound Dressing, Nanocomposite, Silver

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