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Hemostasis poly vinyl alcohol gauze coated with chitosan encapsulated with polymer and drug

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Abstract

Chitosan is the most important derivative of chitin, the second most abundant biopolymer just after cellulose, which has received great attention because of its unique characteristics. Without doubt, its biomedical usages have gained more importance among the vast variety of chitosan applications owing to its good biocompatibility and biodegradability. In recent years, particular interest has been devoted to chitosan hydrogels as a promising alternative in competition with conventional sutures or bioadhesives. In the current work, we have investigated the effectiveness of chitosan hydrogel to stop bleeding . Chitosan was obtained with solubilization of chitosan powder in aqueous acidic media.

Different parameters such as acid type and concentration, and degree of deacetylation (DD%) of chitosan, were altered to modify hydrogel properties including viscosity, pH, cohesive strength, and tissue bioadhesiveness. In vivo experiments have been conducted on rat models which provide a convenient way to evaluate the efficacy of prepared samples.

The arteries vein was punctured on the hind limb of the rat and the gauze was been applied on the punchered area . Bioadhesive strength as well as irritant effects were discussed .

Samples with higher degree of deacetylation, including Chs-16 and Chs-19 that were dissolved in lactic media showed best sealing effect. Further studies are now conducted to optimize the sealing

properties of chitosan on Poly vinyl alcohol based gauze.

Biography

I was born on 21|June |1989 , in Banglore , Karnataka , India , in few month my family was shifted to madurai , Tamilnadu , India . I did my mid schooling Mahatma Montessori matriculation higher secondary school and did my higher level schooling in Montfort anglo indian higher secondary school and tagore vidhalayam school . I finish my schooling grade in 2007 I joined my Bachelor's Degree fashion technology in Kumaraguru college of technology , Coimbatore , Tamilnadu ,India in 2007 June . I did my internships in Roshani printing mills, Surat , Gujarat , India , which was based on using natural dye for colouring garments . TIFAC-CORE Indian government fabric testing lab and Levis stratus .I gained knowledge in special fibres , specialty garments , medicinal textiles and technical textile in the course duration of my degree program . I did my final year Project cum internship in LEVIS STRATUS marketing and pattern making department . My project was about "CURE ID " denim a product of levis , study was about the patter of the denim product and market reach. During my college days I had attended many conference on medical textile , this made my to work more inquisitive on hemostasis gauze .

In the year 2011 . I was graduated as an fashion designer but i made myself to be an independent scientist and worked on HEMOSTASIS GAUZE . This gave me a drive to meet good doctors and pharmaceutics people and gather information on drugs .In 2011 Dec i started to work on my guaze physically and finally i ended up with an final product on2012 Oct . I made my self getting associated with various labs like TIFAC-CORE for gauze development , Ultra dental college Pharmaceutical department lab for drug development and Madurai medical college animal husbandry for animal trial .

2013 Feb 4 , Started a drug delivery molecule for melanoma topical treatment associated with Dr.Somasundream surgical oncologist MOSCOW , RUSSIA

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