

Dr Chander Shekhar

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Dr Chander Shekhar is an Indian born Orthopaedic Surgeon and he is affiliated to IndraPrastha Apollo Hospital, New Delhi, India as a Senior Consultant in Orthopaedic Surgery for last 22yrs. He obtained his graduation (MBBS) from LLRM Medical College, Meerut University, in 1979 & did his Masters in Orthopaedic Surgery from Maulana Azad Medical College, Delhi University, Delhi in 1985. During his MS he wrote an experimental study to evaluate the callus using histological evaluation and mechanical strength in an oeteotomised fibula using a pulsed electromagnetic field. An experimental study on Rabbit fibula done at Maulana Azad Medical College and Indian Institute of Technology under the co guidance of Dr Dinesh Mohan. Dr.Chander Shekhar is a leading Senior Orthopaedic Surgeon practising as a senior consultant in orthopaedic surgery, Apollo Hospital. He is dealing with all kinds of complex musculo skeletal trauma, joint replacement surgery of the hip, knee, shoulder & ankle joint. He also deals with cases of poliomyelitis(PPRP) & cerebral palsy. He also manages cases with foot and ankle problems. His surgical skills include arthroscopy surgery of the knee & shoulder. He is particularly dealing with osteoporosis and tumors of the bone. He has attended various national & international conferences & chaired the sessions. He has been a visiting fellow at Plano Sports Centre, Dallas, US(july 2006) & he has attended Advanced PCL Course, ASIA IRCAD_TAIWAN,Lukang, Taiwan(March 2014). He is married to Mrs Seema Gupta and they have a son & a daughter.



Dr Chander Shekhar believes in innovative simple solutions to complicated problems in Orthopaedic Surgery which are patient friendly and economically viable for the weaker section.

An innovative technique in Local Antibiotic Delivery Method in Open Infected Wounds of the Musculo Skeletal System

Abstract

The objective of this observational study is to use Vitamin D₃ granules as carrier to deliver antibiotics locally into the open infected wound to eradicate infection, help in tissue healing & growth, promote bone mineral density and prevent emergence of resistant bacteria.

Bacterial infection in Orthopedics and Reconstructive surgery can be devastating, and is associated with significant morbidity and poor functional results . Osteomyelitis is an inflammatory bone disorder caused by infection, leading to necrosis and destruction of bone. Local antibiotic delivery is an established method to treat open infected wounds. Many non-biodegradable and bio-degradable carrier options are available to deliver antibiotics deep into the infected wound. But there is still a need to search for an option for a carrier which would overcome the complications or drawbacks of the carriers being used. The aim of this observational study is to use Vitamin D₃ granules as a carrier in Local antibiotic delivery method.

Principally the infected open wounds have been treated by application of Vitamin D granules(Calcirol, Cadilla Pharmaceutical, sachet of 1gm) impregnated with antibiotics. Patients suffering from infected musculoskeletal wounds in diverse conditions such as with Diabetes Mellitus, Immunocompromised states, post surgical infected implants, post operative Osteomyelitis, with Septicemia have been successfully treated by the author using this novel method. The method is extremely simple, effective, low cost, without any complications or side effect and has shown excellent results. No parenteral use of antibiotics was done. In the experience of the author majority of the patients responded well with good healing of the wounds and eradication of infection in three weeks to one month time. Such a method has never been used as suggested by the literature and it is the innovation of the author.

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