

Review Form 1.6

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| Journal Name: | Journal of Pharmaceutical Research International |
| Manuscript Number: | Ms_JPRI_76727 |
| Title of the Manuscript: | Impact of Early Rehabilitation in a complex case of Non-union of Tibial Plafond fracture with Osteosynthesis associated infection – A case Report |
| Type of the Article | Case Report |

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://peerreviewcentral.com/page/manuscript-withdrawal-policy>)

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PART 1: Review Comments

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| <p>Compulsory REVISION comments</p> | <p>In the paragraph "Background" of the item "Abstract" it is necessary to correct the words "Distal" and "Plafond", which must be started with lowercase letters:</p> <p>“Fractures of <u>distal</u> end of tibia associated with soft tissue injuries and fracture of distal fibular end are very complex and forms a total of 1-2% of all fracture of lower limb. These fractures are widely termed as <u>plafond</u> fractures”.</p> <p>In the paragraph "Case Presentation" of the item "Abstract" it is necessary to correct the words and expressions "26 year old", "Road", "cortecotomy", "elizaro ring", three step" and "programme":</p> <p>“A 26-year-old male, a follow up case, gave a history of Road traffic accident following which he underwent corticotomy and application of external Ilizarov fixator. At present due to nonunion of the fracture segments patient got readmitted after a year. Further management through a three-step surgical approach was done. Rehabilitation program began from post-operative day 1 and was continued for a period of three weeks”.</p> <p>In the paragraph "Investigation" of the item "Abstract" it is necessary put a comma after the word “examination”, and to correct the expression “9 role”:</p> <p>On the day of examination, the patient's pain was severe on movement with presence of disuse atrophy of lower limb musculature of the affected extremity. Ranges on the right lower limb at all joints were reduced due to pain. The X-ray showed presence of 9-hole recon plate fixed distally over talus and proximally to tibia.</p> <p>In the paragraph "Management" of the item "Abstract" it is necessary to correct the words "programme":</p> <p>“Physiotherapeutic intervention began with educating the patient and the caregivers about the condition, the precautions to be taken, the expected time of healing and extent of healing. The exercise program was based on the principles of variability and individuality. The protocol was changed weekly with the observed progression in the patient's range, muscles strength and ability to perform more challenging in bed activities”.</p> <p>As for the item “Keywords”:</p> <p>“Tibial Plafond fracture” is not a MeSH term – the correct way is “Tibial Fractures”;</p> <p>“Osteosynthesis associated infection (OAI)” is not a MeSH term – look for another term to use as a keyword.</p> <p>“Physiotherapeutic Rehabilitation” is not a MeSH term – try “Rehabilitation” as a keyword.</p> <p>In the 2nd paragraph of the item Introduction, correct the word "amenabe":</p> <p>These fractures are managed surgical in 4 phases, beginning from restoration of fibular length, followed by autologous bone graft for filling the defect and ending by insertion of buttress plate on distal aspect of tibia (3)(4). Even with advancement in the surgical approaches used long term complication of non- union still persists and therefore the fracture was also termed as not “amenable to surgery” (2).</p> <p>In the “Clinical Presentation” item, correct the expression "26 year old", place aspace</p> | |

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| | <p>before the word "The", correct the word "re-admittedon" and the expression "elizaro ring":</p> <p>“A 26-year-old male, a follow up operated case came to the hospital on 1/10/21 for grade III B fracture of distal tibiofibular joint of right leg. The patient presents with the history of road traffic accident 2 years back on 16/09/19 following which he sustained injuries to right leg. There was an open wound with excessive blood loss associated with pain was sudden in onset. The pain was progressive and continuous in nature. There was no history of head injury, loss of consciousness or chest trauma. Patient was then by the by standers was bought to the hospital where he was managed with external fixator application on the same day. The patient was then discharged and since then at home patient had a non- weight bearing ambulatory functional status. The patient was then re-admitted on 1/10/19 for further wound management. The x ray revealed non- union of the distal tibia fibula fracture segment for which he was operated on 4/10/21 where Ilizarov external fixator was removed and open reduction internal fixation with plate osteosynthesis. The second operation was conducted on the same day where bone graft from right iliac fossa and skin graft from left thigh was taken. Since then, the patient is referred for physiotherapy for further rehabilitation”.</p> <p>In the item "Table 3", correct the term "programme":</p> <p>“Further exercise tailor made program, according to the patient’s progress was as follows”.</p> <p>In the item "Discussion", correct the term "communion":</p> <p>“ It is seen that the extent of involvement of soft tissues and comminution of fracture segments is the basis for selecting the operative approach and procedure (8)”.</p> <p>In the item "Conclusion", correct the terms "three week", "programme", "ilizaro ring" and tailor made:</p> <p>“The three-week rehabilitation program we conclude that early initiation of range of motion, isometrics and strengthening exercises lead to a reduction in symptoms of post- operative stiffness and facilitates healing. In cases which presents with a prolonged history of reduced mobility due to long term application of Ilizarov fixator where atrophy is present, such tailor-made protocols help in early recovery of the affected area and increases patients’ awareness towards re-infection and motivates. Variability with respect to intensity duration and type of exercise performed also plays a major role in keeping the patient motivated and compliant”.</p> | |
| <p>Minor REVISION comments</p> | | |
| <p>Optional/General comments</p> | | |

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PART 2:

| | Reviewer's comment | Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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