

Case Report

## Post Traumatic Non Union of Both Bones Left Leg since 15 Years -A Case Report

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### ABSTRACT

A 39 year old average built patient presented in our hospital with post fracture non union of both bone left leg since 15 years. He suffered from traumatic fracture of both bones left leg 15 years back. He took treatment initially from a quack in his village but didn't consult any qualified doctor due to ignorance as well as financial problems. He now presented to our hospital for consultation and management. Although non union of tibia is not uncommon but this case is reported as patient is walking and doing routine work since past 15 years with non union of left leg bones which is very rare. Some of clinical and radiological photos of this patient are shown here.

**Conclusion:** In our all the patients, the infected extremities healed without the addition of cancellous bone graft, microvascular fibular, or soft -tissue grafting.

**Key words:** Traumatic, fracture, treatment

### INTRODUCTION

Infected nonunion was defined as a state of failure of union and persistent infection at the fracture site for 6 to 8 months.<sup>[1,2]</sup> Open fractures and fractures caused by high-energy trauma are likely to develop nonunion. The tibia, being a subcutaneous bone, is the most commonly involved weight-bearing bone for open comminuted fracture and infected nonunion.<sup>[3,4]</sup> For many years, infected nonunion has been one of the most difficult clinical situations despite major advances in

the fixation technique, soft tissue management, and antibiotic therapy.<sup>[5]</sup>

### CASE REPORT

A 39 year old average built patient presented in our hospital with post fracture non union of both bone left leg since 15 years. He suffered from traumatic fracture of both bones left leg 15 years back. He took treatment initially from a quack in his village but didn't consult any qualified doctor due to ignorance as well as financial problems. He now presented to our hospital

for consultation and management. Although non union of tibia is not uncommon but this case is reported as patient is walking and doing routine work since past 15 years with

non union of left leg bones which is very rare. Some of clinical and radiological photos of this patient are shown here.



Fig.1: Front View of Patient Leg (Non Union).



Fig.2: Lateral View of the Patient Leg (Non Union).



Fig.3: Lateral View of the Patient X-Ray (Non Union).



Fig.4: AP View of the Patient X-Ray (Non Union).

## DISCUSSION

On one hand in the western world where non union of any fracture for such a long duration is uncommon due to awareness about health and high literacy rate while on other hand in our country due to ignorance and financial problem this patient is suffering from non union of both bones of left leg since past 15 years & doing his routine work. Nonunion at the docking site

is a common complication of bone transport. In adult patients, bone grafting is recommended at the time of docking to prevent the common complication of nonunion; however, there is no evidence that bone grafting is necessary at the docking site. Cattaneo et al.<sup>[6]</sup> reported that circular external fixation using the Ilizarov apparatus combined with internal bone transport or compression-distraction techniques were

used to treat 28 patients with infected nonunions or segmental bone loss of the tibia. In all the patients, their infected extremities healed without the addition of cancellous bone graft, microvascular fibular, or soft -tissue grafting. Barbarossa et al.<sup>[7]</sup> described 30 patients with chronic post-traumatic osteomyelitis and infected nonunion with bone defects of the femur, none of whom underwent bone grafts at the docking site; no nonunion occurred.

## CONCLUSION

In our all the patients, the infected extremities healed without the addition of cancellous bone graft, microvascular fibular, or soft -tissue grafting.

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