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## Comparative evaluation of herbal plants as osteogenic agents in mandibular fractures

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 $\mathbf{F}$  racture healing involves complex processes of cell and tissue proliferation and differentiation. Factors involved are growth factors, inflammatory cytokines, antioxidants, bone breakdown (osteoclasts) and bone building (osteoblasts) cells, hormones, amino acids and uncounted nutrients.

Human studies, in fact, suggest that for best fracture healing both calcium intake and its absorption is important. For this we have a very natural solution by providing colloidal calcium from plants like Harjor (*Cissus quadrangularis*) and *Moringa Oleifer* (Saijhan). These plants are very good source of calcium, vitamins and amino acids. Thus they stop degenerative changes and provide strength to bones.

### Drugs used in this study:

Drugs were provided in capsule form by International Institute of Herbal Medicine One capsule osteosel = 250mg harjor + 50mg saijhan + 50mg neem One capsule harjor = 300mg powder dried harjor stem One capsule saijhan = 300mg powder of dried saijhan leaves

#### Study method:

60 Patients were randomly divided into 4 groups Group 1 given two capsules osteoseal BD Group 2 given two capsule harjor BD Group 3 given two capsule saijhan BD Group 4 given two capsule placebo BD

#### **Results and conclusions:**

- Significant reduction in clinical findings ( pain, swelling, mobility ) in group 1 & 2 than group 3 & 4.
- Bite force value at 6<sup>th</sup> follow up week in 90 % reached near to healthy people as compared to 60 only 60 % gain of normal strength in control group.
- Radiological findings OPG were in favor of group 1 & 2.
- Analysis of biochemical marker osteopontin (OPN) was significant.

Harjor accelerates fracture healing and also saijhan was helpful in fracture healing. So osteosel (group 1) is more effective in providing bio-available calcium and other micronutrients required to ensure faster fracture healing.

#### Biography

Nikita V Soni had completed her Under graduation BDS. (Bachelor of Dental Surgery) from K M Shah Dental college and Hospital, Sumandeep University in Vadodara, Gujarat, India in the year 2011. Now she is pursuing her Post graduation, third year MDS. (Master of Dental Surgery) in the Department of Oral and Maxillofacial Surgery from the Faculty of Dental Sciences, King George Medical University Lucknow, Uttar Pradesh, India.

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