## ABSTRACTS. PHYTOPHARM 2012

ya, India). To evaluate the rat erectile function following parameters of male sexual behaviour were examined: latent periods, the intromission frequency, copulatory efficiency, latent period of ejaculation, the number of ejaculations and post-ejaculatory interval. Also, testosterone, NO blood plasma levels, and blood pressure were measured. It was obsereved that the single administration of the tested extract in a dose 12.8 mg/kg significantly reduced the latent periods. The repeated administration of Stronghylocentrotus droebachiensis extract during 60 days led to copulatory efficiency and the number of ejaculations increasing. The tested extract had the same pharmacological activity compared to the reference drugs. Thus, the results of the study shown that Stronghylocentrotus droebachiensis extract can be regarded as the natural origin drug with the good aphrodisiac effects to improve male erectile

## ROLE OF HERBAL OSTEOGENIC AGENTS IN MANDIBULAR FRACTURE — A STUDY

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Fractures of the jaw bones renders not only physical trauma but al so makes the person missout on work productivity and other social obligations for a period ranging from 4-8 week on an average. Ayurveda the ancient science system of the medicine describes various herbs preparation that achieves the hastening of bone healing. The Cissus quadrangularis stimulates osteogenesis (1–3). Cissus quadrangularis (family Vitaceae) a rambling shrub, characterized by a thick quadrangular fleshy stout stem commonly known as "Bone setter" the plant is referred as "Asthisamdhani" in Sanskrit and Hadjod in Hindi because of its ability to join bones (2). In this study we included 30 patients of trauma who reported to the department of Oral and Maxillofacial Surgery. They were treated by close reduction and divided in to two groups: Group 1 — Patients were given 2 capsules of Cissus quadrangularis twice a day for 6 weeks; Group 2 — Patients were given 2 capsules of Placebo (Starch capsules), twice a day for 6 weeks. Before administration of medications, written consent was taken and every possible complications were explained. Through clinical, radiological, biochemical and hematological profile was carried out. Subsequent investigations were carried out during follow up periods. Results were assessed on the basis of clinical hematological, biochemical radiological finding at 1st, 3rd and 6 weeks and on the

3rd month follow up., based on the following parameters, pain, swelling, mobility between fragments, bite force recording, OPG, Serum calcium, Serum phosphate, Alkaline phosphatase, and Osteopontin (4). There was significant reduction in pain, swelling, mobility in group 1. Bite force showed increasing value at subsequent follow-up corresponding to early healing in group 1. All the observation proved that Hadjor (Cissus quadrangularis) accelerates fracture healing.

> References: (1) Deka D K, Lahon LC. Effect of Cissus quadrangularis in accelerating healing process of experimentallyfractured radius-ulna of dog, A preliminary study. Indian J of Pharmacology 1994, 26: 44-45. (2) Narendra Singh & Marilena Gilca (2010) Herbal Medicine Science Embraces Tradition — A new insight into ancient Ayurveda. Lambert Publisher, Germany. 233pp. (3) Parisuthiman D, Singhatanadgit W, Dechatiwongse T, Koontongkaew S. Cissus quadrangularis extract enhances biomineralization through up-regulation of MAPK-dependent alkaline phosphatase activity in osteoblasts. In Vitro Cell Dev Biol Anim 2009, 45: 194-200. (4) Denhardt DT, Noda M. Osteopontin expression and function: role in bone remodeling. J Cell Biochem Suppl. 1998, 30-31: 92-102.