

LLLT improves nerve injuries □ "Reinnervation after nerve injury:

Dr. Shelley M Khullar of the Department of Oral Surgery, Faculty of Dentistry, Oslo, Norway presented her dissertation in February 1997. The title of the dissertation is "Reinnervation after nerve injury: The effects of low level laser treatment". The conclusion of the five published studies are: *A course of 20 LLL treatments using a GaAlAs laser (=820 nm) on an area of long-standing paraesthesiae in the orofacial region induced an objectively evaluated significant improvement in fine mechanosensory perception and a decrease in the area of paraesthesiae. *The significant improvement in mechanosensory perception was also perceived as a subjective improvement by the patients. *A course of 20 LLL treatment with a GaAlAs laser (=820 nm) induced no change in thermoperception in an area of paraesthesiae. *Daily LLL treatment over a 28 day period, with a GaAlAs laser accelerated motor nerve reinnervation as assessed by return of motor function subsequent to a standardised axonotmesis injury in the rat sciatic nerve. *LLL treatment with a GaAlAs (=820 nm) laser enhanced sensory reinnervation of peripheral target tissues subsequent to an IAN axotomy injury in the rat model. The findings are demonstrated immunohistochemically by the presence of CGRP positive neurones.