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**Can we replace 128-Hz tuning fork testing by Vibratip®?**

M.Garbas, V.Urbancic-Rovan, M. Slak, M. Hohnjec

University Medical Centre, Dept. Od Endocrinology, Ljubljana, Slovenia.

**Background and aims.** Sensory neuropathy is an important risk factor for diabetic foot ulceration and gangrene. Two widely used screening methods for neuropathy are the standardized 10-gram Semmes-Weinstein monofilament and 128-Hz tuning fork. Alternatively, a novel simple instrument, Vibratip® can be used to test vibration sensation. In a pilot study in 2012, we have compared the two methods on 42 patients and found no significant differences. This time, we wanted to confirm these results on a larger sample. **Patients and methods.** 496 patients with diabetes (213 women, 283 men, average age 63.8 years) were examined with 128-Hz tuning fork and Vibratip on both feet. **Results.** With both methods, there was no difference between the results of the right and the left foot (all  $p > 0.05$ ). Testing with 128-Hz tuning fork has shown that 181 patients (36.5%) were unable to feel vibration on the left foot and 180 (36.3%) on the right foot. With Vibratip®, only 162 patients (32.7%) were unable to feel vibration on the left foot and 155 (31.3%) on the right foot. The difference was statistically significant (left foot -  $p = 0.007$ , right foot -  $p = 0.012$ ). **Conclusion.** The results indicate that tuning fork is a significantly more sensitive method for early detection of vibration sensation than Vibratip®.