Evolution of the VibroSense Meter®

– Scientific publications

Publications addressing use of the VibroSense Meter® are printed in **bold**.
The most recent publication is first in the list.

**Comparison between multifrequency vibrometry, neurothesiometer and nerve conduction studies in subjects with type 1 diabetes.**
Eero Lindholm¹, Linnea Ekman¹, Jan Apelqvist¹, Magnus Löndahl², Lars B. Dahlin¹ ; September 17, 2019, Poster at EASD in Barcelona

1 Lund University, Malmö, Sweden, 2 Lund University, Lund, Sweden.

Strong association between vibration perception thresholds at low frequencies (4 and 8 Hz), neuropathic symptoms and diabetic foot ulcers
Eero Lindholm¹, Magnus Löndahl², Katarina Fagher², Jan Apelqvist¹, Lars B. Dahlin³,⁴
February 28, 2019, PLOS ONE

1. Department of Clinical Sciences, Endocrinology, Lund University, Malmö, Sweden, | 2. Department of Clinical Sciences, Endocrinology, Lund University, Lund, Sweden, | 3 Department of Translational Medicine— Hand Surgery, Lund University, Malmö, Sweden, | 4 Department of Hand Surgery, Skåne University Hospital, Malmö, Sweden

A novel method for measuring vibration perception thresholds (VPTs) shows an improvement in VPTs in type 1 diabetes patients with improved metabolic control.
Eero Lindholm, Tarq Elgzyri, Magnus Löndahl and Lars Dahlin
October 3, 2018, Poster at EASD in Berlin

Impaired vibrotactile sense in children and adolescents with type 1 diabetes · Signs of peripheral neuropathy.
Erik Ising, Lars B. Dahlin, Helena Elding Larsson
April 19, 2018, PLOS ONE

Vibrotactile Perception in Finger Pulps and in the Sole of the Foot in Healthy Subjects among Children or Adolescents
Lars B. Dahlin, Nuray Güner, Helena Elding Larsson, Toni Speidel
April 2, 2015, PLOS ONE

Test-retest reliability of neurophysiological tests of hand-arm vibration syndrome in vibration exposed workers and unexposed referents.
Lars Gerhardsson, Lennart Gillström and Mats Hagberg.

Impaired vibrotactile sense at low frequencies in fingers in autoantibody positive and negative diabetes
E. Dahlín, E. Ekholm, A. Gottsater, T. Speidel, L.B. Dahlín
27 February 2013, Diabetes Research and Clinical Practice

Neurosensory sequelae assessed by thermal and vibrotactile perception thresholds after local cold injury.
Carlsson D, Burström L, Lilliesköld VH, Nilsson T, Nordh E, Wahlström J.
17 February 2014, Int J Circumpolar Health

Vibration thresholds are increased at low frequencies in the sole of the foot in diabetes - a novel multi-frequency approach
J. Nelander¹, T. Speidel, A. BJörkman, L. B. Dahlin¹,*
4 NOV 2012, Diabetic Medicine
Evolution of the VibroSense Meter®
– Scientific publications

Vibrotactile sense in patients with diabetes and carpal tunnel syndrome
Thomsen, R. Cederlund*, T. Speidel† and L. B. Dahlin

Vibrotactile sense in median and ulnar nerve innervated fingers of men with Type 2 diabetes, normal or impaired glucose tolerance, 2008 Diabetic Medicine 25,
L. B. Dahlin, S. Thrainsdottir, R. Cederlund, N. O. B. Thomsen, K. F. Eriksson†, I. Rosén‡, T. Speidel and G. Sundqvist
DOI: 10.1111/j.1464-5491.2008.02433.x

Hand muscle pathology after long-term vibration exposure.

The two-point discrimination test – time for a re-appraisal? Lundborg G, Rosén B.


Hand function tests and questions on hand symptoms as related to the Stockholm workshop scales for diagnosis of hand-arm vibration syndrome. Cederlund R, Iwarsson S, Lundborg G.


Hand muscle weakness in long-term vibration exposure.

Hand-arm-vibration syndrome (HAVS): is there a central nervous component? An fMRI study.

Vibration-induced hand problems: Role of the peripheral nerves in the pathophysiology

Hand-arm vibration-exposure influences performance of daily activities.


Hand function in workers with hand-arm vibration syndrome.
Evolution of the VibroSense Meter®
– Scientific publications

Vibration-induced neuropathy of the hand. Lundborg G, Dahlin L, Strömberg T.
In: Proceedings (eds. Lundström and Lindmark). 8th International Conference on hand-arm vibration,

Vibrotactile sense in the hand-arm-vibration syndrome. Strömberg T, Lundborg G, Dahlin L.

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Strömberg T, Lundborg G, Holmqvist B, Dahlin LB. Impaired regeneration in rat sciatic nerves exposed to

Hand problems in 100 vibration-exposed symptomatic male workers.

Necking LE, Fridén J, Lundström R, Lundborg G, Thornell LE. Skeletal muscle changes after short term

Necking LE, Lundström R, Dahlin L, Lundborg G, Thornell LE, Fridén J. Tissue displacement is a causative

Vibrerande verktyg kan ge känselstörningar - viktigt att känna till.

Is vibration-induced white fingers a reversible syndrome if vibration is stopped?


Lundborg G, Dahlin LB. Excerpta Medica International Congress Series 1083, IFSSH, Helsinki, Elsevier

Neuropathy in female dental personnel exposed to high frequency vibrations.
Åkesson I, Lundborg G, Horstmann V, Skerfving S. Occupational and Environmental Medicine, 52: 116-

Mechanisms underlying neuromuscular dysfunction following vibration exposure.
Health.

Pain, nerve dysfunction and fatigue in a vibration exposed population.
Evolution of the VibroSense Meter®
– Scientific publications


