# 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.

**1. Oral cannabidiol for prevention of acute and transient chemotherapy-induced peripheral neuropathy**

**Sebastian W. Nielsen1 · Simone Dyring Hasselsteen1 · Helena Sylow Heilmann Dominiak1 · Dejan Labudovic1 · Lars Reiter1 · Susanne Oksbjerg Dalton1,2,3 · Jørn Herrstedt1,3**
**Support Care Cancer. 2022 Nov;30(11):9441-9451.doi: 10.1007/s00520-022-07312-y. Epub 2022 Aug 6.**

**2. Addressing Chemotherapy-Induced Peripheral Neuropathy Using Multi-Frequency Vibrometry and Patient-Reported Outcome**

**Sebastian W. Nielsen 1,* , Sanne Lindberg 1, Christina Halgaard Bruvik Ruhlmann 2,3, Lise Eckhoff 3 and Jørn Herrstedt 1,4**
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**3. Normative values of the vibration perception thresholds at finger pulps and metatarsal heads in healthy adults, PLoS One. 2021 Apr 6;**
**Linnéa Ekman[1] , Eero Lindholm [2] , Elisabeth Brogren[3] , Lars B Dahlin [1 3]**
1 Department of Translational Medicine, Hand Surgery, Lund University, Malmo¨, Sweden, 2 Department of Clinical Sciences, Endocrinology, Lund University, Malmo¨, Sweden, 3 Department of Hand Surgery, Skåne University Hospital, Malmo¨, Sweden

**4. Vibration Perception Threshold and Heart Rate Variability as methods to assess chemotherapy-induced neuropathy in women with breast cancer – a pilot study. Science Direct Cancer Treatment and Research Communications 28 (2021) 100426**
**Simone Diedrichsen Marstrand, MD [a] Kristian Buch-Larsen [a], Michael Andersson [b], Lars Thorbjørn Jensen [c,d], Peter Schwarz [a,d]**
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**c Department of Clinical Physiology and Nuclear Medicine, Herlev Hospital, Borgmester Ib Juuls Vej 71, 2730 Herlev, Denmark**
**d Faculty of Health Science, University of Copenhagen, Blegdamsvej 3, 2200 Copenhagen, Denmark**

**5. Improved metabolic control using glucose monitoring systems leads to improvement in vibration perception thresholds in type 1 diabetes patients. 30 October 2019, Acta Diabetologica**
**Lars B. Dahlin [1,2], Targ Elgzyri[3] , Magnus Löndahl[4] , Linnéa Ekman[1] , Eero Lindholm[3]**
1 Department of Translational Medicine - Hand Surgery, Lund University, Malmö, Sweden, 2 Department of Hand Surgery, Skåne University Hospital, 3 Department of Clinical Sciences, Endocrinology, Lund University, Malmö Sweden,
4 Department of Clinical Sciences, Endocrinology, Lund University, Lund, Sweden

**6. Comparison between multifrequency vibrometry, neurothesiometer and nerve conduction studies in subjects with type 1 diabetes.**
**Eero Lindholm[1] , Linnea Ekman[1] , Jan Apelqvist[1] , Magnus Löndahl[2] ,**
**Lars B. Dahlin[1] ; September 17, 2019, *Poster at EASD in Barcelona***
1 Lund University, Malmö, Sweden, 2 Lund University, Lund, Sweden.

**7. Vibration induced injuries in hands in long-term vibration exposed workers, Journal of Occupational Medicine and Toxicology, 2019 July 15**
**Lars Gerhardsson & Mats Hagberg**
Occupational and Environmental Medicine, University of Gothenburg

**8.** Strong association between vibration perception thresholds at low frequencies (4 and 8 Hz), neuropathic symptoms and diabetic foot ulcers
Eero Lindholm[1], Magnus Löndahl[2], Katarina Fagher[2], Jan Apelqvist[1], Lars B. Dahlin[3,4]
February 28, 2019, PLOS ONE

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

**10.** Vibration thresholds in carpal tunnelsyndrome assessed by multiple frequencyvibrometry: a case-control study Magnus Flondell[1,4], Birgitta Rosén[1,4], Gert Andersson[2,5], Tommy Schyman[3], Lars B. Dahlin[1,4]and Anders Björkman[1,4]. Journal of Occupational Medicine and Toxicology. December 8, 2017

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3 Department of Clinical Studies Sweden– Forum South, Skåne University Hospital, Malmö, Sweden.
4 Department of Translational Medicine – Hand Surgery, Lund University, Malmö, Sweden.
5 Department of Clinical Sciences, Lund University, Lund, Sweden.

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

**12.** 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.
22 October 2014, Journal of Occupational Medicine and Toxicology 2014, 9:38

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

**14.** Neurosensory sequelae assessed by thermal and vibrotactile perception thresholds after local cold injury.
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**15.** 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

**16.** Vibrotactile sense in patients with diabetes and carpaltunnel syndrome
Thomsen, R. Cederlund*, T. Speidel† and L. B. Dahlin
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**17. 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**
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