

BRIEF BACKGROUND

Dr. Harvey N. Mayrovitz received his graduate training at the University of Pennsylvania and did postdoctoral work at Temple University School of Medicine and the Graduate Hospital in Philadelphia. He also trained at the Medical Faculty and Hospital in Rotterdam and at Delft University in the Netherlands. In 1998 he joined Nova Southeastern University where he is a professor of physiology in the College of Medical Sciences with an additional appointment in the College of Osteopathic Medicine. His research interests include skin physiology, lymphedema, wound healing, and more generally noninvasive clinical and biophysical measurements and processes to aid in diagnosis and therapy. He has authored over 150 full papers in peer-reviewed scientific and clinical journals on these and related areas.

SELECTED PUBLICATIONS DURING DR MAYROVITZ'S TENURE AT NSU (In reverse order)

Mayrovitz HN, Spagna P, Taylor MC (2018)

Sacral Skin Temperature Assessed by Thermal Imaging: Role of Patient Vascular Attributes
J WOCN 2018;45(1):17-21

Mayrovitz HN, Fasen M, Spagna P, Wong J (2018)

Role of Handedness on Forearm Skin Tissue Dielectric Constant (TDC) in Relation to Detection Early-Stage Breast Cancer Related Lymphedema Clinical Physiology and Functional Imaging 2018;38:670-675

Viren T, Iivarinen JT, Sarin JK, Harvima I, Mayrovitz HN (2018)

Accuracy and reliability of a hand-held in vivo skin indentation device to assess skin elasticity
International Journal of Cosmetic Science 2018;40:134-140

Mayrovitz HN (2018)

Inter-arm Systolic Blood Pressure Dependence on Hand Dominance
Clinical Physiology and Functional Imaging doi: 10.1111/cpf.12536

Mayrovitz HN, Goldenberg SR, Spagna P, Killpack L, Altman DA (2018)

Characterizing the Tissue Dielectric Constant of Skin Basal Cell Cancer Lesions
Skin Research and Technology DOI: 10.1111/srt.12585

Mayrovitz HN, Araznova E, S Somarriba, Eisa S (2018)

Reference Values for Assessing Localized Hand Lymphedema using Inter-Hand Tissue Dielectric Constant (TDC) Ratios Lymphatic Research and Biology DOI:/10.1089/lrb.2017.0065

Mayrovitz HN (2018)

Assessing Upper and Lower Extremities via Tissue Dielectric Constant (TDC): Suitability of Single vs. Multiple Measurements Averaged Lymphatic Research and Biology (in press)

Koehler LA and Mayrovitz HN (2018)

Spatial and Temporal Variability of Upper Extremity Edema Measures Following Breast Cancer Surgery Lymphatic Research and Biology (submitted 2018-04-04)

Mayrovitz HN, Alvarez A, Labra M, Mikulka A, Woody, D (2018)

A Method to Assess Lower Extremity Edema Via Tissue Dielectric Constant Measurements Biomedical Physics and Engineering Express (submitted 2018-04-08)

Mayrovitz HN and Weingrad DN (2018)

Tissue Dielectric Constant Ratios as a Method to Characterize Truncal Lymphedema LYMPHOLOGY (submitted 2018-07-09)

Mayrovitz HN (2018)

Assessing Lower Extremity Lymphedema Using Upper and Lower Extremity Tissue Dielectric Constant Ratios: Method and Normal Reference Values. Lymphatic Research and Biology (submitted 2018-07-01)

Gutierrez C, Mayrovitz HN, Naqvi SHS, Karni, RJ, (2018)

Effects of Advanced Pneumatic Compression on Patient-reported Outcomes in the Treatment of Cancer-related Head and Neck Lymphedema Supportive Care in Cancer (submitted 2018-07-28)

Mayrovitz HN (2017)

Diurnal Changes in Local Skin Water Assessed Via Tissue Dielectric Constant at 300 MHz Biomedical Physics & Engineering Express 2017 Volume 3 Number 4 Biomed. Phys. Eng. Express 3 047001 <https://doi.org/10.1088/2057-1976/aa7d8c>

Mayrovitz HN, Corbitt K, Grammenos A, Abello A, Mammino J (2017)

Skin Indentation Firmness and Tissue Dielectric Constant (TDC) Assessed in Face, Neck and Arm Skin of Young Healthy Women. *Skin Research & Technology* 2017; 23:112–120

Mayrovitz HN, Grammenos A, Corbitt K, Bartos S (2017)

Age-Related Changes in Male Forearm Skin-to-Fat Tissue Dielectric Constant at 300 MHz. *Clinical Physiology and Functional Imaging* 2017; 37:198–204

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Blood and Vascular Targets for Electromagnetic Field Dosing

In: *Electromagnetic Field Dosing* Ed. M. Markov, CRC Press, Boca Raton Florida, Ch 12

Mayrovitz HN, Mahtani SA, Pitts E, Michaelos L (2017)

Race-Related Differences in Tissue Dielectric Constant Measured Noninvasively at 300 MHz in Male and Female Skin at Multiple Sites and Depths. *Skin Research and Technology* 2017;23(4):471-478

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Arm, Leg and Foot Skin Water in Persons with Diabetes Mellitus (DM) in Relation to HbA1c Assessed by Tissue Dielectric Constant (TDC) Measured at 300 MHz. *J Diabetes Science and Technology* 2017;11(3):584-589

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Tissue Dielectric Constant (TDC) as an Index of Skin Water in Women with and without Breast Cancer: Upper Limb Assessment via a Self-Contained Compact Measurement Device. *Lymphology* 2016;49:27-35

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Usability of advanced pneumatic compression to treat cancer-related head and neck lymphedema: A feasibility study. *Head & Neck*. 2017;00:1–7. <https://doi.org/10.1002/hed.24995>

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Age and Hydration Dependence of Jowl and Forearm Skin Firmness in Young and Mature Women
J Cosmet Dermatol. 2017;1–9, DOI: 10.1111/jocd.12477

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Age-Related Differences in Tissue Dielectric Constant Values of Female Forearm Skin Measured Noninvasively at 300 MHz. Skin Res Technol. 2016; 22: 189–195

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Patterns of Temporal Changes in Tissue Dielectric Constant (TDC) as Indices of Localized Skin Water Changes in Women Treated for Breast Cancer: A Pilot Study. Lymphatic Res and Biology 2015;13(1):20-32

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Adaptive Compression Therapy Maintains Intended Pressure In Contrast To Conventional Bandaging. Journal of Wound, Ostomy and Continence Nursing (JWOCN) 2015 Sep-Oct;42(5):468-73.

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Electromagnetic Fields for Soft Tissue Wound Healing (Ch 15, pp231-251)

In: Electromagnetic Fields in Biology and Medicine, ed M. Markov CRC Press, ISBN 9781482248500

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BOOK CHAPTERS DURING DR MAYROVITZ'S TENURE AT NSU

Mayrovitz HN 2017

Blood and Vascular Targets for Electromagnetic Field Dosing

In: Electromagnetic Field Dosing Ed. M. Markov, CRC Press, Boca Raton Florida, Ch 12

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