**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 100 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 chronological order)**

_**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

_**Mayrovitz HN (2017)**_


_**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 (in press)

_**Mayrovitz HN, Weingrad D, Lopez, L (2017)**_

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 (in press)

_**Mayrovitz HN, Volosko I, Sarkar B, Pandya N. (2017)**_

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 (in press)
Mayrovitz HN and Yzer J (2016)
Local Skin Cooling as an Aid to the Management of Patients with Breast Cancer Related Lymphedema and Fibrosis of the Arm or Breast. Lymphology (in press)

Mayrovitz HN, Grammenos A, Corbitt K, Bartos S. (2016)

Mayrovitz HN, Singh A, Akolkar, S (2016)
Age-Related Differences in Tissue Dielectric Constant Values of Female Forearm Skin Measured Noninvasively at 300 MHz Skin Res Technol. 2016; 22: 189–195


Mayrovitz HN (2015)

Tissue Dielectric Constant (TDC) as an Index of Localized Arm Skin Water: Differences between Measuring Probes and Genders. Lymphology 2015;48:15-23

Mayrovitz HN (2015)
Assessing free and bound water in skin at 300MHz using tissue dielectric constant measurements with the MoistureMeterD in: Lymphedema: Presentation, Diagnosis and Treatment Ed.: Greene AK, Borrson H & Slavin SA, Springer, Chapter 13, pp 133-148

Mayrovitz HN, Weingrad DN, Davey S (2014)
Tissue dielectric constant (TDC) measurements as a means of characterizing localized tissue water in arms of women with and without breast cancer treatment related lymphedema
Lymphology 2014;47:142-150
Harrow J and Mayrovitz HN (2014)
Mayrovitz HN (2013)
Limb Volume Assessments Based on Circumference Measurements: Possibilities and Limitations.
Lymphology 2012;45 (Suppl): 150-155 June 2013
Mayrovitz HN, Guo X, Salmon M, Uhde M. (2013)
Mayrovitz HN, Bernal M, Brlit F, Desfor R (2013)
Mayrovitz HN, McClymont, Pandya N (2013)
Mayrovitz HN, Bernal M, Carson S (2012)
Gender Differences in Facial Skin Dielectric Constant Measured at 300 MHz
Skin Research and Technology 2012;18:504–510
A randomized controlled trial comparing two types of pneumatic compression for breast cancer-related lymphedema treatment in the home. Support Care Cancer 2012;20:3279-3286
Mayrovitz HN (2012)
Skin Tissue Dielectric Constant Values in Women with Breast Cancer: Pre-Surgery and One Year Post-Surgery Lymphology 2012;45 (Suppl): 156-163 6/2013
Mayrovitz HN, Davey S (2011)
Male-Female Differences in Forearm Skin Tissue Dielectric Constant Clinical Physiology and Functional Imaging 2010;30(5):328-332

Mayrovitz HN, Macdonald JM (2010)
Medical Compression: Effects on Leg Pulsatile Blood Flow International Angiology 2010;29(5):436-441

Mayrovitz HN, Luis M (2010)
Spatial Variations in Forearm Skin Tissue Dielectric Constant
Skin Research and Technology 2010;16:438-443

Mayrovitz HN (2010) Local Tissue Water Assessed by Measuring Forearm Skin Dielectric Constant: Dependence on Measurement depth, Age and Body Mass Index
Skin Research and Technology 2010;16:16-22


Hammond T, Mayrovitz HN (2010)
Programmable Intermittent Pneumatic Compression as a Component of Therapy for Breast Cancer Treatment-Related Truncal and Arm Lymphedema Home Health Care Management & Practice 2010;22:397-402

Mayrovitz HN, Davey S, Shapiro E (2009)

Mayrovitz HN and Soontupe LP (2009)
Wound Areas by Computerized Planimetry of Digital Images: Accuracy and Reliability Advances in Skin and Care 2009;22:222-229

Lymphedema: Role of Truncal Clearance as a Therapy Component. Home Health Care Management & Practice 2009;21(5):325-337

Mayrovitz HN (2009)
The Standard of Care for Lymphedema: Current Concepts and Physiological Considerations. Lymphedema Research and Biology 2009;7(2) 101-109


Foot volume estimates based on a geometric algorithm in comparison to water displacement.

Mayrovitz HN, Groseclose EE, King D (2005)
No effect of 80mT permanent magnets on laser-Doppler measured blood flow response to inspiratory

Mayrovitz HN (2005)

Mayrovitz HN, Groseclose EE (2005)
Effects of a static magnetic field of either polarity on skin microcirculation.
Microvascular Research 2005;69:24-27

Mayrovitz HN, Groseclose EE (2005)
Inspiration-induced vasoconstrictive responses in dominant vs. nondominant hands.

Mayrovitz HN, Groseclose EE (2005)
Inspiration-induced vasoconstrictive responses in dominant vs. nondominant hands.

Mayrovitz HN, Sims N, Cross-Brown, Humen S et al. (2005)
Transcutaneous oxygen tension in arms of women with unilateral postmastectomy lymphedema.
Lymphology 2005;38:81-86

Mayrovitz HN (2004)
Electromagnetic linkages in soft tissue wound healing. In: Bioelectromagnetic Medicine ed. PJ Rosch and
MS Markov, Decker, ISBN 0-8247-4700-3 Chapter 30 pp 461-483

Effects of Support Surface Relief Pressures on Heel Skin Blood Flow in Persons With and Without
Diabetes Mellitus
Advances in Skin and Wound Care 2004;17(4):197-201

Mayrovitz HN. (2003)
Limb volume estimates based on limb elliptical vs. circular cross section models. Lymphology
2003;31(3):140-143
Mayrovitz HN, Sims N, Dribin L (2003)
Heel skin hyperemia: Direct compression vs. vascular occlusion.
Clin Physiol Funct Imaging 2003;23:354-359

Effects of support surface relief pressures on heel skin blood perfusion.
Advances in Skin & Wound Care 2003;16:141-145

Macdonald JM, Mayrovitz HN, Sims N (2003)
Lymphedema, Lipedema and the Open Wound: The Role of Compression Therapy Surgical Clinics of North America, 2003;83:639-658

Effects of Ankle-to-Knee External Pressures on Skin Blood Perfusion in the Compressed Leg and Non-Compressed Foot. Advances in Skin and Wound Care 2003;16:198-202

Mayrovitz HN, Sims N, Macdonald JM (2002)

Mayrovitz HN and Groseclose EE (2002)

Mayrovitz HN, Sims N (2002)
Effects of different cyclic pressurization-relief patterns on heel skin blood perfusion.

Mayrovitz HN, Groseclose EE (2002)
Inspiration induced vascular responses in finger dorsum skin.
Microvascular Research. 2002;63:227-232

Ostomy Wound Manage 2002;48:34-42


Microvasc Res 2001;62:74-78

*Advances in Skin and Wound Care* 2001;14:302-308


*Bioelectromagnetics* 2001;22:494-502


*Advances in Wound Care*, 2000;13:272-276


Mayrovitz, HN Smith, J., Ingram, C (1998) Comparisons on venous and diabetic plantar ulcer shape and area


*Advance in Wound Care*. 1998;11(4):176-183

Mayrovitz, HN (1998) Posturally induced lower extremity vasoconstrictive responses: Relationship to standing duration and leg bioimpedance and blood volume changes.


Mayrovitz, HN Assessment of Human Microvascular Function. (1998)

Mayrovitz, HN, Smith, J., Delgado, M., Regan, M.B (1998)
Heel skin microvascular blood perfusion responses to sustained pressure loading and unloading.

Mayrovitz HN Larsen PB (1997)
Effects of compression bandaging on leg pulsatile blood flow.
Clinical Physiology 1997;17:105-117

Mayrovitz HN (1997)
Shape and area measurement considerations in the assessment of diabetic plantar ulcers.
Wounds 1997;9:21-28

Mayrovitz HN (1997)
Compression-Induced Pulsatile Blood Flow Changes in Human Legs.

Mayrovitz HN, Delgado M., Smith J (1997)
Compression Bandaging Effects Lower Extremity Peripheral and Sub-Bandage Skin Blood Perfusion.
Wounds 1997;9:146-52.

Mayrovitz, HN., Smith, J., Delgado, M., Regan, M.B (1997)

Mayrovitz, HN Smith J, Ingram C (1997)
Geometric, shape & area measurement consideration of diabetic neuropathic plantar ulcers.
Ostomy/Wound Management 1997; 3(9):58-64.

Mayrovitz, HN and Smith J (1997)
Variability in skin microvascular vasodilatory responses assessed by laser-Doppler imaging.

Mayrovitz HN, Larsen PB (1996) Pulsatile blood flow indices in lower extremity arterial disease: Leg only compared with leg and cardiac parameters.
Vascular Surgery 1996;30:337- 344
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

Mayrovitz HN (2015)
Electromagnetic Fields for Soft Tissue Wound Healing
In: Electromagnetic Fields in Biology and Medicine, ed M. Markov CRC Press,
ISBN 9781482248500 (Ch 15, pp231-251)

Mayrovitz HN (2015)
Assessing free and bound water in skin at 300MHz using tissue dielectric constant measurements with
the MoistureMeterD
In: Lymphedema: Presentation, Diagnosis and Treatment
Ed.: Greene AK, Brorson H & Slavin SA, Springer, Chapter 13, pp 133-148

Mayrovitz HN (2005)
Compression Therapy
In: Wound Healing Ed. Falabella, A.F. and Kirsner, R.S.
Published by: Taylor & Francis, Boca Raton Florida

Mayrovitz HN (2004)
Electromagnetic linkages in soft tissue wound healing.
In: Bioelectromagnetic Medicine ed. PJ Rosch and MS Markov, Decker, USA ISBN 0-8247-4700-3 Chapter
30 pp 461-483

Mayrovitz HN (1998)
Assessment of Human Microvascular Function. (1998)