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## **Professional Summary**

Medical and business consultant with a proven track record transforming scientific and medical advancement into profitable ventures. With skills honed by years of successful performance in institutions renowned for excellence, I am adept at initiating a concept and managing development to validation and commercialization. Noteworthy attributes include leadership, team building, creativity, presentation skills and entrepreneurship.

## **Mayo Clinic, Rochester, MN**

January 1995 – April 2012

### **Primary Appointment** - Department of Orthopedic Surgery, Rochester, Minnesota

Foot and Ankle musculoskeletal disease management

- Fracture and tendinopathy management of the foot and ankle
- Overall care and management of foot and ankle pathology
- Charcot neuroarthropathy management
- Gait analysis and biomechanical management of the lower extremities

### **Joint Appointment** - Section of Vascular Medicine, Rochester, MN

Gonda Vascular Wound Healing Center

- Director of Clinical Research
- Advanced wound healing and limb preservation practice
- Neuropathic (Diabetic foot), Ischemic foot and leg, Venous Leg, Pressure, Metabolic, Vasculitis, Post-Surgical ulcerations of the lower extremities
- Ischemic ulcerations of the hands, secondary to Scleroderma and Mixed Connective Tissue Disease

**Joint Appointment** – Div. of Preventive, Occupational and Aerospace Medicine, Rochester, MN

- Hyperbaric Medicine: chronic critical limb ischemia and infection

### **Academic Appointments: Mayo Clinic Alix School of Medicine**

- Instructor - 1995 - 1997
- Assistant Professor - 1998 - 2005
- Associate Professor – 2005 – 2012

## **Medical Device Development**

- Low frequency ultrasound therapy, MIST Therapy (Celleration, Inc.)
  - A novel, advanced wound healing technology with superior healing properties with concentration at the cellular and molecular level
  - Developed, managed and performed the basic and clinical science research to validate the novel technology
  - Active participation in the successful regulatory and submission process for FDA approval for the treatment of acute and chronic wound management
  - Direction and guidance to the sales, marketing and commercialization team to deliver the needed education for integrating the technology to physicians, wound centers and hospitals
  - Authorship of multiple peer reviewed publications validating the science and positive clinical and economic outcomes
  - Multiple honors and awards for scientific national and international presentations at conferences/congresses.
  
- Pneumatic Compression Device (Aircast, Inc and ArtAssist, Inc)
  - An intermittent pneumatic compression device to manage advanced arterial disease in chronic and acute critical limb ischemia and wound healing for the upper and lower extremities
  - Developed, managed and participated in clinical trials to assess the efficacy of PCD in patients requiring advanced wound healing in the compromised vascular patient population.
  - Interfaced with the medical directors of the Medicare Administrative Centers (MACs) to develop a reimbursement pathway for coverage in arterial disease.
  - The culmination of this initiative resulted in a national reimbursement policy for Medicare and Medicaid allowing a revenue stream for the commercialization of a PCD for arterial disease
  - Authorship of multiple peer reviewed publications validating the science and positive clinical and economic outcomes
  - Multiple honors and awards for scientific national and international presentations at conferences/congresses.
  
- Aircast Walking Boot, SP Walking Boot, AirHeel (Aircast, Inc., DonJoy, Inc)

- Aircast Walking Boot:
  - Lowered the platform to relieve low back pain and improve gait biomechanics and offloading
- Aircast SP Walker:
  - Conceptualized, designed and participated in the development and biomechanics validation of a short leg walking boot for the management of fractures, tendinopathies and arthritis of the foot and ankle
- Aircast AirHeel:
  - Validated the medical device to manage plantar fasciitis and insertional Achilles tendonitis
  - Authorship of peer reviewed publication validating the science and treatment of this medical device.
- PriMatrix (TEI Biomedical, Inc.)
  - A novel fetal bovine dermal xenograft for tissue repair and advanced wound healing
  - Spearheaded clinical research involving the application of PriMatrix in acute and chronic wounds with significant depth, exposure of tendon and bone
  - Developed, managed and preformed clinical research utilizing case series, prospective and randomized clinical trials involving diabetic foot ulcerations using PriMatrix for advanced healing in the high-risk population
  - Directed the sales force in the key components of educating physicians for the maximum outcomes for patient care
  - Spearheaded sales and marketing for the commercialization for PriMatrix into the regenerative medicine arena
  - Authorship of multiple peer reviewed publications validating the science and positive clinical and economic outcomes.

### **Clinical Practice**

**Private Practice** – Philadelphia, PA and Cherry Hill, NJ

August 1982 – January 1990

- Podiatric medicine and surgery

**Temple University School of Podiatric Medicine**

July 1982 – January 1990

- Instructor of Podiatric Surgery
- Instructor of Anatomy

**Vascular Surgery Associates, Minneapolis, MN**

October 2014 – December 2018

- Private practice
- Wound Healing and Limb Preservation Practice

- Diabetic Foot Ulcers, Venous Leg Ulcers, Pressure Ulcers, Surgical Wounds, Infectious Wounds, Traumatic Wounds, Radiation Wounds

**HealthDrive, Pinnacle Foot and Ankle Clinics**

January 2019 – December 2019

- Podiatric Medicine and Surgery
- Wound Healing and Limb Preservation Practice
- Diabetic Foot Ulcers, Venous Leg Ulcers, Pressure Ulcers, Surgical Wounds, Infectious Wounds, Traumatic Wounds, Radiation Wounds

**Medical Device, Regenerative Medicine: Industry (2012 – present)**

**TEI Biosciences, Boston, MA**

April 2012 – September 2014

Medical Director – Wound Management

- Goal oriented with substantial patient care, research and clinical trial experience
- Excellent collaborative relationships and development of key opinion leaders (KOLs) in different medical and surgical specialties
- Experience at working with cross-functional teams, providing leadership and identifying challenges to meet strategic business objectives in the healthcare industry
- Peer mentoring, management and leadership experience within medical profession and biotechnology industry
- Dynamic interact with FDA, CMS and insurers for the continuation of adoption in scientific and patient care solutions for acute and chronic wounds
- Successful implementation of reimbursement in multiple Medicare Administrative Contractors (MACs) throughout the United States

**Innovacyn, Inc., Rialto, CA**

September 2014 – August 2015

Medical Director – Acute and chronic wound healing and antimicrobial therapy

- Develop evidence-based medicine for hypochlorous acid in acute and chronic wound management
- Develop clinical trial strategy utilizing hypochlorous acid in acute and chronic wounds
- Daily interaction with sales force to support efforts to increase monthly revenue
- Integral member of corporate business development, sales, marketing, reimbursement teams to directly enhance company growth

**Miromatrix Medical, Inc., Eden Prairie, MN**

March 2016 – January 2017

Chief Medical Officer – Regenerative Medicine and Wound Healing

- Consultant for the development of perfusion decellularized porcine hepatic wound matrix
- Focusing on the acute and chronic wounds for inpatient services
- Develop strategic pathways for outpatient services in wound healing

- KOL development for perfusion decellularized porcine wound matrix
- Major focus on sales and marketing support on a daily basis to drive revenue

### **Maryland Medical Laboratories**

August 1992 – December 1994

Vice President - Reference Laboratory Testing Division

- Developed reference testing for the regionally based division: NJ, PA, MD
- Managed sales and marketing staff to develop and implement growth of the reference testing division
- Increase revenue from 16K/month to 165K/month in 16 months

### **Howmedica, Inc.**

January 1990 – July 1992

Trauma Specialist

- Responsible for the introduction of new trauma and joint reconstructive products to the northeast region of the United States.
- Integral team member in presenting to new markets for the newly introduced surgical implants.
- Responsible for penetrating large orthopedic residency programs with new product releases.
- Created the specialty market of hand and foot surgery, reconstructive procedures.

### **EDUCATION**

Rutgers University

BA, Biology: 1972 - 1976

Temple University School of Podiatric Medicine

Doctor of Podiatric Medicine: 1977 - 1981

John F. Kennedy Memorial Hospital

Residency, Podiatric Surgery: 1981 - 1982

### **BOARD CERTIFICATIONS/Fellowship Status**

**American Board of Wound Management:** 1999

**Academy of Physician in Wound Healing:** 2008

**Fellow - American Professional Wound Care Association:** 2000

**Fellow - American College of Certified Wound Specialists:** 2002

### **HONORS and AWARDS**

**Collegiate Research** – Developmental Biology, New Jersey Academy of Science, 1976

**Greatest Proficiency in Foot Surgery** - Temple University School of Podiatric Medicine, 1981

**Clinical Podiatric Medicine Award** - Temple University School of Podiatric Medicine, 1981

**Langer Orthopedics/Biomechanical Award** - Temple University School of Podiatric Medicine, 1981

**Excellence in Medical Writing** - Journal of Foot Surgery, 1982

**Radiologic Society of North America: "Diabetic Foot Disease"** - 86th Scientific Assembly

Radiologic Society of North America, 2000

**Mist Ultrasound Transfer Technology for the Promotion of Chronic Wound Healing,**

**International Union of Angiology** - International Angiology Scientific Activities Congress, 2002

**Intermittent Compression Pump in Patients with Healing Wounds with Limb Ischemia,**

**International Union of Angiology** - International Angiology Scientific Activities Congress, 2002

**Karis Award, Excellence in practice, caring, and integrity to a physician** - Mayo Clinic, 2002

**Improving Limb Salvage with Intermittent Pneumatic Compression in Patients with**

**Critical Limb Ischemia. The Mayo Clinic Experience (1998-2004)** - International Angiology Scientific Activities Congress, Lisbon Portugal, 2006

**Improving Limb Salvage with Intermittent Pneumatic Compression in Patients with**

**Critical Limb Ischemia. The Mayo Clinic Experience (1998-2004)** - Mediterranean League of Angiology and Vascular Surgery Scientific Congress, Heraklion Greece, 2006

**Treatment of Ischemic Wounds with Noncontact, Low-Frequency Ultrasound: The Mayo Clinic Experience, 2004-2006** - 2007 Roberta S. Abruzzese Publishing Award: Advances in Skin & Wound Care, 2007

**Dr. Robert W. Hobson II Award: Diabetic Limb Salvage**, best paper - Georgetown University Hospital, Georgetown University, 2008

**Acellular Fetal Bovine Dermal Repair Matrix for Treatment of Chronic Ulcerations of the Midfoot with Charcot Neuroarthropathy.** Best Poster presentation, American Professional Wound Care Association, Orlando FL, 2012

**Masters Designation - American Professional Wound Care Association.** Given to members with outstanding clinical and academic contributions to wound healing and limb preservation. April 2013

**Desert Foot Conference**, First Place Award for best research paper in Wound Healing and Limb Preservation, November 2013

## **PROFESSIONAL & COMMUNITY MEMBERSHIPS, SOCIETIES AND SERVICES**

American Board of Wound Management

American College of Certified Wound Specialists

American Professional Wound Care Association

- President: 2016 - 2019
- Scientific chairman: 2001 – 2015

Special Editor – Advances Skin & Wound Care

United States Coast Guard Aux

Wound Healing Society

### **PRESENTATIONS: International:**

- 30 in total, available upon request

### **PRESENTATIONS: National:**

- 75 in total, available upon request

### **VISITING PROFESSORSHIPS:**

- 14 in total, available upon request

### **BIBLIOGRAPHY: Peer-reviewed publications**

- 20 in total, available upon request

**BIBLIOGRAPHY: Non-peer reviewed publications**

- 46 in total, available upon request

**BOOK CHAPTERS:**

- 2 in total, available upon request