

# **Michael A. Serghiou, OTR**

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## **Education:**

Bachelor of Science in Occupational Therapy  
University of Kansas. Lawrence, Kansas; January, 1989

Columbia Southern University MBA Program. Estimated completion of studies  
Spring 2009.

## **Professional Experience:**

Shriners Hospitals for Children, Shriners Burns Hospital Galveston;  
Director of Rehabilitation and Outpatient Services; March 2003-Present

Direct the operations of the rehabilitation department (physical/occupational therapy, child life/music therapy, medical photography/graphic arts and medical sculpture). Oversee the development and implementation of clinical programs and protocols, update/write policies and procedures related to clinical practice. Active participant in hospital wide committees (Co-chair of the hospital's Telemedicine Committee). Develop and oversee the budget process for the rehabilitation services department and practice good stewardship of available resources. Oversee the research program activities of the rehabilitation services department. Direct the operations of the outpatient services department (outpatient clinics, outreach program, patient housing and transportation and scheduling). Coordinate the outreach clinic surgical and educational programs. Responsible for the outpatient services department and the outreach program budgets. Prepare and present lectures regarding burn rehabilitation at the local, state, national and international level. Emphasize and promote a healthy and safe work environment; certified "Crucial Conversations" instructor (Vital Smarts™) for current facility. Highly focused on recruitment, retention, professional staff development and customer service. Participated in organizing and executing a successful and safe evacuation of residential outpatients and caregivers during the hurricane Ike disaster.

Shriners Hospitals for Children, Shriners Burns Hospital - Galveston;  
Director of Rehabilitation Services; September 1999- March 2003

Texas Woman's University, Health South - Houston; Hand Fellowship Program  
faculty; Burn Rehabilitation, 1998-2003

Hermann Hospital - Houston; Manager  
Outpatient Rehabilitation Services (OT, PT, ST) October 1996-1999

Hermann Hospital - Houston; Manager  
Occupational Therapy, January 1992 - October 1996

Hermann Hospital - Houston; Clinical II Occupational Therapist  
September 1991- January 1992

Hermann Hospital – Houston; Staff Occupational Therapist  
January 1989 - September 1991

**Licensure:**

Texas Advisory Board of Occupational Therapy; #003285

**Professional Affiliations:**

Texas Occupational Therapy Association, Inc. #9333  
American Burn Association; #9437  
International Society for Burn Injuries; #3133

**Professional Committees:**

International Society for Burn Injuries; Rehabilitation Committee Chair, 2008-2010

American Burn Association; International Outreach Committee Member, 2007-2010

American Burn Association; Rehabilitation Committee Member, 2003-2005

American Burn Association; PT/OT Group Chair 1996-1997

American Burn Association; PT/OT Group Co-Chair 1995-1996

American Burn Association; Rehabilitation Committee Member, 1993-1996

**Professional Presentations:**

The 14<sup>th</sup> Congress of the International Society for Burn Injuries, Montreal, Canada, September, 2008

“The Experience Gained from Providing Burn Rehabilitation Service for an International Outreach Clinic Program”

American Burn Association 40<sup>th</sup> Annual Meeting, Chicago, IL, April, 2008

a) “A Retrospective Study of Metacarpophalangeal (MCP) Joint Flexion in Children with Severe Burns Resulting in Digital Amputations of the Hands”

- b) “A Two-stage Hand Splinting System That Protects Exposed Interphalangeal (IP) Joints and Provides Dynamic Metacarpophalangeal (MCP) Joint Flexion along the Continuum of Care”
- c) “The Effect of Virtual Reality on Perceived Pain and Anxiety in a Pediatric Burn Population”

XXVII Congreso Nacional Asociacion Mexicana De Quemaduras (National Burn Conference), Puerto Vallarta, Mexico, April, 2008  
“Rehabilitacion Temprano de Quemaduras”

The 20<sup>th</sup> Annual Southern Region Burn Conference, Augusta, George, November, 2007  
“Rehabilitation Workshop: All About Kids – Focus on Pediatric Burn Rehabilitation”

Espo Medica, Chihuahua, Mexico, June, 2007. “Comprehensive Rehabilitation of the Pediatric Burn Patient”

Asociacion Mexicana de Quemaduras AC., Morelia, Michoalan, Mexico, April, 2007  
“Burn Rehabilitation along the Continuum of Care”

American Burn Association 39<sup>th</sup> Annual Meeting, San Diego, CA, March, 2007  
“A Twelve Year Comparison of Common Therapeutic Interventions in the Burn Unit”

The 19<sup>th</sup> Annual Southern Region Burn Conference, Durham, NC, November, 2006  
“Positioning of the Burn Patient along the Continuum of Care” (Workshop)

International Society for Burn Injuries 13<sup>th</sup> Congress Meeting, Fortaleza, Brazil, September, 2006

- a) “Burn Rehabilitation Made Thrifty & Affordable”
- b) “A Comprehensive Evaluation of Available Inert Materials”

La Secretarior de Salud de Estado de Nuevo León. Hospital Universitario, Monterrey, Mexico, August, 2006. “Atencion a Niños Menores de 18 Años con Secuelas Severas de Quermaduras”.  
Rehabilitation of the Burn Patient along the Continuum of Care

Centro de Medicina Fisica y Rehabilitación-IPS, “Tratamiento Integral del Paciente Quemado”, Acuncion, Paraguay, July, 2006

Instituto de Salud del Estado de Mexico. Hospital General Dr. Nicolas San Juan. 1<sup>er</sup> Curso International; Manejo Basico del Paciente Quemado, Toluca, Mexico, May, 2005.  
“Rehabilitacion en el Paciente Quemado”

American Burn Association 38<sup>th</sup> Annual Meeting, Las Vegas, NV, April 2006  
“Follow-up Range of Motion in a Music and Movement-Based with Rehabilitation Program versus Standard of Care in Very Young Children with Severe Burns”

The 18<sup>th</sup> Annual Southern Region Burn Conference, Nashville, TN, November, 2005  
An Array of Clinical Rehabilitation Concerns. “Positioning Options”

Management of Burns and Multiple Trauma sponsored by U.S. Army Medical Specialist Corps,  
August, 2005  
“Pediatric Burn Rehabilitation”

American Burn Association Educational Symposium, Chicago, IL, May, 2005  
Rehabilitation, Reconstruction and Reintegration of the Burn Patient. “Management of Hand Burns”

American Burn Association 37<sup>th</sup> Annual Meeting, Chicago, IL, May, 2005

- a) Educational Symposium: “Rehabilitation of the Burned Hand”
- b) “A Suspension Device to Protect Delicate Grafts on Extremities and Prevent Pressure Sores During Immobilization”
- c) “Effects of a 12-week Therapeutic Music and Movement-Based Exercise and Rehabilitation Program on Range of Motion in Burned Children”
- d) “Current Practice Trends for Assessing Strength in Burned Children”
- e) “A Comprehensive 8-12 Week Group Music & Movement Program for Severely Burned Children”
- f) “An Outreach Program that Fosters Education and Collaboration to Promote Comprehensive and Continuous Patient Care in an Economically Underdeveloped Country”
- g) “The Impact of Education and Self-Efficacy on Pressure Sore Prevalence Rates In a Pediatric Burn Intensive Care Unit”
- h) “Improving Outcomes Through Standardized Procedures and Education: Intra-Operative Bulky Dressing Application for Acute Burns”

The 18<sup>th</sup> Annual Southern Region Burn Conference, Nashville, TN, November, 2005  
“The Use of Inserts and massage in Burn Rehabilitation” (Workshop)

The 17<sup>th</sup> Annual Southern Regional Burn Conference, Birmingham, AL, November, 2004  
“Neck Splinting” (Workshop)

American Society of Hand Therapy Annual Meeting, Charleston, NC, October, 2004  
“Burn Rehabilitation of the Upper Extremity”

Universidad de Guadalajara; Hospital Civil, Guadalajara, Mexico, June, 2004  
Actualización en Manejo de Quemaduras. “Rehabilitation of the Burn Patient”

American Burn Association 36<sup>th</sup> Annual Meeting, Vancouver, British Columbia, March, 2004

- a) “Functional Outcomes of Children with Multiple Limb Amputations Following Severe Burns”
- b) “Comprehensive Evaluation of Five Prototype Oral Microstomia Devices”
- c) “A Unique Transtibial Prosthetic Design that Allows for Early Ambulation and Residual Limb Wound Healing in Burn Rehabilitation”

American Burn Association 35<sup>th</sup> Annual Meeting, Miami Beach, FL, April, 2003

- a) “Contractures Following Burn Injury in Children and Adults - A Multi-center Report”

- b)"Optimal Pressure Therapy for the Toddler Burn Survivor"
- c)"Providing an Anchored Calcaneal Strap to Maintain Ankle Mobility Following Peroneal Nerve Injury"

International Society for Burn Injuries 11<sup>th</sup> Quadrennial Congress, Seattle, WA, August, 2002

- a)"Maintaining Upper Extremity function Following Pedicle Flap Resection Using the Multi-Task Splint System"
- b)"Comprehensive Evaluation of Available Microstomia Devices"
- c)"A Screening Tool for Application of Silicone Inserts that Incorporate Silon® Technology to Treat Hypertrophic Scars"
- d)"The ‘Splast’; Combining the Effects of Splinting and Casting"
- e)"A Case Report: Indications for Using a Bypass Orthosis to Facilitate a Standing Program"
- f) "Non-Conventional Positioning for the Critically Ill Burned Patient"

American Burn Association 34<sup>th</sup> Annual Meeting, Chicago, IL, April, 2002

- a)"Use of the WeeFIM (Pediatric Functional Independence Measure) to Predict Functional Performance in Pediatric Burned Patients Longitudinally"
- b)"Development of a Monitoring Tool to Evaluate an Interdisciplinary Competency"
- c)"Standard Rehabilitation Guidelines for Head and Neck Burn Injuries"
- d)"Early Application of ‘Open-Phase’ Neck Splints Following Full Thickness Skin Grafting"
- e)"The WeeFIM Assessment and Pediatric Burns: An Opinion Survey"
- f) "Adding a Barrel to a Dorsal Block Splint to Improve Metacarpophalangeal Joint Flexion in the Pediatric Burned Hand"
- g)"Try the Quad Mouth Opening Splint"
- h)"Dynamic Serial Casting: Combining the Benefit of Movement and Stability in the Correction of Thumb Contractures"
- i) "Alternative Methods for the Prevention and Correction of Burn Scar Torticollis"

American Burn Association 33<sup>rd</sup> Annual Meeting, Boston, MA, March, 2001

- a) “Standard Rehabilitation Guidelines for Dorsal Foot Burns”
- b) “Is Your Caregiver Education Program Effective for Managing the Burn Survivor”
- c)“The Effects of High Versus Low Pressure Garments in the Control of Hypertrophic Scar in the Burned Child: A Final Report”
- d)“Early Ambulation Following Dorsal Foot Release Using the ‘Dynamic Metatarsophalangeal Joint Flexion Tunnel Boot””
- e)“The Oral Circ-O-Kinetic Expander: An Alternative in the Correction of Severe Microstomia”

American Burn Association 32<sup>nd</sup> Annual Meeting, Las Vegas, NV, March, 2000

- a)“Innovative Positioning Techniques for Patients with High Voltage Electrical Burns”
- b)“Management of Post-Burn Itching and Dryness”
- c)PT/OT Special Interest Group Breakout Session: “Updates on New Dressing and Skin Substitutes”

American Burn Association 31<sup>st</sup> Annual Meeting, Lake Buena Vista, FL, March, 1999

- a)"Therapeutic Modalities in Burn Care"
- b)"Multimedia Computer Assisted Instruction: Burns" - 20 minute video.

American Burn Association 30<sup>th</sup> Annual Meeting, Chicago, IL, March, 1998

- a)"Objective Evaluation of Burn Scar Syndactyly"
- b)"Compliance with Pressure Facial Masks and Its Relationship With the Multidimensional Health Locus of Control Scale - Form C"

American Burn Association 29<sup>th</sup> Annual Meeting, New York City, NY, March 1997

- a)"Normal Digital Webspace Anatomy and Function"
- b)"Effectiveness of Silicone Gel vs. Hydrogel Inserts for the Prevention and Treatment of Hypertrophic Scars"
- c)"Serial Casting With Silicone for Volar Hand/Unit Contractures"
- d)"The Dynamic Rubber Finger Tip Splint"

TOTA Mountain Central Annual Conference, Austin, TX, July 1997.

"Comprehensive Management of the Adult and Pediatric Burn Patient"

RMS Services, Houston, TX, May 1977

"Therapeutic Management of the Adult Burn Patient" (Two Day Lecture and Workshop)

American Burn Association 28<sup>th</sup> Annual Meeting, Nashville, TN, March, 1996

- a) "Rehabilitation Considerations for Patients with Exfoliating Skin Disorders"
- b) "Establishing Functional Outcomes in Burn Rehabilitation"

TOTA Mountain Central Annual Conference, Houston, TX, October 1995

"Comprehensive Management of the Burn Patient" (Two Day Lecture and Workshop)

Associated Healthcare Seminars, Houston, TX, October, 1995

"Traumatic Hand Injuries" (Two Day Lecture and Workshop)

American Burn Association 27<sup>th</sup> Annual Meeting, Albuquerque, New Mexico, April, 1995

"Management of the Upper Extremity Following Different Grafting Techniques"

University of Texas Healthcare Center, Plastic Surgery Grand Rounds, Houston, TX, January, 1995

"Upper Extremity Splinting"

National Burn Institute Annual Burn Symposium, Kansas City, KS, November, 1994

"Functional Prosthetic Devices" (Lecture)

9<sup>th</sup> Congress of the International Society for Burn Injuries, Paris France, June, 1994

"Facial and Neck Exercise Program for the Burn Patient"

American Burn Association 26<sup>th</sup> Annual Meeting, Orlando, FL, April, 1994

- a)"A Comprehensive Evaluation of Available Insert Materials"

b)“Standard Therapy Practice in the Burn Unit”

Texas Women’s University Senior Class, Houston, TX, July, 1993

“The Role of Occupational Therapy in the Treatment of Burns”

Burns In Children; Conference, San Antonio, TX, June, 1993

“Deformities; Prevention and Correction” (Lecture & Workshop)

Baylor University Resident/Intern Class, Houston, TX, March, 1992

“The Role of Occupational Therapy in the Rehabilitation of Burn Injuries”

American Burn Association 23<sup>rd</sup> Annual Meeting, Baltimore, MD, April, 1991

a)OT/PT Special Interest Group: “Oral/Facial Massage and Scar Management”  
(Lecture & Breakout Session)

Burns In Children; Conference, Houston, TX, November, 1991

(Two Day Lecture and Demonstration)

“Deformities, Prevention and Correction”

Houston Community College, COTA Program, Houston, TX, September, 1990

“The Role of Occupational Therapy in Burn Rehabilitation”

American Burn Association 21<sup>st</sup> Annual Meeting, Las Vegas, NV, March, 1990

“A Facial/Neck Exercise Program for the Burn Patient”

### **Outreach Programs:**

1. Domestic Outreach Program; Shriners Hospitals for Children - Outreach Clinic Program  
(Missouri, Alabama, Louisiana and Texas) 1999-Present
2. International Outreach Program
  - a) Mexico, Shriners Hospitals for Children – Outreach Clinic Program  
(Guadalajara, Mexico City, Toluca, Monterrey, Veracruz) 1999-Present
  - b) Paraguay, July, 2005 & July, 2006  
Provided education and treatment to adult and pediatric burn patients in Asunción,  
Paraguay.
3. Shriners Hospitals for Children – Galveston; Telemedicine Program

### **Publications:**

Serghiou M, Cowan A, Whitehead C. Rehabilitation After a Burn Injury. In: Cartotto ed. Clinics in Plastic Surgery, 2009. Publication: Pending

Whitehead C, Serghiou M. “A 12-Year Comparison of Common Therapeutic Intervention in the Burn Unit”, Journal of Burn Care & Research, 2009. Accepted for Publication

- Tuden Neugebauer C, Serghiou M, Herndon D, Suman O. Effects of a 12-Week Rehabilitation Program with Music & Exercise Groups on Range of Motion in Young Children with Severe Burns. *Journal of Burn Care & Research*, 2008; 29(6):939-948.
- Richard RL, Hedman TL, Quick CD, Barillo DJ, Cancio LC, Renz EM, Chapman TT, Dewey WS, Dougherty ME, Esselman PC, Forbes-Duchart L, Franzen BJ, Hunter H, Kowalske K, Moore ML, Nakamura DY, Nedelec B, Niszczyk J, Parry I, Serghiou M, Ward RS, Holcomb JB, Wolf SE. A Clarion to Recommit and Reaffirm Burn Rehabilitation. *Journal of Burn Care Research*, 2008; 29:425-432.
- Serghiou M, Rose MW, Pidcock FS, Esselman PC, Engrav LH, Kowalske KJ, Lezotte DC. The WeeFIM (R) instrument – A paediatric measure of functional independence to predict longitudinal recovery of paediatric burn patients. *Developmental Neurorehabilitation*, January-March 2008; 11(1):39-50.
- Serghiou M, Ott S, Farmer A, Morgan D, Gibson P, Suman OE. Comprehensive Rehabilitation of the Burned Patient. In: Herndon ed. Total Burn Care. Philadelphia: Saunders Elsevier; 2007: 620-51.
- Serghiou M, McLaughlin A. Rehabilitation of the Burned Hand. In: McCauley R, ed. Functional and Aesthetic Reconstruction of Burned Patients. Boca Raton: Taylor & Francis; 2005: 489-519.
- Richard R, Chapman T, Dougherty M, Franzen B, Serghiou M, eds. An Atlas and Compendium of Burn Splints. 2005.
- Serghiou M, Farmer SA. A Practical Approach to Acute Burn Rehabilitation. In: Barret-Nerin JP, Herndon DN, eds. Principles and Practice of Burn Surgery. New York: Marcel Dekker; 2005: 317-63.
- Serghiou M, Holmes CL, McCauley RL. A Survey of Current Rehabilitation Trends for Burn Injuries to the Head and Neck. *Journal of Burn Care and Rehabilitation*. 2004; 514–518.
- Serghiou M, McLaughlin A, Herndon D. Alternative Splinting Methods for the Prevention and Correction of Burn Scar Torticollis. *Journal of Burn Care and Rehabilitation*. 2003; 24:336-40.
- Serghiou M, Evan EB, Ott S, Calhoun JH, Morgan D, Hannon L. “Comprehensive Rehabilitation of the Burned Patient”, Total Burn Care, Second Edition, Edited by David Herndon, Chapter 45, pp. 563–592. Saunders, WB, 2002.
- Staley M, Serghiou M. Casting Guidelines, Tips, and Techniques: Proceedings from the 1997 American Burn Association PT/OT Casting Workshop. *Journal of Burn Care and Rehabilitation*. 1998; 19:254-60.

Serghiou M, Staley M. Proceedings of the Physical and Occupational Therapy Special Interest Group Meeting. Topic IV: Establishing competencies for new burn therapists. Journal of Burn Care Rehabilitation. 1998; 19:147-150.

### **Scholarly Activities:**

Journal of Burn Care and Research; Editorial Advisory Board; 2005 - Present

“Burns” Journal of the International Society for Burn Injuries; Editorial Advisory Board; 2008-Present

Active Scientific Staff Member of Shriners Hospitals for Children – Galveston Burns Hospital; 2005 – Present

Moderator; Correlative Session: Rehabilitation  
American Burn Association, Miami Beach, FL, 2003

Moderator; Correlative Session: Rehabilitation  
American Burn Association, Vancouver, BC, 2004

Moderator; Correlative Session: Rehabilitation  
American Burn Association, Chicago, IL, 2008

Moderator; Free Paper Session: Rehabilitation 2  
International Society for Burn Injuries, Montreal, Canada, 2008

Research: Interests

- a) Effectiveness of Silicone Gel Inserts for the Prevention and Treatment of Hypertrophic Scars. (Ongoing)
- b) Prospective Randomized Study of the Effectiveness of Pressure Garment Therapy for the Prevention of Hypertrophic Scarring in Burned Children (Ongoing).

### **Clinical Interests:**

Burn Rehabilitation (Adults/Pediatrics)

Hand Rehabilitation (Adults/Pediatrics)

Orthopedic Rehabilitation

Clinical Research

Wound Care

### **Volunteer Experience:**

- “Camp JANUS” Board of Directors, 1999 – 2003. “Camp JANUS” is a summer camp for children who sustained burn injuries.

- Participated in organizing and attending “Camp JANUS” annually, 1989 – 2004
- Children’s Miracle Network Telethon Volunteer 1993 - 1999

**Honors:**

Recipient of the 3<sup>rd</sup> Annual Barbara Knothe Burn Therapist Achievement Award. American Burn Association, 2004.