

CURRICULUM VITAE

HANNA S. SAHHAR, MD, FAAP, FACOP

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Education:

University of Mosul/Mosul IRAQ 08.1988-07.1994 MBChB 07.20.1994 Doctor of Medicine

Internship:

Makassed Hospital/Jerusalem ISRAEL 10.1994-08.1995

Residencies or Post Doctoral:

Internal Medicine. Al-Hussein (Beit-Jala) Hospital/ Beit-Jala PNA 08.1995-11.1995
General Pediatrics. Caritas Baby Hospital/Bethlehem PNA 11.1995-05.1999
Pediatric Critical Care Medicine. Hope Children's Hospital/OakLawn/IL 08.1999-01.2002
General Pediatrics. Hope Children's Hospital/Oak Lawn/IL 01.2002-01.2004
Pediatric Critical Care Medicine. Hope Children's Hospital/Oak Lawn/IL 01.2004-10.2004

Employment Post Training:

Midwest NeoPed Associates, Ltd	Oak Brook/IL	10.2004-08.2005
Spartanburg Regional Healthcare System	Spartanburg, SC	10.2005-current
Edward via College of Osteopathic Medicine	Spartanburg, SC	10.2011-current

Specialty/Board Certification:

ABP/General Pediatrics	10.2004 (MOC 2024)
ABP/Pediatric Critical Care Medicine	08.2006 (MOC 2026)

Licensure:

ECFMG	1998-Permenant
ILLINOIS PHYSICIAN AND SURGEON	2002-ACTIVE
CALIFORNIA PHYSICIAN AND SURGEON	2003-ACTIVE
SOUTH CAROLINA PHYSICIAN AND SURGEON	2005-ACTIVE
NEVADA PHYSICIAN AND SURGEON	2012-ACTIVE
MONTANA PHYSICIAN AND SURGEON	2013-ACTIVE

Faculty Appointments:

2007 Assistant Professor of Pediatrics, Medical University of South Carolina-Area Health Education center

2011 Associate Professor, Department of Pediatrics, Edward Via College of Osteopathic Medicine-Carolinas Campus

2012 Associate Professor of Pediatrics, Medical University of South Carolina-Area Health Education center

2016 Professor of Pediatrics, Medical University of South Carolina-Area Health Education center

2016 Professor, Department of Pediatrics, Edward Via College of Osteopathic Medicine-Carolinas Campus

Administrative Appointments:

2005-2019 Medical Director Pediatric Intensive Care/Spartanburg Medical Center

2011-2019 Chairman Department of Pediatrics/Edward Via College of Osteopathic Medicine-Carolinas Campus

2012-2019 Director Pediatric Hospitalist Program/Spartanburg Medical Center

2014-2019 Chairman Department of Pediatrics, Spartanburg Medical Center

Hospital Appointments/Privileges:

CURRENT:

Pediatrician/Pediatric Intensivist (Medical Director PICU)
2005-2019 Spartanburg Medical Center/Spartanburg, SC

Other Experience:

2002-2019 Certified Pediatric Flexible Fiberoptic Bronchoscopist and Laryngoscopist Advocate Hope Children's Hospital/Department of Pediatrics/Division of Pediatric Pulmonology.
Spartanburg Regional Healthcare System/Department of Pediatric In-patient Medicine/Pediatric Intensive Care.

Membership in professional/scientific societies:

ACTIVE:

National Societies:

American Academy of Pediatrics (AAP) Active Member ... “Fellow”

Council on Medical Student Education in Pediatrics (COMSEP)

American College of Osteopathic Pediatricians (ACOP) ... “Fellow”

Trials and Research Network For More” (TRANSFORM) South Carolina - Pediatrics ...
Physician Champion

INACTIVE:

International:

Jordan Medical Society (1994-1999)

National:

American Heart Association/American Stroke Association (AHA/ASA) (2009, 2010)

American Medical Association (AMA) (2004, 2005)

Society of Critical Care Medicine (SCCM), Virginia-Carolina Chapter ... “Fellow”

Local:

South Carolina Children’s Hospital Collaborative (2011)

South Carolina Pediatric Critical Care Consortium (2010, 2011)

Spartanburg County Medical Society (2014-2017)

Awards, Honors, Membership in Honorary Societies:

Active member of the International High IQ Society (2005).

Award winner of best poster by fellow/resident at the Dimensions of Excellence/Nesset Research Forum. Research Title “*Pharmacological Treatment of Obesity in children With and Without Hyperinsulinemia*”.

The fourth highest score nationwide of the Pediatric Critical Care in-service exam (MCCKAP) for the year 2004 with score of 727 (98.4%).

Spartanburg Regional Healthcare System: Regional Respect Superstar Banquet award, 2006, 2009, 2010

American’s Top Pediatricians: Consumer’s Research Council of America, 2009, 2010, 2011, 2012, 2014, 2015, 2016, 2017, 2018, 2019

American’s Top Physicians: Consumer’s Research Council of America, 2013

Best Poster Award –Research: 2014 ACOP Spring Conference. *The Efficacy and Comparison of Non-Invasive Mechanical Ventilation (NIV) with High Flow Nasal Cannula (HFNC) Therapy in Management of Severe Respiratory Distress in Infants*

Second Place Best Research Award: 2015 AOA Annual Conference. *Assessment of Respiratory Syncytial Virus Hospitalizations Following Implementation of Updated Palivizumab Treatment Recommendations*

Clinical Faculty of the Block Award. VCOM-Carolinas Campus 2016

Preceptor of the Year 2015-2016 “Excellence in Student Clinical Education” VCOM

Third Place Best Poster-Research. 2016 the American College of Osteopathic Family Physicians (ACOFPP) Annual Conference, Puerto Rico. *Learning to PLAY! Promoting Lifelong Activity in Youth to prevent pediatric obesity through a holistic intervention at an elementary school in South Carolina.*

Best Poster Award –Research: 2017 ACOP Spring Conference. Does Pre-Clinical Pediatric Experience Improve Competence and/or Confidence in Performance During 3rd Year Pediatric Rotations?

Best Oral Presentation-Clinical Research: A retrospective analysis of the impact of FilmArray respiratory panel utilization on the management of pediatric asthma exacerbations.

VCOM Research Day, March 30, 2018

Megan Barcroft, OMS III; Stephanie Bland, OMS III; Kristen Turner, PharmD; Hanna S. Sahhar, MD

ACOP - Pediatric Research & Education for Students (PRES) 2018 Fund Award.

PLAY - Promoting Lifelong Activity in Youth - an Osteopathic Approach to Engage Children in Physical Activity While Incorporating Step Tracking Devices

Hannah Carroll, OMS II; Kristina Freund, OMS II; Ernest Carl Von Harten, OMS II; Alexis M. Stoner, PhD; Liang Shan, PhD; Hanna S. Sahhar, MD

Second Place for best Oral Presentation-Clinical Research: Retrospective analysis of the impact of FilmArray respiratory panel utilization on the management of pediatric influenza cases

VCOM Research Day, April 13, 2019

Hanna Driscoll, OMS III; Meghan Quigley, OMS III; Kristen Turner, PharmD; Hanna S. Sahhar, MD

Academic Committee Activities (past 5 years):

2005-2010 Pediatric Case Review Committee / SRHS /Member
2007-2010 Medical Staff Quality Council / SRHS /Member
2008-2010 Women's & Children's Services Center/Free Standing facility/ SRHS Panning
Committee Member
2005-2014 Pediatric Physician Advisory Council/ SRHS /Member
2005-2014 Critical Care Committee/ SRHS /Member
2005-2019 Resuscitation Committee/ SRHS /Ad Hoc Member
2007-2019 Spartanburg SAFE KIDS Coalition/Council/ Board Member
2007-2019 Pediatric Critical Care Committee/ SRHS /Chairman
2007-2019 Pediatric Resuscitation Committee/ SRHS /Chairman
2009-2019 Trauma Multidisciplinary Committee / SRHS /Member
2010-2016 Pediatric Case Review Committee/ SRHS /Chairman
2010-2019 Pediatric Moderate Sedation Committee/ SRHS /Chairman
2010-2019 Physician Leadership Council/Women's & Children's Committee/ SRHS
/Member
2011-2019 Emergency Medicine Case Review Committee/ SRHS /Ad Hoc Member
2015-2019 Trauma Case Review Committee/ SRHS /Ad Hoc Member
2011-2017 Pediatric Outreach Committee/SRHS/Member
2012-2018 Faculty Senate/VCOM-Carolinas Campus/Member
2014-2019 Pediatric Physician Advisory Council, SRHS, Chairman
2014-2019 Medical Executive Committee, SRHS, Member
2015-2019 EPIC/Peds Inpatient, SRHS, Physician Champion
2016-2019 Infectious Disease Expert Panel/VCOM-Carolinas Campus/Member
2016-2019 TRANSFORM-SC Network/Health Sciences South Carolinas/SRHS Core
Site, Physician Champion
2017-2019 Physician Technology Committee, SRHS, Member
2017-2019 Professional and Ethical Standards Board, VCOM, Member
2018-2019 Quality and Process Improvement Council, SRHS, Member

Community Committee/Boards Memberships (past 5 years):

2005-2019 SafeKids Spartanburg, Board Member
2012-2014 Middle Tyger Community Center, Lyman/ Board of Trustees/Member
2016-2018 Trials and Research Networks For More (TRANSFORM)-South Carolina, PI
and Physician Champions-Spartanburg Site
2018 South Carolina Child Well-Being Coalition, Member/Spartanburg Site Leader

Major Teaching Responsibilities (Current):

Undergraduate Medical Education
 Osteopathic Students-VCOM Carolinas Campus
Graduate Medical Education
 Family Medicine Residency Program-SRHS

Hospital Medicine Fellowship Program-SRHS
Hospice/Palliative Medicine Fellowship Program-SRHS
Graduate Studies Education
ACPNP-Vanderbilt, Alabama, USC Upstate, and Cincinnati Universities
Continuing Nursing Education
Annual Symposiums-Spartanburg
Annual Pediatric Clinical Nursing Courses-SRHS
Continuing Medical Education
Pediatrics Grand Round-SRHS
Medical Staff Updates-SRHS
Fundamental of Critical Care Support-SRHS

Major Clinical Interests:

Areas of Interest:

Respiratory Diseases in Children

Areas of Expertise:

Asthma, Airway Endoscopy, High Tech Respiratory Care, Poisoning, Diabetes, Traumatic Brain Injury

Lectures and Presentations:

Invited lectures and presentations

- Clinical Faculty, Caritas Baby Hospital / Nursing School.
October 1995- April 1999. *Anatomy*
- Clinical Faculty, Nursing Training Center in Jerusalem.
October 1996- March 1999. *Anatomy and Physiology*
- Speaker, Pediatric Critical Care Nursing Class. Hope Children's Hospital
July and December 2000. *Chest Tubes and Pneumothorax*
- Speaker, Pediatric Advance Life Support. Hope Children's Hospital
March, April, June and October 2001: *Integration of Shock and Respiratory Failure*
May 2001: *Trauma*
September 2001: *Recognition of Respiratory Failure and Shock*
- Instructor, Advanced Training Skills Lab. Hope Children's Hospital
March and October 2001
- Speaker, PICU lectures for First Year Residents. Hope Children's Hospital
June 2001, 2002 and 2003: *Status Asthmaticus.*
 - *Mechanical Ventilation.*

- Invited Speaker, Caritas Baby Hospital, Bethlehem Palestine
April 2005: *Status Asthmaticus*.
 - *Emergency Procedures.*
 - *Recognition of Shock and cardiopulmonary failure.*
 - *Multiorgan Dysfunction Syndrome/Multiorgan System Failure (MODS/MOSF) Case Presentation*
- Fundamental Critical Care Support, Instructor 2002 (Active).
2005-2017. Pediatric Considerations (Lecture)
 - Pediatric Mechanical Ventilation skills (Workshop).
- Speaker, CME, Pediatrics Grand Rounds. Spartanburg Regional Healthcare System
June 2006. *Guidelines for Management of Status Asthmaticus.*
- Speaker/Panel Participant, CME, PICU Grand Round. Spartanburg Regional Healthcare System
August 2006. *PICU Trauma Patient “From the Scene to Discharge”*
- Speaker, Organizer, Planner, CME, First Annual Pediatric Critical Care Symposium. Spartanburg Regional Healthcare System/Children’s Regional Health. November 2006. *Status Asthmaticus*
- Speaker, CME, Pediatrics Grand Rounds. Spartanburg Regional Healthcare System
February 2007. *Guidelines for Management of Diabetic Ketoacidosis in Children.*
- Organizer and Planner, CME, Second Annual Pediatric Symposium. Spartanburg Regional Healthcare System/Children’s Regional Health.
May 2007.
- Invited Speaker, Caritas Baby Hospital, Bethlehem Palestine, Educational 3 days
September 2007: *Status Asthmaticus, Noisy Breathing in Children, Pediatric Emergency Medications, Status Epilepticus, Innovative Respiratory Care, ARDS and HFOV*
- Speaker, CME, Pediatric Grand Round. Spartanburg Regional Healthcare System
October 2007. *Noisy Breathing in Children*
- Invited Speaker, Emergency Department Staff, Spartanburg Regional
January 2008: *Cuffed vs. Uncuffed ETT in Children*

- Speaker, Organizer, Planner, CME, Second Annual Pediatric Critical Care Symposium. Spartanburg Regional Healthcare System/Children's Regional Health.
April 2008: *Noisy Breathing in Children*
- Speaker, CME, Pediatric Grand Round. Spartanburg Regional Healthcare System
October 2008. *Laryngomalacia and Subglottic Stenosis*
- Invited Speaker, Emergency Department Staff, Spartanburg Regional
December 2008: *Helium-Oxygen (Heliox) Therapy in Children*
- Speaker, CME, Pediatric Grand Round. Spartanburg Regional Healthcare System
February 2009. *Heliox Treatment in Severe Respiratory Distress*
- Organizer and Planner, CME, Third Annual Pediatric Symposium. Spartanburg Regional Healthcare System/Children's Regional Health.
April 2009.
- Invited Speaker, Emergency Department Staff, Spartanburg Regional
May 2009: *Nitrous Oxide*
- Speaker, CME, Pediatric Grand Round. Spartanburg Regional Healthcare System
June 2009. *Drowning*
- Pediatric Fundamental Critical Care Support, Instructor 2009 (Active).
- Speaker, Organizer, Planner, CME, Third Annual Pediatric Critical Care Symposium. Spartanburg Regional Healthcare System/Children's Regional Health.
April 2010: *Initial Assessment of the Critically Ill Child*
- Speaker, CME, Pediatrics Grand Round. Spartanburg Regional Healthcare System
June 2010. *Kawasaki Disease*
- Invited Speaker, Anesthesia Department Staff, Spartanburg Regional
December 2010: *AHA 2010 CPR ECC Guideline Review & Update*
- Speaker/Panel Participant, Organizer, planner, CME, PICU Grand Round. Spartanburg Regional Healthcare System
March 2011. *A PICU Success Story "From Harm to Healing"*

- Organizer and Planner, CME, Fourth Annual Pediatric Symposium. Spartanburg Regional Healthcare System/Children's Regional Health. April 2011.
- Speaker, Organizer/Director, Planner, Nursing CE. Pediatric Clinical Nursing Conference. Spartanburg Regional Healthcare System. May, June, July 2011. *Seizures, Respiratory Distress, Congenital Heart Disease/Heart sounds and Murmurs.*
- Speaker, CME, Pediatrics Grand Round. Spartanburg Regional Healthcare System July 2011. *AHA 2010 CPE ECC Guidelines Updates and Review*
- Invited Speaker, Emergency Medical Services, Spartanburg County August 2011: *Keys to Successful Resuscitations*
- Invited Speaker, SC Society for Respiratory Care, Piedmont Region, Education Forum February 2012: *Advances in Management of Severe Respiratory Distress in Children*
- Invited Speaker, Department of Respiratory Care, Spartanburg Regional. April 2012: *Respiratory Distress, Advanced Technology*
- Speaker, Organizer, Planner, CME, Fourth Annual Pediatric Critical Care Symposium. Spartanburg Regional Healthcare System/Children's Regional Health. April 2012: *Airway Management Skill Station*
- Invited Speaker, Emergency Medical Services, Spartanburg County May 2012: *Pediatric Emergency Transport: Be Prepared, Always Be Ready*
- Invited Speaker, CME, Pediatrics Grand Round. Spartanburg Regional Healthcare System July 2012. *Seizures in Children-Clinical Approach*
- Organizer and Planner, CME, Fifth Annual Pediatric Symposium. Spartanburg Regional Healthcare System/Children's Regional Health. April 2013.
- Invited Speaker, CME, Pediatrics Grand Rounds. Spartanburg Regional Healthcare System July 2013. *Seizures in Children*

- Invited Speaker, CME, Second Annual Summer Workshop, Spartanburg County School Nurses. Spartanburg Regional Healthcare System/Children's Regional Health.
August 2013: *Concussion in Schools*
- Organizer and Planner, CME, Fifth Annual Pediatric Critical Care Symposium. Spartanburg Regional Healthcare System/Children's Regional Health.
April 2014
- Invited Speaker, CME - Palliative and Hospice Medicine Fellowship Program. Spartanburg Regional Healthcare System
June 2016 and June 2017. *Pediatric Palliative and Hospice Care in Children-The Basics.*
- Speaker, CME, Pediatrics Grand Round. Spartanburg Regional Healthcare System
March 2017. *Kawasaki Disease. A Clinical review*
- Organizer, Speaker, and Planner. Nursing Continuing Education (10.08 contact credit hours). Spartanburg Regional Healthcare System.
June 2018. *Pediatric Intensive Care Course*
- Speaker, CME, Pediatric Grand Round. Spartanburg Regional Healthcare System.
June 2018. *Seizures in Children. 2017 New Classifications*
- Speaker, CME, Pediatric Grand Round. Spartanburg Regional Healthcare System.
September 2018. *Status Diabeticus Management Guidelines*
- Speaker, CME, Pediatric Care Symposium. Spartanburg Regional Healthcare System/Regional Children's Health.
November 2018. *Types of Seizures in Children*

VCOM Faculty Lectures/Presentations:

Course2: Musculoskeletal System:

Congenital Disorders of Thoracic and Lumber Spine

Congenital Disorders of Lower Extremities

Developmental Dysplasia of the Hip

Pediatric Ankle and Foot Deformities

Course3: Neurological System:

Stroke Syndromes in Children

Cerebral Palsy

Congenital Neurological Disorders in Children
Acquired Neurological Disorders in Children
New Onset Seizures in Children

Course4: Cardiopulmonary Systems:
Upper Respiratory Tract Diseases in Children

Course5: Gastrointestinal System:
Inflammatory Bowel Disease and Constipation in Children

Course6: Renal, Reproductive/Endocrine Systems:
Urinary Tract Infections in Children
Child Abuse
Immediate Care of the newborn

Submitted presentations (Abstracts and Posters)

- *Pharmacological Treatment of Hyperinsulinemia Obesity Syndrome in children.*
Published in: The Journal of Advocate Health Care, spring/summer 2003, Vol. 5, No.1
Presented as a poster in the 3rd Annual Dimension of Excellence Conference.

Published in: The Endo 2003 Research Book Summaries.
Presented as a Poster in the Endocrine Society's 85th Annual Meeting.

Published in: The Journal of Pediatric Research. 2003 Vol. 54, No. 5.
Presented as a poster in the 44th Annual Midwest Society for Pediatric Research Meeting.

- *Pharmacological Treatment of Obesity in children With and Without Hyperinsulinemia.*
Published in: The Abstract Book of the 4th Annual Dimensions of Excellence Conference (2004).

Presented as a poster in the conference as a part of the 12th Annual Nessel Research Forum.

Published in: A Supplemental Issue of Pediatric Research Journal 2004.

Presented as a poster in the 2004 Pediatric Academic Societies' Annual Meeting.

- *The Anti-Inflammatory And Hemodynamic Effects Of Milrinone Following Endotoxin Challenge – A Placebo-Controlled, Blinded, Randomized Study.*

Published in: *Pediatr Crit Care Med*-01-JUL-2003;4(3)(SUPPL.): A137-8.

Presented as a poster in the 4th Annual Dimensions of Excellence Conference (2004), as a part of the 12th Annual Nessel Research Forum.

- *Prospective, Randomized Comparison of Continuous Nebulized Racemic- Albuterol with Levalbuterol in Pediatric Patients.*

Published in JAOA, August 2012, Volume 112, Number 8, Page 548
Presented as a poster in American Osteopathic Association Research Conference-
Abstracts, 2012, San Diego, CA Poster #C28

- *Kawasaki Disease: Do Early Diagnosis and Treatment improve Outcome and Prevent Complications?*

Published in: The Journal of the American Osteopathic Association, January 2014,
Volume 114, Number 1, page e18
Presented as a poster at the 57th AOA Annual Research Conference and the AOA's
Osteopathic Medical Conference & Exposition (OMED) 2013, Las Vegas, NV Poster
#S47

- *Comparison of Invasive Mechanical Ventilation with Non-Invasive Ventilatory Support Modalities in Management of Severe Respiratory Distress in Infants*

Presented as a poster at the 2014 ACOP Spring Conference, Kansas City, MO
Published in: The electronic Journal of the American College of Osteopathic
Pediatricians-eJACOP, Spring 2014, Volume 6, Number 3

- *The Efficacy and Comparison of Non-Invasive Mechanical Ventilation (NIV) with High Flow Nasal Cannula (HFNC) Therapy in Management of Severe Respiratory Distress in Infants*

Presented as a poster at the 2014 ACOP Spring Conference, Kansas City, MO
Awarded Best Poster for Research.
Published in: The electronic Journal of the American College of Osteopathic
Pediatricians-eJACOP, Spring 2014, Volume 6, Number 3

- *Permissive Hypercapnia: An Acceptable Prevention of Ventilator-Associated Acute Inhalation Injury in the Presence of Carbon Monoxide Poisoning and Acute Lung Injury Secondary to Smoke Inhalation*

Presented as a poster at the 2014 ACOP Spring Conference, Kansas City, MO
Published in: The electronic Journal of the American College of Osteopathic
Pediatricians-eJACOP, Spring 2014, Volume 6, Number 3

- *Effectiveness of Heliox as adjunct therapy with High Flow Nasal Cannula (HFNC) in Children with Respiratory Distress*

Presented as a poster at the 2015 ACOP Spring Conference, Fort Lauderdale, FL
Published in: The electronic Journal of the American College of Osteopathic
Pediatricians-eJACOP, Summer 2015, Volume 7, Number 4

- *A New Insight to the Cause of Oculo-Auriculo-Vertebral Spectrum. A Case Report.*

Presented as a poster at the 2015 ACOP Spring Conference, Fort Lauderdale, FL
Published in: The electronic Journal of the American College of Osteopathic
Pediatricians-eJACOP, Summer 2015, Volume 7, Number 4

- *Evaluation of the efficacy of Diabetic Ketoacidosis (DKA) management protocol in correcting the Metabolic Acidosis and Dehydration*

Presented as a poster at the Florida Chapter of the American Academy of Pediatrics (FCAAP) and Pediatric Students Research Forum, Orlando FL, 2015.

- *Diabetic Ketoacidosis (DKA) management and through put time in the Emergency Department*

Presented as a poster at the Florida Chapter of the American Academy of Pediatrics (FCAAP) and Pediatric Students Research Forum, Orlando FL, 2015.

- *Treatment and Medical management of infants with Bronchiolitis: Effect of guideline implementation on Length of Stay, Transfer Rate to Critical Care and Cost*

Presented as a poster at the Florida Chapter of the American Academy of Pediatrics (FCAAP) and Pediatric Students Research Forum, Orlando FL, 2015.

- *Idiopathic Idiosyncrasies in a Pediatric Patient. A Case Report*

Presented as a poster at the Florida Chapter of the American Academy of Pediatrics (FCAAP) and Pediatric Students Research Forum, Orlando FL, 2015.

- *Malignant Hyperthermia in a Patient with Freeman-Sheldon Syndrome Complicated by Severe Bronchospasm. A Case Report*

Presented as a poster at the Florida Chapter of the American Academy of Pediatrics (FCAAP) and Pediatric Students Research Forum, Orlando FL, 2015.

- *Assessment of Respiratory Syncytial Virus Hospitalizations Following Implementation of Updated Palivizumab Treatment Recommendations*

Published in: The Journal of the American Osteopathic Association, December 2015, Volume 115, Number 12, page e84

Presented as a poster at the 58th Annual American Osteopathic Association (AOA) Research Conference and the AOA's Osteopathic Medical Conference & Exposition (OMED) 2015, Orlando, FL Poster #C24

Awarded Second Place Best Poster for Research.

- *Comparison and Evaluation of Immunofluorescence Assay and Polymerase Chain Reaction methods in detecting Respiratory Viruses in Pediatric Patients*

Published in: The Journal of the American Osteopathic Association, December 2015, Volume 115, Number 12, page e104

Presented as a poster at the 58th Annual American Osteopathic Association (AOA) Research Conference and the AOA's Osteopathic Medical Conference & Exposition (OMED) 2015, Orlando, FL Poster #C40

- *Effectiveness of Heliox as adjunct therapy with High Flow Nasal Cannula (HFNC) in Children with Respiratory Distress*

Presented as a poster and Theater Snapshot at the 2016 45th Annual Critical Care Congress Orlando, FL (#725)

Published in: The Journal of Critical Care Medicine- Crit Care Med 2015. Volume 43.
Number 12 (Suppl.)

- *Learning to PLAY! Promoting Lifelong Activity in Youth to prevent pediatric obesity through a holistic intervention at an elementary school in South Carolina.*

Poster and Study was presented April 6, 2016 at the American College of Osteopathic Family Physicians (ACOFP) Annual Conference in Puerto Rico
Awarded Third Place Best Poster-Research.

- *Modified Whipple on a 2-Year-Old Child with Pancreatic Transection and Duodenal Rupture Following a Motor Vehicle Accident*

Presented at 2017 Spring Conference of the American College of Osteopathic Pediatricians (ACOP), Louisville, KY and at VCOM Research Day, April 7, 2017
Published in: The electronic Journal of the American College of Osteopathic Pediatricians-eJACOP, Fall 2017, Volume 10, Number 1

- *Does Pre-Clinical Pediatric Experience Improve Competence and/or Confidence in Performance During 3rd Year Pediatric Rotations?*

Presented at 2017 Spring Conference of the American College of Osteopathic Pediatricians (ACOP), Louisville, KY and at VCOM Research Day, April 7, 2017
Awarded Best Poster for Research.

Published in: The electronic Journal of the American College of Osteopathic Pediatricians-eJACOP, Fall 2017, Volume 10, Number 1

- *Infectious Mononucleosis in a 17-month-old male manifesting as persistent fever, lymphocytosis, lymphadenopathy, bilateral otitis media, and unilateral facial palsy*

Presented at 2017 Spring Conference of the American College of Osteopathic Pediatricians (ACOP), Louisville, KY and at VCOM Research Day, April 7, 2017
Published in: The electronic Journal of the American College of Osteopathic Pediatricians-eJACOP, Fall 2017, Volume 10, Number 1

- *Continuing to PLAY (Promoting Lifelong Activity in Youth). An Osteopathic Approach to Preventing Childhood Obesity.*

Presented at 2017 Spring Conference of the American College of Osteopathic Pediatricians (ACOP), Louisville, KY and at VCOM Research Day, April 7, 2017
Published in: The electronic Journal of the American College of Osteopathic Pediatricians-eJACOP, Fall 2017, Volume 10, Number 1

- *Evaluation of the Accuracy of Temporal Artery Thermometer in Children.*

The study was presented as a poster at "International Conference on Nursing Science & Practice", Dallas, TX April 26, 2017.

- *Evaluation of Lumbar Puncture Assist Tool (LPat®) as a guide and training tool for successful lumbar Puncture.*

The study was presented as a poster at "VCOM Research Retreat and Conference", Asheville, NC November 11, 2017.

- *Human Metapneumovirus Causing Pertussis-like Syndrome. First Reported Case in Medical Literature.*

Presented at 2018 Spring Conference of the American College of Osteopathic Pediatricians (ACOP), Fort Myer, FL and at VCOM Research Day, March 30, 2018

- *Silver-Russell Syndrome in the Pediatric Population: A Phenotypic Comparison and Differentiation of Patient Presentations*

Presented at VCOM Research Day, March 30, 2018

- *PLAY - Promoting Lifelong Activity in Youth - an Osteopathic Approach to Engage Children in Physical Activity While Incorporating Step Tracking Devices*

Presented at 2018 Spring Conference of the American College of Osteopathic Pediatricians (ACOP), Fort Myer, FL and at VCOM Research Day, March 30, 2018

Published in: The electronic Journal of the American College of Osteopathic Pediatricians-eJACOP, Winter-Spring 2018, Volume 10, Number 2

- *A retrospective analysis of the impact of FilmArray respiratory panel utilization on the management of pediatric asthma exacerbations*

Presented at 2018 Spring Conference of the American College of Osteopathic Pediatricians (ACOP), Fort Myer, FL and at VCOM Research Day, March 30, 2018, and at South Carolina Medical Association (SCMA) 2018 Annual Conference, Greenville, SC

Published in: The electronic Journal of the American College of Osteopathic Pediatricians-eJACOP, Winter-Spring 2018, Volume 10, Number 2

- *Retrospective analysis of the impact of FilmArray respiratory panel utilization on the management of pediatric influenza cases*

Presented at 2019 Spring Conference of the American College of Osteopathic Pediatricians (ACOP), Pittsburgh, PA and at VCOM Research Day, April, 26 2019
In-Publication eJournal of the American College of Osteopathic Pediatricians. upcoming edition

- *Effectiveness of continuous nebulization treatment of bronchodilation in patient admitted to PICU diagnosed with acute bronchiolitis*

Presented at 2019 Spring Conference of the American College of Osteopathic Pediatricians (ACOP), Pittsburgh, PA and at VCOM Research Day, April, 26 2019
In-Publication eJournal of the American College of Osteopathic Pediatricians. upcoming edition

- *Measles in an Infant*

Presented at 2019 Spring Conference of the American College of Osteopathic Pediatricians (ACOP), Pittsburgh, PA and at VCOM Research Day, April, 26 2019

Published in: The electronic Journal of the American College of Osteopathic Pediatricians-eJACOP, Spring 2019, Volume 11, Number 2

Extramural Professional Activities:

March 2005- September 2005

Master of Business Administration/Health Administration

Benedictine University/WebFlex/ Lisle, Illinois

(Three courses out of sixteen have been completed with Grade "A" each)

I voluntarily dropped out due to personal unsatisfaction with the program.

Publications:

Peer Reviewed Journal Articles:

- Sahhar HS, Mara S, Shahid R, Akhter J. *Juvenile Xanthogranuloma: A rare cause of Subglottic Cyst and Stenosis.* Ear Nose Throat J. 2003 Sep;82(9): 725-6.
- Sahhar HS, Mara S, Boyd C+, Akhter J. *Ectopic Subglottic Thymic Cyst: a rare cause of Congenital Stridor.* Ear Nose Throat J. 2003 Nov;82(11): 873-4.
- Akhter J, Sahhar HS. *Flexible Fiberscope Directed Removal of Mucus Plugs in a Child with Plastic Bronchitis.* J Bronchol 2004 Apr;11(2): 112-4.
- Sahhar HS, Cantrell K. *A Sticky Situation: Type I (inflammatory) Plastic Bronchitis in infant treated with aerosolized Tissue Plasminogen Activator. A Case report.* ACOP-eJournal, Spring 2012, Vol. 4, No. 3
- Hays J, Sahhar HS. *HELIOX: Help or Hindrance? The use of Heliox in the Pediatric ICU Setting.* ACOP-eJournal, July 2012, Vol. 4, No. 4
- Barrick CJ, Thompson MM, Sahhar HS. *Bordetella bronchiseptica in an Immunocompetent Infant with No Known Animal Exposure Later Diagnosed with Autism Spectrum Disorder. A Case Report.* ACOP-eJournal, Spring 2013, Vol. 5, No. 3
- Turner H, Taylor M, Sahhar HS. *Severe Interstitial Lung Disease (ILD) in an infant with Respiratory Syncytial Virus (RSV) Infection. A Case Report.* ACOP-eJournal, Fall 2013, Vol. 6, No. 1
- Howard AC, Sahhar HS. *Henoch-Schönlein Purpura (HSP) in a 44-Day-Old Female Infant.* ACOP-eJournal, Summer 2014, Vol. 6, No.4

- Sahar NH, Lusher E, Monaghan SB, Sahhar HS. *Salmonella Schwarzengrund-Induced Meningitis and Septicemia in a Seven-Week-Old Infant*. ACOP-eJournal, Spring 2015, Vol. 7, No. 3
- Mains ND, Sahhar HS. *Bronchiolitis Obliterans Organizing Pneumonia (BOOP) in a 12 year-old adolescent male*. ACOP-eJournal, Spring 2016, Vol. 7, No. 6
- Sahhar HS, Barcroft M, Farber S (2017) *Human Metapneumovirus Causing Pertussis-like Syndrome*. Clin Pediatr 2: 124. doi:10.4172/2572-0775.1000124

Chapters in Scholarly Books and Monographs

- Sahhar HS, Ostrowski D, Jaimovich DG. *Transport of Neonatal and Pediatric Patients Requiring Extracorporeal Life Support*. In Jaimovich DG, Vidyasagar D (2nd ed): Handbook of Pediatric and Neonatal Transport Medicine. Philadelphia, Hanley & Belfus, 2002, pp 248-259.
- Insoft RM, Jaimovich DG, Sahhar HS. *High-Tech Respiratory Care on Transport*. In Jaimovich DG, Vidyasagar D (2nd ed): Handbook of Pediatric and Neonatal Transport Medicine. Philadelphia, Hanley & Belfus, 2002, pp 260-266.

Peer Reviewed Electronic and other Publications:

- *Diagnostic Testing for Acute Head Injury in Children: When are Head Computed Tomography and Skull Radiography Indicated?* An Article Review. Available online at: <http://www.PedsCCM.org>. Published on September 28, 1999.
- *Noninvasive Ventilation in Severe Hypoxemic Respiratory Failure: A Randomized Clinical Trial*. An Article Review. Available online at: <http://www.PedsCCM.org>. Published on February 14, 2004.
- Pediatric Emergency Card “Pocket Card”. Copyright © 2006-2019 H. Sahhar. Library of Congress Catalog Card Number: TXu001805907
- Status Asthmaticus Guidelines “Pocket Card”. Copyright © 2007-2019 H. Sahhar. Library of Congress Catalog Card Number: TXu001806044
- NICU Resuscitation Wheel “Pocket Card”. Copyright © 2012 Whiteside & Sahhar. Library of Congress Catalog Card Number: TXu001815142

- Magazine Article: Children's Health is No Accident. Belle Magazine, June 2011, pp 18, 20.
- Toxicology Flash Cards "Game and Study Guide". Copyright © 2017 H. Sahhar. Submitted to U.S. Copyright Office May 16, 2017. Library of Congress Catalog Card Number: TX0008445549

Non-Peer Reviewed Electronic Publications:

- *Pediatric Pulmonology Immunology and Allergy*. Teaching CD-Rom. Copyright © 2004 Akhter & Sahhar. Library of Congress Catalog Card Number: TX0005900533
- *Pediatric Intensive Care ECG Interpretation*. CD-Rom. Copyright © 2006 H. Sahhar, MD.

Book Publication:

Pediatric Critical Care Handbook for PICU Rotations
 1st Ed 2019
 ISBN 978-1-7323417-0-8
 Library of Congress Catalog Card Number: TXu002143852

Invention/Innovation:

Human Lumbar Puncture Assist Device (LPat®)
 Canadian Intellectual Property Office (Industrial Design) Patent Registration No. 166052 issued date July 20, 2016
<https://www.ic.gc.ca/app/opic-cipo/id/dsgnDtls.do?appNm=166052&lang=eng&status=OK&ordNum=1>

EU Design Patent Application: Application Number 002916262 filing date December 18, 2015
<https://worldwide.espacenet.com/publicationDetails/biblio?DB=EPODOC&II=0&ND=3&adjacent=true&locale=en EP&FT=D&date=20161110&CC=US&NR=2016324539A1&KC=A1#>

Human Lumbar Puncture Assist Device
 United States (US) Design Patent No. D799,696 issued date October 10, 2017
<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnethtml%2FPTO%2Fsearch-adv.htm&r=1&f=G&l=50&d=PALL&S1=d799696&OS=d799696&RS=d799696>

Lumbar Puncture Assist Tool (LPat®)
 United States (US) Patent No. 10,245,068 issued date April 02, 2019
<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnethtml%2FPTO%2Fsearch-adv.htm&r=1&f=G&l=50&d=PALL&S1=10245068&OS=10245068&RS=10245068>

Research Projects Finished and published under mentors name (Research Assistant):

- Septic Shock; Chapter in Handbook for Pediatric Critical Care.
- International Study of Mechanical ventilation in Pediatric Intensive Care Units.
- Levalbuterol vs. Racemic Albuterol Multi Case Studies.

Manuscripts/papers in progress and preparation:

- Prospective, Randomized Comparison of Continuous Nebulized Racemic-Albuterol with Levalbuterol in Pediatric Patients.
Hanna Sahhar, MD, FAAP; Christine Steffensen, PharmD; Suporn Sukpraprut, PhD; Myra Zeb, OMS-I; David Jaimovich, MD
- The Anti-Inflammatory And Hemodynamic Effects Of Milrinone Following Endotoxin Challenge – A Placebo-Controlled, Blinded, Randomized Study.
Hanna S. Sahhar, MD, FAAP; Michael Verive, MD; David Jaimovich, MD
- Utilizing High Frequency Chest Compression (HFCC –“vest therapy”) in status asthmaticus PICU patient population
Devonne Gerstenacker, RN, MSN; Kim Cantrell, RRT-NPS; Hanna S. Sahhar, MD, FAAP
- Evaluation of the Pediatric Intensive Care Unit (PICU) clinical staff in the management of croup case (laryngotracheobronchitis) during mock code exercises utilizing high fidelity simulation technology
Fred Rawlins, DO, FACOEP; Hanna S. Sahhar, M.D., FAAP; Suporn Sukpraprut, PhD, MA, MSc; Watson Edwards, BSN; Christopher Martin, BS, NREMT-P; Janella Looney, BA; Carolyn Lucas, RN, MEd, EdS; Jennifer Januchowski, RN
- Comparison of the Pediatric intensive care unit (PICU) vs. Emergency Room staff in the management of croup case (laryngotracheobronchitis) during mock code exercises utilizing high fidelity simulation technology
Fred Rawlins, DO, FACOEP; Hanna S. Sahhar, M.D., FAAP; Suporn Sukpraprut, PhD, MA, MSc; Watson Edwards, BSN; Christopher Martin, BS, NREMT-P; Janella Looney, BA; Carolyn Lucas, RN, MEd, EdS; Jennifer Januchowski, RN
- Kawasaki Disease: Do Early Diagnosis and Treatment improve Outcome and Prevent Complications?
Ekta Sharma, OMS-II; Nicole Samies, OMS-II; Devonne Gerstenacker, RN, MSN; Sami Rishmawi, MD; Hanna S. Sahhar, MD,FAAP
- Permissive Hypercapnia: An Acceptable Prevention of Ventilator-Associated Acute Inhalation Injury in the Presence of Carbon Monoxide Poisoning and Acute

Lung Injury Secondary to Smoke Inhalation
Siddhi Gupta, OMS-IV and Hanna S. Sahhar, MD, FAAP, FACOP

Ongoing Studies and Research Projects:

- Evaluation of Lumbar Puncture Assist Tool (LPat®) as a guide and training tool for successful lumbar Puncture (VCOM-IRB Protocol# 2015-003)
- Effectiveness of Noninvasive Ventilator Modes of Respiratory Support for Infants and Children with Acute Bronchiolitis (SRHS-IRB Protocol#00047322)
- *PLAY - Promoting Lifelong Activity in Youth - an Osteopathic Approach to Engage Children in Physical Activity using an Integrative Family-Centered Approach (VCOM-IRB Protocol# 2017-039)*
- *The Efficacy and Safety of Human Lumbar Puncture assist Device (LPat). (SRHS-IRB Pro00073159)*
- *Advancing Clinical Trials in Neonatal Opioid Withdrawal Syndrome (ACT NOW) Current Experience: Infant Exposure and Treatment (SRHS-IRB# Pro00074329)*
- *Neonatal Illicit Substance Exposure SC (NICE SC) (SRHS-IRB# Pro00078245)*

Community Outreach/Volunteer Activities (2012-2018):

April 2012 Organizer and Planner, Fourth Annual Pediatric Critical Care Symposium. Spartanburg Regional Healthcare System/Children's Regional Health

May 2012 Physician in Charge, Pump it Up-Guinness World Records Participation, "Spring Fling" Spartanburg SC

November 2012 Physician in Charge/Advisor, First Annual Kids-Wellness Fair, VCOM-CC, Spartanburg SC

December 2012 Physician in Charge, Annual School Health Screening and Comprehensive Exams, Meeting Street Academy, Spartanburg SC

April 2013 Organizer and Planner, Fifth Annual Pediatric Symposium. Spartanburg Regional Healthcare System/Children's Regional Health

May 2013 Project Director, Spartanburg County Schools District 5 Tdap Vaccination, Middle Tyger Community center, Lyman SC

August 2013 Physician in Charge, Community Celebration “Back to School”
Health Screening, Middle Tyger Community Center, Lyman SC

October 2013 Physician Volunteer, Special Olympics Physical Exams
Charles Lea Center, Spartanburg SC

November 2013 Physician in Charge/Advisor, Second Annual Kids-Wellness Fair,
VCOM-CC, Spartanburg SC

December 2013 Physician in Charge, Annual School Health Screening and
Comprehensive Exams, Meeting Street Academy, Spartanburg SC

April 2014 Organizer and Planner, Fifth Annual Pediatric Critical Care
Symposium. Spartanburg Regional Healthcare System/Children’s Regional Health

October 2014 International Medical Mission to El Salvador. VCOM-CC

November 2014 Physician in Charge/Advisor, Third Annual Kids-Wellness Fair,
VCOM-CC, Spartanburg SC

December 2014 Physician in Charge, Annual School Health Screening and
Comprehensive Exams, Meeting Street Academy, Spartanburg SC

January 2015 Physician in Charge, Sparkle City Invitational. Kozeev’s World of
Gymnastics. Spartanburg, SC

October 2015 Organizer and Planner, Fifth Annual Pediatric Symposium.
Spartanburg Regional Healthcare System

November 2015 Physician in Charge/Advisor, Fourth Annual Kids-Wellness Fair,
VCOM-CC, Spartanburg SC

December 2015 Physician in Charge, Annual School Health Screening and
Comprehensive Exams, Meeting Street Academy, Spartanburg SC

May 2016 Physician Volunteer, Annual Safe Kids Day, Spartanburg SC

November 2016 Physician in Charge, Annual School Health Screening and
Comprehensive Exams, Meeting Street Academy, Spartanburg SC

March 2017 Physician in Charge, Annual School Health Screening and
Comprehensive Exams, Pediatric Outreach-Prince Hall and Virginia Gardens Schools,
Spartanburg SC

May 2017 Physician Volunteer, Annual Safe Kids Day, Spartanburg SC

July 2017 Physician Volunteer, Back To School Health Fair, Gaffney SC

November 2018 Physician in Charge, Annual School Health Screening and
Comprehensive Exams, Meeting Street Academy, Spartanburg SC