

# **ELIANE F. EAKIN, MD, PHD**

## **DEGREES**

MD

01/03/82 - 19/12/87 Doctor of Medicine, MD  
Faculty of Medicine of University of Sao Paulo  
Sao Paulo, SP, Brazil

PhD

01/01/91 - 06/18/93 Doctorate Course Work and Thesis Preparation  
Faculty of Medicine of University of Sao Paulo  
Sao Paulo, SP, Brazil  
Dissertation: Effects of aerosolized amiloride  
on mucociliary transport velocity and  
transepithelial potential difference in isolated  
frog palate.

## **POST-DOCTORAL TRAINING**

### **RESIDENCIES**

02/01/88- 01/31/91 Residency in Pediatrics  
Children's Hospital of University of Sao Paulo  
Sao Paulo, SP, Brazil

09/30/96 - 09/29/97 Internship in Pediatrics  
University of North Carolina Hospitals  
Chapel Hill, NC, USA

09/30/97 - 06/30/99 Residency in Pediatrics  
SUNY University Hospital  
Syracuse, NY, USA

FELLOWSHIPS 07/01/93 - 06/30/96 Post-Doctoral Fellowship in

Pulmonary Research

Heritage Medical Research Center  
University of Alberta  
Edmonton, AB, Canada

07/01/99 - 06/30/01 Pediatric Pulmonology Clinical Fellowship

Children's Hospital of Pittsburgh, UPMC  
Pittsburgh, PA, USA

May/02 - Jun/03

Robert Wood-Johnson  
BMS Children's Hospital  
Assistant Professor of Pediatrics  
Pediatric Pulmonology Division  
Department of Pediatrics  
New Brunswick, NJ

**LICENSES - active ones:**

2022 - AL State Medical License: MD.43855

2016 - CA State Medical License: C145488

2012 - OK State Medical License: 29480 2009

2009 - MS State Medical License: 20605

1999 - PA State Medical License: MD 068646-L

**CERTIFICATIONS**

2023 – Academic Medicine Coaching Certification – USA

2018 – Pediatric Pulmonology - American Board of Pediatrics

2015 - Pediatrics Recertification - American Board of Pediatrics

2009 - Problem Based Learning Teacher Certification - MSU

2005 – Pediatrics - American Board of Pediatrics

1996 – USMLE Step 3

1995 - USMLE Step 2

1994 - USMLE Step 1

## WORK EXPERIENCE

- Mar/22 – Aug/23      **University of South Alabama**  
(Academic Appointment)  
Associate Professor of Pediatrics  
Pediatric Pulmonologist  
Mobile, AL
- Dec/20 – Feb/22      Bloomington Community Health Center - CHSI  
Pediatrician  
Bloomington, CA
- Jul/20 – Dec/20      Bartz-Altadonna Community Health Center  
Pediatrician  
Lancaster, CA
- Jul/19 – May/20      Children's Clinic  
Pediatrician  
Rancho Cucamonga, CA
- Mar/18 – Jul/19      **Loma Linda University Medical Center**  
(Academic Appointment)  
Assistant Professor  
Pediatric Pulmonologist Loma Linda, CA  
Schumacher Clinical Partners
- Nov/17 – Feb/18      Physician Advisor  
Macon, GA
- Sep/16 – Oct/17      Family Health Care Clinic  
Pediatrician  
Brandon,MS
- Apr/16 – Aug/16      Coastal Family Healthcare, GAME Clinic  
Pediatrician  
Leakesville,MS
- Aug/15 – Apr/16      Pediatric Services of Southern MS/Riser Clinic  
Pediatrician, locum tenens  
Picayune, MS

Jul/14 –Jun/15	<b>UT Southwestern Dallas</b> Pediatric Pulmonology Supervised Practice (“fellowship”) Dallas, TX
Feb/14 – May/14	<b>Magnolia Regional Medical Center/Ped Clinic</b> Pediatrician, locum tenens Corinth, MS
Aug/13 – Oct/13	<b>Children’s Health Clinic of Columbus</b> Pediatrician Columbus, OH
Jan/13 – Jul/13	<b>The Carey Clinic/St. John’s Hospital</b> Pediatric Pulmonology Tulsa Oklahoma
Jun/12 – Jul/12	<b>Sheridan Healthcare/Baptist Hospital</b> Pediatrician Memphis, TN
Sep/10 – Jun/12	<b>Family Health Care Clinic</b> Pediatrician Brandon, MS
Jun/09 – Aug/10	<b>University of Mississippi Medical Center</b> (Academic Appointment) Assistant Professor of Pediatrics Pediatric Pulmonologist, Division Chief CF Center Director Jackson, MS
Jul/07 – May/10	<b>Michigan State University</b> (Academic Appointment) Assistant Professor of Pediatrics Pediatric Pulmonologist, Division Chief CF Center Director Jackson, MS
Aug/04 - Jun/07	<b>Hickman Community Hospital</b> Pediatrician Centerville, TN
Sep/03 - May/04	<b>Crockett Hospital &amp; Children’s Clinic</b> Pediatrician Lawrenceburg, TN

May/02 -  
May/03

**Robert Wood Johnson Medical Center**  
(Academic Appointment)  
Assistant Professor of Pediatrics  
Pediatric Pulmonologist  
New Brunswick, NJ

## **TEACHING EXPERIENCE**

2022 – 2023 - Bedside teaching/ Discussions with Residents and Medical students during consults on Pediatric Floors, PICU, NICU

2022 – 2023– Formally teaching University Course for Medical students – 4 hrs./week – University of South Alabama – “Clinical Skills.”

2022 – Current – Created a biweekly teaching session for Residents and Medical students rotating on the floor – called “30 min of Breathing with Dr. Eakin.”

2022 – Current - Created weekly Radiology Rounds – Teaching Residents and Medical students – in joint effort with Dept. Of Radiology – Children and Women’s Hospital – University of South Alabama Health

2018 – Teaching Residents and Medical Students from Loma Linda University Medical Center - Pulmonology Clinic and bedside teaching & rounds - LLU

2009 & 2010 – Taught Fellows, Residents, and Medical Students from University of Mississippi Medical Center (UMMC) rotating through my General Pulmonology Clinics and CF Clinic, bedside teaching & rounds

2009 – “Problem Based Learning - Pulmonology Block” to 2nd year Med Students, Michigan State University

2009 - “Pulmonary Examination - Clinical Skills Course” to 2nd year Med Students, Michigan State University (MSU)

2008 – “Problem Based Learning - Pulmonology Block” to 2nd year Med Students, MSU

2008 - “Pulmonary Examination - Clinical Skills Course” to 2nd year Med Students, MSU

2007 & 2008 – Taught Residents and Medical Students from MSU and Nursing students from Lansing Community College, who rotated through my General Pulmonology Clinics and Cystic Fibrosis Clinic: bedside teaching and rounds discussions with Residents and Medical Students from Michigan State University at Sparrow Hospital Wards/PICU/NICU

2001 - Taught medical students and residents at RWJ/BMS Children's Hospitals (bedside, formal and informal lectures) - UMDNJ

2000 - "Pediatric Clinical Skills" to 2nd year medical students – UPMC

1999 - "Pediatric Clinical Skills" to 2nd year medical students – UPMC

1997 & 1998 – Bedside teaching to Medical Students and Interns – SUNY,

1993 – 1996 – Laboratory/Bench-side teaching to 2 trainees of the Heritage Medical Research Center. University of Alberta

1992 - "Lung Pathology" – 3 mos. Preceptorship - 2nd year medical students -FMUSP

1991 - "General Pathology" – 6 mos. Preceptorship - 2nd year medical students - FMUSP

1985 - "Surgical Techniques" – 12 mos. Preceptorship - 3rd year medical students - FMUSP

1988 – 1991 – Bedside teaching to Medical Students, Interns, and Residents of Instituto da Crianca do Hospital das Clinicas, and Hospital Universitario, FMUSP, Sao Paulo, Brazil



## **ADMINISTRATIVE EXPERIENCE**

Mar 2022 – Aug 2023 – Chief, Pediatric Pulmonology Division–  
University of South Alabama. Mobile, AL

Nov 2017 – Feb 2018 – Medical Director UR – Schumacher/Optum–  
Newtown Square, PA

Jun 2009 - Aug 10 - Chief, Pediatric Pulmonology Division, Department  
of  
Pediatrics, University of Mississippi Medical Center, Jackson, MS

Jun 2009 - Aug 10 - Director, Cystic Fibrosis Center, Department of  
Pediatrics, University of Mississippi Medical Center, Jackson,  
MS

Jul 2007 - May 09 - Chief, Pediatric Pulmonology Division, Michigan  
State University, East Lansing, MI

Oct 2007- May 09 - Director, Cystic Fibrosis Center, Michigan  
State University/Sparrow Hospital, Lansing, MI

Nov 2004 - Jun07 - Chair of the Ethics Committee, Hickman  
Community Hospital, Clinics, and Nursing Home, Centerville, TN

May 1984 - May 85 - Treasurer – Scientific Department of Academic  
Center “Oswaldo Cruz” of Faculty of Medicine of University of Sao Paulo

Jul 1984 - Jun 85 - Class Representative at the Department of Pathology  
at Faculty of Medicine of University of Sao Paulo (1984-1985)

## **COMMITTEES EXPERIENCE**

Aug 23 – current – AAP section on Pediatric Pulmonology – Technical Reviewer of Policies

Aug 23 – current – Pediatric Pulmonology Committee – Society for Advancement of Bronchoscopy

Jul 23 - Committee on Mentorship to URM - American Thoracic Society

Jul 22 – Aug 23 – USA Continuing Medical Education Committee (CME)

Jan 09 - May 09 – EMR Steering Committee, Michigan State University, East Lansing, MI

Dec 08 - May 09 – Healthy Home University Steering

Committee, MI State Department of Community Health, Lansing, MI

Nov 07 - May 09 - Member of the Quality Improvement Committee of the

Department of Pediatrics, CHM, MSU East Lansing, MI

Jun 07 - May 09 – CF Newborn Screening Program Committee, State Department of Community Health, Lansing, MI

Oct 04 - Jun 07- Chair of the Ethics Committee, Hickman Community Hospital, Centerville, TN

Nov 04 - May 07 – Children’s Morbidity and Mortality

Committee, for Hickman Co., TN State Department of Community Health

Jan 04 - May 04 - Medical Records Committee and OB/Pediatrics Committee at Crockett Hospital, Lawrenceburg, TN

Jan 86 - May 86 – Organization Committee for the V Medical University Congress Academic Scientific Dept, Faculty of Medicine of the University of Sao Paulo (FMUSP), organizer of the course “Analysis of Laboratory Tests for the Clinician”

Jan 85 - May 85 - Organization Committee for the IV Medical University Congress, Academic Scientific Dept, FMUSP, organizer of the course “Pediatric Surgery”

Jan 84 - May 84 - Organization Committee for III Medical University Congress (May 84), from the Academic Scientific Department, FMUSP

## **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS & SOCIETIES**

2023/ present – Society for Advancement of Bronchoscopy

2022/ present – AAP Alabama Chapter

2022/ present – Mobile Pediatric Society

2018/present – American College of Chest Physicians

2002/present - American College of Pediatricians

1999/present - SUNY Syracuse Alumni Association

1998/present - Christian Medical and Dental Society

1997/present - American Academy of Pediatrics

1993/present - American Thoracic Society

1988/present – Brazilian Society of Pediatrics

## **GRANTS**

2010-2011 - Public Service Grants from the Cystic Fibrosis Foundation with the CF Center at University of Mississippi

2009-2010 - Public Service Grant from the Cystic Fibrosis Foundation with the CF Center at University of Mississippi

2008-2009 - Public Service Grant from the Cystic Fibrosis Foundation with the CF Center at Michigan State University

1996-1997 - Research Grant from Canadian Cystic Fibrosis Foundation

1994-1996 - Research Grant from Canadian Cystic Fibrosis Foundation

1991-1993 -Doctorate Grant, Brazilian National Research Council, CNPq

1985-1986 - Preceptorship Grant from Surgery Department, Division of Pediatric Surgery, FMUSP

## PRESENTATIONS

I - Presentations in Conferences Festa, E., and Rozov, T.: Contribuicao

ao estudo da giardiase em

pacientes portadores de Fibrose Cistica (Giardiasis in patients with Cystic Fibrosis). IV Congresso Brasileiro de Pneumologia Pediatrica and IV Jornada Brasileira de Fibrose Cistica; Sao Paulo, Brazil, May 1991.

Festa, E., Saldiva, P.H.N. VII.: Modulacao da velocidade de transporte mucociliar pelo potencial eletrico transepitelial: efeito do amiloride (Effects of aerosolized amiloride on mucociliary transport velocity and transepithelial potential difference: a dose response study in frog palate). Reuniao Anual da Federacao das Sociedades de Biologia experimental (FESBE), Caxambu, M. Gerais, Brazil, August 1992.

Festa, E., Saldiva, P.H.N. and King, M: Effects of aerosolized amiloride on mucociliary transport velocity and transepithelial potential difference: A dose-response study in frog palate. ATS meeting, San Francisco, CA, USA, May 1993.

Festa, E., Saldiva, P.H.N. and King, M.: Acute effects of uridine triphosphate (UTP) on mucociliary velocity, transepithelial potential difference, and cilia beat frequency in isolated frog palate. ATS meeting, Boston, MA, USA, May 1994.

Festa, E., Saldiva, P.H.N. and King, M.: Acute effects of uridine triphosphate (UTP) on mucociliary velocity, transepithelial potential difference, and cilia beat frequency in isolated frog palate. Canadian Resident-Fellow Competition in Respiratory Research, Niagara-on-the-Lake, ON, Canada, September 1993

Festa, E., Saldiva, P.H.N. and King, M.: Acute effects of uridine triphosphate (UTP) on mucociliary velocity and related factors in isolated frog palate. Annual Congress of European Respiratory Society, Nice, France, October 1994.

Festa, E., Saldiva, P.H.N. and King, M.: Effects of bovine surfactant (bLES) on rheological properties and mucociliary transport of respiratory secretions in cystic fibrosis patients. ATS meeting, Seattle, WA, USA, May 1995.

Festa, E., Saldiva, P.R.N. and King, M.: Stimulation of chloride dependent mucus secretion by uridine triphosphate (UTP) in isolated frog palate. ATS meeting, Seattle, WA, USA, May 1995.

Festa, E., Saldiva, P.H.N. and King, M.: Role of Exosurf on mucociliary velocity, transepithelial potential difference, and rheology in isolated frog palate. ERS Annual Congress, Barcelona, Spain, September 1995.

Festa, E., Saldiva, P.H.N. and King, M.: The freshly excised frog palate: a model for studying ion transportation. XII Cystic Fibrosis Congress, Jerusalem, Israel, June 1996.

Festa, E., Saldiva, P.H.N. and King, M.: Dose-response study with benzamil on mucociliary velocity (MCV), transepithelial potential difference (PD), and rheological properties (RHEOL) on frog palate. ERS Annual Congress, Stockholm, Sweden, and September 1996.

## II – Lectures

2023 – Grand Rounds Presentation – Asthma Update – University of South Alabama – Department of Pediatrics

2022 – Updates on Asthma Guidelines – Lecture on AAP Alabama Chapter Fall Conference

2018 – Non-Cystic Fibrosis Bronchiectasis in Children – Lecture – Loma Linda University Medical Centers, Department of Pediatrics

2010 – Pediatric Flexible Bronchoscopy (UMMC, Jackson, MS) 2010

- Primary Ciliary Dyskinesia (UMMC, Jackson, MS)

2010 - Obstructive Sleep Apnea in Children (UMMC, Jackson, MS)

2009 – Pediatric Flexible Bronchoscopy (Hurley Medical Center, MI)

2008 - Obstructive Sleep Apnea in Children: New Insights (Hurley Medical Center, Flint, MI)

2008 – Pediatric Flexible Bronchoscopy (Sparrow Hospital, Lansing, MI)

2007 –Doctor, My Baby Wheezes! (Michigan State University)

2004 - The Wheezing Child – Overview (Hickman Community Hospital)

2002 - Pompe's Disease – A Case Presentation (UMDNJ)

2002 - Cystic Fibrosis – Clinical Overview (UMDNJ)

2002 - Wheezing - Differential Diagnosis (x2) (UMDNJ)

2001 - Diffusion – how gas gets across the blood-gas barrier (UPMC)

2000 - Ventilation-Perfusion Relationships (UPMC)

1999 - Association of Dopamine Receptors and ADHD (SUNY)

1999 - Cervical Adenopathy in Children: Diagnosis & Treatment (SUNY)

1999 - Recurrent Headaches in Children: Diagnostic & Treatment (SUNY)

1999 - Interpretation of Tuberculin Test (SUNY)

1999 - Cat Scratch Disease & *B. henselae* Infections in Children (SUNY)

1998 - Prevention of First Stroke in Sickle Cell Diseased Children (SUNY)

1998- Vertebral Artery Compression: A Possible Cause for SIDS (SUNY)

1997 - Poisoning/Intoxications: Prevention and Management (UNC)

1993 - Primary Ciliary Dyskinesia (U of A)

1993 - Public Defense of PhD Thesis "Effect of Amiloride on MCV and P on Isolated Frog Palate Model (FMUSP)

### III - Journal Clubs

2022 – Long COVID in Children. Observations from a designated Pediatric Clinic. Liat Ashkenazi-Hoffnung, Einat Shmueli, Dario Prais. *Ped Inf Dis Journal* 2021; 40(12):e509-e511

2001- Persistent wheezing in very young children is associated with lower respiratory inflammation. Kraviec ME, Westcott J, Chu HW, Balzar S, Trudeau JB, Schwartz LB, Wenzel SE. *Am J Respir Crit Care Med* 2001; 163: 1

2000 - Identification of transport abnormalities in duodenal mucosa and duodenal enterocytes from patients with cystic fibrosis. Pratha VS. Hogan DL. Martensson BA. Bernard J. Zhou R. Isenberg JI. *Gastroenterology* 2000; 118(6): 1051-1060. Comment in: *Gastroenterology* 2000; 118(6):1258-1265. (UPMC)

1999 - Effects of Aerosolized Uridine-5'-Triphosphate on Airway Clearance with Cough in Patients with Primary Ciliary Dyskinesia. *Am J Respir Crit Care Med* 1999; 160: 144-149. (UPMC)

1993 - An Isotopic Study of Nasal Mucociliary Transport in Newborns: Preliminary Investigation. A. Escribano, M. Armengot, V. Marco, J. Basterra, J. Brines. 1993; *Pediatric Pulmonology* 16:167-169. (U of A)

1998 - Conventional Compared with Individualized Chemotherapy For Childhood Acute Lymphoblastic Leukemia. WE Evans, MV Relling, J Rodman, WR Crom, JM Boyett, Pui CG. *NEJM* 1998; 338(8): 499-505. (SUN)

## **BIBLIOGRAPHY**

### A - ARTICLES

Mittelstaedt, W.E., Andrade, A.C.H., Fontes, W., Festa, E., Mester, M., Pires, P., Deutsch, C., Speranzini, M.B. and Oliveira, M.R.: Hernias incisionais: revisao de 228 casos operados no Hospital das Clinicas, Faculdade de Medicina da Universidade de Sao Paulo (Incisional hernias: review of 228 cases...) *Rev Paul Med* 1986; 104(3): 117-27.



Festa, E., Rozov, T. and Dias, R.M.S.: Giardiose em pacientes portadores de fibrose cística. Estudo prospectivo em 43 pacientes. (Giardiasis in patients with cystic fibrosis. Prospective study of 43 patients. Rev. Pediatria Sao Paulo 1992; 14(4): 124-128.

Festa, E. Macchione, M., Paiva, P.S.O., Saldiva, P.H.N. and King, M.: Effects of aerosolized amiloride on mucociliary transport velocity and transepithelial potential difference in isolated frog palate. J Aer Med 1995; 8(2): 167-176.

Festa, E., Guimaraes, E., Macchione, M., Saldiva, P.H.N. and King, M.: Acute effects of Uridine 5'- Triphosphate on mucociliary clearance in isolated frog palate. J Aer Med 1997; 10(1): 25-39.

Aerosolized amiloride: dose effect on nasal bioelectric properties, pharmacokinetics, and effect on sputum expectoration in patients with cystic fibrosis. Hofmann T, Senior I, Bittner P, Huls G, Schwandt HJ, Lindemann. J Aer Med 1997; 10(2): 147-158. I reviewed this paper for publication.

B – ABSTRACTS Saldiva P.H.N., Martins M.A., Lorenzi G., Festa, E., Criado

P.M.P., Sakae

R.S., Parada M.A., Zin WA, King M, Böhm GM. Respiratory alterations due to urban air pollution. Am Rev Respir Dis 1992; 145: add.

Festa E, Macchione M, Paiva P.S.O., Saldiva P.H.N., King M. Effects of aerosolized Amiloride on Mucociliary transport velocity and Transepithelial potential difference: A dose-response study in frog palate. Am Rev Respir Dis 1993; 147: A27.

Festa E, Holma B, Boyd W.A., Saldiva P.H.N. and King M.: Acute effects of uridine triphosphate (UTP) on mucociliary velocity, Transepithelial potential difference and cilia beat frequency in isolated frog palate. Am J Respir Critical Care Med 1994; 149(4): A670.

Festa E, Sant' Anna E.T.G., Macchione M, Saldiva P.H.N. and King M.: Acute effects of uridine triphosphate (UTP) on Mucociliary velocity and related factors in isolated frog palate. Eur Respir J 1994; 7(18): 79s.

Festa E, Saldiva P.H.N. and King M.: Stimulation of chloride-dependent mucus secretion by uridine triphosphate (UTP) in isolated frog palate. *Am J Respir Critical Care Med* 1995; 151(4): A183.

Festa, E., Saldiva, P.H.N. and King, M.: Effects of bovine surfactant (bLES) on rheological properties and mucociliary transport of respiratory secretions in cystic fibrosis patients. *Am J Respir Critical Care Med* 1995; 151(4): A314.

Festa, E., Saldiva, P.H.N. and King, M.: Role of Exosurf on mucociliary velocity, transepithelial potential difference and rheology in isolated frog palate. *Eur Respir J* 1995; 8(19): 297s.

Festa, E. Saldiva, P.H.N. and King, M.: The freshly excised frog palate: a model for studying ion transportation. *Israel Journal of Medical Sciences* 1996; 32: s225.

Festa, E., Saldiva, P.H.N. and King, M.: Dose-response study with benzamil on mucociliary velocity (MCV), transepithelial potential difference (PD), and rheological properties (RHEOL) on frog palate. *Eur Respir J* 1996; 9: 414s.

King M, Wills P, Festa E, Feng W, Cole P. Effects of sodium chloride on rheology and transportability of cystic fibrosis and bronchiectasis sputum. *Eur Respir J* 1996; 9: 414s.

King, M., Festa E. The evolution of the frog palate model for mucociliary clearance 1970-1997. Alex Silberberg Memorial Symposium, Jerusalem, Feb. 1997, p. 69.

Nasr SZ, Grigorescu V, Adruzewski K, Eakin E, Filbrun A, Cavanagh K, Langbo C, Toder D, Schuen J, Homnick D. Michigan Cystic Fibrosis Newborn Screening Program, Review of 6 Months Data and the Algorithm. *Pediatric Pulmonology*, Supplement 31, Sept. 2008, p. 402

## C- BOOKS CHAPTERS

King, Malcolm and Festa, Eliane: The evolution of the frog palate model for mucociliary clearance - 1970-1977, pp 191-201, chapter 20. In: Cilia, Mucus, and Mucociliary Interactions. Eds.: Baum, Priel, Rosth, Liron and Ostfeld. Marcel Dekker, NY, 1998.

Festa, E.: "Steroids in Asthma: a reappraisal in the light of inhalation therapy", (Translated of eight chapters of the book into Portuguese) Ed. by T.J.H. Clark. ADIS Press, 1986.

## D- CITATIONS

Festa E, Macchione M, Paiva PSO, Saldiva PHN, King M. Effects of aerosolized amiloride on mucociliary transport velocity and transepithelial potential difference in isolated frog palate. J Aerosol Med 1995; 8: 167-176. reprint requests filled: 21 cited in:

Festa et al. Acute effects of uridine 5'-triphosphate ... 1997. King & Festa. The evolution of the frog palate model for mucociliary clearance. 1998. Macchione M. et al. Acute effects of inhalable particles on the frog palate mucociliary epithelium. 1999.

King & Rubin. Mucus controlling agents: Past and present. 1999.

Festa E, Guimarães E, Macchione M, Saldiva PHN, King M. Acute effects of uridine 5'-triphosphate on mucociliary clearance in isolated frog palate. J Aerosol Med 1997; 10: 25-39.

reprint requests filled: 30

cited in:

King & Festa. The evolution of the frog palate model for mucociliary clearance. 1998.

King M. Experimental models for studying mucociliary clearance. 1998.

Macchione M. et al. Acute effects of inhalable particles on the frog palate mucociliary epithelium. 1999.

King M, Festa E. The evolution of the frog palate model for mucociliary clearance. In: Baum G, ed. Cilia, Mucus and Mucociliary Interactions. New York: Marcel Dekker, 1998, 191-201.

reprint requests filled: 60

cited in:

King M. Experimental models for studying mucociliary clearance. 1998.

King & Rubin. Mucus controlling agents: Past and present. 1999.

## **NOMINATIONS**

2019 – “Most Compassionate Doctor of the Month”, nominee – LLU FMG Clinic, Loma Linda, CA

2009 - “Sparrow Star”, nominee – Sparrow Hospital, Lansing, MI

2001 - “Service Star Doctor”, nominee x 3 - Children’s Hospital of Pittsburgh, PA

## **SERVICES to the COMMUNITY**

2022 – current – Volunteer First Responder/First Aid – Destination Church, Saraland, AL

2010 - May – CF Walk: “Great Strides” (as fundraiser), Jackson, MS

2009 - November - Cystic Fibrosis Family Day , organized for families of patients with Cystic Fibrosis – University of Mississippi, Jackson, MS

2008 - September - Volunteer Physician- Children’s Health Initiative – “Teddy Bear Picnic” Fundraiser, MSU, East Lansing, MI

2008 - June- CF Walk: “Great Strides” (fundraiser), Lansing, MI

2008 - May - Cystic Fibrosis Family Day – Organization – for families of patients with Cystic Fibrosis, MSU- CF Center

2007 - 2009 – June – Volunteer Physician, “Healthy Homes University Program”, State Department of Community Health, Lansing MI

2007 - September - Volunteer Physician- Children's Health Initiative –  
"Teddy Bear Picnic" Fundraiser, MSU, East Lansing, MI

2005 - 2006 - Speaker at Hickman Co. Elementary & Middle Schools,  
Parents and Teachers Meetings – "Attention Deficit and Hyperactivity  
Disorder", Centerville, TN

2005 - 2006 - Volunteer Physician for Sports Physicals for Hickman Co.  
High School, Centerville, TN

2005 - 2006 - Invited speaker at the annual "Leadership Hickman  
Meeting", talking about "Health Care in Rural Settings", Centerville, TN

2003 - 2004 - Volunteer Physician for Health Supervision & Screenings  
at 2003 and 2004 "Give a Kid a Chance" for Tri-State Metro Church in  
affiliation with "Parents with a Purpose", Florence, AL

2000 - 2001 - Volunteer Physician for First Aid for "Greater Works  
Outreach Church" Community Events and Seminars, Monroeville, PA

1997 - 1998 - Development of a "Smoking Cessation" pamphlet  
under the supervision of Dr. Michael Soeder, at SUNY Syracuse, for  
distribution to a community of native Americans, Syracuse, NY

1991 - 1993 - Volunteer Physician - Community-Based Outreaches, Sao  
Paulo, Brazil

1991 - 1993 - Volunteer Physician in the Cystic Fibrosis Clinic of  
Children's Institute (HCFMUSP-ICr), Sao Paulo, Brazil

1984 – 1985 – Volunteer Pharmacist at "Charles Edward Corbett  
Pharmacy" - Faculty of Medicine of University of Sao Paulo, SP, Brazil