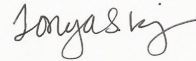


Tonya Sharp King

22 Feb 2023



Work Addresses: Department of Public Health Sciences

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Research Institute

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EDUCATION

Ph.D.: 1999

University of North Carolina, Chapel Hill, North Carolina, in Biostatistics, supporting program in Epidemiology. Doctoral research directed by Vernon M. Chinchilli: *Developing robust estimators of the concordance correlation coefficient.*

M.S.: 1995

University of North Carolina, Chapel Hill, North Carolina, in Biostatistics, supporting program in Epidemiology. Master's paper topic directed by Gary G. Koch: *Evaluation of extended Mantel-Haenszel test statistics with bivariate sets of scores for ordered responses and groups.*

B.A.: 1992

Messiah College, Grantham, Pennsylvania, in Mathematics. Minor in Statistics.

RELATED WORK EXPERIENCE

2021 – present:

Biostatistician, Research Institute, Sarasota Memorial Hospital, Sarasota, Florida (*part-time status*)

2019 – present:

Adjunct Professor, Division of Biostatistics & Bioinformatics, Department of Public Health Sciences at The Pennsylvania State University College of Medicine in Hershey, Pennsylvania (*part-time status*)

2012 – 2019:

Professor, Division of Biostatistics & Bioinformatics, Department of Public Health Sciences (previously called the Department of Health

Evaluation Sciences) at The Pennsylvania State University College of Medicine in Hershey, Pennsylvania (*part-time status: 50% effort*)

- Co-Investigator of Data Coordinating Center for NHLBI-funded AsthmaNet clinical research network (2009-2019). Lead statistician for the following clinical trials: Vitamin D Add-On Therapy Enhances Corticosteroid Responsiveness in Asthma (VIDA), and Steroids in Eosinophil Negative Asthma (SIENA). Co-Investigator of Data Coordinating Center for NHLBI-funded Asthma Clinical Research Network (ACRN) (2000-2011). Lead statistician for the following clinical trials: Measuring Inhaled Corticosteroid Efficacy (MICE), Improving Asthma Control Trial (IMPACT), Predicting Responses for Inhaled Corticosteroid Efficacy (PRICE), Macrolides in Asthma (MIA), and Best Adjustment Strategy for Asthma over Long Term (BASALT). Both the AsthmaNet and the ACRN were extremely successful in conducting multi-center clinical trials to study asthma, with international recognition and publication of manuscripts in major medical journals.

2005 – 2012: **Associate Professor**, Division of Biostatistics & Bioinformatics, Department of Public Health Sciences (previously called the Department of Health Evaluation Sciences) at The Pennsylvania State University College of Medicine in Hershey, Pennsylvania (*part-time status: 50% effort*)

2007 – 2009: **Visiting Professor**, Bioestadística, Departament de Salut Pública Universitat de Barcelona, Facultat de Medicina Casanova 143 08035 Barcelona Spain

2002 - 2005: **Assistant Professor**, Division of Biostatistics, Department of Health Evaluation Sciences at The Pennsylvania State University College of Medicine in Hershey, Pennsylvania (*part-time status: 50-60% effort*)

1999 - 2002: **Assistant Professor**, Division of Biostatistics, Department of Health Evaluation Sciences at The Pennsylvania State University College of Medicine in Hershey, Pennsylvania (*full-time position*)

1993 - 1999: **Graduate Research Assistant** under Professor Gary G. Koch in the Biometric Consulting Lab in the Department of Biostatistics, University of North Carolina, Chapel Hill, North Carolina

1992 - 1993: **Biostatistician**, Center for Biostatistics and Epidemiology, Pennsylvania State University College of Medicine, Hershey, Pennsylvania

1991 - 1992: **Junior Biostatistician**, Center for Biostatistics and Epidemiology, Pennsylvania State University College of Medicine, Hershey, Pennsylvania

FUNDED GRANTS

R01 HL146542-03 (Holguin)

7/1/2019 – 6/30/2024

NHLBI

University of Colorado Denver

SANDIA: Supplementing L-citrulline to overweight late Asthma onset phenotypes to increase airway L-arginine/ADMA ratio and Improve Asthma control

Role: Co-Investigator

Contract 239625 (Cho)

10/01/2020 – 05/31/2022

University of South Florida/Regeneron Pharmaceuticals, Inc.

An evaluation of dupilumab in patients with severe eosinophilic chronic sinusitis without nasal polyposis. The primary objective of this study is to evaluate the efficacy of dupilumab in the treatment of severe CRSsNP compared to placebo as defined by the change in sinus CT scan assessments from baseline to week 24.

Role: Biostatistician

1 R01AR077122-01A1 (Kirby)

04/01/2021-03/31/2024

NIH

The Pennsylvania State University College of Medicine

Flare Assessment for Hidradenitis Suppurativa

The overarching goal of this proposal is to enhance the quality of clinical trials in hidradenitis suppurativa (HS) and to improve the current outcome measures for assessing treatment response by incorporating valid and reliable outcome measures of periodic worsening, or flares, of HS.

Role: Co-Investigator

5 U10HL098115-06-EXT (Mauger)

9/30/2009-6/30/2019

NHLBI

Data Coordinating Center for the NHLBI Asthma Network (AsthmaNet)

The AsthmaNet Data Coordinating Center provides biostatistical leadership, scientific coordination, data management, computer infrastructure, and data quality assurance for the AsthmaNet Clinical research network.

Role: Co-Investigator

SB-417793 (Sawyer)

7/1/2016-6/30/2018

American Lung Association

Mindfulness Based Stress Reduction for Claustrophobia in Positive Airway Pressure Treated Adults

We propose a pilot randomized trial of MBSR to determine the effect of MBSR on claustrophobia, explore the relationship of claustrophobia severity and PAP use, and determine feasibility/patient acceptability of MBSR in PAP-treated OSA adults. Our overall objective is to reduce the burden of disease by promoting PAP adherence.

Role: Biostatistician

5 R21AI121822-02 (Christensen)
NIAID

3/1/2016-02/28/2018

Role of estrous cycle and contraceptives in anogenital papillomavirus infection
The long term goal of this proposal is to gain a better understanding of the role of the menstrual cycle and hormonal contraceptives in papillomavirus infection and persistence.
Role: Biostatistician

NCT01721395 (Paul)
Zarbees

1/1/2013-6/1/2015

Effect of Agave Syrup, Placebo, and No Treatment on Nocturnal Cough and Sleep Quality for Coughing Infants/Toddlers and Their Parents
This clinical trial examines using a preparation from agave syrup to address the need for an infant cough syrup for children younger than 2 years of age.
Role: Co-Investigator

RO1 FD003410 (Thomas)

9/15/2009-9/14/2015

FDA Office of Orphan Products Devel

A Phase III Trial of Calfactant for ALI in Pediatric Leukemia and HSCT Patients

This trial aims to replicate the benefits of calfactant therapy for pediatric leukemia/lymphoma patients and HSCT recipients.

Role: Co-Investigator

The Pennsylvania State University

Social Science Research Institute Sawyer AM (PI)

9/1/2012 – 8/30/2015

Cognitive Function, Neural Correlates and Adherence to Treatment in Adults with Obstructive Sleep Apnea The overall objective of this preliminary research project is to conduct a feasibility study of the employ of near infrared spectroscopy as a measure of prefrontal neural correlates in adults with OSA, pre- and post-treatment with CPAP; secondarily, behavioral measures of neurobehavioral functions of vigilance, working memory, and executive function will be examined as potentially influential on CPAP adherence at one week and one month.

Role: Co-Investigator

RO0NR011173 Sawyer AM (PI)

4/1/2011 – 3/31/2014

Risk Assessment and Tailored Intervention to Improve CPAP Adherence The overall objective of this project is to determine feasibility and acceptability of the investigator-developed tailored intervention (an introduction to OSA and CPAP) to promote CPAP adherence and examine the effect size of the intervention on the outcome of objective CPAP use.

Role: Co-Investigator

American Nurses Foundation/Sigma Theta Tau International

Sawyer AM (PI)

10/01/2011 – 9/30/2013

Tailored Intervention to Improve CPAP Adherence The overall goal of this research is to develop and feasibility test a tailored intervention to promote CPAP adherence among adults with OSA. Supplemental funding to support RO0NR011173.

Role: Co-Investigator

5 U10 HLO74231-05 Chinchilli (PI)
NIH/NHLBI

9/15/03 – 07/31/08

ACRN Data Coordinating Center

The ACRN Data Coordinating Center provides biostatistical leadership, scientific coordination, data management, computer infrastructure, and data quality assurance for the Asthma Clinical Research Network.

Role: Co-Investigator

RO1 HLO90982-01 King (PI)

9/30/07 – 05/31/11

Natl. Jewish Medical & Research Center

Obesity, Inflammation & Response to Therapy in Asthma

Role: PI

TEACHING EXPERIENCE

Master's program in Public Health Sciences: developed and co-taught Applied Biostatistics, 3-credit course 2000-2010; taught full course Spring 2021. Course covers multivariable analysis through linear regression, logistic regression and survival analysis.

Design and Analysis of Clinical Trials World Campus: co-taught WC STAT 509 for Pennsylvania State University – Spring 2014, Spring 2016, Spring 2017, Spring 2018

Design and Analysis of Clinical Trials: co-taught STAT 509 at Pennsylvania State University - Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018

Nominee for Best Overall Professor 2009 by the Graduate Student Association at the Pennsylvania State University College of Medicine

Recipient of Dean's Award for Excellence in Teaching 2009 at Pennsylvania State University College of Medicine.

Biostatistics component of Pennsylvania State University Medical School: taught components of two-semester course covering basic level biostatistics to medical students: Spring 2000 – Spring 2004.

Categorical Data Analysis short course taught with Dr. Gary G. Koch and Todd A. Schwartz for a summer program in Applied Biostatistics at the Ohio State University, June 26-30, 2000

Categorical Data Analysis short course taught with Dr. Gary G. Koch for Serono Labs in Boston, Massachusetts, February 1999

Categorical Data Analysis short course taught with Dr. Gary G. Koch during the 1997 BASS Conference at Hilton Head, South Carolina, December 1997

Categorical Data Analysis short course taught with Dr. Gary G. Koch for Glaxo-Wellcome in London, England, April 1997

Teaching assistant for Categorical Data Analysis master's-level course at the University of North Carolina, Fall 1996, Fall 1997 and Fall 1998

SUDAAN (Survey Data Analysis software) lectures given to two different client groups to assist them in performing their own cluster-adjusted analyses, Spring and Fall of 1996

RELATED ACTIVITIES

Recognized by Journal of Allergy and Clinical Immunology: *In Practice* for high quantity and quality of reviews in 2020: scored top 10% of 703 reviewers.

Member, Advisory Committee for FDA DODAC meeting December 13, 2019

Member, Advisory Committee for FDA NDAC meeting September 19, 2019

Member, Advisory Committee for FDA DODAC meeting October 13, 2017

Member, Advisory Committee for FDA NDAC meeting April 4, 2017

Member, Data Monitoring Committee, AstraZeneca TILIA, a phase III, multicenter, randomized, double-blind, parallel-group, placebo-controlled study to evaluate the efficacy and safety of tozorakimab in patients hospitalized for viral lung infection requiring supplemental oxygen, 2022 – present.

Member, Data Monitoring Committee, Penn State University study Use of a GLP-1R Agonist to Treat Opioid Disorder, 2022 – present.

Member, Data Monitoring Committee, AstraZeneca DOMINICA study, a multicenter, randomized, double-blind, parallel group, placebo-controlled, time-to-first asthma exacerbation phase III efficacy and safety study of benralizumab in pediatric patients with severe eosinophilic asthma, 2022 – present.

Member, Data Monitoring Committee, Syndax Pharmaceuticals, a 52-week, randomized, double-blind, placebo-controlled, multi-center study to evaluate the efficacy, safety, and tolerability of axatilimab in subjects with idiopathic pulmonary fibrosis, 2022 – present.

Member, Data Monitoring Committee, AstraZeneca CROSSING, a randomized, double-blind, parallel-group, placebo-controlled phase III efficacy and safety study of tezepelumab in patients with eosinophilic esophagitis, 2022 – present.

Member, Data Monitoring Committee, AstraZeneca AZD7442 program additional studies TRUST (pediatrics), ENDURE (dose-ranging study), CHINA (Chinese adults), SUPERNOVA (novel antibodies), 2021 – present.

Member, Data Monitoring Committee, AstraZeneca PROVENT, a phase III randomized, double-blind, placebo-controlled, multi-center study in adults to determine the safety and efficacy of AZD7442, a combination product of two monoclonal antibodies for pre-exposure prophylaxis of COVID-19, 2020 – present.

Member, Data Monitoring Committee, AstraZeneca STORM CHASER, a phase III randomized, double-blind, placebo-controlled, multi-center study in adults to determine the safety and efficacy of AZD7442, a combination product of two monoclonal antibodies for post-exposure prophylaxis of COVID-19, 2020 – 2022.

Member, Data Monitoring Committee, AstraZeneca TACKLE, a phase III randomized, double-blind, placebo-controlled, multi-center study to determine the safety and efficacy of AZD7442 for the treatment of COVID-19 in non-hospitalized adults, 2020 – 2023.

Member, Data Monitoring Committee, AstraZeneca KALOS and LOGOS, randomized, double-blind, double dummy, parallel group, multicenter 24 to 52-week variable length studies to assess the efficacy and safety of budesonide, glycopyrronium, and formoterol fumarate MDI relative to budesonide and formoterol fumarate MDI and Symbicort pressurized MDI in adult and adolescent participants with inadequately controlled asthma, 2020 – present.

Member, Data Monitoring Committee, Insmed Incorporated study INS1007-301, A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study to Assess the Efficacy, Safety, and Tolerability of Brensocatib Administered Once Daily for 52 Weeks in Subjects with Non-Cystic Fibrosis Bronchiectasis – The ASPEN Study, 2020 – present.

Member, Data and Safety Monitoring Board, AstraZeneca clinical development of tezepelumab in the treatment of asthma. Established to oversee aspects of the studies entitled NAVIGATOR, SOURCE, DESTINATION, and CASCADE, 2019 - 2022.

Member, Data and Safety Monitoring Board, NHLBI Arrest Respiratory Failure Due to Pneumonia (ARREST Pneumonia), a phase III, multi-center, double-blind, placebo-controlled clinical trial of an inhaled corticosteroid and beta agonist vs. placebo for the prevention of acute respiratory failure in patients hospitalized with pneumonia, 2019 – present.

Member, Data and Safety Monitoring Board, AstraZeneca clinical development of tezepelumab in the treatment of COPD. Established to oversee aspects of the COURSE study, 2019 - present.

Member, Data and Safety Monitoring Board, Cystic Fibrosis Foundation, 2019 – present.

Member, Data and Safety Monitoring Board, PCORI, Working to Increase Stability through Exercise (WISE) Study, 2019 – present.

Member, Data and Safety Monitoring Board, NHLBI, PlayFit study, 2020 - present

Member, Data Monitoring Committee, Insmad Incorporated study INS-1007, A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multi-Center Study to Assess the Efficacy, Safety and Tolerability, and Pharmacokinetics of INS1007 Administered Once Daily for 24 Weeks in Subjects with Non-Cystic Fibrosis Bronchiectasis – The Willow Study, 2017 – 2020

Member, Data Monitoring Committee, Pearl Therapeutics study PTO01102, A Randomized, Double-Blind, Parallel Group, Multi-Center 24 Week Study Comparing the Efficacy and Safety of Three Doses of PTO01 to Placebo and Open-label Spiriva® Respimat® in Subjects with Persistent Asthma, 2017 – 2020

Member, Data Monitoring Committee, Ingram HL130234-01A1 Direct Airway Remodeling in Obese Asthma (AROA) Study, 2017 - present

Member, Data Monitoring Committee, R01 HL125295 A Randomized Controlled Study Evaluating the Impact of Treatment of Mild Sleep-Disordered Breathing on Children's Health (PATS), 2017 – 2022

Member, Data Safety and Monitoring Committee, Pearl Therapeutics study PTO09002, A Randomized, Double-Blind, Parallel Group, Multi-Center Study to Assess the Efficacy and Safety of PTO09 Compared to PTO05, PTO08, and Open-Label Symbicort Turbuhaler, as an Active Control, on Lung Function over a 24-Week Treatment Period in Subjects with Moderate to Very Severe COPD, 2016 – 2018.

Member, Data Safety and Monitoring Committee, Pearl Therapeutics study PTO09003, A Randomized, Double-Blind, Parallel Group, Multi-Center Study to Assess the Efficacy and Safety of PTO09 Compared to PTO05 on COPD Exacerbations over a 52-Week Treatment Period in Subjects with Moderate to Very Severe COPD, 2016 – 2018.

Member, Data Monitoring Committee, Insmad Incorporated study INS-212: A Randomized, Open-Label, Multicenter Study of Liposomal Amikacin for Inhalation (LAI) in Adult Patients with Nontuberculous Mycobacterial (NTM) Lung Infections Caused by Mycobacterium avium complex (MAC) That are Refractory to Treatment, 2015 - 2019.

Member, Data Monitoring Committee, Insmad Incorporated study INS-312: An Open-Label Safety Extension Study to a Multicenter Study of Liposomal Amikacin for Inhalation (LAI) in Adult Patients with Nontuberculous Mycobacterial (NTM) Lung Infections Caused by Mycobacterium avium complex (MAC) That are Refractory to Treatment, 2015 - 2019.

Member, Data Safety and Monitoring Committee, Pearl Therapeutics study PTO03014, A Randomized, Double-Blind, Chronic Dosing (24 Weeks), Placebo-Controlled, Parallel

Group, Multi-Center Study to Assess the Efficacy and Safety of PT003, PT005, and PT001 in Subjects with Moderate to Very Severe COPD, Compared with Placebo, 2015 – 2017.

Member, Data Safety and Monitoring Committee, Pearl Therapeutics study PT010005, A Randomized, Double-Blind, Multi-Center, Parallel Group Study to Assess the Efficacy and Safety of PT010 Relative to PT003 and PT009 on COPD Exacerbations over a 52-Week Treatment Period in Subjects with Moderate to Very Severe COPD, 2015 – 2019.

Member, Data Safety and Monitoring Committee, Pearl Therapeutics study PT010006, A Randomized, Double-Blind, Parallel Group, 24-Week, Chronic-Dosing, Multi-Center Study to Assess the Efficacy and Safety of PT010, PT003, and PT009 Compared with Symbicort Turbuhaler as an Active Control in Subjects with Moderate to Very Severe Chronic Obstructive Pulmonary Disease, 2015 – 2017.

Member, Data Safety and Monitoring Committee, Pearl Therapeutics study PT010007, A Randomized, Double-Blind, Parallel Group, 28-Week, Chronic-Dosing, Multi-Center Extension Study to Assess the Safety and Efficacy of PT010, PT003, and PT009 in Japanese Subjects with Moderate to Very Severe Chronic Obstructive Pulmonary Disease (COPD) Compared with Symbicort Turbuhaler as an Active Control, 2015 – 2019.

Member, Data Safety and Monitoring Committee, Pearl Therapeutics study PT010008, A Randomized, Double-Blind, Parallel Group, 52-Week, Chronic-Dosing, Multi-Center Study to Assess the Safety and Tolerability of PT010, PT003, and PT009 in Subjects with Moderate to Very Severe Chronic Obstructive Pulmonary Disease, 2015 – 2017.

Member, Independent Data Monitoring Committee, Galderma R&D study RD.06.SPR.18131, a multicenter open label uncontrolled study of the long term safety and efficacy of calcitriol 3 mcg/g ointment applied twice daily for 26 weeks in pediatric subjects with mild to moderate plaque psoriasis, 2014 – 2018.

Member, Data Safety and Monitoring Committee, Pearl Therapeutics studies PT003006, PT003007, and PT003008, Phase 3 trials in the GFF MDI, FF MDI, and GP MDI clinical development program for the treatment of COPD, 2012 – 2015.

Member, Data Safety and Monitoring Committee, KaloBios KBO03-04: A Phase 2, Double-blind, Placebo-controlled, Randomized Study to Evaluate the Safety, Tolerability, and Efficacy of KBO03 in Subjects with Asthma Inadequately Controlled by Corticosteroids, 2012 – 2014

Member, Data Safety and Monitoring Board, NIDCR-sponsored study titled “Functional Outcomes of Cleft Lip Surgery”, 2001 – 2006

Member, Data Safety and Monitoring Board, NIDCR-sponsored study titled “Sensory Retraining Following Orthognathic Surgery”, 2001-2005

Member, American Statistical Association (current), International Biometric Society (ENAR - current), and Mathematical Association of America (past)

Referee: Biometrics, Statistics in Medicine, JASA, Journal of Biopharmaceutical Statistics, Computer Methods and Programs in Biomedicine, Biostatistics, Journal of Allergy & Clinical Immunology, Biometrical Journal, Communications in Statistics – Theory & Methods, Journal of the Air and Waste Management Association, Statistics in Biopharmaceutical Research, Vaccine, Pharmaceutical Statistics, PLOS ONE, Clinical Pediatrics, Nutritional Neuroscience

Member, Doctoral Committee for Pennsylvania State University graduate students in statistics (2001-2002 (Shaffer), 2005-2006 (Chen and Yang), 2006-2007 (Chen, Zhang, and Hiriote), 2008-2009 (Hiriote)), biostatistics (2013-2014 (Domthong), 2017-2019 (Teshakor)), and nursing (2014-2015 (Ciano), 2015-2016 (Yang)).

Member, Master's Committee for Pennsylvania State University College of Medicine graduate student in Clinical Research (2022 (Rolfy Perez)).

Advisor, Pennsylvania State University College of Medicine graduate student in Clinical Research (2021-2022 (Robert Kavanagh)).

Member, Pennsylvania State University College of Medicine Institutional Review Board (1999-2001)

Consulting work for Lancaster County Victim Services Office. Helped to design survey, analyze results, and write annual report for the Lancaster County Adult Victim/Witness Services Satisfaction Survey, 2002-2006

Consulting work for Centers for Disease Control (CDC) National Institute of Safety and Health (NIOSH). Developed SAS macro to estimate the repeated measures concordance correlation coefficient for specific data structure involving aerosol concentrations collected from two real-time instruments at different locations with different tasks repeatedly over time, 2011.

PRESENTATIONS

Contributed: Pham JT, Kane JA, King TS, Clark JY. Real World Results of Prostatic Urethral Lift for Men with Lower Urinary Tract Symptoms at an Academic Medical Center. Mid-Atlantic Section of the American Urological Association (MAAUA) 2022 Meeting, October 13-15 in New Orleans, Louisiana.

Contributed: Mittal R, King TS, Tierney. Applied Behavior Analysis (ABA) From A Caregiver's Perspective During the Pandemic. Pediatric Academic Societies (PAS) 2022 Meeting, April 21-25 in Denver, Colorado.

Contributed: Patel A, LaBarge B, King TS, Pradhan S, Goyal N. Defining the Clinical Characteristics of Mammary Analogue Secretory Carcinoma of the Salivary Gland: Analysis of the National Cancer Database. AHNS 2022 Annual Meeting held during the

Combined Otolaryngology Spring Meetings (COSM). The meeting will be held April 27-28, 2022. Hyatt Regency Dallas, Dallas TX.

Contributed: Gottshall P, Pan T, King TS, Gallo R. Primary cost-driver analysis of anterior cruciate ligament reconstruction. PA Ortho Annual Meeting.

Invited: King TS. Presenter and panel member for Messiah College Math Club event: Careers in Mathematics, 29 April 2021.

Contributed: Karamchandani DM, Westerhoff M, Arnold CA, Gonzalez RS, Westbrook L, **King TS**, Panarelli NC. Interobserver Agreement in Assessing Depth of Invasion for Submucosally Invasive Adenocarcinoma in Colonic Endoscopic Resection Specimens. United States and Canadian Academy of Pathology Virtual Annual Meeting. March 2021. SUBMITTED

Contributed: Karamchandani DM, Gonzalez RS, Westerhoff M, Westbrook L, Panarelli NC, **King TS**, Arnold CA. Scoring Depth of Invasion of Submucosally Invasive Adenocarcinoma in Esophageal Endoscopic Specimens: How Good are We? United States and Canadian Academy of Pathology Virtual Annual Meeting. March 2021. SUBMITTED.

Contributed: Krishnan JK, Lazarus S, Blake K, Covar R, Dyer AM, Sorkness C, Wenzel S, Lang J, Lugogo N, Mauger D, **King TS** on behalf of AsthmaNet Investigators. Predicting response to inhaled corticosteroid or long-acting muscarinic antagonist in mild persistent asthma. American Academy of Allergy, Asthma & Immunology Annual Meeting, March 2020 in Philadelphia, Pennsylvania (coauthor: performed statistical analysis).

Contributed: Covar R, **King TS**, Krishnan J, Sorkness C, Wenzel S, Blake K, Lugogo N, Lang J, Mauger D, Dyer AM, Lazarus S. T2 inflammatory biomarkers in mild persistent asthma. American Thoracic Society Annual Meeting, May 2020 (coauthor: performed statistical analysis).

Contributed: Pool C, Rossi-Schumacher M, **King TS**, Ehret C, Patel S, Wilson M. Same Day Pediatric Cervical Surgery. American Society of Pediatric Otolaryngology Annual Meeting in Atlanta GA, April 24-26, 2020 (coauthor: performed statistical analysis).

Contributed: Vasquez R, Lee H, Arslan M, **King TS**, Karamchandani D. Treatment Naïve Colonic Adenocarcinomas Close to the Serosal Surface: Challenges with T3 versus T4a Staging and Correlation with Clinical Outcomes. United States & Canadian Academy of Pathology's 109th Annual Meeting in Los Angeles, California, February 29-March 5, 2020 (coauthor: performed statistical analysis).

Invited: Lazarus SC, Krishnan JA, **King TS**, et. al, on behalf of the National Heart, Lung, and Blood Institute's AsthmaNet. Inhaled Glucocorticoids or Muscarinic Antagonists for Sputum Eosinophil Low Mild Asthma. American Thoracic Society Annual Meeting, Dallas, TX 2019 (coauthor: performed statistical analysis).

Contributed: Tupinio M, **King TS**, Olympia R. Positive and Negative Themes Depicted in Popular Horror Films. Pediatric Academic Societies (PAS) 2019 Meeting, April 27-30, in Baltimore, Maryland (coauthor: performed statistical analysis).

Contributed: Watts A, **King TS**, Olympia R. Positive and negative themes depicted in rated-R films released 2012-2017. Pediatric Academic Societies (PAS) 2019 Meeting, April 27-30, in Baltimore, Maryland (coauthor: performed statistical analysis).

Contributed: Suliman AK, Sznajder K, **King TS**, Warren WS. The Effect of Education and Altered Cooking Location on Household Air Pollution [HAP] Exposure and Carbon Monoxide [CO] Levels in Sudanese Women and Their Children. Pediatric Academic Societies (PAS) 2019 Meeting, April 27-30, in Baltimore, Maryland (coauthor: performed statistical analysis).

Contributed: Karamchandani DM, **King TS**, Chetty R, Liu X, Westerhoff M, Yantiss RK, Yang Z. Oh My...Struggles and Disagreements in Staging Treatment-Naïve Colorectal Carcinomas. United States and Canada Academy of Pathology's 108th Annual Meeting in National Harbor, Maryland, March 16-21, 2019 (coauthor: performed statistical analysis).

Contributed: Karamchandani DM, **King TS**, Liu X, Westerhoff M, Yantiss RK, Chetty R, Yang Z. A Survey of Challenges and Issues in Staging Rectal Carcinoma Post Neoadjuvant Therapy. United States and Canada Academy of Pathology's 108th Annual Meeting in National Harbor, Maryland, March 16-21, 2019 (coauthor: performed statistical analysis).

Contributed: Muller JN, Loloi J, Moroco A, Portalese A, Wakefield BH, **King TS**, Olympia RP. Violence depicted in superhero-based films stratified by protagonist/antagonist and gender. American Academy of Pediatrics National Conference & Exhibition, Orlando FL 2018 (coauthor: performed statistical analysis).

Invited: Steroids in Eosinophil Negative Asthma (SIENA). On behalf of the National Heart, Lung, and Blood Institute's AsthmaNet. American Thoracic Society Annual Meeting, San Diego, CA 2018 (coauthor: performed statistical analysis).

Contributed: Grossman NL, Ortega VE, **King TS**, Bleecker ER, Cardet JC, Carr TF, Denlinger LC, Denson JL, Fandino N, Krishnan JA, Meyers DA, Phipatanakul W, Ramratnam SK, Wechsler ME, Israel E. The role of race and ancestry in characterization of the exacerbation-prone asthma phenotype. American Thoracic Society Annual Meeting, Washington DC, May 19-24, 2017.

Contributed: Georgeson A, McNamara C, Bauer M, Wakefield B, **King TS**, Olympia RP. Violence Found In Superhero-Based Films AND abstract, A Comparison Of Analgesic Administration Between Pediatric And Adult Trauma Patients Presenting To An Emergency Department in Central Pennsylvania. John M. Templeton Jr. Pediatric Trauma Symposium, Pittsburgh, Pa. March 3-4, 2017 (oral presentation)

Contributed: Sekhar DL, Zalewski TR, Czarnecki B, Barr AL, **King TS**, Paul IM. Sensitivity and Specificity of Adolescent Hearing Screens. AudiologyNOW! Phoenix, Arizona. April 13-16, 2016. **Poster won the Excellence Award.**

Contributed: Olympia RP, Wakefield H, Wakefield B, Weber C, **King TS**. Injuries depicted in sport-related films. Oral Presentation at the Pediatric Academic Societies (PAS) 2016 Meeting in Baltimore, MD, April 30-May 3.

Contributed: Georgeson A, McNamara C, Bauer M, Wakefield B, **King TS**, Olympia RP. Positive and negative themes found in superhero-based films. Pediatric Academic Societies (PAS) 2016 Meeting in Baltimore, MD, April 30-May 3 (poster).

Contributed: Cardet JC, **King TS**, Bacharier L, Carr T, Chinchilli VM, Codispoti C, Dunn R, Holguin F, Nelson K, Ortega VE, Peters M, Ramratnam S, Wechsler ME, Israel I. Predictors of inhaled corticosteroid taper and discontinuation failure in adult asthmatics (the PREDICTED study). American Thoracic Society Annual Meeting, San Francisco CA, May 13-18, 2016.

Contributed: Sawyer AM, **King TS**, Weaver TE, Sawyer DA, Varrasse M, Franks J, Watach A, Kolanowski A, Richards KC (2016). Complex tailored intervention pilot randomized controlled trial: Social cognitive intervention to promote positive airway pressure (PAP) adherence - The SCIP-PA Trial (oral presentation). 28th Annual Scientific Sessions of the Eastern Nursing Research Society, Pittsburgh Pennsylvania: April 13-15, 2016.

Contributed: Cardet JC, Louisias M, **King TS**, Castro M, Codispoti C, Dunn R, Giles BL, Holguin F, Lima J, Long D, Lugogo N, Nyenhuis S, Ortega VE, Ramratnam S, Wechsler ME, Israel E, Phipatanakul W, the "VIDA Disparities" Working Group Members, on behalf of the AsthmaNet Investigators. Income is an independent risk factor for worse asthma outcomes. 2016 AAAAI Annual Meeting, Los Angeles CA, March 4-7, 2016.

Contributed: Olympia RP, Wakefield H, Wakefield B, Weber C, **King TS**. Injuries depicted in sport-related films. Oral Presentation at the 2016 John M. Templeton Jr. Pediatric Trauma Symposium in Philadelphia, PA, March 4-5, 2016.

Contributed: To WJ, **King TS**, Sekhar DL. Poor Concordance Between Hypertensive Blood Pressures in the Preschool Years. Poster Presentation at the Academic Pediatric Association Region 2/3 Meeting in Bronx, NY, March 6, 2015.

Contributed: To WJ, **King TS**, Sekhar DL. Poor Concordance Between Hypertensive Blood Pressures in the Preschool Years. Platform Presentation at the Pediatric Academic Societies' Annual Meeting in San Diego, CA, April 27, 2015.

Contributed: Sekhar DL, Zalewski TR, Czarnecki B, Barr AL, **King TS**, Paul IM. Serial Testing Improves the Specificity of Adolescent Hearing Screens in the School Setting. Poster Presentation at the Pediatric Academic Societies' Annual Meeting in San Diego, CA, April 27, 2015.

Invited: Effect of Vitamin D3 Supplementation on Asthma Treatment Failures in Adults with Symptomatic Asthma and Lower Vitamin D Levels: The VIDA Randomized Clinical Trial. The Asthma Clinical Research Network. American Thoracic Society Annual Meeting, San Diego, CA 2014 (coauthor: performed statistical analysis).

Contributed: Claustrophobic Tendencies and CPAP Adherence in Adults with Obstructive Sleep Apnea. Edmonds JC, Sawyer AM, King TS. SLEEP 2014, 28th Annual Meeting of the Associated Professional Sleep Societies, May 31-June 4, 2014, Minneapolis, MN. (coauthor: performed statistical analysis)

Invited: “A Frailty Model with a Time-Dependent Covariate: Application to the AsthmaNet VIDA Trial” as part of the PHS Biostatistics Seminar Series, October 30, 2013 (presenter)

Contributed: The Effect of Oral Corticosteroids During Acute Lower Respiratory Tract Illnesses in Preschool Children. Beigelman A, King T, Bacharier L on behalf of the CARE Steering Committee. American Academy of Allergy Asthma and Immunology Annual Meeting, Orlando, FL, 2012 (coauthor: performed statistical analysis)

Invited: Biostatistics via Telecommuting. Sigma Zeta Career Information Night, sponsored by the Science and Mathematics National Honor Society at Messiah College, Grantham PA, March 30, 2011 (presenter via skype)

Invited: BASALT: Best Adjustment Strategy for Asthma in the Long Term. The Asthma Clinical Research Network. American Academy of Allergy Asthma and Immunology Annual Meeting, San Diego, CA, 2011 (coauthor: performed statistical analysis)

Contributed: Inadequate Detection of Hearing Loss by School Screening. Sekhar DL, Rhoades JA, Longenecker AL, Beiler JS, King TS, Widome MD, Paul IM. Pediatric Academic Societies' Meeting, Vancouver, May 2010 (coauthor: performed statistical analysis).

Invited: Measures of Agreement and Concordance, with Clinical Research Applications. Landis JR, King TS, Chinchilli VM. Festschrift in Honor of Professor Gary Koch & 60th Anniversary Celebration of the University of North Carolina Department of Biostatistics. Chapel Hill, NC October 2009 (presenter).

Invited: Macrolides in Asthma Trial. The Asthma Clinical Research Network. American Thoracic Society Annual Meeting, San Diego, CA 2008 (coauthor: performed statistical analysis).

Contributed: Outcomes of Pulmonary Emboli Based On Clot Burden and Length of Anticoagulation – A Retrospective Study. Benninghof MG, King TS, Alam S. ATS International Meeting, Toronto. May, 2008 (coauthor: performed statistical analysis).

Contributed: Sphingosine Kinase 1 Protein and mRNA are Highly Expressed in B-Cell NHL and are Potential Targets for Pharmacological Inhibition. Bayerl MG, Abou-Elella A, Bruggeman RD, Conroy EJ, Hengst JA, King T, Jiminez, Yun JK. 96th Annual United States and Canadian Academy of Pathology Meeting, San Diego, CA March 24th-30th, 2007 (coauthor: performed statistical analysis).

Invited: A Class of Repeated Measures Concordance Correlation Coefficients. Tonya S. King, Vernon M. Chinchilli, and Josep L. Carrasco. Eastern North American Regional Meeting of the International Biometric Society, Atlanta, GA, 2007 (presenter)

Invited: Value of Spirometry for Assessing Impairment and Risk. An Analysis of ACRN Trials. The Asthma Clinical Research Network. American Academy of Allergy Asthma and Immunology Annual Meeting, San Diego, CA, 2007 (coauthor: performed statistical analysis)

Invited: Estimating Agreement in a Longitudinal Setting: with Application to Multi-Center Clinical Trials in Asthma. Pennsylvania State University – Harrisburg Campus. November, 2006 (presenter)

Contributed: Trauma Team Activation and the Impact on Mortality. AAST poster presentation. New Orleans, September, 2006 (coauthor: performed statistical analysis)

Invited: Evaluation of Patient-Centered and Economic Outcomes in the “Improving Asthma Control Trial” (IMPACT). The Asthma Clinical Research Network. American Thoracic Society Annual Meeting, San Diego, CA 2006 (coauthor: performed statistical analysis)

Invited: PRICE: Predicting Responses to Inhaled Corticosteroid Efficacy. The Asthma Clinical Research Network. American Academy of Allergy Asthma and Immunology Annual Meeting, Austin, TX, 2005 (coauthor: performed statistical analysis)

Invited: PRICE: Predicting Responses to Inhaled Corticosteroid Efficacy. The Asthma Clinical Research Network. American Thoracic Society Annual Meeting, San Diego, CA 2005 (coauthor: performed statistical analysis)

Invited: Biostatistics in a Research Hospital Setting. Sigma Zeta Career Information Night, sponsored by the Science and Mathematics National Honor Society at Messiah College, Grantham PA, February 10, 2005 (presenter)

Invited: IMPACT: IMProving Asthma Control Trial. The Asthma Clinical Research Network. American Academy of Allergy Asthma and Immunology Annual Meeting, San Francisco, CA, 2004 (coauthor: performed statistical analysis)

Invited: IMPACT: IMProving Asthma Control Trial. The Asthma Clinical Research Network. American Thoracic Society Annual Meeting, Orlando, FL, 2004 (coauthor: performed statistical analysis)

Invited: Repeated measures concordance correlation coefficient. Tonya S. King and Vernon M. Chinchilli. Eastern North American Regional Meeting of the International Biometric Society meetings, Pittsburgh, PA, 2004 (presenter)

Invited: Reliability of home PEF and FEV₁ measurements: ACRN IMPACT Ancillary Study. The Asthma Clinical Research Network. American Academy of Allergy Asthma and Immunology Annual Meeting, 2003 (coauthor: performed statistical analysis)

Invited: Reliability of home PEF and FEV₁ measurements: ACRN IMPACT Ancillary Study. The Asthma Clinical Research Network. American Thoracic Society Annual Meeting, Seattle, WA, 2003 (coauthor: performed statistical analysis)

Invited: Biostatistics in a Research Hospital Setting. Sigma Zeta Career Information Night, sponsored by the Science and Mathematics National Honor Society at Messiah College, Grantham PA, November 6, 2003 (presenter)

Invited: Measures of Agreement with Application to Studies of Respiratory Disease. Pulmonary, Allergy and Critical Care Grand Rounds; December 17, 2002 (presenter)

Invited: Predicting responses of mild asthmatics to intense combined asthma therapy including corticosteroids. The Asthma Clinical Research Network. American Thoracic Society Annual Meeting, Atlanta, GA, 2002 (coauthor: performed statistical analysis)

Invited: Comparison of inhaled corticosteroids: measuring efficacy of inhaled corticosteroids in relation to systemic effect. The Asthma Clinical Research Network. American Academy of Allergy Asthma and Immunology Annual Meeting, New Orleans, LA, 2001 (coauthor: performed statistical analysis)

Invited: Comparison of inhaled corticosteroids: measuring efficacy of inhaled corticosteroids in relation to systemic effect. The Asthma Clinical Research Network. American Thoracic Society Annual Meeting, San Francisco, CA, 2001 (coauthor: performed statistical analysis)

Invited: Robust estimators of the concordance correlation coefficient. Tonya S. King and Vernon M. Chinchilli. Joint Statistical Meetings, Atlanta, Georgia, 2001 (presenter)

Invited: The Role of the Statistician in an Academic Research Hospital Setting. Tonya S. King. Shippensburg University, Shippensburg, Pennsylvania, 2000 (presenter)

Invited: The Role of the Statistician in an Academic Research Hospital Setting. Tonya S. King. The Eastern Pennsylvania and Delaware Section of the Mathematical Association of American Regional Meeting, Grantham, Pennsylvania, 2000 (presenter)

Contributed: A Generalized Concordance Correlation Coefficient for Continuous and Categorical Data. Tonya S. King and Vernon M. Chinchilli. Eastern North American Regional Meeting of the International Biometric Society, Chicago, Illinois, 2000 (presenter)

Contributed: Developing Robust Estimators of the Concordance Correlation Coefficient. Tonya S. King and Vernon M. Chinchilli. Biometric Society Eastern North American Regional Meeting, Atlanta, Georgia, 1999 (presenter)

Invited: The Role of Statistical Consulting in the University. Gary G. Koch, Tonya J. Sharp, Catherine M. Tangen. Biometric Society Eastern North American Regional Meeting, Memphis, Tennessee, 1997 (coauthor)

Contributed poster: Some Bivariate Strategies for Extended Mantel-Haenszel Tests. Tonya J. Sharp, Gary G. Koch. Joint Statistical Meetings, 1996 (presenter)

Invited: Analysis of Clustered Categorical Data in an Experimental Design: Sample Survey Methods Compared to Alternatives. J. Richard Landis, Tonya J. Sharp, A. Russell Localio. Joint Statistical Meetings, 1995 (presenter)

Invited: Analysis of Forestry Data with Survey Regression Methods. Lisa M. LaVange, Gary G. Koch, Tonya J. Sharp, Stuart A. Gansky. Joint Statistical Meetings, 1995 (coauthor)

PUBLICATIONS (*in Peer-Reviewed Journals*)

Armitage GC, Jeffcoat MK, Chadwick DE, Taggart EJ, Numabe Y, Landis JR, Weaver SL, **Sharp TJ**. Longitudinal evaluation of elastase as a marker for the progression of periodontitis. *Journal of Periodontology*, February 1994: 65(2), 120-128.

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Kettritz U, Semelka RC, Brown ED, **Sharp TJ**, Lawing WL, Colindres RE. MR findings in diffuse renal parenchymal disease. *Journal of Magnetic Resonance Imaging*, 1996: 6(1), 136-144.

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Landis JR, **Sharp TJ**, Kuritz SJ, Koch GG. Mantel-Haenszel Methods. In *Encyclopedia of Biostatistics*, John Wiley and Sons, Inc., New York, 1998.

Kilpatrick SE, Abdul-Karim FW, Renner JB, **King TS**, Klein MJ, Rosenberg AE, Steiner GC, Bullough PG, Schiller AL, Dorfman HD. Interobserver variability among expert orthopaedic pathologists for the diagnosis, histologic grade, and determination of chemotherapy in osteosarcoma. *Pediatric Pathology and Molecular Medicine*, 2000: 19, 337-358.

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