

## AMY M PERKINS

2525 West End Ave., Suite 11000

Nashville, TN 37203

Phone: (615) 875-9582

E-mail: amy.perkins@vanderbilt.edu

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### Education:

- 2010 M.S. in Biostatistics, University of Pittsburgh, Pittsburgh, PA  
Thesis title: Prediction Accuracy of SNP Epistasis Models Generated by Multifactor Dimensionality Reduction and Stepwise Penalized Logistic Regression  
Advisor: Stewart Anderson, PhD
- 2007 B.S. in Mathematics, Westminster College, New Wilmington, PA

### Certifications:

- 2011-present Collaborative Institutional Training Initiative: Human Subjects Protection

### Professional Experience:

- 2015-present Biostatistician II, Department of Biostatistics, Vanderbilt University School of Medicine (VU), Nashville, TN
- 2013-2015 Director, Division of Biostatistics and Innovation in Research Design, Department of Pediatrics, Eastern Virginia Medical School (EVMS), Norfolk, VA
- 2011-2015 Instructor, Department of Pediatrics, EVMS, Norfolk, VA
- 2011-2015 Biostatistician, Department of Pediatrics, Children's Hospital of The King's Daughters (CHKD), Norfolk, VA
- 2007-2010 Graduate Student Researcher, University of Pittsburgh, Pittsburgh, PA

### Professional Societies:

- 2011-present American Statistical Association

### Honors and Awards:

- 2011 Delta Omega National Honor Society, Omicron Chapter, University of Pittsburgh, Pittsburgh, PA

### Publications:

#### Refereed Articles

1. Kale S, Yende S, Kong L, **Perkins A**, Kellum JA, Newman AB, Vallejo AN, Angus DC for the GenIMS Investigators: The Effects of Age on Inflammatory and Coagulation-Fibrinolysis Response in Patients Hospitalized for Pneumonia. *PLoS One* 2010;5(11):e13852.
2. Byars DV, Brodsky RA, Evans D, Lo B, Guins T, **Perkins AM**: Comparison of Direct Laryngoscopy to Pediatric King LT-D in Simulated Airways. *Pediatr Emerg Care* 2012;28(8):750-752.
3. Harrington JW, Bai R, **Perkins AM**: Screening Children for Autism in an Urban Clinic Using an Electronic M-CHAT. *Clin Pediatr (Phila)* 2013;52(1):35-41.

4. Hartwig HD, Clingenpeel J, **Perkins AM**, Rose W, Abdullah-Anyiwo J: Parental Knowledge of Radiation Exposure in Medical Imaging Used in the Pediatric Emergency Department. *Pediatr Emerg Care* 2013;29(6):705-709.
5. Kohler JA Sr, **Perkins AM**, Bass WT: Human Milk versus Formula after Gastroschisis Repair: Effects on Time to Full Feeds and Time to Discharge. *J Perinatol* 2013;33(8):627-630.
6. Mourani PM, Kinsella JP, Clermont G, Kong L, **Perkins AM**, Weissfeld L, Cutter G, Linde-Zwirble WT, Abman SH, Angus DC, Watson RS, Prolonged Outcomes after Nitric Oxide (PrONOx) Investigators: Intensive Care Unit Readmission during Childhood after Preterm Birth with Respiratory Failure. *J Pediatr* 2014;164(4):749-755.
7. Brown VW, Lamb SM, **Perkins AM**, Naim DW, Starling SP: Knowledge Regarding Hymens and the Sex Education of Parents. *J Child Sex Abus* 2014;23(6):674-689.
8. Bass WT, Lattanzio FA, Brayman G, Kootsey B, Aiello F, **Perkins AM**, Carr KL, Allison RC, Shaeffer J, Kelley R: Non-Invasive Measurement of Brain Temperature Using Radiometric Thermometry: Experimental Validation and Clinical Observations in Asphyxiated Newborns. *J Neonatal Perinatal Med* 2014;7(4):279-286.
9. Eom E, Restaino S, **Perkins AM**, Neveln N, Harrington JW: Sexual Harassment in Middle and High School Children and Effects on Physical and Mental Health. *Clin Pediatr (Phila)* 2015;54(5):430-438.
10. Will KE, Decina LE, Maple EL, **Perkins AM**: Examining the Relative Effectiveness of Different Message Framing Strategies for Child Passenger Safety: Recommendations for Increased Comprehension and Compliance. *Accid Anal Prev* 2015;79:170-181.
11. Schacherer NM, Erikson Ramirez D, Frazier SB, **Perkins AM**: Expedited Delivery of Pain Medication for Long-Bone Fractures Using an Intranasal Fentanyl Clinical Pathway. *Pediatr Emerg Care* 2015;31(8):560-563.
12. Woughter M, **Perkins AM**, Baldassari CM: Is MRI Necessary in the Evaluation of Pediatric Central Sleep Apnea? *Otolaryngol Head Neck Surg* 2015;153(6):1031-1035.
13. Sass LA, Hair PS, **Perkins AM**, Shah TA, Krishna NK, Cunnion KM: Complement Effectors of Inflammation in Cystic Fibrosis Lung Fluid Correlate with Clinical Measures of Disease. *PLoS One* 2015;10(12):e0144723.
14. Leazer R, **Perkins AM**, Shomaker K, Fine B: A Meta-analysis of the Rates of *Listeria monocytogenes* and *Enterococcus* in Febrile Infants. *Hosp Pediatr* 2016;6(4):187-195.

#### Other Publications

15. Williams DR, Benson BR, Price RH, Krava E, **Perkins A**: Multidisciplinary Team Approach to Pediatric Obesity. *Virginia Pediatrics* 2013;Summer 2013:13-15.
16. Will KE, Decina LE, Maple EL, **Perkins AM**: Effectiveness of Child Passenger Safety Information for the Safe Transportation of Children. Traffic Safety Facts Research Note. Report No. DOT HS 812 121. Washington, DC: National Highway Traffic Safety Administration. February 2015.
17. Decina LE, Will KE, Maple EL, **Perkins AM**, Kirley B, Mastromatto T: Effectiveness of Child Passenger Safety Information for the Safe Transportation of Children. Traffic Safety Facts Research Note. Report No. DOT HS 812 245. Washington, DC: National Highway Traffic Safety Administration. February 2016.

In Preparation

18. Maples K, **Perkins AM**, Cunnion K, Krishna N, Willis L, Nyalwidhe J: Eosinophil Quantitated Urine Kinetic (EoQUIK): A Novel Assay for Assessment of Eosinophilic Esophagitis. *Ann Allergy Asthma Immunol* 2016.
19. Hamzavi Abedi Y, **Perkins AM**, Morales MB: Childhood Obesity in Difficult to Control Pediatric Asthma Patients in a Tertiary Pediatric Subspecialty Clinic. *Allergy Asthma Proc* 2016.
20. Maples K, **Perkins AM**, Ebmeier S, Grubert J, Fantaskey A, Stanley S, Smith L, Willis L: Subepithelial Fibrosis Correlates with Basal Cell Hyperplasia in Children with Eosinophilic Esophagitis. *J Pediatr Gastroenterol Nutr* 2016.
21. Goolsby AL, Minto H, **Perkins AM**, Maples KM: Safety and Results of 2 versus 6 Step Oral Food Challenges: A 2-Year Retrospective Review. 2016.
22. Kelly DR, Gray MD, Sriraman NK, **Perkins AM**: Perception of Health Associated Legal Issues among English and Spanish Speaking Families. 2016.
23. Sriraman NK, Bäck D, Okereke I, Paulson JF, Brenner MG, Harrington JW, **Perkins AM**: Postpartum Depression Screening in an Urban Pediatric Practice. 2016.
24. Rohn RD, **Perkins AM**: Penile Diameter during Puberty in Boys: A Longitudinal Study. 2016.

**Grants:**

Current

Complete

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|-----------|---|
| 2015      | PI: Cunnion, Cystic Fibrosis Foundation<br>Complement Inflammation and anti-S. aureus Effectors in the Cystic Fibrosis Lung<br>Role: Biostatistician  |
| 2014-2015 | PI: Shah, Commonwealth Health Research Board<br>Role of Novel Complement Inhibitor in Improving Neurological Outcomes in an Animal Model of Neonatal Hypoxic Ischemic Encephalopathy<br>Role: Biostatistician |
| 2014      | PI: Baldassari, The Medarva Foundation Fund<br>Urinary Leukotriene E4 Levels in Children with Obstructive Sleep Apnea<br>Role: Biostatistician  |
| 2013-2014 | PI: Krishna, US Department of Commerce<br>Evaluating PIC1 in a Model of Acute Intravascular Hemolytic Transfusion Reaction<br>Role: Biostatistician   |
| 2011-2014 | PI: Willis, Children's Health Foundation<br>A Prospective, Observational Cohort Study Examining Changes in Submucosal Fibrosis in Patients with Eosinophilic Esophagitis<br>Role: Biostatistician             |
| 2011-2014 | PI: Decina, Co-PI: Will, National Highway Traffic Safety Administration<br>Effectiveness of Child Passenger Safety Information for the Safe Transportation  |

- of Children  
Role: Biostatistician
- 2011-2013 PI: Pegram, Hyundai Hope on Wheels  
Understanding Symptoms in Children with Cancer over Time: Evaluation of the Impact on Caregivers  
Role: Biostatistician
- 2011-2012 PI: Benson, Obici Healthcare Foundation  
Healthy You for Life Program (Suffolk)  
Role: Biostatistician

**Presentations:**

1. 30<sup>th</sup> International Symposium on Intensive Care and Emergency Medicine (ISICEM): Kale S, Yende S, Kong L, **Perkins A**, Kellum JA, Vallejo AN, Newman AB, Angus DC: Age-related Differences of Outcomes in Patients Hospitalized with Community-Acquired Pneumonia Are Not Explained by Differences in Immune Response. Brussels, Belgium. March 9-12, 2010.
2. Pediatric Academic Societies (PAS) Annual Meeting: Mourani PM, Kinsella JP, Clermont G, Kong L, **Perkins A**, Cutter G, Linde-Zwirble WT, Abman SH, Angus DC, Watson RS: Intensive Care Unit (ICU) Readmission after Premature Birth with Respiratory Failure. Denver, CO. April 30-May 3, 2011.
3. The Ray E. Helfer Society 2012 Annual Meeting: Wyvill V, Lamb SM, **Perkins AM**, Naim D, Starling SP: Survey of Pediatrician and Parental Attitudes and Knowledge of the Female Genitalia. Austin, TX. March 25-28, 2012.
4. Pediatric Academic Societies (PAS) Annual Meeting: Bai R, **Perkins AM**, Harrington JW: Screening Children for Autism Using an Electronic Form of the M-CHAT in an Urban Clinic Setting. Boston, MA. April 28-May 1, 2012.
5. Pediatric Academic Societies (PAS) Annual Meeting: Kootsey BL, Bass WT, White LE, Grasso S, Aiello F, Lattanzio F, **Perkins A**, Carr KL, Allison RC, Shaeffer J, Carr J: Brain Temperature in Newborns Undergoing Hypothermia for Hypoxic-Ischemic Encephalopathy: Relationship to EEG, MRI, and Neurodevelopmental Outcome. Boston, MA. April 28-May 1, 2012.
6. Pediatric Academic Societies (PAS) Annual Meeting: Rohn RD, **Perkins A**: Penile Diameter During Puberty in Boys: A Longitudinal Study. Boston, MA. April 28-May 1, 2012.
7. Pediatric Academic Societies (PAS) Annual Meeting: Sriraman NK, Bäck D, Okereke I, Brenner MG, Harrington J, **Perkins A**: Postpartum Depression Screening in an Urban Pediatric Practice. Boston, MA. April 28-May 1, 2012.
8. Pediatric Academic Societies (PAS) Annual Meeting: Wyvill V, Lamb SM, **Perkins AM**, Naim D, Starling SP: Parental Knowledge Compared to Pediatrician Knowledge Regarding Female Genital Anatomy and Sexual Abuse. Boston, MA. April 28-May 1, 2012.
9. American Thoracic Society (ATS) International Conference: Sendon CS, Chocano JF, Ahmad H, **Perkins A**: Spirometry and Sleep Quality in Children and Young Adults with Cystic Fibrosis. San Francisco, CA. May 18-23, 2012.
10. The 7<sup>th</sup> International Conference on Brain Monitoring & Neuroprotection in the Newborn: Kootsey BL, Bass WT, White LE, Grasso S, Aiello F, Lattanzio F, **Perkins A**, Carr KL, Allison RC, Shaeffer J, Carr J: Brain Temperature in Newborns Undergoing Hypothermia for Hypoxic-Ischemic Encephalopathy: Relationship to EEG, MRI, and Neurodevelopmental Outcome.

- Tampa, FL. September 13-15, 2012.
11. Virginia Chapter of the American Academy of Pediatrics (VA-AAP) Annual Meeting: Maples K, Thompson T, **Perkins A**, Smart M: Efficacy & Safety of Abbreviated Oral Food Challenges in Ruling out Food Allergy in a Pediatric Allergy Clinic. Williamsburg, VA. September 14-16, 2012.
  12. Virginia Chapter of the American Academy of Pediatrics (VA-AAP) Annual Meeting: Ramirez D, Schacherer N, Frazier SB, **Perkins AM**: Implementation of an Intranasal Fentanyl Pathway for Management of Long Bone Fractures in the Emergency Department. Williamsburg, VA. September 14-16, 2012.
  13. The 17<sup>th</sup> Annual International Meeting of the Academy of Breastfeeding Medicine (ABM): Kohler JA, **Perkins AM**, Bass WT: Breast Milk After Gastroschisis: Prescription for Success. Chicago, IL. October 11-14, 2012.
  14. The Southern Pediatric Endocrine Society Annual Meeting: Reifschneider K, **Perkins AM**, Donthi N: Delayed Insulin Secretion and Resistance in Cystic Fibrosis Related Diabetes. Lake Buena Vista, FL. December 1-2, 2012.
  15. The 2013 American Academy of Allergy, Asthma, & Immunology (AAAAI) Annual Meeting: Thompson T, Maples K, **Perkins A**, Smart M: Efficacy & Safety of Abbreviated Oral Food Challenges in Ruling Out Food Allergy in a Pediatric Allergy Clinic. San Antonio, TX. February 22-26, 2013.
  16. 2013 Academic Pediatric Association (APA) Region IV Meeting: Eom E, Restaino S, **Perkins A**, Harrington J: How Common Is Sexual Harassment in Teenagers and Does It Correlate with a Child's Physical or Mental Health? Charlottesville, VA. February 23-24, 2013.
  17. Pediatric Academic Societies (PAS) Annual Meeting: Kohler JA Sr, **Perkins AM**, Bass WT: Exclusive Human Milk Feeding after Gastroschisis Repair Decreases Time to Full Feeds and Time to Discharge. Washington, DC. May 4-7, 2013.
  18. Pediatric Academic Societies (PAS) Annual Meeting: Kelly D, Clayton C, Sriraman N, **Perkins A**: Unmet Social and Legal Needs of Spanish Speaking Families in Pediatric Practice. Washington, DC. May 4-7, 2013.
  19. Pediatric Academic Societies (PAS) Annual Meeting: Harrington JW, Kaya A, **Perkins AM**: 1,2,3,Magic: Improving a Resident's Ability To Give Brief Effective Behavioral Interventions. Washington, DC. May 4-7, 2013.
  20. Pediatric Academic Societies (PAS) Annual Meeting: Eom B, Restaino S, **Perkins AM**, Harrington JW: How Common Is Sexual Harassment in Teenagers and Does It Correlate with a Child's Physical or Mental Health? Washington, DC. May 4-7, 2013.
  21. Virginia Chapter of the American Academy of Pediatrics (VA-AAP) Annual Meeting: Jun J, Reifschneider K, **Perkins AM**: Cystic Fibrosis Related Diabetes. Williamsburg, VA. September 20-22, 2013.
  22. Virginia Chapter of the American Academy of Pediatrics (VA-AAP) Annual Meeting: Eom B, Restaino S, **Perkins AM**, Harrington JW: How Common Is Sexual Harassment in Teenagers and Does It Correlate with a Child's Physical or Mental Health? Williamsburg, VA. September 20-22, 2013.
  23. 2013 American Academy of Pediatrics (AAP) National Conference and Exhibition: Sriraman NK, Hawkins S, Harrison M, **Perkins A**: African-American Women's Perceptions of Breastfeeding Over the Years. Orlando, FL. October 26-29, 2013.

24. 2013 American Academy of Pediatrics (AAP) National Conference and Exhibition: Williams DR, Benson BR, Price RH, **Perkins AM**, Krava EA, Layne JH, Belford-Cohen P, Kistler L, Davies KR, Gill JP, Kranz KA, Haney MJ, Rodriguez JC, Pelton EW, Burkard R: Multidisciplinary Treatment and Therapeutic Contact to Decrease Attrition in Obesity Treatment. Orlando, FL. October 26-29, 2013.
25. 2013 American College of Allergy, Asthma, & Immunology (ACAAI) Annual Scientific Meeting: Hom S, **Perkins A**, Fine B, Kelly C: Factors Predicting Longer Length of Stay in Hospitalized Pediatric Asthmatic Patients. Baltimore, MD. November 7-11, 2013.
26. The Academy of Breastfeeding Medicine (ABM) 18<sup>th</sup> Annual International Meeting: Harrison M, Sriraman NK, Hawkins S, **Perkins AM**: African American Women's Perception of Breastfeeding Over the Years. Philadelphia, PA. November 21-24, 2013.
27. 2014 Academic Pediatric Association (APA) Region IV Meeting: Firestine A, Leonardi B, Bass WT, Cobb D, **Perkins A**: Elevated Head Positioning of Extremely Low Birth Weight Infants: Effects on Respiratory and Cardiac Function. Charlottesville, VA. February 22-23, 2014.
28. 2014 Academic Pediatric Association (APA) Region IV Meeting: Harrington JW, Stup B, **Perkins AM**: 1,2,3,Magic: A Curriculum to Improve Pediatric Resident Management of Common Behavioral Problems in Children. Charlottesville, VA. February 22-23, 2014.
29. The 2014 American Academy of Allergy, Asthma, & Immunology (AAAAI) Annual Meeting: Goolsby AL, Minto H, **Perkins A**, Maples KM: Abbreviated Oral Food Challenge As a Safe and Effective Alternative for Diagnosing Food Allergy in a Pediatric Clinic. San Diego, CA. February 28-March 4, 2014.
30. The 2014 American Academy of Allergy, Asthma, & Immunology (AAAAI) Annual Meeting: Patel J, Cavero VY, **Perkins A**, Minto H, Morales MB: Evaluation of a Medication Adherence Estimator Survey Compared to Exhaled Nitric Oxide (FeNO) Levels and Asthma Control Test in Difficult-to-Treat/Severe Pediatric Asthma Patients. San Diego, CA. February 28-March 4, 2014.
31. The 14<sup>th</sup> Annual Scientific Meeting of the American Academy of Health Behavior (AAHB): Will KE, Maple EL, **Perkins AM**, Coley N, Cawood L: Development and Evaluation of a School-Based Distracted Driving Program for Teens. Charleston, SC. March 16-19, 2014.
32. Pediatric Academic Societies (PAS) Annual Meeting: Firestine A, Leonardi B, Bass WT, Cobb DE, **Perkins AM**: Elevated Head Positioning of Extremely Low Birth Weight Infants: Effects on Respiratory and Cardiac Function. Vancouver, BC. May 3-6, 2014.
33. 2014 American Academy of Pediatrics (AAP) National Conference and Exhibition: Kelly DR, Gray MD, **Perkins AM**, Sriraman NK: Perceptions of Health Associated Legal Issues Among English and Spanish Speaking Families. San Diego, CA. October 11-14, 2014.
34. 2014 American College of Allergy, Asthma, & Immunology (ACAAI) Annual Scientific Meeting: Maples K, Burch T, **Perkins A**, Cunnion K, Krishna N, Minto H, Willis L, Nyalwidhe J: Development of a Novel Urinary Biomarker for Eosinophilic Esophagitis. Atlanta, GA. November 6-10, 2014.
35. 2014 American College of Allergy, Asthma, & Immunology (ACAAI) Annual Scientific Meeting: Hamzavi Abedi Y, **Perkins AM**, Morales MB: Childhood Obesity in Difficult to Control Pediatric Asthma Patients in a Tertiary Pediatric Subspecialty Clinic. Atlanta, GA. November 6-10, 2014.
36. 2015 Academic Pediatric Association (APA) Region IV Meeting: Farrell PR, Rogers ME, Brady

- SK, Beckett K, Eichelberger I, Persinger Yeargin M, **Perkins AM**, Frazer JP: Thinking Inside the Box: Examining the Role of a Self-Contained, Resident-Initiated, Community Garden on Family Nutritional Knowledge. Charlottesville, VA. February 21-22, 2015.
37. 2015 Academic Pediatric Association (APA) Region IV Meeting: Hamzavi Abedi Y, **Perkins AM**, Morales MB: Childhood Obesity in Difficult to Control Pediatric Asthma Patients in a Tertiary Pediatric Subspecialty Clinic. Charlottesville, VA. February 21-22, 2015.
38. The 15<sup>th</sup> Annual Scientific Meeting of the American Academy of Health Behavior (AAHB): Will KE, Decina LE, Maple EL, **Perkins AM**: Examining the Relative Effectiveness of Different Message Framing Strategies for Child Passenger Safety: Recommendations for Increased Comprehension and Compliance. San Antonio, TX. March 15-18, 2015.
39. Pediatric Academic Societies (PAS) Annual Meeting: Restaino K, Harrington JW, Vergano S, Bhatnagar A, **Perkins AM**: Shared Decision Making and Genetic Testing in Autism. San Diego, CA. April 25-28, 2015.
40. Pediatric Academic Societies (PAS) Annual Meeting: Schacherer NM, Armstrong T, **Perkins AM**, Poirier MP, Schmidt J: Propofol versus Dexmedetomidine for Procedural Sedation in a Pediatric Population. San Diego, CA. April 25-28, 2015.
41. Society for Academic Emergency Medicine (SAEM) Annual Meeting: McCarthy JL, Clingenpeel JM, **Perkins AM**, Eason MK, O'Shea SB: Urgent Care Transfers to an Academic Pediatric Emergency Department. San Diego, CA. May 12-15, 2015.
42. American Thoracic Society (ATS) International Conference: Chocano JF, **Perkins AM**, Sendon CS: Polysomnographic Characteristics of Obstructive Sleep Apnea in Pediatric Sickle Cell Disease. Denver, CO. May 15-20, 2015.
43. 2015 American Academy of Pediatrics (AAP) National Conference and Exhibition: Hamzavi Abedi Y, **Perkins AM**, Morales MB: Childhood Obesity in Difficult to Control Pediatric Asthma Patients in a Tertiary Pediatric Subspecialty Clinic. Washington, DC. October 24-27, 2015.
44. The 16<sup>th</sup> Annual Scientific Meeting of the American Academy of Health Behavior (AAHB): Will KE, Decina LE, Maple EL, **Perkins AM**: Effectiveness of Child Passenger Safety Recommendations Delivered Alone or in Combination with Installation and Normative Information: Diverging Evidence for Experienced and Novice Users. Ponte Vedra Beach, FL. February 21-24, 2016.

### Teaching Activities:

#### Lectures Taught

- 2015 Data Management & Statistical Analysis  
2015 Summer Scholars Program, EVMS/CHKD, June 10, 2015
- 2014 Data Management & Statistical Analysis  
2014 Summer Scholars Program, EVMS/CHKD, May 22, 2014
- 2013 Data Management & Statistical Analysis  
2013 Summer Scholars Program, EVMS/CHKD, May 23, 2013
- 2012 Study Design, Data Management, & Statistical Analysis  
2012 Summer Scholars Program, EVMS/CHKD, May 30, 2012
- 2011 Developing a Project and Designing the Analysis

Pediatric Residency Program, EVMS/CHKD, December 2, 2011  
2011 Study Design, Data Management, & Statistical Analysis  
2011 Summer Scholars Program, EVMS/CHKD, May 27, 2011

**Professional Service:**

University, Hospital, and Department Committees

2016-present Allocation Committee, Member, Department of Biostatistics, VU  
2016-present MS Staff Recruitment Committee, Co-Chair, Department of Biostatistics, VU  
2015-2016 MS Staff Recruitment Committee, Member, Department of Biostatistics, VU  
2013-2015 Quality Forum Planning Committee, Member, CHKD  
2013-2015 Research Advisory Committee, Member, Department of Pediatrics, EVMS/CHKD  
2012-2015 Continuing Medical Education Committee, Member, CHKD  
2011-2015 Scholarly Activity and Scholastic Oversight Committee, Member, Division of  
Pediatric Emergency Medicine, EVMS/CHKD  
2011-2015 Summer Scholars Program Committee, Program Coordinator, EVMS/CHKD

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