**CURRICULUM VITAE**

**Yuwei Zhu, M.D., M.S.**

**Data Updated: 2-12-2018**

**BUSINESS ADDRESS**

 Department of Biostatistics

 Vanderbilt University School of Medicine

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 Nashville, Tennessee 37203-1738

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**EDUCATION**

#### 07/1993 Bachelor of Medicine

#### School of Public Health, Shanghai Medical University

#### Shanghai, China

#### 05/1998 Master of Sciences in Biometry

#### Biometry program, University of Texas, Houston Health Science Center School of Public Health, Houston, TX

**MASTER’S THESIS**

#### Title: Risk of Producing Malformed Offspring Among Women Weighing Equal To Or Greater Than 200 Pounds

Advisors: Robert Hardy, Ph.D., Wenyaw Chan, Ph.D., Kim Waller, Ph.D.

**ACADEMIC HONORS**

Under Graduate

08/1988 – 07/1993 Honors Program Scholarship, Shanghai Medical University

07/1993 Honor graduate of Shanghai Medical University

Graduate School

08/1996 – 05/1998 Graduate Assistant Scholarships, University of Texas at Houston

**TRAINING**

####

#### 02/1993 – 07/1993 Research Assistant

####  Shanghai Planned Reproduction Research Institute, Shanghai, China

#### Investigated Shanghai undergraduates for acknowledge, concept, experience and performance (ACEP) regarding HIV & AIDS.

#### 07/1993 – 05/1994 Medical Doctor

####  Shanghai Health & Quarantine Bureau, Shanghai, China

####  Investigated & prevent the infection of HIV in China.

**PROFESSIONAL TRAINING**

#### 08/1996 – 05/1998 Graduate Research Assistant

#### Antihypertensive & Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT) project at the coordinating center for clinical trials at UT-SPH, Houston, TX

06/1998 TeleForm training class by Cardiff Software, Atlanta GA

10/1998 Oracle8: Database Administration by Solutech, Franklin TN

06/2000 Visual Basic I at Nashville State Technical Institution, Nashville TN

08/2000 Visual Basic II at Nashville State Technical Institution, Nashville TN

11/2000 MS Publisher 2000 by New Horizons, Nashville TN

12/2001 Clinical trials (fall course) by Yu Shyr at Vanderbilt Univ.

2001 JSM Statistical methods for the analysis of ordered categorical data,

Simulation and Monte Carlo methods, Robust diagnostic data analysis, Determining sample size and power in study planning: nQuery Advisor, Meta-analysis in medicine and health policy: Bayesian approaches, Multiple imputations for missing data, Applying finite mixture models

2002 JSM Sample-size analysis in study planning (using UnifyPow.sas),

 Analysis of repeated categorical measurement data,

02/2003 Nonlinear optimization (spring course) by Mark Ellingham at Vanderbilt University

2003 JSM Linear mixed models in SPSS,

 An introduction to applied Bayesian methods,

2004 JSM Analysis of multivariate survival data: An introduction to frailty models

2005 ENAR Quantile regression

2006 JSM Bioequivalence and Statistics in Clinical pharmacology

02/2007 Statistical modeling for biomedical researchers (spring course)

 by William Dupont at Vanderbilt University

2007 ENAR Applied longitudinal analysis

09/2008 On-line training course -- Determining Power and Sample Size

2010 ENAR Analysis of complex sample designs by Michael Elliot

2010 JSM Survey Data Analysis with Stata by Jeffrey Pitblado, StataCorp LP

2012 useR! Predictive modeling with R and the caret package

2012 JSM East architect: a new tool for trial design by Cytel

Design and analysis of biomarker studies for risk prediction by Tianxi Cai and Yingye Zheng

06/2013 On-line webinar - successful strategies for sensitivity analysis

10/2013 Coursera course: data management for clinical research by Stephany N. Duda, Firas H. Wehbe, Paul A. Harris, accomplishment with distinction

02/2014 Short course - A Bayesian Missing Data Framework for Combining Multiple Outcomes in Mixed Treatment Comparisons using Aggregate and Individual Patient Data by Bradley Carlin

2014 JSM Applied longitudinal analysis

 Calibration weighting in survey sampling

 Introduction to data mining with CART

09/2015 Escape the Land of LaTeX/Word for Statistical Reporting: The Ecosystem of R Markdown by Yihui Xie, RStudio

03/2016 ENAR An Introduction to Statistical Machine Learning by Yufeng Liu and Genevera Allen

06/2016 useR! Using Git and GitHub with R, Rstudio, and R Markdown by Jenny Bryan

10/2017 Webinar - Multi-state Models: Methods and Software by Chris Jackson

**ACADEMIC APPOINTMENTS**

01/2004 – 07/2007 Assistant in Biostatistics, Department of Biostatistics, Vanderbilt University School of Medicine, Nashville, TN

08/2007 – 03/2012 Associate in Biostatistics, Department of Biostatistics, Vanderbilt University School of Medicine, Nashville, TN

04/2012 – Present Senior Associate in Biostatistics, Department of Biostatistics, Vanderbilt University School of Medicine, Nashville, TN

**PROFESSIONAL ORGANIZATIONS**

1998 - Present Member, American Statistical Association

2002 - Present Member, International Chinese Statistical Association

2004 - Present Member, International Biometrics Society (ENAR)

**PROFESSIONAL ACTIVITIES**

06/1998 - 12/2003 Statistician

Cumberland Pediatric Foundation / Division of Pediatric Infectious Disease, Vanderbilt University, Nashville, TN

Store, retrieve, analyze data and report results to principal investigators, fellows, residents, medical students and/or community practitioners

01/2004 – 07/2007 Assistant in Biostatistics

 Dept. of Biostatistics, Vanderbilt University, Nashville, TN

Vaccine clinical trials (phase I and II), CDC New Vaccines Surveillance Network and other research studies using R, SAS, SPSS, S-Plus, and Stata

08/2007 – 03/2012 Associate in Biostatistics

 Dept. of Biostatistics, Vanderbilt University, Nashville, TN

Vaccine clinical trials (phase I and II), CDC Influenza Surveillance, CDC etiology of pneumonia in the community (EPIC) study and other research studies using R, SAS, SPSS, S-Plus, and Stata

04/2012 - Present Senior Associate in Biostatistics

 Dept. of Biostatistics, Vanderbilt University, Nashville, TN

Vaccine clinical trials (phase I and II), CDC Influenza Surveillance, CDC etiology of pneumonia in the community (EPIC) study and other research studies using R, SAS, SPSS, S-Plus, and Stata

**SERVICE ACTIVITIES**

2005 – 2010 Mentorship committee member for Dr. Kathy Miller

2005 - 2009 Volunteer for continue quality improvement, in charge of Dept.’s bulletin display

10/2004 GCRC workshop titled “How to understand and use National Ambulatory Medical Care Survey (NAMCS) and National Hospital Ambulatory Medical Care Survey (NHAMCS) data for clinical research”, GCRC weekly seminar

2003 - Present MS search committee at Dept. of Biostatistics

2003 – 2008 Mentorship committee member for Dr. Natasha Halasa

2016 – Present Mentorship committee member for Dr. Leigh Howard

**RESEARCH PROGRAMS**

**GRANTS AWARDS**

**Active: Period / Annual Direct Effort**

1U01IP000979-02 (Talbot) 07/01/2016-06/30/2021 4.20 calendar

Centers For Disease Control and Prevention (CDC) $522,984

U.S. Ambulatory Influenza Vaccine Effectiveness

VUMC7131 (Schaffner) 01/01/2012-12/31/2017 1.20 calendar

CDC $2,220,388

Emerging Infections Program

Comprehensive enhanced population-based public health surveillance for laboratory-confirmed invasive bacterial infections, influenza, encephalitis, human papillomavirus and pre-cancerous lesions. Role: Biostatistician

VUMC41717/GR-15-43659-00 (Schaffner) 09/30/2013-09/29/2018 1.20 calendar

CDC/State of Tennessee $3,439,900

Emerging Infections Program HPV, PPHF, ABCs

Comprehensive enhanced population-based public health surveillance for laboratory-confirmed invasive bacterial infections, influenza, encephalitis, human papillomavirus and pre-cancerous lesions. Role: Biostatistician

5R02AI125642-02 (Williams) 04/01/2017-03/31/2022 1.20 calendar

NIAID $573,024

Risk Stratification and Decision Support to Improve Care and Outcomes in Children with Pneumonia

This proposal seeks to improve care and outcomes for children with pneumonia, the most common serious infection in childhood. Unwarranted variation in pediatric pneumonia care is apparent nationally, including frequent use of inappropriate antibiotics and wide differences in hospitalization rates, signaling a need for new strategies to inform decision making. The proposed studies will 1) validate a new risk stratification tool for children with pneumonia presenting for emergency care; 2) develop decision support within the electronic health record to guide antibiotic selection and deliver objective risk stratification data; and 3) test whether the provision of antibiotic and prognostic decision support improves care and outcomes for children with pneumonia. Role: Biostatistician

VUMC56603 200-2012-50431 (Edwards) 09/30/15 – 09/23/19 0.60 calendar

Centers For Disease Control (CDC) $250,107

Clinical Immunization Safety (CISA): Clinical Study of Tetnus Toxoid, Reduced Diphtheria Toxoid, and Acellular Pertussis Vaccine (Tdap) Role: Biostatistician

VUMC63455(200-2012-50430) (Edwards) 09/29/2017 - 09/28/2022 0.36 Calendar

Centers For Disease Control and Prevention (CDC) $244,369

Clinical Immunization Safety Assessment (CISA) - Clinical Evaluation Lead - 2017 CISA 05

**Pending:**

**Closed:**

08/01/14-07/31/16 1R03HS022342-02 (Grijalva) AHRQ

 The Impact of Infant Vaccination with a 13-valent Pneumococcal Conjugate Vaccine.

07/01/13-06/31/16 1R01AG043419-03 (Talbot) NIH/NIAID,

 Effectiveness of the Influenza Vaccine in the Aging Population.

02/01/13-01/31/17 5K23AI104779-03 (Williams) NIH/NIAID,

 Development and Validation of a Clinical Prediction Rule for Pediatric Pneumonia.

03/2008 - 02/2012 5K23A1074863-02, NIH/NIAID,

Adult Flu Hospitalizations: Evaluating Diagnostic Methods and Vaccine Effectiveness

 PI: Talbot

10/2011 – 12/2013 4046257132, CDC

 Long Term Persistence of Zoster Vaccine (Zostavax)

 PI:Griffin

11/2011-6/2012 4043635622, IDSA

Influenza Vaccine Immunologic Correlates

PI: Talbot

09/2009-08/2012 1U18 IP000299-01, CDC

 Adult Flu Hospitalizations: Evaluating Diagnostic Methods and Vaccine Effectiveness

 PI: Kathryn Edwards, M.D

10/2011 - 07/2012 5U18 IP000184-03, CDC, Annual Estimates of Influenza Vaccine Effectiveness: Davidson County, TN

 PI: Griffin

09/1999 - 09/2009 IP00022-04 NVSN, CDC, Enhanced Surveillance for New Vaccine Preventable Diseases

PI: Kathryn Edwards, M.D

09/2006 - 08/2008 4046257012, MedImmune, Evaluation of the Knox County School-based Immunization Program

 PI: Marie Griffin, M.D.

04/2004 - 03/2008 1 U2R RW006901, Haiti AIDS Research Training Models to implementation (COHRTA)

 PI: Peter Wright, M.D.

11/2004 - 12/2007 4045680113, NIH/NIAID/DMID, Vaccine Treatment and Evaluation Units (VTEU)

 PI: Kathryn Edwards, M.D.

06/2003 - 12/2007 RWJ 048477, Rapid Diagnostic Testing and Acute Respiratory Illness of Childhood

PI: Katherine Poehling, M.D.

07/2005 - 01/2007 K23 AI65805-01, Impact of Vaccine on Influenza Disease in Young Children

PI: Katherine Poehling, M.D.

06/2002 - 05/2006 N01 AI25462, NIH/NIAID/DMID, Vaccine Treatment and Evaluation Units (VTEU)

PI: Kathryn Edwards, M.D

01/2004 - 06/2005 1 N01 AI15444-01, Vanderbilt Clinical Trials Unit – Respiratory and Flavivirus Trails

PI: Peter Wright, M.D.

**BIBLIOGRAPHY**

1. Boyce TG, Hsu HH, Sannella EC, Coleman-Dockery SD, Baylis E, Zhu Y, Barchfeld G, DiFrancesco A, Paranandi M, Culley B, Neuzil KM, Wright PF. Safety and immunogenicity of adjuvanted and unadjuvanted subunit influenza vaccines administered intranasally to healthy adults. Vaccine2001;19:217-26.

2. Neuzil KM, Zhu Y, Griffin MR, Edwards KM, Thompson JM, Tollefson SJ, Wright PF. Burden of interpandemic influenza in children younger than 5 years: a 25-year prospective study. J Infect Dis. 2002 Jan 15;185(2):147-52.

3. Wright PF, Gruber WC, Peters M, Reed G, Zhu Y, Robinson F, Coleman-Dockery SD, Graham BS. Illness severity, viral shedding, and antibody responses in infants hospitalized with bronchiolitis caused by respiratory syncytial virus. J Infec Dis. 2002; 185:1011-8.

4. Neuzil KM, Hohlbein C, Zhu Y. Illness among schoolchildren during influenza season: the effect on school absenteeism, parental absenteeism from work and secondary illness in families. Archives of Pediatrics and Adolescent Medicine. 2002; 156:986-91.

5. Halasa NB, Griffin MR, Zhu Y, and Edwards KM, Decreased number of antibiotic prescriptions in office-based settings from 1993 to 1999 in children less than five years of age. Pediatric Infectious Dis J. 2002 Nov;21(11):1023-8.

6. Hernanz-Schulman M, Zhu Y, Stein SM, Heller RM, Bethel A. Sonographic evaluation of vascularity of the pyloric canal in infants with Hypertrophic Pyloric Stenosis. Radiology. 2003; 22:389-93.

7. Porter CC, Edwards KM, Zhu Y, and Frangoul H. Immune responses to influenza immunization in children receiving maintenance chemotherapy for acute lymphoblastic leukemia. Pediatric Blood & Cancer. 2004 Jan; 42(1):36-40.

8. Halasa NB, Griffin MR, Zhu Y, and Edwards KM. Difference in antibiotic prescribing patterns for children aged less than five years in the three major outpatient settings. J Pediatr. 2004 Feb;144(2):200-5. J Pediatr. 2004 Jun; 144(6); 838.

9. Robinson CG, Hernanz-Schulman M, Zhu Y, Griffin MR, Gruber WC, and Edwards KM. Evaluation of anatomic changes in young children with natural rotavirus infection: Is intussusception biologically plausible? J Infec Dis. 2004 Apr;189(8):1382-7. Epub 2004 Apr 02.

10. Wright PF, Mestecky J, McElrath J, Keefer MC, Gorse G, Goepfert P, Moldoveanu Z, Schwartz C, Spearman P, Habib RE, Spring MD, Zhu Y, Smith C, Flores J, Weinhold KJ, and the NIAID AIDS Vaccine Evaluation Group. Comparison of systemic and mucosal delivery of two canarypox virus vaccines expressing either human immunodeficiency virus type 1(HIV-1) gene or Rabies virus G protein. J Infec Dis. 2004; 189:1221-31.

11. Yoder SM, Zhu Y, Ikizler MR, Wright PF. Role of complement in neutralization of respiratory syncytial virus. J Medical Virology. 2004; 72:688-94.

1. Robertson SE, Roca A, Alonso P, Simoes EA, Kartasasmita CB, Olaleye DO, Odaibo GN, Collinson M, Venter M, Zhu Y, Wright PF. Respiratory syncytial virus infection: denominator-based studies in Indonesia, Mozambique, Nigeria and South Africa. Bulletin of the World Health Organization. 2004 Dec;82(12):914-22.
2. Poulose BK, Griffin MR, Moore DE, Zhu Y, Smalley W, Richards WO, Wright JK, Melvin

 W, Holzman MD. National analysis of adverse patient safety events in bariatric surgery.

 The American Surgeon. 71(5):406-413, 2005.

1. Roumie CL, Halasa NB, Edwards KM, Zhu Y, Griffin MR. Differences in antibiotic prescribing among physicians, residents, and non-physician providers. American J Medicine 2005 June;118:641-8.
2. Poulose BK, Griffin MR, Moore DE, Zhu Y, Smalley W, Richards WO, Wright JK, Melvin W, Holzman MD. Risk factors for postoperative mortality in bariatric surgery. Journal of Surgical Research. 2005;127(1):77-84.
3. Poulose BK, Holzman MD, Zhu Y, Smalley W, Richards WO, Wright JK, Melvin W, Griffin MR. National variations in morbid obesity and bariatric surgery Use. Journal of the American College of Surgeons. 2005;201(1):77-84.
4. Roumie CL, Halasa NB, Edwards KM, Zhu Y, Dittus R, Griffin MR, etc. Trends in antibiotic prescribing for adults in the United States, 1995-2002. J General Internal Medicine, 2005; August 20(8):697-702.
5. Madhi SA, Cutland C, Zhu Y, Hackell JG, Newman F, Blackburn N, etc. Transmissibility, infectivity and immunogenicity of a live human parainfluenza type 3 virus vaccine (HPIV3cp45) among susceptible infants and toddlers. Vaccine. 2006 Mar 20;24(13):2432-9. Epub 2005 Dec 20.
6. Clark KM, Wetzel JD, Gu Y, Ebert DH, McAbee SA, Stoneman EK, Baer GS, Zhu Y, Wilson GJ, Prasad BV, Dermody TS. Reovirus variants selected for resistance to ammonium chloride have mutations in viral outer-capsid protein sigma3. J Virol. 2006 Jan;80(2):671-81.
7. Wright FF, Karron AR, Madhi AS, Treanor JJ, King CJ, O’Shea A, Ikizler RM, Zhu Y,etc. The interferon antagonist NS2 protein of respiratory syncytial virus is an important virulence determinant for humans. J Infect Dis. 2006 Feb 15;193(4):573-81. Epub 2006 Jan 19.
8. Butler J, Rodondi N, Zhu Y, Figaro K, Fazio S, Vaughan DF, etc. Metabolic syndrome and the risk of cardiovascular disease in older adults. J Am Coll Cardiol. 2006 Apr 18;47(8):1595-602. Epub 2006 Mar 27.
9. Poehling KA, Zhu Y, Tang Y, Edwards KM. Accuracy and impact of a point-of-care rapid influenza test in young children with respiratory illnesses. Arch Pediatr Adolesc Med. 2006 Jul;160(7):713-8.
10. Poehling KA, Edwards KM, Weinberg GA, Szilagyi PG, Staat MA, Iwane MK, Bridges CB, Grijalva CG, Zhu Y, Bernstein DI, Herrera G, Erdman D, Hall CB, Seither R, Griffin MR, The underrecognized burden of influenza in young children. N Engl J Med. 2006 Jul 6;355(1):31-40.
11. [Grijalva CG, Poehling KA, Nuorti JP, Zhu Y, Martin SW, Edwards KM, Griffin MR.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Retrieve&dopt=AbstractPlus&list_uids=16950975&query_hl=9&itool=pubmed_docsum) National impact of universal childhood immunization with pneumococcal conjugate vaccine on outpatient medical care visits in the United States. Pediatrics. 2006 Sep;118(3):865-73. PMID: 16950975
12. Englund JA, Walter EB, Gbnadebo A, Monto AS, Zhu Y, Meuzio KM. Immunization with trivalent inactivated influenza vaccine in partially immunized toddlers. Pediatrics. 2006 Sep;118(3):e579-85.
13. Walter EB, Neuzil KM, Zhu Y, Fairchok MP, Gagliano ME, Monto AS, Englund JA. Influenza vaccine immunogenicity in 6- to 23-month-old children: are identical antigens necessary for priming? Pediatrics. 2006 Sep;118(3):e570-8.
14. Szilagyi GP, Griffin MR, Shone LP, Barth R, Zhu Y, Schaffer S, etc. The impact of conjugate pneumococcal vaccination on routine childhood vaccination and primary care use in 2 Counties. Pediatrics 2006 Oct;118(4):1394-402.

28. Noel F, Wright PF, Bois G, Deschamps MM, de Matteis P, Cassangnol R, Thimothee M,

 Celestin K, Vaz L, Bradshaw JA, Brignoli E, Zhu Y, Johnson WD, Fitzgerald D, Pape JW.

Contribution of bacterial sepsis to morbidity in infants born to HIV-infected Haitian mothers. J Acquir Immune Defic Syndr. 2006 Nov 1;43(3)313-9

29. Miller EK, Lu X, Erdman DD, Poehling KA, Zhu Y, Griffin MR, etc. Rhinovirus-associated

 hospitalizations in young children. J infect Dis. 2007 Mar 15; 195(6):773-81

30. Wright PF, Dealtly AM, Karron RA, Belshe RB, Shi JR, Gruber WC, Zhu Y, etc.

 Comparison of detection of rhinovirus by polymerase chain reaction and viral culture in

human nasal wash specimens from subjects with and without clinical symptoms of respiratory illness. J Clin Microbiol. 2007 May 2;

31. Lewis NE, Griffin MR, Szilagyi GP, Zhu Y, Edwards MK, Poehling AK. Childhood

influenza: number needed to vaccinate to prevent one hospitalization or an outpatient visit. Pediatrics. 2007 Sep;120(3):467-72.

32. Miller EK, Griffin MR, MD, Edwards MK, Weinberg AG, Szilagyi GP, Staat MA, Iwane

MK, Zhu Y, Poehling KA, etc. Influenza burden in children with asthma. Pediatrics. 2008 Jan;121(1):1-8.

33. Wright PF, Sannella E, Shi JR, Zhu Y, Ikizler MR, Edwards KM. Antibody responses after

 inactivated influenza vaccine in young children. Pediatr Infect Dis J. 2008

 Nov;27(11):1004-8. PMID: 18833023

34. Szilagyi PG, Fairbrother G, Griffin MR, Hornung RW, Donauer S, Morrow A, Altaye M,

 Zhu Y, etc. Influenza vaccine effectiveness among children 6 to 59 months of age during 2

 influenza seasons: a case-cohort study. Arch Pediatr Adolesc Med. 2008 Oct;162(10):943-51

 PMID: 18838647

35. Shinall MC Jr, Peters TR, Zhu Y, Chen Q, Poehling KA. Potential impact of acceleration of

 the pertussis vaccine primary series for infants. Pediatrics. 2008 Nov;122(5):1021-6.

 PMID: 18977982

36. Noel F, Mehta S, Zhu Y, Rouzier Pde M, Marcelin A, Shi JR, Nolte C, Severe L, Deschamps

 MM, Fitzgerald DW, Johnson WD, Wright PF, Pape JW. Improving outcomes in infants of

 HIV-infected women in a developing country setting. PLoS One. 2008;3(11):e3723. Epub

 2008 Nov 14. PMID: 19009021

37. Miller EK, Edwards KM, Weinberg AG, Iwane MK, Griffin MR, Zhu Y, Szilagyi PG, etc. A

 novel group of rhinoviruses is associated with asthma hospitalizations. J Allergy Clin

 Immunol. 2009 Jan;123(1):98-104.e1. Epub 2008 Nov 22. PMID: 19027147

38. Hall CB, Weinberg GA, Iwane MK, Blumkin AK, Edwards KM, Staat MA, Auinger P,

 Griffin MR, Poehling KA, Erdman D, Grijalva CG, Zhu Y, Szilagyi P. The burden of

 respiratory syncytial virus infection in young children. N Engl J Med. 2009 Feb

 5;360(6):588-98. PMCID: PMC4829966

39. Talbot HK, Crowe JE Jr, Edwards KM, Griffin MR, Zhu Y, Weinberg GA, etc. Coronavirus

 infection and hospitalizations for acute respiratory illness in young children. J Med Virol.

 2009 May;81(5):853-6. PMID: 19319948

40. Deschamps MM, Noel F, Bonhomme J, Dévieux JG, Saint-Jean G, Zhu Y, Wright P, Pape

 JW, Malow RM. Prevention of mother-to-child transmission of HIV in Haiti. Rev Panam

 Salud Publica. 2009 Jan;25(1):24-30. PMID: 19341520

41. Talbot HK, Poehling KA, Williams JV, Zhu Y, Chen Q, McNabb P, Edwards KM, Griffin

 MR. Influenza in older adults: impact of vaccination of school children. Vaccine. 2009 Mar

 18;27(13):1923-7. Epub 2009 Jan 31. PMID: 19368772

42. Grijalva CG, Zhu Y, Griffin MR. Evidence of effectiveness from a large county-wide

 school-based influenza immunization campaign. Vaccine. 2009 May 5;27(20):2633-6. Epub

 2009 Feb 24. PMID: 19428871

43. Poehling KA, Talbot HK, Williams JV, Zhu Y, Lott J, Patterson L, Edwards KM, Griffin

 MR. Impact of a school-based influenza immunization program on disease burden:

 comparison of two Tennessee counties. Vaccine. 2009 May 5;27(20):2695-700. Epub 2009

 Feb 24. PMID: 19428881

44. Grijalva CG, Nuorti JP, Zhu Y, Griffin MR. Increasing incidence of empyema complicating

 childhood community-acquired pneumonia in the United Sates. Clin Infect Dis. 2010 Mar 15:

 50(6):805-13. PMCID: PMC4696869

45. Poehling KA, Fairbrother G, Zhu Y, Edwards KM, Szilagyi PG, etc. Practice and child

characteristics associated with influenza vaccine uptake in young children. Pediantrics. 2010 Sep. 6 126(4):665-73). PMID: 20819893

46. Williams JV, Edwards KM, Weinberg GA, Griffin MR, Hall CB, Zhu Y, Szilagyi PG, Wang

CK, Yang CF, Silva D, Ye D, Spaete RR, Crowe JE Jr. [Population-based incidence of human metapneumovirus infection among hospitalized children.](http://www.ncbi.nlm.nih.gov/pubmed/20446850) J Infect Dis. 2010 Jun 15;201 (12): 1890-8.PMID: 20446850

47. Walter EB, Rajagopal S, Zhu Y, Neuzil KM, Fairchok MP, Englund JA. [Trivalent inactivated influenza vaccine (TIV) immunogenicity in children 6 through 23 months of age: do children of all ages respond equally?](http://www.ncbi.nlm.nih.gov/pubmed/20447477) Vaccine. 2010 Jun 17;28(27):4376-83. Epub 2010 May 4.PMID: 20447477

48. Talbot HK, Williams JV, Zhu Y, Poehling KA, Griffin MR, Edwards KM. Failure of

routine diagnostic methods to detect influenza in hospitalized older adults.

Infect Control Hosp Epidemiol. 2010 Jul;31(7):683-8.PMID: 20470035

49. Grijalva CG, Zhu Y, Simonsen L, Griffin MR. [Establishing the baseline burden of influenza in preparation for the evaluation of a countywide school-based influenza vaccination campaign.](http://www.ncbi.nlm.nih.gov/pubmed/21050905) Vaccine. 2010 Dec 10;29(1):123-9. Epub 2010 Nov 2.PMID: 21050905

50. Mestecky J, Wright PF, Lopalco L, Staats HF, Kozlowski PA, Moldoveanu Z, Alexander RC, Kulhavy R, Pastori C, Maboko L, Riedner G, Zhu Y, Wrinn T, Hoelscher M. [Scarcity or Absence of Humoral Immune Responses in the Plasma and Cervicovaginal Lavage Fluids of Heavily HIV-1-Exposed But Persistently Seronegative Women.](http://www.ncbi.nlm.nih.gov/pubmed/21091128) AIDS Res Hum Retroviruses. 2010 Nov 22. PMID: 21091128

51. Grijalva CG, Zhu Y, Simonsen L, Mitchel E, Griffin MR. [The population impact of a large school-based influenza vaccination campaign.](http://www.ncbi.nlm.nih.gov/pubmed/21209872) PLoS One. 2010 Nov 30;5(11). PMID: 21209872

52. Talbot HK, Griffin MR, Chen Q, Zhu Y, Williams JV, Edwards KM. [Effectiveness of seasonal vaccine in preventing confirmed influenza-associated hospitalizations in community dwelling older adults.](http://www.ncbi.nlm.nih.gov/pubmed/21220776) J Infect Dis. 2011 Feb;203(4):500-8. Epub 2011 Jan 10.PMID: 21220776

53. [Rioth M](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Rioth%20M%22%5BAuthor%5D), [Beauharnais CA](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Beauharnais%20CA%22%5BAuthor%5D), [Noel F](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Noel%20F%22%5BAuthor%5D), [Ikizler MR](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Ikizler%20MR%22%5BAuthor%5D), [Mehta S](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Mehta%20S%22%5BAuthor%5D), [Zhu Y](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Zhu%20Y%22%5BAuthor%5D), [Long CA](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Long%20CA%22%5BAuthor%5D), [Pape JW](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Pape%20JW%22%5BAuthor%5D), [Wright PF](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Wright%20PF%22%5BAuthor%5D). Serologic imprint of dengue virus in urban Haiti: characterization of humoral immunity to dengue in infants and young children. Am J Trop Med Hyg. 2011 Apr; 84(4):630-6. PMID: 21460022

54. Morgan TM, Schlegel C, Edwards KM, Welch-Burke T, Zhu Y, Sparks R. Vaccines are not associated with metabolic events in children with urea cycle disorders. Pediatrics 2011 May; 127(5) e1147-53. PMID: 21482610

55. Grijalva CG, Zhu Y, Pekka Nuorti, Griffin MR. Emergence of parapneumonic empyema in the USA. Thorax 2011 Aug; 66(8):663-8. PMID: 21617169

56. [Iwane MK](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Iwane%20MK%22%5BAuthor%5D), [Prill MM](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Prill%20MM%22%5BAuthor%5D), [Lu X](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Lu%20X%22%5BAuthor%5D), [Miller EK](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Miller%20EK%22%5BAuthor%5D), [Edwards KM](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Edwards%20KM%22%5BAuthor%5D), [Hall CB](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Hall%20CB%22%5BAuthor%5D), [Griffin MR](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Griffin%20MR%22%5BAuthor%5D), [Staat MA](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Staat%20MA%22%5BAuthor%5D), [Anderson LJ](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Anderson%20LJ%22%5BAuthor%5D), [Williams JV](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Williams%20JV%22%5BAuthor%5D), [Weinberg GA](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Weinberg%20GA%22%5BAuthor%5D), [Ali A](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Ali%20A%22%5BAuthor%5D), [Szilagyi PG](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Szilagyi%20PG%22%5BAuthor%5D), [Zhu Y](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Zhu%20Y%22%5BAuthor%5D), [Erdman DD](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Erdman%20DD%22%5BAuthor%5D). Human Rhinovirus Species Associated With Hospitalizations for Acute Respiratory Illness in Young US Children. [J Infect Dis.](http://www.ncbi.nlm.nih.gov/pubmed/22013207) 2011 Dec;204(11):1702-10. PMID: 22013207

57. [Brown C](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Brown%20C%22%5BAuthor%5D), [Clayton-Boswell H](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Clayton-Boswell%20H%22%5BAuthor%5D), [Chaves SS](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Chaves%20SS%22%5BAuthor%5D), [Prill MM](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Prill%20MM%22%5BAuthor%5D), [Iwane MK](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Iwane%20MK%22%5BAuthor%5D), [Szilagyi PG](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Szilagyi%20PG%22%5BAuthor%5D), [Edwards KM](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Edwards%20KM%22%5BAuthor%5D), [Staat MA](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Staat%20MA%22%5BAuthor%5D), [Weinberg GA](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Weinberg%20GA%22%5BAuthor%5D), [Fairbrother G](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Fairbrother%20G%22%5BAuthor%5D), [Hall CB](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Hall%20CB%22%5BAuthor%5D), [Zhu Y](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Zhu%20Y%22%5BAuthor%5D), [Bridges CB](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Bridges%20CB%22%5BAuthor%5D); [for the New Vaccine Surveillance Network (NVSN)](http://www.ncbi.nlm.nih.gov/pubmed?term=%22for%20the%20New%20Vaccine%20Surveillance%20Network%20%28NVSN%29%22%5BCorporate%20Author%5D). Validity of parental report of influenza vaccination in young children seeking medical care. [Vaccine.](http://www.ncbi.nlm.nih.gov/pubmed/22015394) 2011 Nov 28;29(51):9488-9492. PMID: 22015394

58. Jules A, Grijalva CG, Zhu Y, Talbot KH, Williams JV, Dupont WD, Edwards KM, Schaffner W, Shay DK, Griffin MR. [Estimating age-specific influenza-related hospitalization rates during the pandemic (H1N1) 2009 in Davidson Co, TN.](http://www.ncbi.nlm.nih.gov/pubmed/22360812) Influenza Other Respi Viruses. 2012 May; 6(3) Epub 2012 Feb 23. PMID: 22360812

59. Self WH, Grijalva CG, Zhu Y, Talbot HK, Jules A, Widmer KE, Edwards KM, Williams JV, Shay DK, Griffin MR. [Emergency Department Visits for Influenza A(H1N1)pdm09, Davidson County, Tennessee, USA.](http://www.ncbi.nlm.nih.gov/pubmed/22516043) Emerg Infect Dis. 2012 May;18(5):863-5. PMID:22516043

60. Widmer K, Zhu Y, Williams JV, Griffin MR, Edwards KM, Talbot HK. [Rates of Hospitalizations for Respiratory Syncytial Virus, Human Metapneumovirus, and Influenza Virus in Older Adults.](http://www.ncbi.nlm.nih.gov/pubmed/22529314) J Infect Dis. 2012 May 9. PMID: 22529314

61. Carroll KN, Griffin MR, Edwards KM, Ali A, Zhu Y, Iwane MK, Szilagyi PG, Staat MA, Stevens TP, Hall CB, Williams JV, Hartert TV. [Adherence to guidelines for respiratory syncytial virus immunoprophylaxis among infants with prematurity or chronic lung disease in three United States counties.](http://www.ncbi.nlm.nih.gov/pubmed/22760537) Pediatr Infect Dis J. 2012 Nov;31(11) PMID:22760537

62. Self WH, McNaughton CD, Grijalva CG, Zhu Y, Chappell JD, Williams JV, Talbot HK, Shay DK, Griffin MR. Diagnostic performance of the BinaxNow Influenza A&B rapid antigen test in ED patients Am J Emerg Med. 2012 Jul 13. PMID: 22795995

 63. Poehling KA, Edwards KM, Griffin MR, Szilagyi PG, Staat MA, Iwane MK, Snively BM, Suerken CK, Hall CB, Weinberg GA, Chaves SS, Zhu Y, McNeal MM, Bridges CB. The Burden of Influenza in Young Children, 2004-2009. Pediatrics. 2013 Jan 6. PMID:23296444

64. Edwards KM, Zhu Y, Griffin MR, Weinberg GA, Hall CB, Szilagyi PG, Staat MA, Iwane M, Prill MM, Williams JV; New Vaccine Surveillance Network. [Burden of human metapneumovirus infection in young children.](http://www.ncbi.nlm.nih.gov/pubmed/23406028) N Engl J Med. 2013 Feb 14;368(7):633-43. PMID: 23406028

65. Talbot HK, Zhu Y, Chen Q, Williams JV, Thompson MG, Griffin MR. Effectiveness of influenza vaccine for preventing laboratory-confirmed influenza hospitalizations in adults, 2011-2012 Influenza Season. Clin Infect Dis. 2013 Apr 1. PMID: 23449269

66. Sundaram ME, Talbot HK, Zhu Y, Griffin MR, Spencer S, Shay DK, Coleman LA. Vitamin D is not associated with serologic response to influenza vaccine in adults over 50 years old Vaccine. 2013 Apr 12;31(16):2057-61. PMID: 23453766

67. Griffin MR, Zhu Y, Moore MR, Whitney CG, Grijalva CG. [U.S. hospitalizations for pneumonia after a decade of pneumococcal vaccination](http://www.ncbi.nlm.nih.gov/pubmed/23841730). N Engl J Med. 2013 Jul 11;369(2):155-63. PMCID: PMC4877190

68. Hall CB, Weinberg GA, Blumkin AK, Edwards KM, Staat MA, Schultz AF, Poehling KA, Szilagyi PG, Griffin MR, Williams JV, Zhu Y, Grijalva CG, Prill MM, Iwane MK. [Respiratory syncytial virus-associated hospitalizations among children less than 24 months of age.](http://www.ncbi.nlm.nih.gov/pubmed/23878043) Pediatrics. 2013 Aug;132(2):e341-8. PMID: 23878043

69. Self WH, Grijalva CG, Zhu Y, McNaughton CD, Barrett TW, Collins SP, Storrow AB, Griffin MR. [Rates of emergency department visits due to pneumonia in the United States, July 2006-June 2009.](http://www.ncbi.nlm.nih.gov/pubmed/24033659) Acad Emerg Med. 2013 Sep;20(9):957-60. PMID: 24033659

70. Self WH, Griffin MR, Zhu Y, Dupont WD, Barrett TW, Grijalva CG. [The high burden of pneumonia on US emergency departments during the 2009 influenza pandemic.](http://www.ncbi.nlm.nih.gov/pubmed/24140066) J Infect. 2014 Feb;68(2):156-64. PMID: 24140066

72. Widmer K, Griffin MR, Zhu Y, Williams JV, Talbot HK. [Respiratory syncytial virus- and human metapneumovirus-associated emergency department and hospital burden in adults.](http://www.ncbi.nlm.nih.gov/pubmed/24512531) Influenza Other Respir Viruses. 2014 Feb 7. PMID: 24512531

73. Budge PJ, Griffin MR, Edwards KM, Williams JV, Verastegui H, Hartinger SM, Mäusezahl D, Johnson M, Klemenc JM, Zhu Y, Gil AI, Lanata CF, Grigalva CG; RESPIRA PERU Group. [Impact of Home Environment Interventions on the Risk of Influenza-Associated ARI in Andean Children: Observations from a Prospective Household-Based Cohort Study.](http://www.ncbi.nlm.nih.gov/pubmed/24622044) PLoS One. 2014 Mar 12;9(3). PMID: 24622044

71. Budge PJ, Griffin MR, Edwards KM, Williams JV, Verastegui H, Hartinger SM, Johnson M, Klemenc JM, Zhu Y, Gil AI, Lanata CF, Grijalva CG; for the RESPIRA-PERU Group. [A Household-Based Study of Acute Viral Respiratory Illnesses in Andean Children.](http://www.ncbi.nlm.nih.gov/pubmed/24378948) Pediatr Infect Dis J. 2014 May; 33(5) 443-7. PMID: 24378948

72. Chen Q, Griffin MR, Nian H, Zhu Y, Williams JV, Edwards KM, Talbot HK. [Influenza vaccine prevents medically attended influenza-associated acute respiratory illness in adults aged ≥50 years.](http://www.ncbi.nlm.nih.gov/pubmed/25336724) J Infect Dis. 2015 Apr 1;211(7):1045-50. PMID:25336724; PMCID: 4432432.

73. Ward MJ, Kripalani S, Zhu Y, Storrow AB, Dittus RS, Harrell FE Jr, Self WH. [Incidence of emergency department visits for ST-elevation myocardial infarction in a recent six-year period in the United States](http://www.ncbi.nlm.nih.gov/pubmed/25465931). Am J Cardiol. 2015 Jan 15;115(2):167-70. PMID:25465931

74. Jules A, Grijalva CG, Zhu Y, Talbot HK, Williams JV, Poehling KA, Chaves SS, Edwards KM, Schaffner W, Shay DK, Griffin MR. [Influenza-related hospitalization and ED visits in children less than 5 years: 2000-2011.](http://www.ncbi.nlm.nih.gov/pubmed/25489015) Pediatrics. 2015 Jan;135(1):e66-74. PMID:25489015; PMCID: PMC4279064.

75. Talbot HK, Nian H, Zhu Y, Chen Q, Williams JV, Griffin MR. [Clinical effectiveness of split-virion versus subunit trivalent influenza vaccines in older adults.](http://www.ncbi.nlm.nih.gov/pubmed/25697739) Clin Infect Dis. 2015 Apr 15;60(8):1170-5. PMID:25697739

76. Jain S, Williams DJ, Arnold SR, Ampofo K, Bramley AM, Reed C, Stockmann C, Anderson EJ, Grijalva CG, Self WH, Zhu Y, Patel A, Hymas W, Chappell JD, Kaufman RA, Kan JH, Dansie D, Lenny N, Hillyard DR, Haynes LM, Levine M, Lindstrom S, Winchell JM, Katz JM, Erdman D, Schneider E, Hicks LA, Wunderink RG, Edwards KM, Pavia AT, McCullers JA, Finelli L; CDC EPIC [Study](http://www.ncbi.nlm.nih.gov/pubmed/?term=zhu%2C+yuwei#89197609) Team. [Community-acquired pneumonia requiring hospitalization among U.S. children.](http://www.ncbi.nlm.nih.gov/pubmed/25714161) N Engl J Med. 2015 Feb 26;372(9):835-45. PMID:25714161

77. Van der Heijden YF, Heerman WJ, McFadden S, Zhu Y, Patterson BL. [Missed opportunities for tuberculosis screening in primary care.](http://www.ncbi.nlm.nih.gov/pubmed/25720366) J Pediatr. 2015 May;166(5):1240-1245.e1. PMID:25720366

78. Lindegren ML, Griffin MR, Williams JV, Edwards KM, Zhu Y, Mitchel E, Fry AM, Schaffner W, Talbot HK. [Antiviral treatment among older adults hospitalized with influenza, 2006-2012.](http://www.ncbi.nlm.nih.gov/pubmed/25807314) PLoS One. 2015 Mar 25;10(3). PMID:25807314

79. Talbot HK, Coleman LA, Zhu Y, Spencer S, Thompson M, Cheng PY, Sundaram ME, Belongia EA, Griffin MR. [Factors associated with maintenance of antibody responses to influenza vaccine in older, community-dwelling adults.](http://www.ncbi.nlm.nih.gov/pubmed/25903659) BMC Infect Dis. 2015 Apr 23;15:195. PMID:25903659; PMCID: PMC4415221.

80. Wolf RB, Edwards K, Grijalva CG, Self WH, Zhu Y, Chappell J, Bramley AM, Jain S, Williams DJ. [Time to clinical stability among children hospitalized with pneumonia.](http://www.ncbi.nlm.nih.gov/pubmed/25919391) J Hosp Med. 2015 Jun;10(6):380-3. PMID: 25919391

81. Wu A, Budge PJ, Williams J, Griffin MR, Edwards KM, Johnson M, Zhu Y, Hartinger S, Verastegui H, Gil AI, Lanata CF, Grijalva CG. [Incidence and Risk Factors for Respiratory Syncytial Virus and Human Metapneumovirus Infections among Children in the Remote Highlands of Peru.](http://www.ncbi.nlm.nih.gov/pubmed/26107630) PLoS One. 2015 Jun 24;10(6). PMID: 26107630

82. Jain S, Self WH, Wunderink RG, Fakhran S, Balk R, Bramley AM, Reed C, Grijalva CG,

Anderson EJ, Courtney DM, Chappell JD, Qi C, Hart EM, Carroll F, Trabue C, Donnelly HK, Williams DJ, Zhu Y, Arnold SR, Ampofo K, Waterer GW, Levine M, Lindstrom S, Winchell JM, Katz JM, Erdman D, Schneider E, Hicks LA, McCullers JA, Pavia AT, Edwards KM, Finelli L; CDC EPIC Study Team. [Community-Acquired Pneumonia Requiring Hospitalization among U.S. Adults](http://www.ncbi.nlm.nih.gov/pubmed/26172429). N Engl J Med. 2015 Jul 30;373(5):415-27. PMCID: PMC4697461

83. Self WH, Williams DJ, Zhu Y, Ampofo K, Pavia AT, Chappell JD, Hymas WC, Stockmann C, Bramley AM, Schneider E, Erdman D, Finelli L, Jain S, Edwards KM, Grijalva CG. [Respiratory Viral Detection in Children and Adults: Comparing Asymptomatic Controls and Patients With Community-Acquired Pneumonia](http://www.ncbi.nlm.nih.gov/pubmed/26180044). J Infect Dis. 2015 Jul 14. PMC4721902

84. Ahn A, Edwards KM, Grijalva CG, Self WH, Zhu Y, Chappell JD, Arnold SR, McCullers JA, Ampofo K, Pavia AT, Bramley AM, Jain S, Williams DJ. [Secondhand Smoke Exposure and Illness Severity among Children Hospitalized with Pneumonia.](http://www.ncbi.nlm.nih.gov/pubmed/26231828) J Pediatr. 2015 Jul 28. pii: S0022-3476(15)00687-3. PMID:26231828

85. Williams DJ, Edwards KM, Self WH, Zhu Y, Ampofo K, [Pavia AT](http://www.ncbi.nlm.nih.gov/pubmed/?term=Pavia%20AT%5BAuthor%5D&cauthor=true&cauthor_uid=26101356), [Hersh AL](http://www.ncbi.nlm.nih.gov/pubmed/?term=Hersh%20AL%5BAuthor%5D&cauthor=true&cauthor_uid=26101356), [Arnold SR](http://www.ncbi.nlm.nih.gov/pubmed/?term=Arnold%20SR%5BAuthor%5D&cauthor=true&cauthor_uid=26101356),[McCullers JA](http://www.ncbi.nlm.nih.gov/pubmed/?term=McCullers%20JA%5BAuthor%5D&cauthor=true&cauthor_uid=26101356), [Hicks LA](http://www.ncbi.nlm.nih.gov/pubmed/?term=Hicks%20LA%5BAuthor%5D&cauthor=true&cauthor_uid=26101356), [Bramley AM](http://www.ncbi.nlm.nih.gov/pubmed/?term=Bramley%20AM%5BAuthor%5D&cauthor=true&cauthor_uid=26101356), [Jain S](http://www.ncbi.nlm.nih.gov/pubmed/?term=Jain%20S%5BAuthor%5D&cauthor=true&cauthor_uid=26101356), [Grijalva CG](http://www.ncbi.nlm.nih.gov/pubmed/?term=Grijalva%20CG%5BAuthor%5D&cauthor=true&cauthor_uid=26101356). Antibiotic Choice for Children Hospitalized With Pneumonia and Adherence to National Guidelines. [Pediatrics.](http://www.ncbi.nlm.nih.gov/pubmed/26101356) 2015 Jul;136(1):44-52. PMID: 26101356

86. Howard LM, Johnson M, Williams JV, Zhu Y, Gil AI, Edwards KM, Griffin MR, Lanata CF, Grijalva CG; RESPIRA-PERU Group. [Respiratory Viral Detections During Symptomatic and Asymptomatic Periods in Young Andean Children.](http://www.ncbi.nlm.nih.gov/pubmed/26121205) Pediatr Infect Dis J. 2015 Oct;34(10):1074-80. PMID: 26121205

87. Grijalva CG, Zhu Y, Williams DJ, Self WH, Ampofo K, Pavia AT, Stockmann CR, McCullers J, Arnold SR, Wunderink RG, Anderson EJ, Lindstrom S, Fry AM, Foppa IM, Finelli L, Bramley AM, Jain S, Griffin MR, Edwards KM. [Association Between Hospitalization With Community-Acquired Laboratory-Confirmed Influenza Pneumonia and Prior Receipt of Influenza Vaccination.](http://www.ncbi.nlm.nih.gov/pubmed/26436611) JAMA. 2015 Oct 13;314(14):1488-97. PMCID: PMC4688454

88. McNaughton CD, Self WH, Zhu Y, Janke AT, Storrow AB, Levy P. [Incidence of Hypertension-Related Emergency Department Visits in the United States, 2006 to 2012.](http://www.ncbi.nlm.nih.gov/pubmed/26454813) Am J Cardiol. 2015 Dec 1;116(11):1717-23. PMID: 26454813

89. Grijalva CG, Wunderink RG, Zhu Y, Williams DJ, Balk R, Fakhran S, Courtney DM, Anderson EJ, Qi C, Trabue C, Pavia AT, Moore MR, Jain S, Edwards KM, Self WH. [In-Hospital Pneumococcal Polysaccharide Vaccination Is Associated With Detection of Pneumococcal Vaccine Serotypes in Adults Hospitalized for Community-Acquired Pneumonia](http://www.ncbi.nlm.nih.gov/pubmed/26512357). Open Forum Infect Dis. 2015 Sep 19;2(4). Dec. PMID: 26512357

90. Talbot HK, Nian H, Chen Q, Zhu Y, Edwards KM, Griffin MR. Evaluating the case-positive, control test-negative study design for influenza vaccine effectiveness for the frailty bias. Vaccine. 2016 Apr 4;34(15):1806-9. PMCID: PMC4801768

91. Dare R, Zhu Y, Williams JV, Griffin M, Talbot HK. Detection of influenza by real time RT- PCR is not affected by delays in respiratory specimen processing. J Med Virol. 2016 Apr 18. PMID: 27089468

92. Self WH, Grijalva CG, Williams DJ, Woodworth A, Balk RA, Fakhran S, Zhu Y, Courtney DM, Chappell J, Anderson EJ, Qi C, Waterer GW, Trabue C, Bramley AM, Jain S, Edwards KM, Wunderink RG. [Procalcitonin as an Early Marker of the Need for Invasive Respiratory or Vasopressor Support in Adults with Community-Acquired Pneumonia.](http://www.ncbi.nlm.nih.gov/pubmed/27107491) Chest. 2016 Apr 20. pii: S0012-3692(16)48560-0. PMID: 27107491

93. Self WH, Wunderink RG, Williams DJ, Zhu Y, Anderson EJ, Balk RA, Fakhran SS, Chappell JD, Casimir G, Courtney DM, Trabue C, Waterer GW, Bramley A, Magill S, Jain S, Edwards KM, Grijalva CG. [Staphylococcus aureus Community-acquired Pneumonia: Prevalence, Clinical Characteristics, and Outcomes.](http://www.ncbi.nlm.nih.gov/pubmed/27161775) Clin Infect Dis. 2016 Aug 1;63(3):300-9. PMID: 27161775

94. Wiese AD, Grijalva CG, Zhu Y, Mitchel EF Jr, Griffin MR. [Changes in Childhood Pneumonia Hospitalizations by Race and Sex Associated with Pneumococcal Conjugate Vaccines.](http://www.ncbi.nlm.nih.gov/pubmed/27197048) Emerg Infect Dis. 2016 Jun;22(6). PMID: 27197048

95. Ward MJ, Kripalani S, Zhu Y, Storrow AB, Wang TJ, Speroff T, Munoz D, Dittus RS, Harrell FE Jr, Self WH. [Role of Health Insurance Status in Interfacility Transfers of Patients With ST-Elevation Myocardial Infarction.](http://www.ncbi.nlm.nih.gov/pubmed/27282834) Am J Cardiol. 2016 Aug 1;118(3):332-7. PMID: 27282834

96. Chen Q, Nian H, Zhu Y, Talbot HK, Griffin MR, Harrell FE Jr. [Too many covariates and too few cases? - a comparative study.](http://www.ncbi.nlm.nih.gov/pubmed/27357163) Stat Med. 2016 Jun 30. PMID: 27357163 PMCID: PMC5050102

97. Kim JH, Talbot HK, Mishina M, Zhu Y, Chen J, Cao W, Reber AJ, Griffin MR, Shay DK, Spencer SM, Sambhara S. High-dose influenza vaccine favors acute plasmablast responses rather than long-term cellular responses. Vaccine. 2016 Aug 31;34(38):4594-601. doi: 10.1016/j.vaccine.2016.07.018. PMID: 27473306

98. Williams DJ, Zhu Y, Grijalva CG, Self WH, Harrell FE Jr, Reed C, Stockmann C, Arnold SR, Ampofo KK, Anderson EJ, Bramley AM, Wunderink RG, McCullers JA, Pavia AT, Jain S, Edwards KM. [Predicting Severe Pneumonia Outcomes in Children.](https://www.ncbi.nlm.nih.gov/pubmed/27688362) Pediatrics. 2016 Oct;138(4). PMCID: PMC5051209

99. Fan RR, Howard LM, Griffin MR, Edwards KM, Zhu Y, Williams JV, Vidal JE, Klugman KP, Gil AI, Lanata CF, Grijalva CG. [Nasopharyngeal Pneumococcal Density and Evolution of Acute Respiratory Illnesses in Young Children, Peru, 2009-2011.](https://www.ncbi.nlm.nih.gov/pubmed/27767919) Emerg Infect Dis. 2016 Nov;22(11):1996-1999. PMID: 27767919

100. Zhang Y, Sakthivel SK, Bramley A, Jain S, Haynes A, Chappell JD, Hymas W, Lenny N, Patel A, Qi C, Ampofo K, Arnold SR, Self WH, Williams DJ, Hillyard D, Anderson EJ, Grijalva CG, Zhu Y, Wunderink RG, Edwards KM, Pavia AT, McCullers JA, Erdman DD. [Serology Enhances Molecular Diagnosis of Respiratory Virus Infections Other than Influenza in Children and Adults Hospitalized with Community-Acquired Pneumonia.](https://www.ncbi.nlm.nih.gov/pubmed/27795341) J Clin Microbiol. 2016 Dec 28;55(1):79-89. PMID: 27795341

101. Wiese AD, Griffin MR, Zhu Y, Mitchel EF Jr, Grijalva CG. [Changes in empyema among U.S. children in the pneumococcal conjugate vaccine era.](https://www.ncbi.nlm.nih.gov/pubmed/27832918) Vaccine. 2016 Dec 7;34(50):6243-6249. PMCID: PMC5552045

102. Zhao SR, Griffin MR, Patterson BL, Mace RL, Wyatt D, Zhu Y, Talbot HK. [Risk Factors for Outpatient Use of Antibiotics in Children with Acute Respiratory Illnesses.](https://www.ncbi.nlm.nih.gov/pubmed/28257541) South Med J. 2017 Mar;110(3):172-180. PMID: 28257541

103. Howard LM, Edwards KM, Zhu Y, Griffin MR, Weinberg GA, Szilagyi PG, Staat MA, Payne DC, Williams JV. [Clinical Features of Human Metapneumovirus Infection in Ambulatory Children Aged 5-13 Years.](https://www.ncbi.nlm.nih.gov/pubmed/28369564) J Pediatric Infect Dis Soc. 2017 Mar 24. PMID: 28369564

104. Self WH, Balk RA, Grijalva CG, Williams DJ, Zhu Y, Anderson EJ, Waterer GW, Courtney DM, Bramley AM, Trabue C, Fakhran S, Blaschke AJ, Jain S, Edwards KM, Wunderink RG. [Procalcitonin as a Marker of Etiology in Adults Hospitalized with Community-Acquired Pneumonia.](https://www.ncbi.nlm.nih.gov/pubmed/28407054) Clin Infect Dis. 2017 Apr 12. PMID: 28407054

105. Oboho IK, Bramley A, Finelli L, Fry A, Ampofo K, Arnold SR, Self WH, Williams DJ, Courtney DM, Zhu Y, Anderson EJ, Grijalva CG, McCullers JA, Wunderink RG, Pavia AT, Edwards KM, Jain S. [Oseltamivir Use Among Children and Adults Hospitalized With Community-Acquired Pneumonia.](https://www.ncbi.nlm.nih.gov/pubmed/28480248) Open Forum Infect Dis. 2016 Dec 27;4(1):ofw254. PMID: 28480248

106. Nesmith N, Williams JV, Johnson M, Zhu Y, Griffin M, Talbot HK. [Sensitive diagnostics confirm that influenza C is an uncommon cause of medically attended respiratory illness in adults.](https://www.ncbi.nlm.nih.gov/pubmed/28541414) Clin Infect Dis. 2017 May 25. PMID: 28541414

107. Upchurch CP, Grijalva CG, Wunderink RG, Williams DJ, Waterer GW, Anderson EJ, Zhu Y, Hart EM, Carroll F, Bramley AM, Jain S, Edwards KM, Self WH. [Community-Acquired Pneumonia Visualized on CT Scans but Not Chest Radiographs: Pathogens, Severity, and Clinical Outcomes.](https://www.ncbi.nlm.nih.gov/pubmed/28802696) Chest. 2017 Aug 9. PMID: 28802696

108. Hilmes MA, Daniel Dunnavant F, Singh SP, Ellis WD, Payne DC, Zhu Y, Griffin MR, Edwards KM, Williams JV. [Chest radiographic features of human metapneumovirus infection in pediatric patients.](https://www.ncbi.nlm.nih.gov/pubmed/28831577) Pediatr Radiol. 2017 Aug 22. PMID: 28831577

109. Howard LM, Fan R, Zhu Y, Griffin MR, Edwards KM, Hartinger S, Williams JV, Vidal JE, Klugman KP, Gil AI, Lanata CF, Grijalva CG. [Nasopharyngeal Pneumococcal Density Is Associated With Viral Activity but Not With Use of Improved Stoves Among Young Andean Children.](https://www.ncbi.nlm.nih.gov/pubmed/28929126) Open Forum Infect Dis. 2017 Aug 2;4(3) PMID: 28929126

110. Williams DJ, Edwards KM, Self WH, Zhu Y, Arnold SR, McCullers JA, Ampofo K, Pavia AT,

Anderson EJ, Hicks LA, Bramley AM, Jain S, Grijalva CG. [Effectiveness of β-Lactam Monotherapy vs Macrolide Combination Therapy for Children Hospitalized With Pneumonia](https://www.ncbi.nlm.nih.gov/pubmed/29084336) JAMA Pediatr. 2017 Dec 1;171(12):1184-1191. PMID: 29084336

111. Foxx AM, Zhu Y, Mitchel E, Nikpay S, Khabele D, Griffin MR. [Cervical Cancer Screening and Follow-Up Procedures in Women Age <21 Years Following New Screening Guidelines.](https://www.ncbi.nlm.nih.gov/pubmed/29174874) J Adolesc Health. 2018 Feb;62(2):170-175. PMID: 29174874

112. Hartman L, Zhu Y, Edwards KM, Griffin MR, Talbot HK. [Underdiagnosis of influenza virus infection in hospitalized older adults.](https://www.ncbi.nlm.nih.gov/pubmed/29341100) J Am Geriatr Soc. 2018 Jan 17. PMID: 29341100

113. Wunderink RG, Self WH, Anderson EJ, Balk R, Fakhran S, Courtney DM, Qi C, Williams DJ, Zhu Y, Whitney CG, Moore MR, Bramley A, Jain S, Edwards KM, Grijalva CG. [Pneumococcal Community-Acquired Pneumonia Detected by Serotype-Specific Urinary Antigen Detection Assays.](https://www.ncbi.nlm.nih.gov/pubmed/29342250) Clin Infect Dis. 2018 Jan 12. PMID: 29342250

114. Girard TD, Self WH, Edwards KM, Grijalva CG, Zhu Y, Williams DJ, Jain S, Jackson JC. [Long-Term Cognitive Impairment after Hospitalization for Community-Acquired Pneumonia: a Prospective Cohort Study.](https://www.ncbi.nlm.nih.gov/pubmed/29374359) J Gen Intern Med. 2018 Jan 26. PMID: 29374359

**PRESENTATION**

8/4/2010 JSM [Estimation of Odds Ratio with Rare Event Case: A Simulation Study Based on Hospitalized Flu Vaccine Study](https://www.amstat.org/meetings/jsm/2010/onlineprogram/index.cfm?fuseaction=abstract_details&abstractid=308183)