

Curriculum Vitae

First Name: Angel.
Middle Name: José.
Last Name: Paternina Caicedo.
Country of Birth: Colombia.
Date of Birth: January 29th, 1985.

Home

Address: 336 N. Craig St., Apt 3, 15213.
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Work

Address: 130 De Soto Street. A717 Crabtree Hall.
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Undergraduate Degree

Medical Doctor (M.D.). Universidad de Cartagena. Cartagena, Colombia. (2008).

Graduate Degree

M.Sc. in Clinical Epidemiology. Universidad Nacional de Colombia. Bogotá, Colombia. (2013).

Post-Doctorate

Postdoctoral Associate. University of Pittsburgh, Pittsburgh, PA, United States. (2016 – Present).

Professional Experience

(mmm-yy)

- Apr-14 – Aug-16. Hospital Infantil Napoleón Franco Pareja -La Casa del Niño. Cartagena, Colombia.
Responsibilities: To aid institutional decision making, and to design and carry out epidemiological research within the institution.
- Jul-13 – Dec-13. Pan American Health Organization/World Health Organization (PAHO/WHO), through a research contract with Universidad de Cartagena. Cartagena, Colombia.
Responsibilities: Coordinate research activities of a PAHO's ProVac Center of Excellence.
- Jan-12 – Dec-12. Universidad de Cartagena, Grupo de Investigación en Cuidados Intensivos y Obstetricia –GRICIO. Cartagena, Colombia.
Responsibilities: Assistant epidemiologist of the research project "Incidence of respiratory failure in a cohort of critically-ill Colombian women."
- Jan-11 – Dec-12. Universidad de Cartagena, Grupo de Investigación Salud de la Mujer. Cartagena, Colombia.
Responsibilities: Epidemiologic analysis of Quality of life data of 4000+ menopausal women in Colombia (*CAVIMEC* study).
- Jan-11 – Dec-11. Pan American Health Organization/World Health Organization (PAHO/WHO), through a research contract with Universidad de Cartagena. Cartagena, Colombia.
Responsibilities: Coordinate research activities of a ProVac Center of Excellence.
- Oct-09 – Mar-10. Universidad Nacional de Colombia, Grupo de Investigación en Epidemiología y Evaluación en Salud Pública. Cartagena, Colombia.
Responsibilities: Researcher of the projects entitled "Cost-effectiveness of mass varicella vaccination in Colombian children," "Cost-effectiveness of mass pertussis vaccination in Colombian adolescents," and "Cost-effectiveness of tetanus vaccination in Colombian adults."

Awards

(mmm-yy)

- Jun-14. SMDM Travel Grant.
Organization: Society for Medical Decision Making (SMDM).
Conference name: 36th Annual North American Meeting.
Miami, FL, United States, October 18-22, 2014.
- Sep-13. NASOM Travel Award
Organization: North American Society of Obstetric Medicine (NASOM).
Conference name: NASOM 2013 Annual Meeting
Providence, RI, USA, September 20-21, 2013.
- Jun-12. SMDM Travel Grant.
Organization: Society for Medical Decision Making (SMDM).
Conference name: Biennial SMDM 2012 European Meeting.
Oslo, Norway, June 10-12, 2012.
- Jun-12. ISPOR Student Travel Grant.
Organization: International Society for Pharmacoeconomics and Outcomes Research (ISPOR).
Conference name: ISPOR 17th Annual International Meeting. Washington, DC, USA, June 2-6, 2012.
- Aug-11. Concurso Nacional sobre Maternidad Segura (Safe Motherhood Initiative) – 3rd place.
Organization: Pan American Health Organization/AMRO-World Health Organization, Colombia (PAHO/AMRO-WHO Colombia). Bogota, Colombia.

Funding

(mmm-yy)

- Dec-17 – Jul-19. Name: “Development of the definition of Severe Maternal Morbidity in obstetric patients of Latin America and the Caribbean: A prospective study of the CLAP Network for Adverse Maternal Outcomes (CLAP-NAMOs).”
Role: Co-investigator.
Institution: Universidad de Cartagena (Cartagena, Colombia) and Pan American Health Organization (Washington D.C., United States).
Funding: Pan American Health Organization (Washington D.C., United States).
- Dec-15 – Dec-17. Name: “Estimation of the predicted capacity of general models of severity in critically ill obstetric patients (MPM-II, MPM-III, SAPS 2, and SAPS 3): A national multicenter study.”
Role: Co-investigator.
Institution: Universidad de Cartagena (Cartagena, Colombia).
Funding: COLCIENCIAS (Bogota, Colombia).
Amount: USD\$50,000.

Research Projects

(mmm-yy)

- Jan-16 – Jun-19. Prediction of adverse outcomes in severely-ill obstetrics patients.
Institution: Universidad de Cartagena (Cartagena, Colombia) and Pan American Health Organization (Washington D.C., United States).
Funding: COLCIENCIAS (Bogota, Colombia).
- Nov-17 – Jun-18. Dengue dynamics in selected countries of Latin America.
Institution: University of Pittsburgh (Pittsburgh, PA, United States).
Funding: Bill & Melinda Gates Foundation.
- Jun-16 – Jan-18. Epidemiologic and economic impact of vaccination on mortality in the United States.
Institution: University of Pittsburgh, (Pittsburgh, PA, United States).

Funding: National Institute of Health, United States.

Jan-17 – Dec-17. Impact of rotavirus vaccination on deaths in countries with vaccine introduction.
Institution: University of Pittsburgh, (Pittsburgh, PA, United States).
Funding: Bill & Melinda Gates Foundation.

Software and Programming Languages

- Microsoft Office (Word, Excel, PowerPoint, Access).
- Open-Source Web Content Management Systems (WordPress).
- Programming languages (R, PHP, HTML, CSS).
- Reference Management Systems (EndNote, Mendeley, Papers).
- Statistical software (R, RStudio, Stata).

Publications as First Author

1. **Paternina-Caicedo A**, De la Hoz-Restrepo F, Díaz-Quijano F, Caicedo-Torres W, Auxiliadora Badillo-Viloria M, Bula-Anichiarico D, et al. Features of Dengue and Chikungunya Infections of Colombian Children under 24 Months of Age Admitted to the Emergency Department. *Journal of Tropical Pediatrics*. 2017; Apr 21. doi: 10.1093/tropej/fmx024.
2. **Paternina-Caicedo A**, Miranda J, Bourjeily G, Levinson A, Dueñas C, Bello-Muñoz C, et al. Performance of the Obstetric Early Warning Score in critically ill patients for the prediction of maternal death. *American journal of obstetrics and gynecology*. 2017;216(1):58.
3. **Paternina-Caicedo AJ**, Rojas-Suarez JA, Dueñas-Castel C, Miranda-Quintero JE, Bourjeily G. Mortality risk prediction with an updated Acute Physiology and Chronic Health Evaluation II score in critically ill obstetric patients: a cohort study. *Journal of intensive care medicine*. 2015;30(2):97-102.
4. **Paternina-Caicedo A**, Parashar UD, Alvis-Guzmán N, De Oliveira LH, Castaño-Zuluaga A, Cotes-Cantillo K, et al. Effect of rotavirus vaccine on childhood diarrhea mortality in five Latin American countries. *Vaccine*. 2015;33(32):3923-8.
5. **Paternina-Caicedo A**, De la Hoz-Restrepo F, Alvis-Guzmán N. Epidemiological and economic impact of monovalent and pentavalent rotavirus vaccines in low and middle income countries: a cost-effectiveness modeling analysis. *The Pediatric infectious disease journal*. 2015;34(7):e176-e84.
6. **Paternina-Caicedo A**, De la Hoz-Restrepo F, Gamboa-Garay O, Castañeda-Orjuela C, Velandia-González M, Alvis-Guzmán N. How cost effective is universal varicella vaccination in developing countries? A case-study from Colombia. *Vaccine*. 2013;31(2):402-9.
7. **Paternina-Caicedo AJ**, Alcalá-Cerra G, Paillier-Gonzales J, Romero-Zarante AM, Alvis-Guzmán N. [Agreement between three definitions of metabolic syndrome in hypertensive patients]. *Revista de Salud Pública*. 2009;11(6):898-908. [Spanish]

Publications as Co-author (English)

1. Dieleman JL, Campbell M, Chapin A, Eldrenkamp E, Fan VY, Haakenstad A, et al. Future and potential spending on health 2015-40. *Lancet* 2017; 389: 2005–30.
2. Wang H, Bhutta ZA, Coates MM, Coggeshall M, Dandona L, Diallo K, et al. Global, regional, national, and selected subnational levels of stillbirths, neonatal, infant, and under-5 mortality, 1980-2015: a systematic analysis for the Global Burden of Disease Study 2015. *The Lancet*. 2016;388(10053):1725.
3. Vos T, Allen C, Arora M, Barber RM, Bhutta ZA, Brown A, et al. Global, regional, and national incidence, prevalence, and years lived with disability for 310 diseases and injuries, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. *The Lancet*. 2016;388(10053):1545.
4. Pinzón-Redondo H, **Paternina-Caicedo A**, Barrios-Redondo K, Zarate-Vergara A, Tirado-Pérez I, Fortich R, et al. Risk Factors for Severity of Chikungunya in Children. *The Pediatric infectious disease journal*. 2016;35(6):702-4.
5. Lim SS, Fullman N, Murray CJ, Mason-Jones AJ. Measuring the health-related Sustainable Development Goals in 188 countries: a baseline analysis from the Global Burden of Disease Study 2015. *The Lancet*. 2016:1-38.

6. Kyu HH, Pinho C, Wagner JA, Brown JC, Bertozzi-Villa A, Charlson FJ, et al. Global and national burden of diseases and injuries among children and adolescents between 1990 and 2013: findings from the Global Burden of Disease 2013 Study. *JAMA pediatrics*. 2016;170(3):267-87.
7. Kassebaum NJ, Barber RM, Bhutta ZA, Dandona L, Gething PW, Hay SI, et al. Global, regional, and national levels of maternal mortality, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. *The Lancet*. 2016;388(10053):1775.
8. Forouzanfar MH, Afshin A, Alexander LT, Anderson HR, Bhutta ZA, Biryukov S, et al. Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. *The Lancet*. 2016;388(10053):1659.
9. Feigin V. Global, regional, and national life expectancy, all-cause mortality, and cause-specific mortality for 249 causes of death, 1980-2015: a systematic analysis for the Global Burden of Disease Study 2015. *The Lancet*. 2016;388(10053):1459-544.
10. Alcalá-Cerra G, **Paternina-Caicedo A**, Díaz-Becerra C, Moscote-Salazar L, Gutiérrez-Paternina J, Niño-Hernández L. External lumbar cerebrospinal fluid drainage in patients with aneurysmal subarachnoid haemorrhage: A systematic review and meta-analysis of controlled trials. *Neurología (English Edition)*. 2016;31(7):431-44.
11. Vos T, Barber RM, Bell B, Bertozzi-Villa A, Biryukov S, Bolliger I, et al. Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*. 2015;386(9995):743.
12. Rojas-Suarez J, Bello-Muñoz C, **Paternina-Caicedo A**, Bourjeily G, Carino G, Dueñas C. Maternal mortality secondary to acute respiratory failure in Colombia: a population-based analysis. *Lung*. 2015;193(2):231-7.
13. Cárdenas-Cárdenas LM, Cotes-Cantillo K, Chaparro-Narváez PE, Fernández-Niño JA, **Paternina-Caicedo A**, Castañeda-Orjuela C, et al. Maternal Mortality in Colombia in 2011: a two level ecological study. *PloS one*. 2015;10(3):e0118944.
14. Beyene T, Hoek H, Zhang Y, Vos T. Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013. *The Lancet*. 2015;385(9963):117-71.
15. Abubakar I, Tillmann T, Banerjee A. Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*. 2015;385(9963):117-71.
16. Wang H, Liddell CA, Coates MM, Mooney MD, Levitz CE, Schumacher AE, et al. Global, regional, and national levels of neonatal, infant, and under-5 mortality during 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*. 2014;384(9947):957-79.
17. Rojas-Suarez J, **Paternina-Caicedo AJ**, Miranda J, Mendoza R, Dueñas-Castel C, Bourjeily G. Comparison of severity-of-illness scores in critically ill obstetric patients: a 6-year retrospective cohort. *Critical care medicine*. 2014;42(5):1047-54.
18. Rojas-Suarez J, **Paternina-Caicedo A**, Cuevas L, Angulo S, Cifuentes R, Parra E, et al. Maternal mortality due to pandemic influenza A H1N1 2009 virus in Colombia. *Journal of perinatal medicine*. 2014;42(1):19-26.
19. Peláez- Carvajal D, Cotes- Cantillo K, **Paternina-Caicedo A**, Gentsch J, de la Hoz- Restrepo F, Patel M. Characterization of rotavirus genotypes before and after the introduction of a monovalent rotavirus vaccine in Colombia. *Journal of medical virology*. 2014;86(6):1083-6.
20. Murray CJ, Ortblad KF, Guinovart C, Lim SS, Wolock TM, Roberts DA, et al. Global, regional, and national incidence and mortality for HIV, tuberculosis, and malaria during 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*. 2014;384(9947):1005-70.
21. Kassebaum NJ, Bertozzi-Villa A, Coggeshall MS, Shackelford KA, Steiner C, Heuton KR, et al. Global, regional, and national levels and causes of maternal mortality during 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*. 2014;384(9947):980-1004.
22. Cotes-Cantillo K, **Paternina-Caicedo A**, Coronell-Rodríguez W, Alvis-Guzmán N, Parashar UD, Patel M, et al. Effectiveness of the monovalent rotavirus vaccine in Colombia: a case-control study. *Vaccine*. 2014;32(25):3035-40.
23. Alcalá-Cerra G, Young AM, Moscote-Salazar LR, **Paternina-Caicedo A**. Efficacy and safety of subdural drains after burr-hole evacuation of chronic subdural hematomas: systematic review and meta-analysis of randomized controlled trials. *World neurosurgery*. 2014;82(6):1148-57.
24. Alcalá-Cerra G, **Paternina-Caicedo AJ**, Díaz-Becerra C, Moscote-Salazar LR, Fernandes-Joaquim A. Orthosis for thoracolumbar burst fractures without neurologic deficit: a systematic review of prospective randomized controlled trials. *Journal of Craniovertebral Junction and Spine*. 2014;5(1):25.

25. Alcalá-Cerra G, **Paternina-Caicedo A**, Moscote-Salazar L, Gutiérrez-Paternina J, Niño-Hernández L. Application of vancomycin powder into the wound during spine surgery: systematic review and meta-analysis. *Revista Española de Cirugía Ortopédica y Traumatología (English Edition)*. 2014;58(3):182-91.
26. Miranda JE, Rojas- Suarez J, **Paternina A**, Mendoza R, Bello C, Tolosa JE. The effect of guideline variations on the implementation of active management of the third stage of labor. *International Journal of Gynecology & Obstetrics*. 2013;121(3):266-9.
27. De la Hoz-Restrepo F, Castaneda-Orjuela C, **Paternina A**, Alvis-Guzman N. Systematic review of incremental non-vaccine cost estimates used in cost-effectiveness analysis on the introduction of rotavirus and pneumococcal vaccines. *Vaccine*. 2013;31:C80-C7.
28. Alvis-Guzman N, Orozco-Africano J, **Paternina-Caicedo A**, Coronell-Rodriguez W, Alvis-Estrada L, Jervis-Jálabe D, et al. Treatment costs of diarrheal disease and all-cause pneumonia among children under-5 years of age in Colombia. *Vaccine*. 2013;31:C58-C62.
29. Castañeda-Orjuela C, Alvis-Guzmán N, **Paternina AJ**, De la Hoz-Restrepo F. Cost-effectiveness of the introduction of the pneumococcal polysaccharide vaccine in elderly Colombian population. *Vaccine*. 2011.

Publications as Co-author (Spanish)

1. Alcalá-Cerra G, Young AM, **Paternina-Caicedo A**, Ribas ESC. Trends in the mortality of non-traumatic subarachnoid hemorrhage in Colombia: a 10-year analysis of a nationwide registry. *Archivos de neuro-psiquiatria*. 2013;71(11):841-5.
2. Alcalá-Cerra G, **Paternina-Caicedo Á**, Díaz-Becerra C, Gutiérrez-Paternina JJ. Control de las crisis epilépticas con la hemisferectomía cerebral en adultos: revisión sistemática y metaanálisis con datos de pacientes individuales. *Neurocirugía*. 2013;24(4):154-62.
3. Monterrosa-Castro Á, **Paternina-Caicedo AJ**, Alcalá-Cerra G. Induced abortion in Cartagena, Colombia: estimation using Abortion Incidence Complications Methodology. *Revista de Salud Pública*. 2011;13(2):253-61.
4. Alvis-Guzmán N, **Paternina-Caicedo A**, Alvis-Estrada L, De la Hoz-Restrepo F. Direct costs of complicated chicken pox in a Colombian pediatric population. *Revista de Salud Pública*. 2011;13(6):921-9.
5. Alvis N, de La Hoz F, Gamboa O, Cediél N, Rico A, **Paternina Á**, et al. Epidemiological and economic impact of tetanus vaccination in Colombian adults. *Revista Panamericana de Salud Pública*. 2011;30(3):209-16.

Submitted Publications

- Paternina-Caicedo A, Driessen J, Roberts M, van Panhuis W. The public health impact of measles immunization in the United States: A state-level analysis from 1931 to 2014. *Lancet Infectious Diseases* (submitted).