

Devin Incerti

Research Economist

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Education

- 2015** Ph.D. Public Policy (Political Economy), Princeton University
- 2013** M.A. Public Affairs, Princeton University
- 2009** B.A. Mathematics and Economics, University of California, San Diego
- 2009** B.A. Political Science, University of California, San Diego

Employment

- 2017-18** Lead economist - Open-Source Value Project, Innovation and Value Initiative, Oakland CA
- 2017-18** Research economist, Precision Health Economics, Oakland CA
- 2016-17** Associate research economist, Precision Health Economics, Oakland CA
- 2015-16** Research economist intern, Precision Health Economics, Oakland CA
- 2009-10** Research Associate, NERA Economic Consulting, Los Angeles, CA

Publications

Incerti D, Summers N, Ton TG, Boscoe A, Chandraker A, Stevens W. The Lifetime Health Burden of Delayed Graft Function in Kidney Transplant Recipients in the United States. *Medicial Decision Making Policy & Practice*. Forthcoming.

Frasco MA, Shih T, **Incerti D**, Diaz Espinosa O, Vania DK, Thomas N. Incremental net monetary benefit of ocrelizumab relative to subcutaneous interferon β -1a. *Journal of Medical Economics*. 2017 Oct 3;20(10):1074-82. <http://dx.doi.org/10.1080/13696998.2017.1357564>

Stevens W, Shih T, **Incerti D**, Ton TG, Lee H, Peneva D, Macones GA, Sibai BM, Jena AB. 2017. Short-term costs of preeclampsia to the United States health care system. *American Journal of Obstetrics & Gynecology*. 2017 Sep 1;217(3):237-48. <http://dx.doi.org/10.1016/j.ajog.2017.04.032>

Shahabi A, Peneva D, **Incerti D**, McLaurin K, Stevens W. Assessing Variation in the Cost of Palivizumab for Respiratory Syncytial Virus Prevention in Preterm Infants. *Pharmacoeconomics-Open*. 2017:1-9. <https://doi.org/10.1007/s41669-017-0042-3>

Jansen JP, **Incerti D**, Mutebi A, Peneva, D, MacEwan JP, Stolshek B, Kaur P, Gharaibeh M, Strand V. Cost-effectiveness of sequenced treatment of rheumatoid arthritis with targeted immune modulators. *Journal of Medical Economics*. 2017 Jul 3;20(7):703-14. <http://dx.doi.org/10.1080/13696998.2017.1307205> (Supplement).

Manuscripts Under Review

Incerti, D. The Optimal Allocation of Campaign Funds in House Elections. ([PDF](#), [GitHub](#)).

Ton TG, Bennett M, **Incerti D**, Peneva D, Druzin M, Stevens W, Butwick A, Lee HC. Maternal and infant adverse outcomes associated with preeclampsia with and without severe features in the United States.

Incerti D, Browne J, Huber C, Baker CL, Makinson G, Goren A, Wilke R, Stevens W. An empirical tool for estimating and categorizing unmet need.

Stevens W, **Incerti D**, Peneva D, Shrestha A, Ramaswamy K, Smith G. An Empirical Analysis of the Role of Learning by Doing in Dynamic Cost-effectiveness.

Working Papers

Incerti D. An Assessment of Long-term Healthcare Expenditure Risk Using a Dynamic Bayesian Model. ([PDF](#), [fake-data simulation](#)).

Incerti D. Racial, Ethnic and Educational Disparities in Pharmaceutical Expenditures. ([PDF](#)).

Incerti D. Political Instability and Financial Markets. ([PDF](#), [GitHub](#)).

Blog Post

Jansen JP, **Incerti D**, Linthicum M. [An Open-Source Consensus-Based Approach To Value Assessment](#). Health Affairs Blog. 2017 Dec 1.

Oral Presentations

Developing flexible, iterative, and transparent decision models: a detailed look at a rheumatoid arthritis individual patient simulation. ISPOR Student Network Educational Webinar, 2018.

Open-Source Consensus-Based Models to Improve the Cost-Effectiveness of Rheumatology Care (selected oral abstract). ACR/ARHP Annual Meeting, San Diego, 2017.

Estimates of costs of preeclampsia to the United States health care system. March of Dimes Prematurity Research Center at Stanford University, Palo Alto, 2016 (with Thanh G.N. Ton).

Abstracts and Poster Presentations

Incerti D, Jansen JP. An Open-Source Toolkit for Developing Flexible Evidence-Based Decision and Simulation Models for Value Assessment in Oncology with R. ISPOR 23rd Annual International Meeting, Baltimore, 2018.

Incerti D, Jansen JP. Quantifying the Importance of Model Parameters and Structural Assumptions on the Value of Treatments for Rheumatoid Arthritis using Metamodeling. ISPOR 23rd Annual International Meeting, Baltimore, 2018.

Incerti D, Curtis JR, Lorenzi M, Jansen JP. Exploring Structural Uncertainty With An Open-Source Cost-Effectiveness Model For Rheumatoid Arthritis. ISPOR Annual European Congress, Glasgow, Scotland, 2017. <http://dx.doi.org/10.1016/j.jval.2017.08.2098>

Incerti D, Peneva D, Shrestha A, Ramaswamy K, Smith G, Stevens W. An Empirical Analysis of the Role of Learning by Doing in Dynamic Cost-effectiveness. ISPOR Annual European Congress, Glasgow, Scotland, 2017. <http://dx.doi.org/10.1016/j.jval.2017.08.215>

Jansen JP, Jeffers A, Chang K, **Incerti D**. An Outcomes Regression Approach for Indirect Comparisons of Survival Outcomes when Standard Network Meta-Analysis is Not Feasible. ISPOR Annual International Meeting, Boston, 2017.

Wan J, Mongan J, **Incerti D**, Courtier J. A Shiny New World: Creating Your Own Radiology Decision Support Webapps Using R. Radiological Society of North America, Annual Meeting, Chicago, 2016.

Shiraito Y, **Incerti D**, Lopez-Moctezuma G. A Reassessment of the Resource Curse: A Bayesian Dynamic Analysis of Panel Data. Midwest Political Science Association, Annual Meeting, Chicago, 2013.

Software

Incerti D. hesim: a general-purpose R package for health-economic simulation modeling. ([web-site](#)).

Incerti D, Jansen JP. The IVI-RA model: an open-source simulation model for assessing the value of disease-modifying anti-rheumatic drugs (DMARDs) to treat rheumatoid arthritis. ([GitHub](#))

- [Model documentation](#): PDF documentation describing the IVI-RA model.
- [iviRA R package](#): an R package for running the IVI-RA model.
- [IVI-RA Model Interface](#): an R Shiny web interface providing full control over the treatments, the patient population, model parameters, model structures, and time horizon.
- [IVI-RA Value Tool](#): a more streamlined R Shiny web application for users with less experience in decision-analytic modeling and rheumatoid arthritis.

Incerti D. An R Shiny web application that aids diagnosis of skeletal dysplasias based on clinical features. ([link](#)).

Incerti D. Interactive plots of parametric survival distributions. ([link](#)).

Honors and Awards

2010-15 *Centennial Fellowship*, Princeton University

2009 *The Award for Excellence in Joint Mathematics-Economics* granted to the most outstanding graduating Senior in Joint Mathematics-Economics, UCSD Department of Economics

2009 *DeWitt Higgs Award* granted to the outstanding graduating Senior in the area of law and public policy, UCSD Department of Political Science

2009 *Michael Addison Award* for the most outstanding Senior research paper, Warren College
(graduating class of 950 students)

Skills and Interests

Computing

Most experienced: R, Stata, LaTeX, Excel

Some experience: C++, Python, MySQL, Stan, JAGS

Athletics

UCSD Varsity Baseball Letterman, shortstop and centerfield, 2004 – 2006