

Joaquin Barnoya, MD, MPH

BORN: Guatemala City, Guatemala

CITIZENSHIP: Guatemala

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PRESENT POSITION:

Research Assistant Professor,
Department of Surgery, Division of Public Health Sciences
Washington University School of Medicine
St. Louis, MO. USA

EDUCATION:

Undergraduate:

N/A

Graduate:

1998 MD, San Carlos University School of Medicine, Guatemala

Postgraduate:

2001 MPH, Harvard School of Public Health, Boston, MA

2001-04 Postdoctoral Fellow on Tobacco Control, University of California, San Francisco, CA

ACADEMIC POSITIONS/EMPLOYMENT:

1999-01 Fellow, Nutrition, Harvard School of Public Health

2004- Research Director. Cardiovascular Unit of Guatemala. Guatemala.

2006- Research Assistant Professor. Division of Public Health Sciences. Department of Surgery. Washington University in St. Louis

UNIVERSITY/DEPARTMENTAL APPOINTMENTS AND COMMITTEES (list chronologically, ending with most recent)

2011- Associate Researcher. Central American and Panama Nutritional Institute/Comprehensive Center for the Prevention of Chronic Diseases (INCAP/CIPEEC).

2008- Panel Member. Funding Arbiter. The Cochrane Collaboration

HONORS & AWARDS:

- 2005 National Cancer Institute “Redes en Accion”. “Rising Star in Cancer Research Award.”
- 2006 American Heart Association Top 10 Scientific Advances of 2005. “Cardiovascular Effects of Secondhand smoke: Nearly as large as smoking.” *Circulation* 2005;111(20):3684-2698
- 2011 Academy of Sciences for the Developing World. Guatemala National Council of Science and Technology. TWAS *Young Scientist Award*.

EDITORIAL RESPONSIBILITIES:

- 2009- Editorial Board Member: BMJ journal “Tobacco Control”.

Reviewer for Preventive Medicine

Reviewer for American Journal of Medicine

Reviewer for Nicotine & Tobacco Research

Reviewer for International Journal of Cardiology

Reviewer for BMC Public Health

Reviewer for Cancer Causes & Control

Reviewer for Cancer Epidemiology Biomarkers & Prevention

Reviewer for The Cochrane Collaboration Library

Reviewer for Journal of General Internal Medicine

COMMITTEES/LEADERSHIP POSITIONS:

- 1999-01 Boston Obesity Nutrition Center Epidemiology Core, Assistant Coordinator
- 1999- Tobacco Section Editor, ProCOR: Global Electronic Conference on Cardiovascular Health in the developing world.
- 2004- Tobacco Control Consultant, Inter American Heart Foundation.
- 2004 Founding Member, University of California, San Francisco, Weight Assessment and Treatment Clinic (WATCH).
- 2007 1st Latin American Society for Research on Nicotine & Tobacco Meeting. Abstract Committee President. Rio de Janeiro, Brazil.

PROFESSIONAL SOCIETIES AND ORGANIZATIONS:

- 1998- National College of Physicians and Surgeons, Guatemala
- 1999-01 Boston Obesity Nutrition Research Center, Boston, MA
- 2000 Harvard Tobacco Control Working Group, Boston, MA
- 2002- American Public Health Association
- 2003- Society of General Internal Medicine, Associate Member
- 2003- Society for Nicotine & Tobacco Research
- 2004 University of California, San Francisco. Obesity Center, Founding Member
- 2005- American College of Preventive Medicine, Associate member.
- 2006-10 Guatemalan College of Cardiology

CONSULTING RELATIONSHIPS AND BOARD MEMBERSHIPS: (optional)

- 2010- Flight Attendant Medical Research Institute. Grant reviewer.

2008 Bloomberg Tobacco Control Initiative. Grant reviewer.

TEACHING RESPONSIBILITIES:

2000-01 Critical reading of the medical literature. Discussion Leader and assignment grading.
Harvard Medical School

2002-04 Introduction to Biostatistics. Discussion leader and assignment grading
University of California, San Francisco School of Medicine.

2003- 04 Discussion Leader and Lecturer, Study Design Evaluation
University of California, San Francisco School of Pharmacy.

2006 Course Director Surgery Residency, Critical reading of the medical literature.
Roosevelt Hospital, Guatemala.

2007-2010 Instructor, Biostatistics Course Instructor
Landivar University School of Medicine, Guatemala.

2008 Tutor, "Evidence Based Healthcare Course"
University of Colorado Health Sciences Center

2009-2010 Instructor, Epidemiologic Research Course
Landivar University School of Medicine, Guatemala.

RESEARCH SUPPORT: (role, title, duration, amount)

Government

R24 TW008820-01Cancer Control Research Summer Training Institute (Coldtiz/Barnoya, MPH)

09/01/2010-08/31/2012

Fogarty International Center. National Institute of Health.\$248,871

Role: Co-Principal Investigator

This training program is a collaborative effort to provide U.S. and Guatemala's National Cancer Institute (INCAN) trainees in with an interdisciplinary framework to conduct cancer research that focuses on the problems and challenges faced in Guatemala. Due to a lack of formal research training in Guatemala, Washington University faculty are developing and implementing a training program in research methodology, epidemiology, medical anthropology, ethics, clinical trials, and prevention programming for INCAN fellows. The ultimate goal of the program is for teams that (each) consist of a trainee and faculty member at both institutions to develop a research protocol to address a cancer issue in Guatemala and submit this protocol to the IRB at the conclusion of the grant period. Dr. Barnoya serves as the PI in Guatemala.

NonGovernment

Chronic Disease Control Research Training Program (Barnoya) 01/01/2009 – 12/31/2012

\$CAD 196,900

International Development Research Centre, Ottawa. Canada.

Role: Principal investigator.

This is a four-year training program to increase research capacity on chronic diseases in Guatemala. Two residents are recruited per year to design, conduct, and disseminate research on tobacco and other chronic disease risk factors that can be used to support evidence-based strategies to control chronic diseases.

Influence of Food Packaging on Children's Energy Dense Snack Food Preferences in Guatemala.

(Barnoya) 02/07/2012 – 02/07/2014

CAD\$106,800

International Development Research Centre, Ottawa, Canada.

Role: Principal Investigator.

The objective of this proposal is to determine the influence food packaging has on children's energy-dense snack (EDS) food preferences in Guatemala. Therefore, we are implementing three projects in a convenience sample of four low-income urban schools in Guatemala City. The first project will survey street vendors and convenience stores located within walking distance from the schools. Nutritional content and packaging of EDS food marketed to children will be analyzed. The second project will include the participation of 60 children that will taste three pairs of identical foods presented in packages either with or without a licensed character. In the third project, 48 school aged-children have been invited to participate in 6 focus groups where their perceptions towards child-oriented food packaging and its influence over their EDS food preferences and purchase intent will be explored.

BIBLIOGRAPHY:

Invited Publications

1. **Barnoya J**, Viteri E, Glantz S. Smoking and Air Pollution. In: Cardiology. An Illustrated Textbook. Editors: Chatterjee K, Anderson M, Heistad D, Kerber RE. Jaypee Brothers. 2012
2. **Barnoya J**, Balbach ED, Glantz S. Tobacco. Scientific Status. In: Modern Scientific Evidence. The Law and Science of Expert Testimony. Editors: DL Faigman, MJ Saks, J Sanders, EK Cheng. 2008-2009 Edition. Thomson Reuters, USA
3. **Barnoya J** and Glantz S. Smoking, Secondhand Smoke, and Cardiovascular Disease. In: Cardiovascular Medicine. Editors: J.T. Willerson, J.N. Cohn, H.J.J. Wellens, D.R. Holmes Jr. Third edition. Springer, Netherlands. 2009
4. **Barnoya J** and Glantz S. Smoking. In: Textbook of Cardiovascular Medicine, Editor: Eric J. Topol. Third edition. Lippincott Williams & Wilkins, USA. 2006
5. Field AE, **Barnoya J**, Colditz GA. Epidemiology and Health and Economic Consequences of Obesity. In: Handbook of Obesity Treatment. 3-18. 2002, The Guilford Press, USA
6. Field A, **Barnoya J**. Obesity and Cancer. In Cancer Prevention: The Causes and Prevention of Cancer. 2000; Volume I: pgs 25-35 Kluwer Academic Publishers. Netherlands.

Peer Review Manuscripts

1. Sakhuja R and **Barnoya J**. Perceptions and prevalence of smoking among people in highland Guatemala. Cancer Causes and Control 2001; 12: 479-481.
2. **Barnoya J and Glantz S**. **Attitudes and knowledge about tobacco among Guatemalan physicians**. Cancer Causes and Control 2001; 13:879-881.
3. **Barnoya J** and Glantz S. Tobacco industry success in preventing regulation of secondhand smoke in Latin America: the "Latin Project". Tobacco Control 2002;11:305-314
4. **Barnoya J** and Glantz S. The Tobacco Industry and Secondhand Smoke: Lessons from Central and South America. Ethnicity and Disease 2003;13[Suppl 2]:S2-117-S2-119.
5. **Barnoya J**. Rethinking tobacco control. Editorial. Student BMJ 2003;11:264-265.
6. **Barnoya J** and Glantz S. Secondhand smoke and cardiologists: the missing link. Letter to the Editor. International Journal of Cardiology 2004;93(2-3):331.

7. **Barnoya J** and Glantz S. Secondhand smoke: The evidence of danger keeps growing. Editorial. *The American Journal of Medicine* 2004; 116(3):201-202.
8. Saimovici J, **Barnoya J**. Argentina: "non-smokers' dictatorship". *Tobacco Control* 2004;13(1):6
9. **Barnoya J**. Guatemala: snow stopping 'em. *Tobacco Control* 2004;13:103
10. **Barnoya J** and Glantz S. Association of the California Tobacco Control Program with Declines in Lung Cancer incidence. *Cancer Causes and Control* 2004;15:689-695.
11. **Barnoya J**, Glantz SA. Modifiable Behavioral Factors as Causes of Death. *JAMA* 2004;291:2941-b-2942.
12. Bitton A, Neuman MD, **Barnoya J**, Glantz SA. The p53 Tumor Suppressor Gene and the Tobacco Industry: Research, Debate, and Conflict of Interest 2004. *Lancet* 2005;365(9458):531-540.
13. **Barnoya J**, Glantz S. Cardiovascular effects of secondhand smoke: Nearly as large as smoking. 2004. *Circulation* 2005;111(20):3684-2698.
14. **Barnoya J**, Bialous SA, Glantz SA. Effective interventions to reduce smoking induced heart disease around the world: time to act. *Circulation* 2005;112(4):456-8.
15. Vida VL, **Barnoya J**, Larrazabal LA, Gaitan G, de Maria Garcia F, Castaneda AR. Congenital cardiac disease in children with Down's syndrome in Guatemala. *Cardiol Young* 2005;15(3):286-90.
16. Vida VL, Mack R, **Barnoya J**, Larrazabal LA, Lou R, Castaneda AR. The association of renal tubular acidosis and cyanotic congenital heart disease. *J Thorac Cardiovasc Surg* 2005;130(5):1466-7.
17. Sebrie E, **Barnoya J**, Perez-Stable EJ, Glantz SA. Tobacco industry successfully prevented tobacco control legislation in Argentina. *Tob Control* 2005;14(5):e2.
18. Vida VL, Calvimontes GS, Macs MO, Aparicio P, **Barnoya J**, Castañeda AR. Radiofrequency catheter ablation of supraventricular tachycardia in children and adolescents: feasibility and cost-effectiveness in a low-income country. *Pediatr Cardiol.* 2006;27(4):434-9.
19. **Barnoya J**, Glantz SA. The tobacco industry's worldwide ETS consultants project: European and Asian components. *Eur J Public Health* 2006;16(1):69-77.
20. Vida VL, Leon-Wyss J, Rojas M, Mack R, **Barnoya J**, Castañeda AR. Pulmonary artery hypertension: is it really a contraindicating factor for early extubation in children after cardiac surgery? *Ann Thorac Surgery.* 2006;81(4):1460-5.
21. **Barnoya J**, Glantz S. Cardiovascular effects of secondhand smoke help explain the benefits of smoke-free legislation on heart disease burden. *J Cardiovasc Nurs* 2006;21(6):457-62.
22. Flores ML, **Barnoya J**, Mejia R, Alderete E, Perez-Stable EJ. Litigation in Argentina: challenging the tobacco industry. *Tob Control* 2006;15(2):90-96.
23. Vida VL, **Barnoya J**, O'Connell M, Leon-Wyss J, Larrazabal LA, Castaneda AR. Surgical versus percutaneous occlusion of ostium secundum atrial septal defects: results and cost-effective considerations in a low-income country. *J Am Coll Cardiol* 2006;47(2):326-31.
24. **Barnoya J**, Mendoza-Montano C, Navas-Acien A. Secondhand Smoke Exposure in Public Places in Guatemala: Comparison with other Latin American Countries. *Cancer Epidemiol Biomarkers Prev* 2007;16(12):2730-5.
25. Kummerfeldt CE, **Barnoya J**, Bero L. Philip Morris involvement in the development of an air quality laboratory in El Salvador. *Tob Control.* 2009;18:241-4
26. **Barnoya J**, Mejia R, Szeinman D, Kummerfeld CE. Tobacco point-of-sale advertising in Guatemala City, Guatemala and Buenos Aires, Argentina. *Tobacco Control.* 2010;19(4):338-41.
27. **Barnoya J**, Arvizu M, Jones MR, Hernandez JC, Breysse PN, Navas-Acien A. Secondhand smoke exposure in bars and restaurants in Guatemala City: before and after smoking ban evaluation. *Cancer Causes Control.* 2011;22(1): 151-6
28. **Barnoya J** and Colditz G. Meta-analysis of before and after studies shows a 10% reduction in

- acute coronary events after introduction of comprehensive smoke-free legislation. *Evid Based Nurs.* 2011 Apr;14(2):46-7
29. Thrasher JF, Villalobos V, **Barnoya J**, Sansores R, O'Connor R. Consumption of single cigarettes and quitting behavior: A longitudinal analysis of Mexican smokers. *BMC Public Health.* 2011;11(1): 134
 30. Viteri E, **Barnoya J**, Hudmon KS, Solorzano PJ. Smoking cessation medications and cigarettes in Guatemala pharmacies. *Tobacco Control.* 2011. doi:10.1136/tc.2011.044040
 31. Trucco SM, **Barnoya J**, Larrazabal LA, Castaneda A, Teitel DF. Detection rates of congenital heart disease in Guatemala. *Cardiology in the Young.* 2011;21(2): 153-60
 32. Hyland A, **Barnoya J.**, Corral JE. Smoke-free policies: past, present, and future. *Tobacco Control.* 2012;21(2):154-61
 33. Corral JE, Cornejo JA, **Barnoya J.** Bars' and restaurants' compliance with the Guatemalan smoke-free law during the 2010 Soccer World Cup: a missed opportunity. *Tobacco Control.* 2012;20(6):445-6
 34. **Barnoya J** and Glynn T. Reducing global health inequalities through tobacco control. *Cancer Causes & Control.* 2012. 23;Suppl (1):7-9
 35. de Ojeda A, **Barnoya J**, Thrasher JF. Availability and Costs of Single Cigarettes in Guatemala. *Nicotine Tob Res.* 2012 Apr 6. Epub ahead of Print

Peer Reviewed Presentations:

Oral

1. Corral JE, Arnold L, Argueta E, Ganju A, **Barnoya J.** Guatemalan internal medicine physicians' knowledge of non-communicable disease clinical preventive services. Society of General Internal Medicine meeting. Miami, Fl. 2012
2. **Barnoya J**, Kennedy R. "Increasing chronic disease research capacity in Guatemala through a fellowship program". 139th American Public Health Association meeting. Washington, DC. 2011
3. Arnold L, Benson P, Colditz G, Stamatakis K, Beers C, **Barnoya J.** "Development of an interdisciplinary cancer research training program for Guatemala". 139th American Public Health Association meeting. Washington, DC. 2011
4. **Barnoya J**, Mejia R, Siezeman D, Monzon J. "Tobacco point-of-sale advertising in Guatemala City, Guatemala and Buenos Aires, Argentina." 14th World Conference on Tobacco or Health. Mumbai, India, 2009
5. Kummerfeldt C, **Barnoya J**, Bero L. "Philip Morris involvement in the establishment of an air quality laboratory in El Salvador." 14th World Conference on Tobacco or Health. Mumbai, India, 2009
6. **Barnoya J** and Glantz S. Association of the California Tobacco Control Program with Declines in Lung Cancer incidence. World Conference on Tobacco or Health. Helsinki, Finland. 2003
7. **Barnoya J** and Glantz S. Tobacco industry worldwide ETS consultants program. American Public Health Association meeting, San Francisco, California 2003.
8. **Barnoya J** and Glantz S. Tobacco industry success in preventing regulation of secondhand smoke in Latin America: the "Latin Project". American Public Health Association meeting. Philadelphia, 2002

Poster

1. Monzon D, Corral JE, Quan P, **Barnoya J.** Guatemalan newspapers coverage of the 2009 comprehensive smoke-free environments law : pre-post evaluation. 15th World Conference on Tobacco or Health. Singapore, 2012
2. Cuj M, **Barnoya J.** Midwives use and knowledge about tobacco in rural Guatemala. 3rd Society for Research on Nicotine and Tobacco Latin American meeting. Lima, Peru. 2011.

3. **Barnoya J**, Moreland-Russell S, Smith C, Mueller N. Tobacco point-of-sale advertising in St. Louis, MO. American Public Health Association Meeting. Denver, CO. 2010
4. Viteri E, Solorzano P, Monzon D, **Barnoya J**. Smoking cessation and tobacco availability in Guatemala's pharmacies. American Public Health Association Meeting. Denver, CO. 2010
5. Arvizu M, **Barnoya J**, Navas-Acien A, Hernandez J. "Secondhand tobacco smoke in bars and restaurants in Guatemala: before and after indoor smoking ban evaluation" 100th American Association for Cancer Research meeting. Washington, DC. "**Highly Rated Paper**"
6. Monzon, JC, **Barnoya J**. Knowledge and attitudes about the smoke-free law among hospitality industry owners/managers in Guatemala. 2nd Society for Research on Nicotine and Tobacco Latin American meeting. Mexico City, Mexico. 2009.
7. Miron R, de Ojeda A, **Barnoya J**. Tobacco point of sale advertising in rural Guatemala. 2nd Society for Research on Nicotine and Tobacco Latin American meeting. Mexico City, Mexico. 2009.
8. Kajana K, **Barnoya J**. Smoking prevalence and acceptance of smoke-free environments among medical students in Guatemala City, 2006. 1st Society of Research on Nicotine and Tobacco Latin American meeting. Rio de Janeiro, Brazil. 2007
9. **Barnoya J**, Mendoza-Montano C, Navas-Acien A. Secondhand tobacco smoke in public places in Guatemala. A comparison with Latin American countries. American Public Health Association meeting. Boston, 2006
10. **Barnoya J**, Nápoles-Springer A, Pérez-Stable E. Smoking cessation counseling behaviors of Latino and non-Latino White physicians. National Conference on Tobacco or Health meeting, Boston MA. 2003.
11. Bitton A, Neuman MD, **Barnoya J**, Glantz SA. The p53 Tumor Suppressor Gene and the Tobacco Industry: Research, Debate, and Conflict of Interest. World Conference on Tobacco or Health, Finland. 2003.