

**CURRENT APPOINTMENTS**

- Director of Healthcare Research, William Davidson Institute, University of Michigan

**PAST ACADEMIC APPOINTMENTS**

- Professor of Supply Chain Management, Massachusetts Institute of Technology-Zaragoza International Logistics Program, 2004-2011
- Research Affiliate, Center for Transportation and Logistics, Massachusetts Institute of Technology, 2004-2011

**OTHER APPOINTMENTS: CURRENT**

- Chair, Market Dynamics Advisory Group, Global Fund to fight AIDS, TB and Malaria, Geneva
- Member, Institute of Medicine (IOM) Expert Committee on Drug Regulation in Developing Countries
- Member, Institute of Medicine (IOM) Expert Committee on Sub-Standard and Counterfeit Drugs
- Member, Institute of Medicine (IOM) Expert Planning Committee on MDR-TB Drug Supply Chain
- Expert Advisory Board Member, Dalberg Global Development Advisors, New York
- Advisory Board Member, Sproxil, Boston, MA
- Advisory Board Member-ColaLife
- Advisory Board Member, Logistimo, San Francisco, CA
- Member, Working Group on Value for Money in Global Health Programs, Center for Global Development
- Member, Project Advisory Group, WHO-PATH Immunization-Optimize project
- Expert Advisory Committee Member, ACT-Watch: Generating Evidence for Malaria Medicines
- Consultant and Advisor, Bill and Melinda Gates Foundation, Seattle, WA
- Consultant and Advisor, World Bank

**OTHER APPOINTMENTS: PAST**

- Grant Technical Evaluator, Bill and Melinda Gates Foundation- 2008, 2009, 2010
- Co-chair, Procurement and Supply Chain Management, Roll Back Malaria Partnership (2011-2012)
- Member, Performance Based Financing Task Force, Global Alliance for Vaccines (GAVI) (2010-2011)
- Chair, Co-payment Technical Advisory Committee (CTAG)-ad hoc, AMFm, The Global Fund (2010-2011)
- Member, Technical Working Group on Drug Resistance, Center for Global Development (2011-2012)

**EDUCATION**

- Ph.D., Manderson Graduate School of Business, University of Alabama.
- MA, Manderson Graduate School of Business, University of Alabama.
- MBA, FORE School of Management.
- Bachelor of Engineering, Indian Institute of Technology, Roorkee

**POLICY BRIEFINGS**

- Driving Malaria Reduction Globally: The role of supply chains, Congressional Briefing, United States Capitol, Washington DC, Oct. 1, 2009
- Briefing on Differential Pricing at the Industry Government Forum on Access to Medicines, London, UK, Oct 12, 2009

**RESEARCH MENTIONS IN THE MEDIA**

- *The Lancet*, Volume 379, Issue 9828. May 2012. FDA maps out global strategy.
- *Science*. 18 May 2012 Vol 336 . Can New Chemistry Make a Malaria Drug Plentiful and Cheap?
- *Nature*. Volume 18 | number 5 | May 2012. Malaria subsidy pilot soars, but some see turbulence ahead
- *The Financial Times*, Sep 27, 2011 "Tiered pricing opens new markets to pharmas"

- *Nature (Medicine)*, October 2011 “Cheap drugs pulled despite wealth gap in middle-income countries”
- Financial Times, Nov 30, 2011
- Financial Times, Sep 27, 2011
- Nature Medicine, October 2011
- Nature Medicine, January 2010
- The Economist, Jan 7-2010,
- The Economist April 19-2009,
- The Economist May 15-2008
- The Economist Nov 1-2007
- Pharmaceutical Executive, Feb 2006
- BBC Radio 4, In Business and BBC Global Business Review, May 12, 2005
- Homeland Protection Professional, March 2006
- Manufacturing Chemist, Feb 2006
- La Nueva Espana (published in Spanish), July 2008
- El Heraldo de Aragón (published in Spanish), Jan 2006
- Mundo Logistico (published in Spanish), July-August 2007
- *IIE Industrial Engineer* Logistics fix for the flu: time to take a look at curing supply chain ailments. March 2006.

## PEER REVIEWED PUBLICATIONS

- Yadav P., O. Stapleton, and L. N. Van Wassenhove. Always Cola, Rarely Essential Medicines: Comparing Medicine and Consumer Product Supply Chains in the Developing World, *Stanford Social Innovation Review Winter 2013*
- JL Cohen, P Yadav, C Moucheraud, S Alphs, PS Larson, J Arkedis Do Price Subsidies on Artemisinin Combination Therapy for Malaria Increase Household Use?: Evidence from a Repeated Cross-Sectional Study in Remote Regions of Tanzania. *PloS One 8 (7) 1 2013*
- PS Larson, P Yadav, S Alphs, J Arkedis, J Massaga, O Sabot, JL Cohen. Diffusion of subsidized ACTs in accredited drug shops in Tanzania: determinants of stocking and characteristics of early and late adopters. *BMC Health Services Research 13 (1), 526*
- S Abdulla, P Agre, PL Alonso, M Arevalo-Herrera, Q Bassat, F Binka, P. Yadav ...A research agenda for malaria eradication: vaccines. *PLoS Medicine 8 (1), e1000398-e1000398*
- Spiliotopoulou E., P. Yadav and M. Boni. Impact of Multiple First-line Therapies on Drug Resistance and Supply Chain Costs, *Socio-Economic and Planning Sciences, 2013 Q2, Issue In Print*
- M Zaffran, J Vandelaer, D Kristensen, B Melgaard, P Yadav, K.O. Antwi-Agyei, H Lasher, The imperative for stronger vaccine supply and logistics systems. *Vaccine 31 S (2013) B73– B80*
- A.B. Samii, R. Pibernik, P. Yadav and A. Vereecke. Reservation and Allocation Policies for Influenza Vaccines- *European Journal of Operations Research, 2012.*
- Yadav P., J. L Cohen, S. Alphs, J. Arkedis, P. Larson, J. Massaga, O. Sabot. Trends in availability and prices of subsidized act over the first year of the AMFm: evidence from remote regions of Tanzania. *Malaria Journal 2012*
- R Shretta, P Yadav. Stabilizing demand and supply of artemisinin and ACT in an era of ACT scale-up. *Malaria Journal 2012*
- A.B.Samii, R. Pibernik and P. Yadav, “An Inventory Reservation Problem with Nesting and Fill Rate-based Performance Measures”. *International Journal of Production Economics 133 (2011) 393–402*
- Levine, R, J. Pickett, N. Sekhri Feachem and P. Yadav. “Demand Forecasting for Essential Medical Technologies.” *American Journal of Law and Medicine*, June 2008
- Pibernik R. and P. Yadav. “Capacity Reservations and Due-Date Quoting in a Make-To-Order System”. *Naval Research Logistics*. October 2008

- Pibernik R. and P. Yadav. "Inventory Reservations and Real-Time Order Promising in a Make-To-Stock System" *OR Spectrum*, Jan 2008

## BOOK CHAPTERS

- Yadav P. and L. Smith, Distribution strategies for pharmaceutical companies in emerging markets. *Elsevier Encyclopedia of Health Economics*, 2013
- Yadav P. and L. Smith, Pharmaceuticals and national health systems. *Elsevier Encyclopedia of Health Economics*, 2013
- Yadav P., K. Hanson, R. Smith. Role of Pharmaceuticals in Health Systems. Book chapter in *Health Systems in Developing Countries*, Oxford University Press, UK
- P. Yadav. Improving Global Public Health through Operations Research, *Encyclopedia of Operations Research and Management Science*, Wiley & Co, NJ , 2010
- Yadav, P. and Sridhar P.A.V. "Demand Management in the Supply Chain" Invited Chapter, *Supply Chain Management*, ed. B.S.Sahay. Macmillan India 1999

## OTHER PAPERS

- O. Sabot, P. Yadav and M. Zaffran. *Maximizing Every Dose and Dollar: The Imperative of Efficiency in Vaccine Delivery*. NBR Impact and Innovation Series. 2011
- L. Smith and P. Yadav, Improving Access to Medicines for Non-Communicable Diseases through Better Supply Chains,
- Countering Drug Resistance in the Developing World: An assessment of incentives across the value chain and recommendations for policy interventions, Center for Global Development, 2009
- Increasing patient access to antiretrovirals: recommended actions for a more efficient global supply chain, with Paul Lalvani, Nandini Oomman, Michael Bernstein and Kirsten Curtis. Center for Global Development 2009
- Examining the Role of CD4 Diagnostics in Reducing the Burden of HIV/AIDS in Resource-Limited Developing Countries. with M. Wagner and S. Finkelstein , Proceedings of the *XVIII AIDS Conference, Vienna*

## TEACHING CASE STUDIES

- When Supply is of Public Interest: Roche & Tamiflu, Noel Watson, Laura Rock Kopczak and Prashant Yadav, *Harvard Business School Case # 9-609-061*
- Sproxil: Savings Lives Through Technology and Social Innovation. *UM -Global Lens Case 2013*
- Last Mile Logistics for Essential Drugs: The Case of Zambia, Prashant Yadav, Laura Rock Kopczak and Michael Reich, *Harvard School of Public Health Teaching Case*
- Accessing the Inaccessible! Medicines for Malaria Venture, Prashant Yadav, Luk Van Wassenhove and Orla Stapleton, *INSEAD Case 609-004-1*

## RECENT OP-EDS

- V. Hausman, P. Yadav, D. Ballou-Aares and B. Herbert, Global Fund: reform needed to regain credibility. *The Financial Times*, Nov 30, 2011
- P. Yadav, Ensuring Quality in Primary Healthcare (in India). *The Times of India*, March 09, 2012, Invited op-ed

## AWARDS & HONORS

- Best Research Paper in Public Service Programs, INFORMS 2012
- Runners-up, Best Paper in Humanitarian Logistics, POMS 2012
- Minnie Miles Award 2005
- SCRMC Doctoral Dissertation Proposal Award
- Award for Excellence in Research , School of Business, University of Alabama
- Outstanding Doctoral Student Award , School of Business, University of Alabama
- Outstanding Project Award 2000 and 2001, Alabama Productivity Center
- Beta Gamma Sigma 1999

## **RESEARCH GRANTS**

- Over \$6M in grants with status as principal or co-principal investigator from 2004-2013

## **TEACHING EXPERIENCE**

- Ross School of Business- Elective course on Global Health Delivery, Winter-B 2013, co-taught with Ravi Anupindi
- Harvard University- Executive Education Program on the Science of Malaria Eradication- Lead Faculty for the Supply Chain Management module-, June 2012
- MIT-Zaragoza International Logistics Program,
  - Core course on logistics systems, 2004-2010
  - Course on global health systems, 2008-2010
  - Course on manufacturing logistics, 2006
  - Course on supply chain coordination, 2005-2008
  - Course on advanced forecasting, 2005
  - Elective (Non credit) on Game Theory for the Supply Chain Specialist, 2006-2008
- Harvard University, Global Health Supply Chains, Exec Ed Program on Global Health, Global Health Delivery Project, Harvard University, July 2009, July 2010, June 2011, July 2013
- IE Business School, Madrid- MBA Core course on supply chain management, 2007 and 2008
- IE Business School, Madrid- Exec Ed Program on supply chain management, 2006
- Tsukuba University, Japan, Sessions in MBA core course on supply chain management, 2008
- Session on Drug Distribution in Developing Countries, Principles and Practice of Drug Development, MIT, 2010
- Session on Drug Distribution in Developing Countries, Principles and Practice of Drug Development, Center for Neuroscience and Cell Biology, MIT-Portugal course University of Coimbra, 2009, 2010
- Universidad Pablo de Olavide, Seville, Sessions in MBA core course on supply chain management, 2009, 2010, 2011, 2013
- Universidad de Oviedo, summer course on reverse logistics, 2008, 2009

## **PhD STUDENTS SUPERVISED**

- Amir B Samii, 2009. Position upon graduation: Vlerick Leuven Gent Management School, Belgium
- Eirini Spiliotopoulou, 2013 (part of the committee), Position upon graduation: European Business School, Frankfurt

## **MASTER's THESIS SUPERVISED**

- Ania Vargas 2009. Regional Distribution Hubs for HIV/AIDS Drugs Supply in Africa: A Cost-Benefit Analysis (MIT-Zaragoza Best Thesis Award 2009)

- Christopher C. Carr, James D. Jallah .2008. Improving Spatial Accessibility to Antiretroviral Treatments for HIV/AIDS (MIT-Zaragoza Best Thesis Award 2008)
- Gemma Berenguer 2007. Impact of Due-Date Requirements on Capacity Management. (MIT-Zaragoza Best Thesis Award 2007)
- Virginia Falcón 2008. Proactive Management of Drug Recalls in Resource-Limited Settings: Implementation of Statistical Sampling Methods in a Pharmacovigilance Study
- May Ongola 2008. Forecasting Global Demand for New Generation Malaria Drugs
- Jessica Yip 2008. Estimating the Benefits of Framework Contracting in Public Health Commodity Purchasing.
- David Williams 2005. Structure, Risks and Coordination in the US Influenza Vaccine Supply Chain

## KEYNOTES

- Strategies for Success in Emerging Markets, Executive Forum for Life Sciences Supply Chain Professionals, Philadelphia, Oct 8 2012
- Perspectives on Vaccine Pricing, World Vaccine Congress, Washington DC 2012, 10-13 Apr 2012
- Traceability in the Pharmaceutical Supply Chain, USP Workshop on Supply Chain Integrity, May 22–23, 2012, Rockville, Maryland
- Improving Global Health and Saving Lives, One Operations Research Model at a time. Operations Research Group, University of Calgary, Nov 26, 2012Pharmaceutical Supply Chains In The Developing World, USP Invited Speaker Series, April 10, 2012, Rockville, Maryland
- Improving Health in Africa with More Effective Distribution Networks, AFRICOM, Rotterdam, March 4, 2010
- Pharmaceutical Distribution in Africa, *Corporate Council on Africa US-Africa Summit*, Sep 29-Oct 1, 2009 Washington, DC
- Saving Lives and Improving Health Through Better Supply Chains, Key Address, *CSCMP Annual Global Conference* Chicago, IL, Sep 22, 2009
- Mobile Phones and Access to Medicines, m-Health Summit, Washington, DC, Nov 9, 2010
- Improving Health in the World and Saving Lives with More Effective Supply Chains, Key Address, Sustainability Gala, Netherlands, June 2, 2010
- Improving Health in the World and Saving Lives with More Effective Supply Chains, Key Address, Líderes de la Red de Valor 2010, Bogota, May 5, 2010
- Forecasting ACT Demand, WHO-MMV Artemisinin Meeting, Mumbai, India, Sep 28-30, 2009
- Access to ACTs, Drug Resistance and AMFm, *Commonwealth Pharmacists Meeting*, Accra, Ghana, Aug 5-8,2009
- Pharmaceutical Procurement Demystified- Role of Private Sector Supply Chain, *World Bank Human Development Learning Forum*, Washington, DC, Nov 2008
- Making the Pharmaceutical Market Work for the Poor, *Medicines Transparency Alliance Launch Address*, May 15 2008, DFID, London
- Improving Access to Medicines with Better Supply Chains, *Keynote, Future of Logistics Conference, Hannover*, May 26, 2008
- The Global Chemical Supply Chain in 2020. *Key-note address, European Chemical Logistics Conference*, Dusseldorf, April 2007.
- The Global Chemical Supply Chain in 2020. *Key-note address- BASF Supply Chain Meet*, Ludwigshafen, April 2007.
- A Risky Business: Savings Lives Through Better Demand Forecasting. *Global Health Council Meet*, Washington, DC, May 2007.
- Price Controls and the Medicines Supply Chain, *National Pharmaceutical Pricing Authority of India*, New Delhi, April 2008
- Sourcing from India- Issues and Perspectives. Invited Speaker, Airbus and EADS Procurement Managers Workshop, September 2006.
- Barriers to Collaborative Forecasting. *European Supply Chain and Logistics Conference*, Amsterdam 2006

## OTHER RESEARCH TALKS

- Subsidizing the Distribution Channel for Products with Positive Externalities. *INFORMS Healthcare Conference*, Montreal , Canada, June 2011
- Improvements to the Public Distribution of Essential Medicines in Africa: The Case of Zambia, *INFORMS Healthcare Conference*, Montreal , Canada, June 2011 (presented by co-author Ngai-Hang Leung)
- Designing and Conducting Large-Scale Randomized Experiments to Understand Health Care Delivery in Developing Countries, Special Tutorial Session, *INFORMS Healthcare Conference*, Montreal , Canada, June 2011
- Subsidizing the Distribution Channel: Donor Funding to Improve the Availability of Products with Positive Externalities; *M&SOM -Supply Chain Management SIG 2011 Conference*, Ann Arbor, MI, June 2011. (presented by co-author Terry Taylor)
- Multiple First-line Treatments (MFT): why are they critical and how can they be implemented? *7th European Congress on Tropical Medicine & International Health*, October 2011
- The functioning of pharmaceutical supply chains in developing countries: the example of antibiotics. *7th European Congress on Tropical Medicine & International Health*, October 2011
- The Impact of Mobile on the Pharmaceutical Industry: Supply Chain to Compliance, *2011 m-Health Summit*, Washington DC, Dec 2011
- Determining best practices to improve social franchise service delivery in developing countries, *Rockefeller Center at Bellagio*, Italy, Sep 16-19, 2009
- Towards a Socially Optimal Drug Assortment: Comparing the Supply Chain & Drug Resistance Implications of Increased Drug Variety in a Given Population. *M&SOM Conference*, Ann Arbor Michigan June 2011 (poster session by co-author)
- Supply chains for Social Franchises in Health, *First Global Conference on Social Franchising*, Mombasa, Kenya, Nov 9-11, 2-11
- Designing and Conducting Large-Scale Randomized Experiments to Understand Health Care Delivery in Developing Countries. *CIBER International Operations Management Consortium Meeting* ,Purdue University, Sep 22-24, 2011
- Pricing, Market Structure and Production in Developing Country Pharmaceutical Markets, *8th World Congress on Health Economics*, Toronto, July 2011
- Saving Lives and Improving Global Health through Supply Chain Research, *University of Southern California*, Jan, 2010
- Operational Challenges in Implementing Multiple First-line Therapies on in Resource Poor Settings, *Multilateral Initiative on Malaria (MIM)*, Nairobi, Kenya, Nov 1-3 2009
- Pharmaceutical Distribution and Retailing in Africa, *Corporate Council on Africa- US Africa Health Summit*, Washington, DC, Nov 2008
- Modeling End Patient Pass-Through Rates for a Global Subsidy for ACTs, iHEA, *7th World Congress on Health Economics*, Beijing, China, July 13, 2009
- Value for Money for Global Health Funding Agencies Working Group on April 26-27, 2012.
- Supply Chains for Malaria Medicines, *Supply Chain Thought Leaders Meeting*, Madrid-June 2008
- Global Health Supply Chains, *Supply Chain Thought Leaders Meeting*, Costa Rica, July 2009
- Saving Lives and Improving Global Health with Better Supply Chains, University of Pablo Olavide, Seville, Spain
- Keynote Speaker, Global Health Supply Chains, Health and Humanitarian Logistics Meeting, Hamburg 2011

- Setting up distribution models to maximize reach in sub-Saharan Africa, 11th Annual LogiPharma, April 24th – 26th 2012, , Geneva
- Supply Chain Security Seminar, May 1-2,2012, Wilmington, DE.
- Price Controls and Medicines the Supply Chain, *WHO Advanced Technical Briefing*, New Delhi, Nov 2008
- Growth in Emerging Markets: Pricing, Access and the Role of the Supply Chain 12th Annual LogiPharma, April 24th – 26th 2013, , Geneva
- Health Product Distribution Channels in Low Income Countries, Stanford Value Chain Innovation Forum, Stanford University, May 15, 2013
- Improving the Supply Chains for Medicines and Health Products, Impact Evidence and Action to Save Lives in Nigeria, May 7-10, 2013, Uyo, Nigeria
- Supply chains to serve customers at the base of the pyramid. Logistics Summit, Mexico, April 2013
- Shaping markets for health products through global policy interventions, Global Education Partnership Consultative Meeting on a “Books Fund”, Feb 21, 2013
- Reshaping health product supply chains to save lives, Vlerick Supply Chain Management Conference Dec 10,2012, Ghent
- Pricing and Distribution Strategies for Growth and Improving Access, Merck Serono Access to Medicines Workshop, Geneva, Nov 2012
- Smarter Healthcare Supply Chains for Serving Patients, World Summit on Innovation & Entrepreneurship, Sep 28, 2012, Boston, MA,
- Supply Chain for MDR-TB Medicines: Challenges and Ideas for Improvement, IOM-MDR-TB Supply Chain Workshop, Washington DC, July 31-Aug 1, 2012
- Strategic priorities for creating a healthier supply chain for vaccines, Special Seminar for GAVI, Aug 17, 2012
- Improving Access to Medicines with Better Supply Chains, CSCMP 2012, Atlanta, GA
- Improving the Supply Chains for Medicines and Health Products, World Bank Development Impact Evaluation Initiative Workshop, Dec 10-14, 2012, CapeTown
- Designing Supply Chains to Reach Customers at the Base of the Pyramid, Universidad Pablo de Olavide Seville, Jan 29, 2013

## WORKING PAPERS

- J L. Cohen, P Yadav, C Moucheraud, S Alphs, P Larson, J Arkedis, J Massaga, O Sabot. Do Factory-Gate Subsidies on Artemisinin Combination Therapy for Malaria Increase Household Use?: Evidence from a Repeated Cross-Sectional Study in Remote Regions of Tanzania
- T Taylor and P. Yadav. Subsidizing the Distribution Channel: Donor Funding to Improve the Availability of Products with Benefit Externalities.
- Examining the Role of CD4 Diagnostics in Reducing the Burden of HIV/AIDS in Resource-Limited Developing Countries. with M. Wagner and S. Finkelstein ,
- Yadav, P., C.P Schmidt. “Buyback Contracts and Incentives for Forecasting in a Manufacturer Retailer Channel”.
- J. Gallien, Z. Leung, A. Chen and P. Yadav. The Impact of Min/Max Ordering Rules on Malaria Drug Stock-outs in Sub-Saharan Africa: Lessons from a Field Experiment in Zambia
- J. Gallien, Z. Leung, R. Davroux and P. Yadav. Design and Evaluation of an Inventory Control System for the Public Distribution of Essential Drugs in Zambia
- J Friedman, M. Vledder, M. Sjoblom and P. Yadav. Improving Patient Access to Malaria and other Essential Medicines in Zambia: Results from a Large Scale Randomized Field Trial