RAJ DESAI

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EDUCATIONAL BACKGROUND

University of Florida, Gainesville, FL, USA
Ph.D. Pharmaceutical Outcomes and Policy — Expected December 2021

St. John's University, NY, USA
M.S. Pharmacy Administration — July 2017
Thesis title: "The Effects of Medication Nonadherence and Comorbidity on Health Resource Utilization in Schizophrenia".

Institute of Chemical Technology, Mumbai, India
Bachelor of Pharmacy — June 2015

PROFESSIONAL EXPERIENCE

University of Florida, Gainesville, Florida — August 2017-Present
Graduate Research Assistant

- Conducting research in the therapeutic areas of cancer, pain, mental health, cardiovascular and other disorders by acquiring data from secondary sources and maintaining databases (IBM MarketScan, PharMetrics Plus, United States Renal Data System, SEER Medicare, Medicare, and Electronic Health Records), performing data queries, statistical analyses, and drafting manuscripts

Vertex Pharmaceuticals, Boston, Massachusetts — May 2019-August 2019
Real World Evidence Summer Intern

- Conducted systematic reviews and consolidated evidence on the global epidemiology of acute pain among other neurological conditions to inform commercial viability of assets under development
- Conducted administrative claims data analyses to characterize:
    - Treatment and health resource utilization patterns to inform clinical development and commercialization strategies for chronic pain agents under development
    - Epidemiology, aspects of the patient journey, healthcare utilization and cost of care analyses to inform assessments of the commercial viability of potential assets being considered by business development
- Developed hands on experience with conducting claims database analyses using the Amazon RedShift data warehouse including SQL based tools to analyze claims data in a cloud computing platform
- Participated in the Evidence Generation teams to develop and align on strategies to support launch and life cycle management of new products

UF Health, Department of Neuromedicine, Gainesville, Florida — May 2018-December 2018
Quality Improvement Graduate Intern

- Created data collection forms resulting in more efficient and accurate data collection
- Conducted data analysis of Electronic Health Records and collaborating on abstracts for projects to be presented in major forums
- Designed the "TeachBack study" where we successfully developed and implemented an adherence assessment of specialty-specific TeachBack protocol to ensure that providers effectively communicate with patients and family members

The ISPOR Oncology Health Economics Modeling Special Interest Group (SIG) — September 2016- Present
Student Researcher/Abstract Reviewer

- Participated in a team based systematic literature review for health economics modeling for oncology treatment using PRISMA guidelines. Reviewed over 5000 articles with the team consisting of students and Research Associates from the industry.

PROFESSIONAL SKILLS

- Research- Outcomes, Qualitative, Quantitative
- Qualitative and Quantitative Data Analysis
- SAS/SPSS/TreeAge/MS Excel/MS Power Point
- Primary Data Collection

PUBLICATIONS

Peer-Reviewed Articles

- **Desai, R**., Jo, A. & Marlow, N. M. Risk of medication non-adherence among Medicaid enrollees with fibromyalgia: Development of a validated risk prediction tool. *Pain Pract. Off. J. World Inst. Pain* (2018). doi:10.1111/papr.12743.
- **Desai, R**. & Nayak, R. Effects of Medication Nonadherence and Comorbidity on Health Resource Utilization in Schizophrenia. *J. Manag. Care Spec. Pharm.* **25**, 37–46 (2019).
- **Desai, R**. & Sonawane, K. Depression treatment use among stroke individuals with depression: A cross-sectional analysis of the Medical Expenditure Panel Survey. *Res. Soc. Adm. Pharm. RSAP* (2018). doi:10.1016/j.sapharm.2018.11.009
- **Desai, R**., Hong, Y. R. & Huo, J. Utilization of pain medications and its effect on quality of life, health care utilization and associated costs in individuals with chronic back pain. *Journal of Pain Research* (2019). doi:10.2147/JPR.S187144
- Huo, J., **Desai, R.**,Hong, YR., Turner, K., Mainous, AG, Bian, J. Use of Social Media in Health Communication: Findings From the Health Information National Trends Survey 2013, 2014, and 2017. *Cancer Control* **26**, 1073274819841442 (2019).
- **Desai, R**., Camacho, F., Tan, X., LeBaron, V., Blackhall, L., & Balkrishnan, R. (2019). Mental Health Comorbidities and Elevated Risk of Opioid Use in Elderly Breast Cancer Survivors Using Adjuvant Endocrine Treatments. *Journal of Oncology Practice*, JOP1800781. https://doi.org/10.1200/JOP.18.00781
- Renfro, C. P., Turner, K., **Desai, R**., Counts, J., Shea, C. M., & Ferreri, S. P. (2019). Implementation process for comprehensive medication review in the community pharmacy setting. *Journal of the American Pharmacists Association: JAPhA*. https://doi.org/10.1016/j.japh.2019.07.007
- Hong, YR., Huo, JH., **Desai, R.**, Cardel, M., Deshmukh, AA. Excess Costs and Economic Burden of Obesity-Associated Cancers in the United States. Value in Health(2019). doi:10.1016/j.jval.2019.07.004
- Dietrich E., **Desai R.**, Garg M., Park H., Smith SM. Reimbursement of ambulatory blood pressure monitoring in the US commercial insurance marketplace. J Clin Hypertens. 2019;00:1–10. https://doi.org/10.1111/jch.13772
- Smith, S., **Desai, R.**, Dietrich, E., Park, H. Trends in Ambulatory and Home Blood Pressure Monitoring Use for Confirmation of Hypertension or Resistant Hypertension Among the Commercially-Insured in the U.S., 2008-2017. Circulation: Cardiovascular Quality and Outcomes. In review

Peer-Reviewed Abstracts

- **Desai R**, Marlow NM. Effect of medication non-adherence on healthcare resource utilization in patients with Fibromyalgia syndrome (FMS): A retrospective cohort study, *ISPOR, Baltimore, MD,May 2018*
- **Desai R**, Nayak R. Non-adherence to antipsychotics and disease comorbidity: A double whammy in schizophrenia management, *ISPOR, Baltimore, MD,May 2018*
- **Desai R**, Nayak R. Evaluating the healthcare utilization and economic burden due to depression comorbidity in Dementia: A propensity score matched analysis, *AMCP,Boston,MA,April 2018*
- **Desai R**, Camacho F, Tan X, LeBaron V, Blackhall L, Balkrishnan R. Mental Health Comorbidities and Elevated Risk of Opioid Use in Elderly Breast Cancer Survivors using Adjuvant Endocrine Treatments, *ISPOR, Barcelona, Spain, November 2018*
- Salloum RG, Huo JH, **Desai R**, Jesse D, Thomas WG, Graham W. Tobacco and nicotine product use among cancer survivors in the United States: Population Assessment of Health and Tobacco Study, 2013-2014. *The 25th Annual Meeting of the Society for Research on Nicotine and Tobacco. San Francisco, California, February 2019*
- **Desai R**, Dietrich E, Park H, Garg M, Smith S. Reimbursement of Ambulatory Blood Pressure Monitoring in the commercial insurance marketplace: A claim analysis of Truven Marketscan, *ISPOR, New Orleans, May 2019*
- **Desai R**, Dietrich E, Park H, Garg M, Smith S. The Out of Pocket Burden of Ambulatory Blood Pressure Monitoring: A United States Perspective in the commercial Insurance Marketplace, *ISPOR, New Orleans, May 2019*
- **Desai R**, Camacho F, Balkrishnan R. Impact of Depression and Anxiety on Adherence to Adjuvant Endocrine Treatments in Elderly Breast Cancer Survivors**,** *ISPOR, New Orleans, May 2019*
- Smith, S, **Desai, R**, Dietrich, E, Park, H. Trends in Ambulatory and Home Blood Pressure Monitoring Use for Confirmation of Hypertension or Resistant Hypertension Among the Commercially-Insured in the U.S., 2008-2017, *Hypertension 2019 Scientific Sessions, New Orleans, September 2019*

PROFESSIONAL AWARDS

- **Graduate Student Publishing Award**, Department of Pharmaceutical Outcomes and Policy, University of Florida
- **Poster Finalist**: Effect of medication non-adherence on healthcare resource utilization in patients with Fibromyalgia syndrome (FMS): A retrospective cohort study, *ISPOR, Baltimore, MD, May 2018*
- **Poster Finalist***:* Mental Health Comorbidities and Elevated Risk of Opioid Use in Elderly Breast Cancer Survivors using Adjuvant Endocrine Treatments, *ISPOR, Barcelona, Spain, November 2018*
- **Poster Finalist***:* Impact of Depression and Anxiety on Adherence to Adjuvant Endocrine Treatments in Elderly Breast Cancer Survivors**,** *ISPOR, New Orleans, May 2019*
- **Travel Grant Award** by International Society of Pharmacoeconomics and Outcomes Research (ISPOR) for the 22nd Annual International Meeting, Boston. Awarded $1300 along with free registration and four free short courses for the conference.
- Innovation in Science Pursuit for Inspired Research (INSPIRE)- Awarded a 4-year scholarship to pursue a degree in Health Sciences by the State of Maharashtra, June 2011