RUPSHIKHA SEN, MHS

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Advanced degree candidate with experience in epidemiology and outcomes research

EDUCATION

Johns Hopkins Bloomberg School of Public Health (Delta Omega Alpha, Center Scholar, Master's Scholarship) Baltimore, MD Master of Science, Epidemiology May 2024

Key Coursework: Epidemiology, Biostatistics, Drug Development, Clinical Trials Management, U.S. Healthcare System, Health Economics Honors: Master's Tuition Scholarship, Center Scholar (Center for Drug Effectiveness Research), Doctoral grade in Comprehensive Exams Certificates: Public health economics, Pharmacoepidemiology & Drug Safety, Clinical Trials

Rajiv Gandhi University of Health Sciences

Karnataka, India Nov 2019

Bachelor of Dental Surgery Honors: Best outgoing student - All-rounder, University top 10 – Pharmacology & Oral and Maxillofacial Surgery

SKILLS

Data Analysis and Software:	RStudio, Python, STATA, QGIS, GitHub, Microsoft Office Suite & Teams
Claims Databases and EHR:	Optum, IQVIA PharMetrics, Flatiron CGDB and EHR, Epic EHR
Skills (Business & leadership):	Project and Clinical management, FDA regulatory laws, Clinical trial protocols
Skills (Research and Epidemiology):	Multivariate Regression models, Propensity Score Methods, Causal Inference, Study
	Design, Registry design, Observational Real World Data analysis, Literature reviews
Relevant Projects:	FDA submission for vaccine, Registry Design for vaccine, Clinical Trial Protocol

EXPERIENCE

AstraZeneca, Health Economics and Outcomes Research Intern (Oncology) | Gaithersburg, MD Jun 2024-Aug 2024

- Support the Lung Oncology team in conducting observational research (analysis of healthcare claims data and medical records, survey research) and development of cost-effectiveness and budget impact studies.
- Leveraging claims databases (Optum, IQVIA PharMetrics Plus, Flatiron CGDB and EHR) for evidence generation related to treatment patterns, testing patterns & prescription trends for US medical affairs and regulatory requirements.
- Develop epidemiological models to inform evidence base for approval by the FDA.
- Engage with internal and external experts and data resources to execute strategies and strengthen decision-making.

Implementation Science Research Group, Johns Hopkins University, Research Associate | Baltimore, MD Dec 2022-Present

- Systematic review of existing literature in HIV implementation outcomes to determine disparities in global research.
- Extraction of data for evidence synthesis supporting our hypothesis of lack of standardized outcomes definitions.
- Evaluate challenges of measuring pre-defined implementation outcomes and identification of sources of bias and error.

Department of Epidemiology, Johns Hopkins University, Research Associate | Baltimore, MD Dec 2022-Present

- Designed and implemented retrospective cohort study methods to use collated data for longitudinal analysis
- Analyzed real-world EHR data in RStudio for a target population of 1.2 million+ HIV infected individuals for long COVID
- Study design planning including appropriate use of epidemiological & regression methods for time-varying analysis

Johns Hopkins Graduate Consulting Club, Consultant (Director) | Baltimore, MD

Oct 2023-Dec 2023

Apr 2021-Aug 2022

- Conducting a comprehensive analysis encompassing both quantitative and qualitative factors to evaluate feasibility, estimate target population, and determine subgroups for reach; navigating limitations and regulatory barriers
- Evaluated FDA approval pathways such as 510k, expedited and LDT pathways
- Identified key therapeutic areas and strategized feasible timeline to collect economic benefit data for reimbursement

Indegene Ltd., Drug Safety Physician (Pfizer BNT162b2 vaccine) |Bengaluru, India

- Optimized drug report safety systems (Oracle ARGUS software) facilitating 3-fold increase in safety data turnover rate
- Evaluated adverse event reports to provide causality assessment for drug safety signal studies including serious events
- Collaborated with international stakeholders to ensure rigorous scientific data and adherence to regulatory authority guidelines (FDA, MHRA-UK, EMA and PMDA)

PROFICIENCIES

CERTIFICATES: a) Pharmacoepidemiology and Drug Safety b) Clinical trials c) Public Health Economics **MEMBERSHIPS**: JH Graduate Consulting Club, Student chapter for International Society of Pharmacoepidemiology