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SPECIAL THANKS

SUBMIT AN ARTICLE TO THE NEWSLETTER!
To submit an article for the next issue of our student newsletter, please contact the ISPOR Student Network at studentnetwork@ispor.org
Dear ISPOR Colleagues,

As we near the end of the 2023-24 academic year, I’d like to take a moment to reflect on all the great achievements we’ve seen from our student network so far. From hosting a webinar on “Communicating High Value in Scientific Publications” to organizing an informative discussion in Copenhagen on the convergence of real world evidence, health technology, and policy in healthcare decision making, we’ve seen our student leaders on the education and event planning committees put out fantastic content. Additionally, thanks to the efforts of our survey and evaluation team, our annual student interest survey was able to capture valuable insights on educational background and interests from nearly 200 HEOR-oriented students worldwide.

As outlined in my previous two letters, my aim for this year as your student network chair has been to ensure that our network’s committees and regional organizations are operating as efficiently as possible. Keeping in line with this theme of efficiency, as part of the committee restructure we implemented this year, we also established a new student network chair-elect position to help ensure smoother transitions from outgoing to incoming student network chairs moving forward. As such, I am excited to introduce Kanya Shah as our inaugural student network chair-elect, a role she officially assumed this January.

Over the last two years, Kanya has played an instrumental role in helping lead the student network, contributing to both event planning for ISPOR conferences and as a frequent writer for the student network’s “By the Numbers” column in Value & Outcomes Spotlight. We thank Kanya for her work thus far, and are excited to have her on board yet again as student network chair for 2024-25!

MOHIN CHANPURA, MS
Global Student Network Chair, ISPOR
Rutgers University, United States
Hello ISPOR students and colleagues!

I am so honored and excited for the opportunity to serve as the ISPOR Student Network Chair for the 2024-2025 term. Having been involved in the ISPOR Student Network since 2022 as co-chair of the Event Planning Committee, I have seen the great work that the ISPOR Student Network can accomplish, and I am excited to continue and expand our efforts. The community we’ve built and the resources we offer each other in the Student Network are absolutely invaluable to our current academics and future professional growth.

During my term, I am looking forward to continuing the strategic goals set by Mohin and past ISPOR Student Network Chairs of enhancing professional development, increasing engagement between students, and ensuring efficiency in our operations. Additionally, I hope to expand and facilitate cross-collaboration among students globally, allowing for networking and building relationships that may last the rest of our careers!

By way of introduction, I grew up in the Philadelphia / New Jersey area. I went to pharmacy school at The University of Rhode Island (URI) with the initial goal of practicing as a clinical pharmacist. However, as I gained clinical experience during pharmacy school, I realized how impactful economic and administrative factors are in patients achieving their health outcomes, and was drawn to the health economics and outcomes research (HEOR) field. After earning my PharmD, I decided to pursue HEOR and completed a double master’s in health outcomes and an MBA from URI. I am currently a PhD student at the University of Illinois in Chicago (UIC), Department of Pharmacy Systems, Outcomes, and Policy (PSOP). My research focuses on Pharmacoeconomics and Health Equity. Outside of school, I enjoy learning new dance styles, taking care of my plants, and being creative with handmade crafts. I would love to get to know you all and work with you over the next year, so please do reach out and connect!
In closing, I am looking forward to working with the ISPOR Student Network Advisor, ISPOR leadership team, committee chairs, committee members, and student chapters over this year. Ultimately, my hope is that we all benefit positively from our ISPOR experiences, so please do not hesitate to reach out with feedback or suggestions, as we are here to serve you! I cannot wait to meet and engage with as many of you as possible!

KANYA K. SHAH, PHARMD, MS, MBA (SHE/HER)

Global Student Network Chair-Elect, ISPOR
University of Illinois Chicago, College of Pharmacy
United States
ISPOR EUROPE 2023
Copenhagen, Denmark
As a young practitioner with more than ten years of research and practice experiences in global health, Jiyan Ma has been committed to promoting the R&D and access to global public goods for health that for long lacked market incentives. Her current work focuses on studying the mission-oriented innovation system for developing medical countermeasures for emerging infectious diseases, including the development of incentive and financing strategies. She has applied data-adaptive algorithms to pharmaceutical datasets to evaluate the expected outcome and likely development cost of current portfolio and calibrate the set of policy instruments against real-world evidence.

Mr Vincent Yan is a PhD candidate in pharmacoepidemiology at the University of Hong Kong. He is a pharmacist by training and obtained his Bachelor of Pharmacy degree with First Class Honours in 2018. After licensure as a registered pharmacist, he joined the Centre for Safe Medication Practice and Research. His research interest is comparing the safety and effectiveness of different treatment strategies, particularly in cardiovascular disease and mental health, using target trial emulation with electronic health records data. He is also interested in assessing drug utilization trends and cost-effectiveness of medications. His previous work on cost-effectiveness of intramuscular olanzapine for acute agitation contributed to the evidence to support its inclusion into local clinical management guidelines.
Ivan Yanev is a PhD student at McGill University (Montreal, Canada). Ivan is specializing in Health Economics and Outcomes Research under the supervision of Dr. Alice Dragomir. Prior to Ivan’s doctoral training, Ivan graduated from the pharmacoeconomic stream of the drug development graduate diploma, at the University of Montreal’s Faculty of Pharmacy and has obtained a master’s degree in Pharmaceutical Sciences, while specializing in Market Access (8-month internship). Ivan’s current doctorate training focuses on the health economics of the terminal stages of prostate cancer, a constantly evolving field that is in dire need of health-technology assessments. Through Ivan’s projects, Ivan have demonstrated the lack of academic cost-effectiveness analyses studying the novel treatments of advanced prostate cancer. Ivan’s research specializes in cost-effectiveness analyses, Markov models, Monte Carlo simulations, partitioned survival analyses, pharmacoepidemiology and systematic literature reviews.

Kentaro Hayashi
The University of Tokyo, Japan
Kentaro Hayashi is a pediatric surgeon who graduated from the University of Tokyo Faculty of Medicine. Through his work, he has identified several issues with healthcare quality, training, and work environment in Japanese pediatric surgery. He is passionate about improving the situation and has started studying health service research using real-world data at the graduate school. Additionally, he completed the University of Tokyo Biodesign Fellowship in 2021, supported by Stanford Biodesign. With his teammates, he co-founded HICKY, Inc., a startup that aims to develop an implantable device.
Muchandifunga Trust Muchadeyi stands out as an aspiring Health Economist, enriched by his profound Pharmacy background. He presently contributes as a Doctoral Researcher in Health Economics at the German Cancer Research Center in Heidelberg. Here, he spearheads health economic evaluations alongside cancer clinical trials. Trust delves into the economic complexities of prostate cancer screening strategies for Germany as he pursues an influential PhD at Heidelberg University. His exceptional academic endeavours at Umeå University did not go unnoticed; Trust was honoured with the "Korpen Veteranerna" Scholarship Award for his exemplary master’s thesis that focused on the determinants of healthcare expenditure in Tanzania. His notable research, particularly his work on quality appraisal in systematic literature reviews of studies eliciting health states utility values, along with modelling techniques in cost-effectiveness analysis of breast cancer screening, published in BMC Medical Research Methodology and International Journal of Cancer, underscore his dedication to advancing methodological research in health economics.
The ISPOR Roundtable had the opportunity to discuss with worldwide experts one of the hottest topics in HEOR: the convergence of real world evidence (RWE), health technology assessment (HTA), and policy in healthcare decisions. This event was a unique opportunity to engage with experts and peers, and meet some of the most sought-after experts in real world evidence!

The panel included Adam Brooke from The National Institute for Health and Care Excellence (NICE, UK), Catia Proenca from Alira Health (Switzerland), Eberechukwu Onukwugha from The University of Maryland School of Pharmacy (USA), and Sunny Sheth from Novo Nordisk (USA). Dominique Seo moderated the student roundtable. The main insights included understanding how HTA leverages RWE, such as assessing the impact of new drugs after they’ve entered the market, determining optimal drug dosages, evaluating disease prevalence and burden, and gauging efficacy using external control groups. Additionally, the discussion highlighted the Alira Health RWE Decision Alerts platform. Panelists emphasized the importance of data quality, stressing the need for early access data, documentation of methodological history, and the adoption of open-source frameworks.
STUDENT NETWORK WEBINAR

Missed a webinar?
Catch it on demand!
Revolutionizing Systematic Reviews: Harnessing the Power of AI

Open to all ISPOR Members and Non-members

LEARNING OBJECTIVES:
- Understand the current landscape, role and impact of AI in systematic reviews
- Evaluate state-of-the-art AI platforms for systematic reviews
- Implement AI tools to enhance efficiency, including automating tasks like literature screening and data extraction, comparing different AI tools, and strategizing to expedite the review process.

May 20, 2024
10:00 AM ET
Live Webinar

Register
The landscape of systematic reviews is undergoing profound transformation with the integration of Artificial Intelligence (AI). By automating tasks like literature screening and aiding in data extraction, AI not only speeds up the review process but also enhances the reliability and comprehensiveness of the evidence synthesis. As we explore this innovative frontier, the seamless integration of AI into systematic reviews reshapes standard practices and opens up new avenues for researchers, creating a more robust and informed knowledge base.

This webinar will provide a comprehensive overview of the current landscape of AI adoption in systematic reviews and showcase several state-of-the-art platforms revolutionizing the systematic review process.

- Professor James Thomas will discuss the use and potential of AI in systematic reviews, including its limitations and barriers to adoption. He will also consider the issue of trust and evaluation in new tools, and the importance of high-quality evaluations being essential for the field to benefit from the efficiencies now possible.
- Mr. Piet Hanegraaf will demonstrate the integration of automated search and GPT into a web application designed for living systematic reviews, showcasing how it amplifies efficiency and accuracy in literature searches and data extractions.
- Mr. Artur Nowak will present on how AI can expedite the process of systematic reviews across all stages, with a focus on how to speed up the data extraction process from text, tables, and plots.
IN CASE YOU MISSED THEM...

PAST FIRESIDE CHATS

1. Finding Sponsorship & Mentorship in the Workplace

2. Networking at Conferences
STUDENT INTEREST SURVEY
The ISPOR Student Interest survey is sent out annually to understand students’ current engagement with ISPOR and the ISPOR Student Network. The survey includes questions on demographics, engagement, barriers to engagement, growth opportunities, and competencies.

**Timeline:** Between August and September 2023, our Survey and Evaluation Committee members meticulously revised the survey from previous years to align with the evolving needs of our student network. The updated survey was then distributed globally to all ISPOR Student Network members via Survey Monkey, from October 15, 2023 and November 30, 2023.

**Reach:** Through targeted emails, strategic social media campaigns, and personal reminders during various events, the team ensured maximum outreach effort to reach students across the globe.

**Students participated**
These voices echoed from diverse corners of the globe: 44.7% were from Asia Pacific, 28% from North America, 18% from Europe, and the remainder from Latin America, the Middle East, and Africa.

**>50%**

**Pursuing Doctorate Degrees**
52.8% of participants expressed high or moderate levels of engagement with our network’s activities.

**Lower engagement primary perceived barriers:** time constraints and a need for increased awareness.

**Professional Development Interest**

- **75%** Presentation Skills
- **67%** Interview Skills
- **65%** Resume Writing Workshops
- **56%** Email Writing Workshops

**Future Direction**
Participants have voiced a clear desire for our upcoming events to feature a mix of student-led initiatives, alongside both informal and formal networking opportunities.

**Participants Professional Interests**
Professional development, economic evaluation, and health policy.
HELPFUL STUDENT INFORMATION
ISPOR COMMUNITIES

JOIN TODAY!

CONNECT WITH:
• Special Interest Groups
• Committees
• Student Network Leadership: email studentnetwork@ispor.org if you're not a student leader but would like to be involved!

REASONS TO JOIN
• Network and collaborate with HEOR colleagues globally
• Stay up-to-date on events and announcements
• Share ideas on discussion boards
• Volunteer opportunities

STUDENT NETWORK NEWSLETTER
HEOR Careers
ISPOR Career Center—The Job Site for HEOR Professionals

Create your profile!

- Upload your resume to be searchable by recruiters
- Set up job alerts

Click to set up now!

Fellowships & Internships

Learn about HEOR organizations that provide employment opportunities for students!

Access directory here!
Implications of Indication-Specific Value-Based Pricing of Multi-Indication Drugs

YAWEN JIANG ET. AL.,

Indication-Specific Value-Based Pricing (ISVBP) has gathered attention as a potential solution to the pricing challenges faced by multi-indication drugs. ISVBP aims to shape drug prices to each indication's specific value, theoretically optimizing the balance between cost and therapeutic benefit. However, the literature suggests caution in fully trusting ISVBP as a perfect solution. The current study, conducted within the framework of government-negotiated drug pricing, explored the welfare implications of ISVBP compared to single pricing models. Surprisingly, the findings indicate that ISVBP does not necessarily improve patient welfare. Further, in scenarios with varied value distributions among indications, ISVBP consistently resulted in a decrease in overall patient welfare. The implications are significant for healthcare systems globally, especially those relying on value-based negotiations for drug pricing. However, ISVBP may offer potential benefits such as improved patient access and efficient resource allocation, it is essential to proceed with caution during its implementation. Similarly, policymakers and stakeholders need to consider the ethical implications associated with ISVBP.

Additionally, it is recommended that further research exploring dynamic welfare implications and potential alternatives to ISVBP is needed. Understanding the complex interplay between drug pricing mechanisms and patient welfare, healthcare systems can make more informed decisions to ensure equitable access to essential medications while fostering innovation and sustainability. Thus, ISVBP holds potential as a mechanism to align drug prices with value, however, its potential to improve patient welfare remains uncertain. A careful evaluation of its implementation and consideration of alternative pricing frameworks are essential steps in navigating the complex landscape of pharmaceutical pricing.
The global battle against obesity intensifies with rapidly increasing cases across the globe. This rapidly increasing trend of obesity is now considered a society-wide and population-level issue intertwined with economic, health and environmental inequalities. This prompts a search for effective solutions beyond traditional methods. In this context, a drug named glucagon-like peptide receptor-1 (GLP-1) is seen as a potential revolutionary in combating obesity. The emergence of GLP-1, such as semaglutide and tirzepatide has given hope to the population. These drugs, especially semaglutide, with its once-a-week shot, have shown impressive weight loss benefits. This has led to more people wanting them, bringing hope to many struggling with obesity. However, the use of these drugs as transformative tools is difficult due to supply chain issues. Further, there are concerns regarding the long-term efficacy and side effects of GLP-1. Thus, experts are promoting a holistic approach emphasizing the combination of medication with health behaviour change like healthy eating, physical activity, and psychosocial support.

The landscape is further shaped by pivotal decisions made by healthcare institutions and payers. The University of Texas’s decision to halt coverage for GLP-1 underscores the pressing need to balance the promise of these drugs with financial sustainability and patient outcomes. Further research showing drug effects, patient compliance, health outcomes and effective methods for obesity management are still recommended. Programs such as LilyDirect provide disease management resources, independent healthcare providers, and a direct supply of medicine to help patients to easily access these treatments; however, the challenge of insurance coverage and finding appropriate healthcare providers is still unknown. Therefore, further research for policy decisions, and collaboration between stakeholders and health insurers, remains vital in unlocking the full potential of obesity drugs and mapping a path towards healthier, more equitable societies.
STUDENT CHAPTER
ANNUAL UPDATES

MARCH 2024

STUDENT NETWORK NEWSLETTER 23
58 student chapters have submitted their annual reports.

**Geographic Distribution**

- **50.0%** North America
- **31.0%** Asia Pacific
- **12.1%** Europe
- **3.5%** Middle East
- **1.7%** Africa
- **1.7%** Latin America

**Chapter Member Count**

- Between 10-24: 35.29%
- Between 25-49: 27.94%
- Between 50-74: 14.71%
- Less than 10: 4.41%
- 75-100: 17.65%

**Distribution of in-person and virtual events**

- In Person, Virtual: 50.0%
- In Person: 33.3%
- Virtual: 16.7%
**Types of Events Organized**

- In person scientific educational events
- Networking / Social events
- Professional development / career related events
- Joint events with another student chapter
- Webinars and virtual training
- Joint events with another society (eg, ISPE, AMCP, DIA)
- Volunteer / community service events
- Journal clubs / Book clubs
- Prospecting events
- Joint events with an ISPOR regional chapter

**Collaborations**

- **50.0%** Did not collaborate
- **17.2%** Yes, with an ISPOR Student Chapter
- **13.7%** Yes, with another Student Organization on campus
- **8.6%** Yes, with an ISPOR Regional Chapter
- **8.6%** Yes, with an ISPOR Student Chapter, Yes, with another Student Organization on campus
- **1.7%** Yes, with an ISPOR Student Chapter, Yes, with an ISPOR Regional Chapter
ISPOR ANNUAL 2024

May 5-8, 2024

Atlanta, Georgia
STUDENT NETWORK INFORMAL HANGOUT

Sunday, 5 May | 5:30 PM | Olympic Rings at the Centennial Olympic Park

What better way to start the conference than meeting with peers in a relaxed, informal event?

Come grab a drink or an appetizer and get to know other students and early career professionals attending ISPOR Annual, exchange ideas, and expand your network! This is an invaluable opportunity for students to connect with others in their field and build relationships that could lead to future success.

PANEL DISCUSSION AND ROUNDTABLE

Monday, 6 May | 1:30-2:30 PM

The ISPOR Roundtable returns bringing the opportunity to discuss with worldwide experts one of the hottest topics in HEOR: the Inflation Reduction Act (IRA). This event is a unique opportunity to ask all your questions, engage with experts and peers, and meet some of the most sought-after experts in real world evidence! The speakers will engage in a discussion both with each other and with the audience through a question-and-answer format. This talk will educate not only students and new professionals, but also all other members of ISPOR attending the conference interested in the expected impacts of the IRA.
ISPOR STUDENT NETWORK EVENTS
@ISPORAnnual

ISPOR 2024
May 5-8, 2024
In-person and Virtual Conference
#ISPORAnnual

IN-PERSON Student Roundtable
Atlanta, Georgia

📅 May 6th, 2024 (Monday)
⏰ 1:30 - 2:30 (EST)
📍 TBD

UNPACKING THE INFLATION REDUCTION ACT (IRA):
STATUS AND IMPLICATIONS BEYOND DRUG PRICING

PANELISTS

Joey Mattingly
Professor, University of Utah College of Pharmacy [advisor to the Center of Medicare & Medicaid Services (CMS)]

Christoph Glaetzer
Chief Global Value & Access Officer, Johnson & Johnson

Peter Neumann
Director, Center for the Evaluation of Value & Risk in Health at the Institute Clinical Research & Health Policy Studies Professor, Tufts University School of Medicine

Julie Patterson
Senior Director of Research, National Pharmaceutical Counsel

ISPOR Student Network Event Planning Committee

ISPOR Student Network
Improving healthcare decisions
ISPOR STUDENT NETWORK EVENTS
@ISPORAnnual

STUDENT NETWORKING RECEPTION

Monday, 6 May | 2:30-3:15 PM

The Student Networking Reception offers an informal setting for students to connect with professionals and peers in their field, fostering meaningful connections and opportunities for collaboration. This reception promptly follows the student network roundtable, providing a seamless transition for further discussions and to continue networking.

STUDENT AND FACULTY BOOTH EVENT

Monday, 6 May | 3:15-4:00 PM

Stop by the ISPOR Student Network and Faculty booth event to chat, and network with leaders and members of the ISPOR Student Network and New Professional Network, including several past student network chairs.

STUDENT RESEARCH SPOTLIGHT

Tuesday, 7 May | 11:30-12:15 PM

The student Research Spotlight features some of the best student submissions as selected by the ISPOR organization committee. Come, meet and listen to our five presenters summarizing their research! Don’t miss the chance to learn more about some of the most exciting research at the conference!
ISPOR SHORT COURSES

IN-PERSON @

ISPOR ANNUAL 2024

• **May 5:** Causal Inference and Causal Diagrams in Big, Real-World Observational Data and Pragmatic Trials
• **May 5:** Handling Uncertainty in Health Technology Assessment Processes
• **May 5:** Valuation of Innovative Drugs
• **May 5:** Estimating Health-State Utility for Economic Models in Clinical Trials and Real-World Studies
• **May 5:** Network Meta-Analysis in Relative Effectiveness Research
• **May 5:** Valuing Health: The Generalized Risk Adjusted Cost-Effectiveness (GRACE) Model

• **May 5:** Introduction to Machine Learning Methods
• **May 5:** Advanced Patient-Reported Outcomes
• **May 5:** Introduction to Health Technology Assessment
• **May 5:** A Health Economics Approach to US Value Assessment Frameworks
• **May 5:** Developing Decision-Grade Real-World Evidence
• **May 5:** Applied Cost-Effectiveness Modeling with R
UPCOMING COURSES
VIRTUAL

- **April 10-11**: Budget Impact Analysis I: A 6-Step Approach- Virtual
- **April 17-18**: Learning and Applying Discrete Event Simulation- Virtual
- **June 5-6**: Digital Real-World Evidence Generation Approaches in Rare Diseases and Oncology- Virtual
- **June 26-27**: Leveraging Clinical Outcome Assessment (COA) Data to Maximize the Value of New Treatments Beyond Labeling- Virtual

AND MANY MORE!
How to get involved

ISPOR
Are you an ISPOR member yet? Stay up to date on conferences, short courses, communities, and research by becoming a member! Here is the link on ISPOR memberships. It’s never too late to get involved!

ISPOR Student Network
Reach out to studentnetwork@ispor.org to be added to the ISPOR Community for student leaders. The ISPOR Student Network also has 7 committees that student members can serve on!

Local ISPOR Student Chapter
Contact your local chapter to learn about upcoming activities and chapter elections. Consider running for an officer position!
Questions?
studentnetwork@isporn.org