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**Special Thanks:**

- **Koen Degeling**, MSc, ISPOR Student Network Chair, University of Twente, the Netherlands
- **Zeba Khan**, RPh, PhD, ISPOR Board of Directors; ISPOR Student Network Advisor; Vice President, Celgene Corporation, Summit, NJ, USA
- **Jason Cohen**, MPP, Manager, Member Services (Students & New Professionals) ISPOR, Lawrenceville, NJ, USA
- **Stacey Mauriello**

Submit an Article!

To submit an article for the next issue of our student newsletter, please contact the ISPOR Student Publications Committee at studentnetwork@ispor.org
STUDENT CHAPTER UPDATES

NORTH AMERICA
Help Heal MS Bake Sale: Houston
Organizer: ISPOR University of Houston Student Chapter

- Students teamed together during Fall 2018 to bring awareness and raise funds to support MS research through their participation in MS Walk Houston event.

- A team of students were actively involved in seeking donations to achieve a fundraising goal of $1,000 dollars.

- In addition, a bake sale event was also organized by the students.

Around $1,100 dollars (all the proceeds from bake sale along with raised funds) were donated to the National Multiple Sclerosis Society.

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Houston Medication Safety Symposium 2018

**Organizer:** Hosted by UT Health McGovern Medical School and University of Houston College of Pharmacy

**Speakers:** Dr. Mellar Davis, Dr. Mary Lynn McPherson, Dr. Jerry Gurwitz and Dr. Paula Rochon

**Brief Details:**
- This was an “open to all” event and concentrated on reducing the prescription burden and misuse
- Students in the ISPOR University of Houston-chapter assisted in the logistics of the event

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STUDENTS’ INTERNSHIP EXPERIENCES:

Qingqing Xu:
“My internship at AbbVie started in June last year and lasted for three months. This internship has enabled me to gain deeper insights on the value proposition of pharmaceutical products, further develop database analysis skills, and learn new software tools for future research work. Moreover, I learned a lot from and developed friendship with my colleagues and peer interns. The internship at AbbVie was truly valuable for my future professional development.”

Aisha Vadhariya:
“During the semester of 2018, I spent 10 weeks at Regeneron Pharmaceuticals Inc., in the Health Economics and Outcomes Research team under Medical Affairs division. I participated in meetings specific to HEOR and Medical Affairs but also larger groups to understand both clinical and commercial aspects of a pharmaceutical product. Everyone in the department was approachable and always ready to help, providing a holistic invaluable experience.”

Swarnava Sanyal:
“I spent the past summer as a commercial intern in the market access team at the Brisbane commercial HQ. I feel my didactic and research experience gained through my current PhD program and my earlier research and corporate consulting experience helped to acquire this internship where I gained a good amount of experience in outcomes research and market access while working for the core commercial team in a niche bio-pharmaceutical firm.”

Sanika Rege:
“I had the amazing opportunity to join AbbVie as an HEOR Graduate Experiential Intern in the HCV therapeutic area during Summer 2018. The opportunity to work on independent projects, flexible work environment, involvement of interns in most of the activities, and a structured internship experience made working at AbbVie extremely rewarding. The internship has been pivotal in shaping me as an individual and I am sure that it will help me in my career trajectory.”
Rutgers University
USA

General Interest Meeting And Get To Know ISPOR Kahoot Game

- Our chapter president and president-elect held a prospecting event in order to raise awareness of ISPOR and increase membership.

- After a brief information session, attendees played an online trivia game, Kahoot, with questions such as: what does ISPOR stand for, how much are dues, and other topical pharma news questions.

Dual Degree Information Sessions: PharmD/MBA

Speakers: Romy Bury, Riham Elshazli, Ruchi Parikh

Key Learning / Brief Detail:
Speakers shared their experiences as a PharmD student, an MBA student, and as a working professional with attendees.

ISPOR and AMCP Etiquette Dinner

Speakers: Dr. Laura Pizzi and Jason Cohen

Key Learnings / Brief Details:
- Students were able to learn more information about how to behave in a business casual dinner/reception setting.
- Invited speakers shared their experiences of etiquette faux-pas and general do's and don'ts of how to behave as professionals.

I learned more in one hour about how to get involved in the pharmaceutical industry than in my Industry elective all semester long.

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How To Get Involved In Student Research?

Speakers/Organizer: Shivani Gupta, Siddharth Jain, Drym Oh, Bernice Lee

Key Learnings/Brief Details:

- We held a student panel of fifth year pharmacy students who have been involved in research for the last five years of their degree program.
- Interested students were able to ask for advice on how to get started, how to balance research with academics and work, and even ask for specific professors who aligned with student research interests.

Pharmacy Spring Involvement Fair

Key Learnings/Brief Details:

- ISPOR members spoke about the organization and recruited interested pharmacy students.
- Played a “Drug or Pokemon” game for candy prizes.
Lunch and Talk: How does a pharmaceutical manufacturer convince payers that the company’s products are worth the money?

Speakers: Kyle Downey. PharmD, MS, Associate Director of West Managed Care Liaisons for U.S. Medical Affairs, Genentech, US.

Key Learnings/Details:
- Dr. Downey was also the speaker for Academic Health Center Seminar, “Value Frameworks for Pharmaceuticals” and prior to the seminar, our chapter hosted a lunch event with him for informal discussion on practical aspects of drug pricing negotiation in managed care decisions.
- Topics: impacts of economic modeling in actual payor decision making in the US, and the research-practice gaps between HEOR and organizational decision making.

Graduate seminar- Real World Data Analytics

Speakers/Organizer: Dongmu Zhang, PhD, Director, Epidemiology Data Analytics, AbbVie, US

Key Learnings/Brief Details:
- Our chapter co-hosted an educational seminar with Social and Administrative Pharmacy graduate program.
- Dr. Zhang provided an overview of various types of RWD and the differences in data structure, analytic approaches, and applications as per the research questions and study context.

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Seminar- Scientific fraud, misconduct and abuse of human subjects in clinical trials

Speakers/Organizer: Carl Elliott, MD, PhD, Professor, Center for Bioethics, University of Minnesota, US

Key Learnings/Brief Details:

- ISPOR and American Association of Pharmaceutical Scientists (AAPS) student chapters co-hosted a seminar, sponsored through the College of Pharmacy Graduate Education Office.
- The speaker Dr. Carl Elliott is a well-known bioethicist, especially for his advocacy for thorough investigation of a patient’s suicide while participating in a clinical trial at the University of Minnesota.
- Dr. Elliott provided an overview of scientific fraud and misconduct examples in clinical trials, especially in clinical studies involving psychiatric drugs.
- He raised the audience’s awareness on this important bioethical issue, and provided his insight on its implications for academic researchers and healthcare professionals to ensure patient protection.
RX Partnership Fundraising Event: Community service

**Speakers/Organizer:** VCU-ISPOR chapter

**Key Learnings/Brief Details:**
- Rx Partnership is a public/private partnership which exists to increase access to medication for Virginia’s vulnerable populations and serve as a resource to the organizations that support these populations.
- VCU ISPOR chapter partnered with RX Partnership and initiated selling of VCU pennants to students and faculty at VCU school of pharmacy in order to raise funds which would be directed to RX partnership.

Methods in HEOR: Educational for other Students

**Speakers/Organizer:** Vasco Pontinha, Elena Fernandez, Purva Parab, PhD students at VCU

**Key Learnings/Brief Details:**
- Graduate students that are a part of VCU ISPOR chapter have also been engaged in arranging seminars for others where each student presents on one specific method used in HEOR.
- So far, Vasco has presented on Budget Impact Analysis, Elena has presented on Survival Analysis whereas Purva has presented on Missing Data Imputation. These have been very helpful for other students and we continue to keep this trend going.
Seminar and Demonstration of hēRo3 Health Economics Modeling Platform

Speakers/Organizer: Dr. Gerry Oster, Jordan Amdahl, and Chad Rose, Policy Analysis Inc (PAI)

Key Learnings/Brief Details:
• Our chapter members had the opportunity to meet in person with the creators of the hēRo3 health economics modeling platform.

• The presenters visited the Boston campus from their Policy Analysis Inc (PAI) offices in neighboring Brookline, MA.

• The experts from PAI gave an overview of the platform and demonstrated its various applications and capabilities.

Produce Distribution in Mission Hill Neighborhood of Boston- Volunteering

Key Learnings/Brief Details:
• Our chapter members volunteered their time the afternoon of March 27, 2019 while assembling bags of fresh fruits and vegetables to be distributed to our neighbors in Mission Hill.

• This community outreach activity helped strengthen the relationship between the student chapter and the community which is adjacent to our campus.

• The volunteering initiative supports the local food economy and underserved populations’ access to fresh produce.

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Networking and Professional Development Activity - Conversation with Pharmaceutical Economics Alumni Working in HEOR

Speakers/Organizer: Adnan Alsumali PhD, Shruti Nambiar PhD, Bhagyashree Oak PhD, Kelicia Daniels MS, James Amamoo MS

Key Learnings/Brief Details:
- Chapter members and other graduate students were invited to engage in a conversation with five recent alumni from the Pharmaceutical Economics and Policy program at MCPHS University.
- Students learnt about alumni’s experiences entering professional life in the Health Economics and Outcomes Research (HEOR) field and had the opportunity to have their questions answered.
- The event took place on the Boston campus the evening of April 10, 2019.
ISPOR Webinar Watching Party

**Speakers/Organizer:** Annette Champion, Healthcare Research Insights, Inc

**Key Learnings/Brief Details:**
- Our chapter held a webinar watching party about “Patient-reported outcomes (PROs)”. Food and drinks were served.
- Through the webinar, we learned about the role of PROs in clinical drug development from the HEOR perspective.
- We appreciate that ISPOR provides these webinars.

Seminar

**Speakers/Organizer:** Dr. Yushi Huang, Pharmaceutical Outcomes and Policy

**Key Learnings/Brief Details:**
- Dr. Huang introduced her recent study about cost-effectiveness studies of programmed cell death 1 receptors in patients with non-small-cell lung cancer.
- She shared the strategy how she did the literature review and the results from the cost-effectiveness studies.
The Art of Exploratory Data Analysis and Visualization

Speakers/Organizer: Kyle Null, PharmD PhD, Director of Outcomes Research & Data Science at Takeda Pharmaceuticals

Key Learnings/Brief Details:

- Dr. Null discussed the importance of “getting to know” the data before evaluating casual associations and why it is essential for generating hypotheses and new research.

- Dr. Null discussed the importance of communicating research to non-HEOR departments in the industry setting and external stakeholders.

- Dr. Null highlighted key concepts in presenting complex data into simple and visually intuitive graphs with various examples from his research.

- We also learned about various industry departments that HEOR professionals interact with and what important research findings they need.

- Dr. Null also provided some career advice and book recommendations regarding data exploration and visualization.

Dr. Null gave great insight on data visualization and professional development. I also look forward to reading the books he recommended regarding data visualization.
Hands-On Python Training

Speakers/Organizer: Dr. Nethra Sambamoorthi, President, CRMportals Inc. Real Time Intelligence & Institute of Analytics (USA), Big Data Intelligence

Key Learnings/Brief Details:

• Our chapter in collaboration with the Institute of Analytics arranged a 20-hour online Python programming training for health analytics.

• Dr. Nethra Sambamoorthi introduced the participants to various data management and analysis skills during each session. This course served as a great introduction to both fundamental programming concepts and the Python programming language. By the end, students felt comfortable programming and troubleshooting in Python. Similarities and differences between SAS and Python were discussed to highlight idiosyncrasies of both programming languages.

• To keep the training more relevant to health data analysis, students utilized publicly available health survey data for this training.

• Students were awarded a certificate of completion at the end of the training.

Python is one of the most popular programming language. The hands-on training session provided students with an opportunity to learn data management and analysis skills using Python. Dr. Sambamoorthi even shared some useful resources for students to go above and beyond what was taught during the training.

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Diversity Futsal Tournament

Brief Details:

- WVU ISPOR student members participated in the 2nd Annual Diversity Futsal Tournament which celebrated the diversity at WVU.

- Around 20 teams participated in the event.

- WVU ISPOR chapter members participated in the event along with students from School of Medicine and School of Dentistry. The event allowed us to socialize and network with students from other departments and schools of WVU.

Canoe Battleship

Brief Details:

- WVU-ISPOR student chapter participated in Canoe Battleship organized by WVU Student Recreation Center Aquatics Center. Two teams (4 players each) of WVU ISPOR chapter participated in the tournament along with 10 other teams.

- Each team was given three buckets and 1 shield to sink their opponents by throwing water into their boats. The game was fun for all who participated.

- We learned about the hidden talents of some of our members in this team building activity.
One Day Symposium at Discovery I Building

Speakers: Dr. Liheng Shi, Professor, Department of Health Policy and Management, University of Tulane
Dr. Jan Ostermann, Associate Professor, Department of Health Services Policy and Management, University of South Carolina

Brief Details:

- The meeting was anchored by the President-elect of ISPOR Student Chapter-Chamberline Ozigbu. The welcome address was delivered by the president of ISPOR Student Chapter Eric Chinaeke.
- Dr. Shi presented a speech on “Real-World Evidence in Evaluation of Health Outcomes and Disparity”, whereas Dr. Ostermann delivered a speech on “Estimating Patient Preference to Inform Treatment (ESPIRIT)”.
- We have recorded close to 35% increase in members with approximately 30 attendees for this event.
- Dr. Shi spoke about real world evidence and how he had excelled in his research using real world data to generate real world evidence. The event in general, was a time for us to rethink and redirect our career path based on our speaker’s experience in their field.
STUDENT CHAPTER UPDATES

EUROPE
HTA topic discussion on ‘The value of disease specific health economic guidelines’

Speaker: Dr. Mickaël Hiligsmann

Key Learnings/ Brief Details:

• On the 26th of March our chapter hosted an HTA topic discussion led by Dr. Mickaël Hiligsmann from Maastricht University, the Netherlands.

• Dr. Hiligsmann introduced the topic of disease specific health economic guidelines with an example in which he was involved himself, i.e. the development of recommendations, a “reference case”, for the conduct of economic evaluations in osteoporosis.

• The presentation was followed by an in-depth discussion on several aspects of disease specific health economic guidelines.

• Most of the participants agreed that guidances are relevant because they may increase the comparability of economic evaluations within the disease area.

• There was skepticism in how often this disease-specific guidance would be used since, from the participants’ point of view, health economic guidelines are not often followed by modelers. Different implementation strategies were then discussed, such as including this guidance as an element of the peer review process.

• Furthermore, the group recognized that a challenge arises from developing a disease specific guideline that is compatible with existing national health economic guidelines e.g. in the Netherlands or UK.

Questions that were addressed during this discussion were:

• Is there a value for disease specific health economic guidelines?

• What are the pros and cons of such guidelines?

• If you consider a value to develop such guidelines, how should we develop them? What should be included in such guidelines?
Brexit and the NHS

**Speakers/Organizer:** Sarah Roberts, PhD candidate and research assistant at King’s Health Economics

**Key Learnings/Brief Details:**

- Ever since the Brexit vote, there has been significant uncertainty around what leaving the EU will mean for the National Health Service. Our vice-president gave a very interesting and provoking talk about the effect of Brexit on the NHS.
- She covered the effects on staffs, resources, patients and policy makers, promoting a thoughtful discussion about this crucial aspect of our politics.
- Slides are available [here](#).

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Microsimulation of diagnostic testing for hereditary genetic cancer

**Speaker:** Lars Asphaug, PhD student at University of Oslo, visiting researcher at HERC University of Oxford

**Key Learnings/Brief Details:**

- Lars Asphaug provided an interesting presentation on diagnostic testing for hereditary genetic cancer built in Python.
- He covered the genetic risk of breast cancer, the difficulties of modeling diagnostic processes and showed the results of the microsimulation of Multigene Panel Testing using Norwegian data. In addition, he shared a link for his tutorial paper on how to make simple microsimulation models in Python.
- Slides are available [here](#).
STUDENT CHAPTER UPDATES

ASIA-PACIFIC
USM-ISPOR Student Chapter Annual Meeting

Key Learnings/Brief Details:
- Our chapter organized its annual meeting for 2019. The main agenda during the meeting was the presentation of 2018 activities, dissolution of the 2018 committee, appointment of the new committee for 2019 and planning of 2019 activities.

- Highlights of the meeting was the welcoming of the new incoming President Mr Sivaraj Raman & the committee.

USM-ISPOR Student Chapter Bimonthly Presentations

Speakers/Organizer: Miss Siti Fauziah Abu & Mr. Jaya Muneswarao

Key Learnings/ Brief Details:
- Our chapter hosted Miss Siti Fauziah Abu & Mr. Jaya Muneswarao who gave a presentation to the ISPOR-USM Student Chapter on the 23rd of January 2019.

- Miss Siti Fauziah provided an in-depth presentation on the “Approaches to estimate the cost of managing Adverse Drug Reactions” and Mr Jaya presented “What should we know about Randomized Controlled Trials (RCTs)?”

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USM-ISPOR Student Chapter Bimonthly Presentations

Speaker: Miss Rabia Hussain, PhD Candidates, Universiti Sains Malaysia

Key Learnings/ Brief Details:

- Our chapter hosted Miss Rabia Hussain who gave a presentation to the ISPOR-USM Student Chapter on the 5th of March 2019
- Miss Rabia shared with the chapter an overview on “Conducting surveys in pharmacy practice research”
- Highlights from the presentation included the strengths and limitations of different types of surveys and considerations before conducting one.
Guest Lecture on “Design Thinking”

Speaker: Mr. Anil D’Souza, Manager, HR, Manipal Academy of Higher Education

Key Learnings/ Brief Details:

In a highly interactive session of about two hours, Mr. D’Souza explained the concept through various case studies to the participants of the workshop. Through real life examples he also narrated as to how design thinking could help and benefit not only business organizations but even individuals in their life and career. Mr. D’Souza narrated the cases of successful Multinational and Indian companies that had “Design Thinking” at its core and how the concept helped them to be ahead of their competition. He then drew parallels to these cases and exhorted the participants to be oriented towards “Design Thinking” in their approach. The workshop was well appreciated by the participants.

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Awareness on Breast Cancer and Cervical Cancer

Organizer: Dr. D. S. Raju Naidu & Dr. A. Satish Kumar

Description:
Screening tests (Mammogram and Pap-smear) were performed and self-screening techniques were demonstrated for women of Guntur region from 9:00 A.M to 2:00 P.M. Students of Pharm-D and Doctors of radiotherapy actively participated. Motivational speech was given by Dr. D. S. Raju Naidu (Medical Superintend, Government General Hospital, Guntur) and Dr. A. Satish Kumar (Asst.Professor, Radiotherapy, GGH, Guntur).

Number of participants: 150
Screened Patients: 60
National conference on medical writing 2019

Speakers/Organizer: Dr. Lalit Kanodia, Mr. Sanjay Bagani, Dr. Pramil Tiwari

Key Learnings/Brief Details:

• Our chapter hosted Dr. Lalit Kanodia, who gave a talk on skillsets required for medical writing jobs.

• Mr. Sanjay Bagani, provided an in-depth presentation and informative demonstration on use of Medical Writing in Clinical Trial Transparency.

• Ms. Surabhi Bhaurya, medical writer at Xogene Solutions, provided hands-on-training on Clinical Trial Registration process.

• Furthermore, Dr. Pramil Tiwari developed a demonstration on the common errors in scientific writing and the ways to identify and rectify them.

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World Kidney Day 2019
NIPER Awareness Program

Speaker: Ishfaq Rashid

Key Learnings/ Brief Details:

- Ideas, facts and forecasts about the burden of kidney disease in India and worldwide were discussed.

- Key measures to keep kidney problems at bay were discussed.

“This awareness drive helped me to update my perceptions about kidney disease and its preventative measures.”
Poison Awareness Campaign

**Speaker:** Dr. K. Raghu

**Key Learnings/ Brief Details:**

- Provided awareness among students regarding poisons
Health and Medical Awareness Program

Organizer: Prof. Rama Rao Nadendla

Key Learnings/ Brief Details:

Description: Blood pressure and blood sugar levels were monitored for common public at the premises of Chalapathi pharmacy, Tadikonda, Guntur from 6:00 A.M to 9:00 A.M. Students of Pharm-D and members of ISPOR have rendered their services.

Activities Performed: Patient Counseling, BMI monitoring, Dietary suggestions, provided leaflets for various diseases.

Number of participants: 200
STUDENT CHAPTER UPDATES

AFRICA
ISPOR UNN WORKSHOP ON THE COUNSELING ROOM

Speakers/Organizer: Dr. Amorha Kosisochukwu, Senior Lecturer, Clinical Pharmacy and Pharmacy Administration Department, Faculty of Pharmacy, UNN

Key Learnings/Brief Details:
- The Do's and Don'ts of a counseling room.
- The role of Pharmacists in counseling patients

ISPOR UNN WORKSHOP ON CHILD PROTECTION AND PUBLIC HEALTH

Speakers/Organizer: Amb Alice Apejoye, Amb. Alice Apejoye : CEO Wit21hub(A social enterprise)

Key Learnings/Brief Details:
- Every Child has the right to survive and excel.
- One of the reasons for increased and incessant Child Abuse in Nigeria is the lack of policies against Child Abuse.
CHAPTER ACTIVITY GRANT UPDATES
Lunch and Learn: PharmD recruitment for the chapter

Speakers/Organizer:
Dr. Julie Patterson, Assistant Professor, Virginia Commonwealth University

Key Learnings/Brief Details:
- Dr. Patterson gave an overview of HEOR, technicalities of the field, implications to real world and the type of research that is conducted in the industry and academia.
- Attending PharmD students got a good background of the field and the chapter was successfully able to recruit more students interested in Pharmacoeconomics.

Lunch and Learn: Webinar for interested PharmD students

Speakers/Organizer: ISPOR Webinar

Key Learnings/Brief Details:
- Watched a webinar on ‘Decision making using Pharmacoeconomics and Health Outcomes’, provided lunch for the same.
- Helped the students gain an understanding of how HEOR is used in real world in making decisions.
- Students engaged in a discussion with the faculty and others after the webinar.
- Based on the positive feedback they received from participants after this first webinar session, chapter members have been involved with organizing such lunch and learn ISPOR webinar sessions, almost every alternate Thursday.
UMB ISPOR-AMCP Quiz Competition

Quiz Moderator: Dr. Julia Slejko (Chapter Faculty Advisor)

Key Learnings/Brief Details:
- Our chapter hosted a Quiz Competition in collaboration with the AMCP-Student Chapter at our university.
- Both PhD students and PharmD students participated; we had three teams, each consisting of two PhD students and one PharmD student.
- Our ISPOR chapter faculty advisor, Dr. Julia Slejko moderated the event.
- The quiz competition was divided into three rounds. Questions were based on HEOR and Managed Care topics.
- In addition to the quiz competition, the event served as a great platform for PharmD students to learn more about getting involved with ISPOR;
- We would like to thank ISPOR whose support through the chapter activity grant helped us organize this event.

Attending the ISPOR-AMCP quiz competition was a great stepping stone into learning more about HEOR and managed care related topics. As a first year PharmD student, there hasn’t been many opportunities to learn about these topics in our curriculum, so it was great to be a part of this light hearted & unique opportunity and I look forward to participating in further ISPOR activities.
UM ISPOR Student Chapter Lunch and Learn

Speakers/Organizer: Dr. Suvapun Bunniran, Research Consulting Lead, Humana Healthcare Research (HHR), Inc.

Key Learnings/Brief Details:

- Dr. Bunniran gave a talk to UM ISPOR chapter members entitled “An Overview of Integrated Data Sources Used in Real World Evidence (RWE) Studies at Humana”, on March 1, 2019 to students and faculty in the Department of Pharmacy Administration.

- She presented a comprehensive list of primary and secondary data sources used by Humana and how data from these sources are integrated to answer research questions assessing treatment patterns, healthcare utilization and patient experience among older adults.

- Dr. Bunniran also walked her audience through examples of studies conducted by Humana that used the various data sources.

- Attendees were especially thrilled to learn about studies using integrated data sources to identify patient needs and to implement targeted clinical and behavioral interventions addressing those needs.

- The presentation was insightful for both new and experienced researchers alike, providing them with an opportunity to understand the scope of RWE studies from a payer’s perspective and the methodologies employed to implement such studies on a large scale.
ISPOR – Midwest Regional Chapter Event: Educational and Networking Event

Speakers/Organizer: Bruce Lambert, Northwestern University; Andre Araujo, Eli Lilly and Company; Harry Smolen, MDM; David Van Brunt, VP, Abbvie; Ann Hartry, VP HEOR, Lundbeck; Surrey Walton, Associate Professor of Pharm Admin, UIC; Gebra Cuyún Carter, Eli Lilly and Company.

Key Learnings/Brief Details:

• Our chapter hosted various speakers from industry and academia for the members of the ISPOR Midwest Regional Chapter at Northwestern University, Chicago, IL on February 20th, 2019.

• Drs. Gebra Carter and Harry Smolen helped host and organize the event with the UIC-ISPOR student chapter.

• Dr. Bruce Lambert gave a presentation regarding how to present research in a concise and impactful manner to your audience.

• Dr. Andre Araujo gave a presentation on how value-based contracts are being implemented in the pharmaceutical industry.

• A career panel Q&A consisting of academic and industry HEOR professionals (Andre Araujo, Eli Lilly and Company; Harry Smolen, MDM; David Van Brunt, VP, Abbvie; Ann Hartry, VP HEOR, Lundbeck; Surrey Walton, Associate Professor of Pharm Admin) was held to help inform students about HEOR careers in academia and industry.

• Additionally, a networking event was held afterwards to further engage discussions between students and career panelists as well as the members of the ISPOR student leadership at the University of Illinois.
Effective Networking skills at Research Conferences for Students

**Speaker:** Carina Bektur, PhD candidate

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**Key Learnings/Brief Details:**

- Our chapter’s launch event took place at Bush house where students had opportunity to learn and practice effective networking skills. It was aimed at research students who felt they could benefit from guidance in knowing what to expect at their first research conference, including how to network effectively. The workshop was followed by ISPOR info session and wine & cheese reception.
- As a result 18 members signed for our chapter both from King’s and UCL.
- Our Vice President Sarah Roberts reported about this event on teleconference in February.
Innovative Methods in a Data Desert

Speakers: Dr. Conor Telieur, Dr. Ronan Mahon, Prof. Jan Sorensen and Dr. Stephen O’Neill

Key Learnings/Brief Details:

- Our chapter hosted an educational seminar centered around the theme of ‘Innovative methods in a data desert’ and invited four speakers from the HEOR community in Ireland to present. The four speakers came from a diverse background; health technology assessment, pharmaceutical industry and academia.
- We had over 50 positive responses to attend (students, health economists, academics, health technology assessors).
- Dr Conor Teljeur’s presentation focused on what a ‘data desert’ means in practical terms from a health technology assessment perspective. Two illustrative examples were presented to highlight potential strategies for dealing with a data desert.
- Dr Ronan Mahon gave a summary of the various proposed attributes of value in HTA and provided an assessment of each attribute’s validity given the objectives of a population benefit-maximizing decision-making framework. The potential impact implementing an ‘extended QALY’ framework could have on decision making and the opportunity costs involved was discussed.
- Prof Jan Sorensen described measurement of quality-adjusted life expectancies by county level in Ireland and the geographical variation that was observed. The relationship between investment in health and QALE in Ireland was also discussed.
- Dr Stephen O’Neill presented on machine learning ensemble methods that can be used to model health data. In particular, he discussed three ensemble methods (bagging, boosting and stacking) and used the example of predicting mortality following admission to the ICU to describe the utility of each.
- Presenters, attendees and chapter members enjoyed refreshments and networking in RCSI following the presentations.
- Funding for this event was kindly received through an ISPOR student chapter activity grant.
National Seminar on “Health Economics and Outcomes Research – an Indian Perspective”

**Speakers:** Dr. T. R. Jeyaraaj, Prof. G. P. Mohanta, Dr. S. Manikandan, Dr. Rajesh Balakrishnan, Mr. P. P. Rashid, Dr. K. G. Revikumar, Dr. D. Narayana, Dr. Amit Dang and Ms. Dimple Dang

**Key Details:**

- Our chapter organized a two Day National Seminar on Health Economics and Outcomes Research on 8th and 9th February 2019. We hosted speakers from various parts of the country whose presence enlightened the show.
- We had around 257 delegates from 20 various colleges across the country.
- Dr. T. R. Jeyaraaj provided a detailed presentation on Health Financing in Indian healthcare system which gave scenario on Indian Health care system. Prof. G. P. Mohanta took an interactive session on Pharmacoeconomics in Public Health which emphasized the importance of Pharmacoeconomics in today’s world. Dr. S. Manikandan gave a practical demonstration on Pharmacoeconomic Modelling which was enjoyed by all delegates.
- We had a webinar on Qualities required for a successful Pharmacy Career by Dr. Rajesh Balakrishnan from University of Virginia through skype which was motivating to all delegates.
- The second day began with the Session on the topic ‘Systematic Review and Meta-Analysis’ by Mr. P. P. Rashid where the students understood the importance of systematic review and Meta-Analysis.
- The second session taken by Dr. K. G. Revikumar was on the topic ‘Outcomes Research’. He urged the students to involve Pharmacoeconomic and Outcomes Research as a component in their Academic project.
- The next session was taken by Dr. D. Narayana, on the topic ‘Medical Insurance and Ayushmann Bharat Scheme’. He explained pros and cons in detail about the scheme and its practicality in implementing the scheme.
- The next session taken by CEO and Director of Marksman Healthcare Communications was about Pharmacoeconomics in Industrial perspective and Real World Data respectively which gave the delegates an in-depth insight about the Pharmacoeconomics in Industrial world.
- The session ended on a promising note with the Deputy Chief Drug Controller of India, Dr. S. Manikandan being the Chief Guest of Honor of the Valedictory function.
NEWLY APPROVED STUDENT CHAPTERS
TEHRAN UNIVERSITY OF MEDICAL SCIENCES (TUMS)
IRAN

President: S. Hossein Hajimiri
Vice-President: Elaheh Khorasani
Treasurer: Ali Homayouni
Secretary: Marzieh Nosrati

We are pleased to announce the formation of ISPOR-TUMS as the first student chapter in Iran. Since 2007, a systematic approach was implemented to develop HEOR in Iran's healthcare system through annual admission of 10 students for PhD program of Pharmacoeconomics and Pharmaceutical Administration in 2 medical universities.

Following years of efforts by Iran Regional Chapter for development of HEOR in country alongside with ISPOR policies, ISPOR-TUMS student chapter is established to inspire future leaders in HEOR through the engagement of students.

Refer to series of discussions in ISPOR Europe as well as further communications, TUMS PhD students found the chance to become more familiar with the idea of forming a Student Chapter.

For this purpose, a decision-making session was conducted on Monday, December 24, 2018, at Pharmacoeconomics department with the presence of Prof. Abbas Kebriaeezadeh and Dr. Shekoufeh Nikfar, past and current Iran Regional Chapter presidents, respectively. Prior to this session, an announcement was sent to all students to submit their motivation letters for being a candidate for ISPOR-TUMS student chapter executive member. A total of 6 letters were delivered to Iran regional chapter president.

Following an introductory speech by Dr. Nikfar regarding opportunities of developing a student chapter, candidates were asked to shortly present their interest to all audiences. Finally, within an online election process, the first four of the list were elected as executive members of the student chapter.

We received approval of ISPOR-TUMS student chapter in January 17, 2019 to officially start our journey. We are excited about the prospect of working in this network. Eagerly look forward to making valuable impact together.
Sri Adichunchanagiri College of Pharmacy
INDIA

President: Harikrishna A .
Treasurer: Sudarshan B.S.

Secretary: Berlin P. Kurian
Faculty Advisor: Muhammed Rashid

- Approved on 8th of January, 2019
- Planned to conduct Inauguration program on 3rd week of Jan 2019
- A seminar will be held on Importance of HEOR and ISPOR followed by the inauguration by Faculty Advisor “Muhammed Rashid PP”
- A report of the same will be submitted and update will be provided

NARAYANA PHARMACY COLLEGE
INDIA

President: Yeddula Praveena
Treasurer: Konda Ravi Kiran

Secretary: Devarapallai Vishnu Priya

How we have started our chapter?

We have a great passion to be a part of Health economics to improve “Health care Decisions” in clinical sector. So we have attended several seminars and conferences related to Pharmacoeconomics and Outcomes Research (PE & OR). We are inspired to be members of the Health Economics and Outcomes Research (HEOR) related society that is ISPOR. It’s a great pleasure for us to be a part of ISPOR as members. But after entering into the society we are encouraged to startup a new student chapter. Our Institutional Head - Dr. K. Harinadha Baba, encouraged and responded to our every need which were mandatory to start up a new Student Chapter in our institution and he discussed with University Head and made our dreams come true. In that process Stacey Mauriello helped throughout the work to start the Student Chapter. We took help from Kerala University as a Mentor University and Dr. Suja Abraham, Faculty Advisor of KUHS accepted our request to be our mentor. Finally we got acceptance from the ISPOR team to start up an “ISPOR Narayana Pharmacy college Student chapter”.

...continued on next page
**How is it beneficial to our members?**

We started the chapter for the benefit of the student community to create an awareness among the students about, HEOR and its opportunities & benefits to the students in research as well as economic and outcome related career in the community. It benefits the students and faculty to know about the outcomes, clinical as well as pricing authorities of drugs. It is a health care decision making to the patients and public. The impact enhanced by organizing different workshops, conferences, symposiums, quiz and also social activities.

**From left side (standing):**
K.Ravi Kiran (treasurer), Yeddula Praveena (president), D.Vishnu Priya (secretary)

**From left side (sitting):**
Dr. K. Arun Chand Roby – Faculty Advisor, Dr. S. Sujatha – Head of the department, Dr. K. Harinadha Baba – Head of the Institution, Dr. Sk. Karimulla – Vice Principal of the Institution
ISPOR launched a newly refreshed career center earlier this year (first image). Students are encouraged to create a profile, upload your resume, peruse the resource center, and set up a job alert. We also hope you will peruse the Global Internship & Fellowship Directory (second image). Click here to access.
CURRENT INTERNSHIP AND FELLOWSHIP OPPORTUNITIES

**Postdoctoral Fellowship - Epidemiology** U.S. Food and Drug Administration – Silver Spring, MD, United States

**RESEARCH ASSISTANT / RESEARCH FELLOW (HEALTH ECONOMICS)** Melbourne School of Population and Global Health – Melbourne, AU

**UHECSF Precision Medicine Post-doctoral Fellow** University of California San Francisco – San Francisco, CA, United States

**Joint Fellow in Precision Medicine: World Economic Forum and University of California at San Francisco** University of California San Francisco – San Francisco, CA, United States

**Post-Doctoral Fellow** Worksense – New Brunswick, NJ, United States

**Outcomes Research Fellow** University of North Texas Health Science Center – Fort Worth, TX, United States

Find more career opportunities by clicking [here](#).

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**RECENT STUDENT WEBINARS:**

- **An Introduction to Pharmacovigilance**
  Apr 2019

- **ISPOR Preference SIG Focus, Student Member Involvement, Working Group and Future Initiatives**
  Feb 2019

- **Why It's Time to Rethink the ICER**
  Jan 2019

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MORE UPDATES ON NEXT PAGE
ISPOR has recently taken time to revamp the Student Chapter Resource Center to better categorize the documents and increase its utility. We invite you to peruse these resources especially if you will be taking on a role in chapter leadership for the 2019-2020 term. If you are not involved with a student chapter, and wish to start one, please contact studentnetwork@ispor.org.

Click here to access
NEWSLETTER QUIZ

1. What innovative technique did Rutgers University ISPOR chapter use to raise awareness of ISPOR and increase membership?

2. What was the fund raising initiative of Virginia Commonwealth University ISPOR student chapter?

3. Which Student chapter arranged a webinar watching party?

4. Name at least 3 universities and the awareness programs they arranged from India.

5. Who was the speaker of the University of West Virginia ISPOR hand-on Python training?

NOTE: Please send an email to studentnetwork@ispor.org with answers to the questions above to be eligible for a $100 award for your chapter! Submission must be received within a week of the release of the Newsletter to be considered for the award. Only replies with correct answers to all 5 questions will be considered for the award. Incase of more than 1 entries, we will have a lottery to select a winner at random.