ISPOR STUDENT NETWORK
Newsletter

JANUARY 2022 | WINTER ISSUE

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A BIANNUAL PUBLICATION OF THE ISPOR STUDENT NETWORK
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CONTRIBUTORS

JACINDA TRAN, PHARMD, MBA
University of Washington, United States

MOHIN CHANPURA, BA
Rutgers University, United States

SOLUNA WHALEY, BA
University of Arizona, United States

TYLER WAGNER, PHARMD
Virginia Commonwealth University, United States

ELHAM HEIDARI, PHARMD, MSC
University of Texas at Austin, United States

SHAWN XIONG, MS
University of South Carolina, United States

ZEBA KHAN, RPH, PHD
ISPOR Student Network Advisor, United States

SPECIAL THANKS

INGRID COX, MD, GRAD CERT, MSC, PMP
University of Tasmania, Australia

JADA LAMPTHEY
Associate, Member Services
ISPOR, United States

Zeba Khan, RPh, PhD
ISPOR Student Network Advisor, United States

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
Hello fellow ISPOR Students!

First and foremost, before I introduce myself, I would like to congratulate all student chapters and student members for a job well done over the past term, especially given the circumstances and all adjustments that you made to keep the Student Network functioning. I also must salute the efforts and creativity of our previous Chair Vasco Pontinha, our ever-encouraging Student Advisor, Dr Zeba Khan, and the ISPOR staff in transforming the Student Network to accommodate the changes associated with the COVID pandemic.

I am honored to serve as your ISPOR Student Network Chair for the 2021-2022 term. The previous Chair did a wonderful job in positioning the ISPOR Student Network using digitalization to make the Network more inclusive given the global reach.

This year we plan to use these gains to achieve the strategic goals set for this year: to promote internationalization and foster student professional development. We aim to do this by focusing on content that not only prepares students for careers in HEOR, but also builds skills necessary to jump start that career, taking into consideration the diversity within the Network. As always, we will continue to provide opportunities to promote student research and achievements and encourage volunteerism to promote engagement with the broader ISPOR Network. We have a dedicated leadership team, committee chairs and committee members and we will keep these goals in focus and the basis of everything we do over this year.
MEET THE NEW STUDENT NETWORK CHAIR (CONTINUED)

It’s hard to break habits, as always, I place business before pleasure, but before I close, I must say a bit about myself. I am from the beautiful island of St Lucia in the Caribbean, highly recommended for a visit (not a biased opinion). I completed my medical degree in Cuba and subsequently worked in clinical practice in varying specialties. I gravitated towards infectious diseases and subsequently the public health space, working in various countries in the Caribbean and capacities including policy, planning, monitoring and evaluation, consulting, and project management of health focused international development projects.

The realities of limited resources in our region introduced me to the field of health economics and this propelled me to complete a masters in Health Economics and Policy at the University of Adelaide in Australia. Fast forward to a few years later, I’m back in Australia in the southernmost state, the gateway to Antarctica, at the University of Tasmania in the last few months of my PhD. To be honest I think I was lucky, as Tasmania is one of the most beautiful parts of Australia and also one of the least affected places during the pandemic in Australia. I’m looking forward to finishing off my thesis and moving on to the next stages of what’s to come. That’s me in a nutshell.

In closing, enjoy and make the most of your ISPOR experience and please, keep giving us feedback so we can continue to improve that experience as we are here to serve you.
What a year! [that felt more like 5 years!]
I had the distinct honor to serve as the ISPOR Student Network Chair for the year 2020-2021. While this has been a year like no other, I believe we achieved the main mission for my term: strengthen the sense of community in which HEOR-students feel like they belong.

During this past year, the entire ISPOR Student Network community was able to move forward during a global pandemic, provide additional platforms for sharing student excellence and student successes, and... have fun while doing it! None of this would be possible if Student Network wasn’t already leading the way in virtual communications and incredibly professionalized.

In addition, we expanded our communications reach by creating the ISPOR Student Network Fireside Chats, an audio platform in which students can be interviewed about the research they are working on, share awards and grants, as well as other meaningful experiences within ISPOR events. The newsletter received a significant creative redesign as well as expanded its sections and improved the reading experience. With the ISPOR Reporters team, we provided opportunities for student members to author reports about the most exciting sessions during the Virtual ISPOR conferences. Nonetheless, I have to admit that I am more grateful and proud about the leaders that rose up to occasion this past year. I am more grateful and proud about the leaders that rose up to occasion this past year. I am more proud of the students that found “their [professional] people” with ISPOR. I am more humbled by having served a true global community. And I am more excited about what comes after: ISPOR is lucky to have Ingrid Cox serve as our new ISPOR Student Network Chair. I am certain of the great work she is going to do leading the new members of the team to take the community to new heights.
MEET THE NEW COMMITTEE MEMBERS
AWARDS COMMITTEE

CHAIR

JEANNE KOM
4th Year PharmD Student, Pharmacy, University of North Texas, United States

JOHNSON BABU
PharmD Graduate, Therapeutics, Nirmala College of Pharmacy, Muvattupuzha, India

ISHFAQ RASHID
5th Year PhD Student, Dept of Pharmacy Practice, National Institute of Pharmaceutical Education and Research, Mohali, India

CHAPTER ONBOARDING COMMITTEE

CHAIR

SOHAM YANDE
5th Year PhD Student, Pharmaceutical Health Outcomes and Policy, University of Houston, United States

ZIZI ELSISI
2nd Year PhD Student, Health Economics and Outcomes Research, University of Washington, United States

PRAJAKTA MASURKAR
5th Year PhD Student, Pharmaceutical Health Outcomes and Policy, University of Houston, United States

SUDHEER MATANGI
6th Year PharmD Student, Clinical, Hospital, and Managed Care Pharmacy, Acharya Nagarjuna University, India

KANIZ TANNI
3rd Year PhD Student, Health Outcomes Research and Policy, Auburn University, United States
EDUCATION COMMITTEE

CO-CHAIR

CHINTAL SHAH
4th Year PhD Student, Pharmaceutical Health Services Research, University of Maryland, United States

FELIX WOLFRUM
4th Year PhD Student, Faculty of Applied Natural Sciences, Cologne University of Applied Sciences, Germany

ANU BOMPELLI
2nd Year PhD Student, Social and Administrative Pharmacy, University of Minnesota, United States

HOSSEIN HAJIMIRI
5th Year PhD Student, Pharmacoeconomics and Pharmaceutical Administration, Tehran University of Medical Sciences, Iran

SHWETA KAMAT
3rd Year PhD Student, Health Outcomes Research, University of Rhode Island, United States

MAVIS OBENG-KUSI
3rd Year PhD Student, Health Economics and Outcomes Research, University of Arizona, United States

RUTVI PATEL
3rd Year PharmD/MS Student, Health Outcomes, Policy, and Economics, Rutgers University, United States

PRAJAKTA WAGHMARE
4th Year PhD Student, Health Services, Outcomes and Policy, Purdue University, United States
EVENTS PLANNING COMMITTEE

CHAIR

SHREY GOHIL
4th Year PhD Student, Pharmaceutical Health Outcomes and Policy, University of Houston, United States

ENRIQUE SALDARRIAGA
5th Year PhD Student, Health Economics and Outcomes Research, University of Washington, United States

PRASHANT SRIVASTAVA
3rd Year BPharm Student, Pharmacy, Amity University, Gwalior, India

DANIELA YUCUMA
MD Graduate, Faculty of Medicine, Pontifical Xavierian University, Colombia

MEMBERSHIP ENGAGEMENT COMMITTEE

CHAIR

EMILY WONG
3rd Year PharmD Student, Pharmacy, Texas A&M University, United States

HAYA ALOBAID
2nd Year MS Student, Pharmacoeconomics & Health Outcomes, Virginia Commonwealth University, United States

SATHISH DHAYALAN
PharmD Graduate, Clinical, Hospital, and Managed Care Pharmacy, Annamalai University, India

TRUPTI DHUMAL
3rd Year PhD Student, Health Services and Outcomes Research, West Virginia University, United States
PUBLICATIONS COMMITTEE

CO-CHAIR

JACINDA TRAN
3rd Year PhD Student, Health Economics and Outcomes Research, University of Washington, United States

MOHIN CHANPURA
1st Year MS Student, Health Outcomes, Policy, and Economics, Rutgers University, United States

SOLUNA WHALEY
2nd Year MS Student, Health Outcomes Research, University of Arizona, United States

CO-CHAIR

TYLER WAGNER
3rd Year PhD Student, Pharmaceutical Sciences, Virginia Commonwealth University, United States

ELHAM HEIDARI
4th Year PhD Student, Health Outcomes, University of Texas at Austin, United States

SHAWN XIONG
3rd Year PhD Student, Pharmacoeconomics and Outcomes Research, University of South Carolina, United States
SURVEY & EVALUATION COMMITTEE

CHAIR

ROTANA RADWAN
3rd Year PhD Student,
Pharmacoeconomics and Health Outcomes,
Virginia Commonwealth University,
United States

UZMA PATHAN
1st Year PhD Student,
Pharmaceutical Health Services Research,
University of Maryland,
United States

MUNAZA RIAZ
5th Year PhD Student,
Pharmaceutical Outcomes and Policy,
University of Florida,
United States

JENNIFER TOTH
4th Year PhD Student,
Pharmacy Administration,
University of Mississippi,
United States

RANA ZALMAI
2nd Year PhD Student,
Health Outcomes,
University of Texas at Austin,
United States
Committee Updates

Education
- The education committee is currently developing a series of webinars for the ISPOR Student Network. The committee has convened multiple times since July to brainstorm topics of interest, identify potential speakers, and plan operationalization, dissemination, and promotion for the webinars.

Event Planning
- The event planning committee planned out two events for students attending ISPOR Europe 2021 virtually from November 30 - December 3: a student roundtable event and a student research spotlight.
  - Student Roundtables – Students had the opportunity to rotate through 3 tables focused on fellowships and internships, promoting your research, and mastering publication. Experts in various areas were available at each table to answer questions from students attending the conference.
  - Student Research Spotlight – The spotlight featured 5 selected students who had the opportunity to present their research and discuss its implications with conference attendees.

Membership Engagement
- In collaboration with the survey & evaluation committee, the membership engagement committee sent out an application in early fall 2021 to its Adopt-a-chapter program, with a goal of matching recently formed student chapters with well established mentor chapters. The committee is now in the process of matching applicant chapters.

Survey & Evaluation
- In addition to collaborating with the membership engagement committee to send out the adopt-a-chapter survey, the committee has been working on developing two surveys of its own:
  - Student Interest Survey – This survey was developed, reviewed, and approved by ISPOR staff. It was sent out to the ISPOR Student Network by Jada Lamptey in November 2021 and was open until December 25.
  - Student Benefit Survey – Similar to what has been sent out in past years. This will be developed once results from the student interest survey have been received and analyzed.
The publication committee is hard at work to bring you, the ISPOR Student Network, more content than ever before. Our goal at the beginning of the 2021-2022 academic year was to publish two newsletters a year and expand upon our digital content reach.

Our outgoing Student Network Chair, Vasco Pontinha, worked hard to launch our ISPOR Student Network Fireside Chats on SoundCloud. We are excited to continue producing content for everybody in the ISPOR community to "tune in" to and learn what students from the network are up to!

Below you will find our five current episodes outlined. Feel free to check out each episode, subscribe to the channel, and leave us a review! If you have any ideas for future content, please reach out!

**Episode #1** - Getting involved in ISPOR & Reflections on Machine Learning Webinar

**Episode #2** - Student Experiences with Internships and Fellowships

**Episode #3** - ISPOR Europe 2020 Student Research Spotlight #1

**Episode #4** - ISPOR Europe 2020 Student Research Spotlight #2

**Episode #5** - 2021 ISPOR Student Network Chapter Awardees
HELPFUL STUDENT INFORMATION
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!
Job Openings

**POST-DOCTORAL RESEARCH FELLOWSHIP**
Salt Lake City, Utah
[Link](#)

**DIRECTOR – HEOR**
Novartis – NJ, USA
[Link](#)

**MANAGER – DIGITAL SUPPORT**
Novo Nordisk – NJ, USA
[Link](#)

**WORLD BANK INTERNSHIP**
Multiple
[Link](#)

**DIRECTOR – HEOR ONCOLOGY**
Daiichi-Sankyo – NJ, USA
[Link](#)

**BAYER AG; CO-OP AND INTERNSHIP**
Multiple
[Link](#)

DON HUSEREAU ET AL.

The ISPOR CHEERS II Good Practices Task Force recently published updated guidance for health economic evaluations. CHEERS 2022 replaces the CHEERS statement from 2013 and provides best practices for reporting economic evaluations, including cost analysis, cost-effectiveness analysis, cost-utility analysis, and cost-benefit analysis.

CHEERS 2022 features a check list of 28 items to consider when writing or peer-reviewing economic evaluations. Each item is accompanied by examples and explanations. This will be an essential resource for students and researchers conducting economic evaluations. You can access CHEERS 2022[here](#).
Measuring the Effectiveness of Real-World Evidence to Ensure Appropriate Impact

JEREMY P. BROWN ET AL.

Real-world evidence (RWE) has gained increasing importance in regulatory decision making despite a paucity of systematic evidence about its value. This commentary puts into context a recent study evaluating role of RWE in regulatory decision making conducted through the European Medicines Agency. The findings of this study showed that RWE was crucial to decision making, especially in areas such as adverse events assessment, risk minimization measures, and product usage evaluations. However, RWE had a limited role in some other areas including hypothesis generation and medication effectiveness evaluation. The commentary emphasized on the importance of transparency of different aspects of RWE studies by highlighting the transparency of the European Medicines Agency decision making. Lastly, the commentary offers interesting direction for future studies that might be of importance for those who are seeking new practical areas of research.

Quantifying Value of Hope

SHELBY REED ET AL.

In patient-centered value frameworks, hope is a construct not very well-studied. In this study published in value in health, two-hundred people with cancer or history of cancer were surveyed using discrete-choice experiment (DCE). The findings illustrated that individuals with cancer positively valued treatment choices that would provide higher chances of long-term survival. The authors concluded that hope can be an important additional domain in value assessment. This research may be an inspiring read for those interested in emerging innovative domains of value. It is also informative for learning how to embark on measuring a new construct.
Can Machine Learning be Used to Predict Patients' Hospital Reentry Rates?

SORAYA AZMI ET AL.

This spotlight highlights a manuscript published in Value in Health about new approaches of analysis using machine learning algorithms. Given the importance of hospital readmission, machine learning algorithms can be used to identify patterns and interactions in hospital readmission data. The objective was to forecast 30-day readmission using the algorithms while comparing the results to traditional approaches.

The authors compared the performance of statistical methods with machine learning methods using administrative data from 1995-2012 in Quebec. They elaborated on the results they obtained from each method.

This spotlight may be an exciting read for those interested in using machine learning to predict readmissions and potentially decrease the burden of rehospitalization.

Generalized Risk-Adjusted Cost-Effectiveness (GRACE): Ensuring Patient-Centered Outcomes in Healthcare Decision Making

DARIUS N. LAKDAWALLA ET AL.

This spotlight discusses some shortcomings of traditional cost-effectiveness analysis (CEA) and quality of life (QoL). The authors questioned the assumptions of the traditional CEA and evaluated the currently available solutions. To overcome these problems, they introduced GRACE model and explained how GRACE works which may lead to less problems. They elaborated on different components of this model and provided examples to show the superiority of this approach. Lastly, the authors mentioned how application of GRACE can be beneficial in four levels of decision making. This spotlight may be an exciting read for those interested in innovative approaches in CEA.
STUDENT NETWORK AWARDS
OUTSTANDING STUDENT CHAPTER

1. The University of Mississippi, United States
2. The University of Arizona, United States
3. Karolinska Institutet, Sweden
OUTSTANDING LMIC CHAPTER

1. Tehran University of Medical Sciences
   Iran

2. Kerala University of Health Sciences
   India

3. National Institute of Pharmaceutical Education and Research
   India
BEST STUDENT CHAPTER COLLABORATION AWARD

VICTORIA & TASMANIA STUDENT CHAPTER

Australia

United States

Outstanding New Student Chapter

VICTORIA & TASMANIA STUDENT CHAPTER

Australia

Outstanding New LMIC Student Chapter

SWAMY VIVEKANANDHA COLLEGE OF PHARMACY

India
Student Chapter Updates

New Student Chapters
New Student Chapter

Ferris State University
UNITED STATES

OFFICERS
President: Dana Hossami
Vice President: Amanda Sumerix
Secretary: Kassem Horani
Treasurer: Christian Leeman
Community officer: Taylor Fifer

START-UP JOURNEY
• Launched in fall 2021
• Dana presented ISPOR to pharmacy students and more than 100 members joined
• Excited to start working on different research topics in groups

ISPOR’s Student Research Panel
Thursday November 18th at 6pm
Join virtually by Zoom

ISPOR’s 2021 Student Research Panel

Dana Hossami
“The economic burden of biologic disease-modifying antirheumatic drugs in rheumatoid arthritis patients in the United States”

Kaitlin Assaad
“A meta-analysis comparing therapeutic outcomes for anti-EGFR monotherapy to targeted therapy combinations for non-small cell lung cancer”

Kiara Torres Garcia
“The association of disease-modifying antirheumatic drugs (DMARDs) on Alzheimer’s Disease”

Mavis Obeng-Kusi
“The cost effectiveness of therapies for infectious diseases”

START-UP JOURNEY

ISPOR’S STUDENT RESEARCH PANEL
Date: 19 NOVEMBER 2021

Participants: Students from the Ferris State University and the University of Arizona

Event type: Networking

Key learnings: Exchanging students’ experience with research
The importance of pharmacoeconomics in the clinical setting
The role of pharmacoeconomics in the healthcare setting
How pharmacoeconomics applies to healthcare decisions

Date: 29 July 2021

Speakers:
Dr. Bander Balkhi
Dr. Ziyad Almalki

Attendance: 831
Event type: Educational webinars

Key learnings:
• The importance of pharmacoeconomics in the clinical setting
• The role of pharmacoeconomics in the healthcare setting
• How pharmacoeconomics applies to healthcare decisions
Auburn University was recognized at the 2021 Involvement Awards as a nominee for the Excellence in Practical Application Award.

We offered regular training to the members to be successful in getting their manuscripts published, making effective slides and posters, and developing their verbal and non-verbal presentation skills.

Our members were able to demonstrate their research and presentation skills in prestigious platforms, including the Auburn Research 2021 Student Symposium, ISPOR 2021, and the American Association of Colleges of Pharmacy (AACP) 2021 Annual Meeting.

A unique aspect of our chapter activities included dissemination of research skills from more senior graduate students to junior graduate and undergraduate students through hands-on training in secondary healthcare databases, health policies, and health behavior models.
Chapter members volunteered their services for various roles at the festival from mounting beverage stands, to cleaning the premises, directing traffic and parking, among others.

Great opportunity to give up as one of our corporate social responsibilities and also to integrate with the people among whom we now live and school.

**Date:** 9 October 2021  
**Event type:** Community Service  
**Key learnings:**
- Chapter members volunteered their services for various roles at the festival from mounting beverage stands, to cleaning the premises, directing traffic and parking, among others.
- Great opportunity to give up as one of our corporate social responsibilities and also to integrate with the people among whom we now live and school.

**Date:** 19 November 2021  
**Event type:** Professional Development  
**Speaker:** Dr. Terri Warholak  
**Key learnings:**
- Developing a CV
- Developing a resume
- Optimizing the use of LinkedIn and other platforms for career development
- Writing a cover letter

**Date:** 6 November 2021  
**Event type:** Informal Networking Opportunity  
**Key learnings:**
- Balancing work and other aspects of our lives
- Courses to take to help our academic and skills profile
- Career options post-graduation
- Any other advice to help in our path to completing our various programs
**WELCOME PARTY**

**Date:** 11 September 2021  
**Event type:** Social

**Key learnings:**  
- This event provided the opportunity for new students who joined the program in this fall to introduce themselves and to learn more about the Pharmaceutical Health Outcomes and Policy (PHOP) program.  
- Senior students shared their experience, research interests, and resources with new students to help them feel welcome to the program.

**UNDERSTANDING POOR ENGAGEMENT ALONG THE HIV CARE CONTINUUM: A MIXED METHODS RESEARCH AGENDA**

**Date:** 19 October 2021  
**Event type:** Virtual Webinar

**Speaker:** Dr. Marya Gwadz, Professor at New York University

**Key learnings:**  
- Dr. Marya Gwadz shared her research in disparities of care engagement among patients with HIV.  
- This event included open discussion session based on the methods and findings that Dr. Marya Gwadz presented.  
- This event was open to all students interested in learning more about health disparities research.
SYNDROME HIV AND MENTAL HEALTH

Date: 5 October 2021

Event type: Virtual Webinar

Speaker: Dr. Michael Blank, Professor at University of Pennsylvania

Key learnings:

- Dr. Michael Blank shared his research in racial disparities among HIV patients with mental health in both observational and experimental studies.
- This event included open discussion session based on the methods and findings that Dr. Michael Black presented.
- Dr. Michael Blank provided an address about the power of diversity and innovation and introduced implicit bias. This was then followed by a workshop-style discussion using real-world evidence from healthcare practice. Additionally, certificates of participation were available after the completion of the workshop.

COMMUNITY SERVICE WITH THE YMCA INTERNATIONAL

Date: 15 October 2021

Event type: Community Service

Key learnings:

- This event aimed to help with the YMCA International of Greater Houston for their Food Pantry Distribution event.
- This half day volunteer event supported the local community including refugees, immigrants, and other vulnerable populations in the Greater Houston area.
PhD students from the department of pharmacy, systems, outcomes and policy talked about their education and career path that led them to the PhD program, on how they knew the PhD or fellowship was right for them and the groundbreaking research being done in areas of Pharmacoeconomics, Pharmacoepidemiology, Heath Outcomes & Health Policy they are involved within the department of Pharmacy, Systems, Outcomes and Policy (PSOP) at College of Pharmacy, University of Illinois at Chicago. The panel members discussed the potential research opportunities within the department for those who would like to get involved and at the end they revealed how their daily life of a graduate student in PSOP looked like. The last 15 minutes was reserved for Q&A where attendees learned more about how to prepare for the PhD application, what qualities made for a good PhD applicant and about their future career plans and opportunities.

Date: 24 September 2021
Event type: Virtual Webinar
Speakers:
Maja Kuharic, a Takeda HEOR fellow
Jon Nazari, University of Illinois at Chicago
Mary Smart, University of Illinois at Chicago
Nadia Nabuls, University of Illinois at Chicago
Carter McCormick, University of Illinois at Chicago
Claire Huang, a AbbVie Global Epidemiology fellow

Key learnings:

During this UIC-ISPOR/ISPE meeting, I really enjoyed the first hand experience the panelists portrayed regarding how research in Pharmacoeconomics and Health Outcomes pertain to unique patient populations. I also learned how to navigate the path needed to be successful in pursuing a PhD in Health Economics and Outcomes Research. This event has opened up my perspective on how versatile a PharmD degree can be for postgraduate studies. Please have this event in the future!

Erik William Stojanoff
PharmD Candidate
University of Manitoba
Canada

4TH ANNUAL PHARMA COEPIDEMIOLOGY WORKSHOP

Date: 26–27 November 2021
Event type: Virtual Workshop
Speakers:
Dr. Samy Suissa from McGill University, Dr. Mina Tadrous from University of Toronto, and Dr. Lisa Lix from Community Health Sciences, University of Manitoba, Alumna Dr. Amani Hamad and finally, Ph.D. candidate Kevin Friesen.

Collaborator: University of Manitoba Student ISPE Chapter

Key learnings:
• The two-day virtual workshop featured top academic and research experts in pharmacoepidemiology.
• This year we had the highest ever recorded number of participants attend our virtual workshop, including students from other faculties of the University of Manitoba and pharmacoepidemiology students from McGill University.

SUMMER SEMINAR SERIES

Date: June through August 2021
Event type: Virtual Seminars
Speakers: Dr. Joseph Delaney and Dr. Bruce Carleton

Collaborator: University of Manitoba Student ISPE Chapter

Key learnings:
Discussed much needed topics such as essential of journal clubs and pharmacogenomics.

JOURNAL CLUB

Date: December 2020 to July 2021
Event type: Journal Club

Collaborator: ISPE University of Manitoba Student Chapter

Key learnings:
• Discussion of prominent journal articles.
• Enriching experience for students to both learn and teach.
UMB 2021 Fall Fest

Date: 10 September 2021
Event type: Promotional Event
Speakers: Tsung-Ying Lee, Uzma Pathan, Divya Patil, Farideh Sistani, Dr. Julia Slejko

Key learnings:
- Students from schools of Pharmacy, Medicine, Nursing, Dentistry, and other related disciplines who are interested in learning more about HEOR passionately inquired and learned what educational resources and professional opportunities ISPOR can provide.
- Many students stopped by and scanned the QR codes on our poster, which links to the chapter website and a simple online survey allowing students to provide their inputs on the HEOR topics of interests.

ISPOR 2021 PHSR Virtual Alumni Events

Date: 17 May 2021
Event type: Networking Social
Speakers: Dr. Julia Slejko, Dr. Daniel Mullins, Dr. Eberechukwu Onukwugha, Kayleigh Majercak, Alumni from UMB

Key learnings:
- Up to 30 alumni, retired faculties, and staff from the Pharmaceutical Health Services Research Department at UMB joined the event.
- This established tradition provides an opportunity for alumni, current students, faculties, and staffs in our program to come together, socialize, and stay connected.
HOW TO PREPARE A BIOSKETCH

Date: 25 May 2021
Event type: Virtual Workshop
Speaker: Wendy L. St. Peter, University of Minnesota

Key learnings:

- Tailor your contributions to the application. Each biosketch now includes a personal statement describing why your experience and qualifications make you uniquely qualified for your role.
- Highlight the directions your career has taken, construct a narrative of your career, emphasize the significance of publications, and discuss roles and achievements.

CONDUCTING AN EFFECTIVE LITERATURE SEARCH

Date: 26 March 2021
Event type: Virtual Workshop
Speaker: Sarah Jane Brown, University of Minnesota

Key learnings:

For effective literature search, it is important to develop a research question (using PICO), identify a database, learn how to use MeSH terms and keywords to design a search strategy, conduct the search, and organize the results.
Different study methods used in clinical trials have implications for types of value claims we are able to make regarding interventions. Cost-effectiveness of any medical intervention is only relative to a certain alternative, perspective, and patient group within a defined clinical scope. Patient outcomes are increasingly assessed as part of clinical trials and are becoming a more common way to demonstrate value of medical interventions in the pharmaceutical industry space.
There are many non-traditional roles for pharmacists outside of community and hospital positions. This roundtable helped our student pharmacists recognize how they can prepare for these roles.

Our roundtable featured over 15 professionals from Managed Care, Industry, MSLs, entrepreneurial ventures, EMR technologies and more to speak to students about their individual career paths. All speakers also shared what leadership and clinical skills are needed to pursue these career paths.

I have been questioning how clinical I want to get in my career lately, but the ISPOR Professional Roundtable helped me realize that roles like managed care or pharmacoeconomics still need my clinical knowledge. In these roles, I can still make a difference in patients' lives.

- ISPOR member, P2
This summer, I was an intern in the Center of Observational research (CORE), Oncology at Merck and Co., Inc. In my role as an intern, I worked with cross-functional teams to support Keytruda’s Prostate Cancer clinical development program. Some of responsibilities with CORE included evidence synthesis, value proposition, and review of published literature to highlight the burden and unmet needs for novel therapies in men with advanced prostate cancer. The opportunity, albeit for a few months, was particularly rewarding as it provided a platform to contribute my skills in HEOR while playing my part in the development of effective therapies for prostate cancer.

“MEET DOLAPO LAWAL

This summer, I was an intern in the Center of Observational research (CORE), Oncology at Merck and Co., Inc. In my role as an intern, I worked with cross-functional teams to support Keytruda’s Prostate Cancer clinical development program. Some of responsibilities with CORE included evidence synthesis, value proposition, and review of published literature to highlight the burden and unmet needs for novel therapies in men with advanced prostate cancer. The opportunity, albeit for a few months, was particularly rewarding as it provided a platform to contribute my skills in HEOR while playing my part in the development of effective therapies for prostate cancer.

“MEET SHUANG WANG

In the summer of 2021, I was lucky enough to intern at AbbVie in Health Economics and Outcomes Research (HEOR) Oncology team, which completely exceeded my expectation. This internship gave me the opportunity to apply the skills I gained in my PhD program at University of Rhode Island College of Pharmacy and Master program in Statistics. More specifically, I was given the chance to lead a real-world evidence study that evaluated the economic burden of pancreatic cancer and communicate the results to Oncology team and cross-functional team. Overall, it was a great pleasure to work with the passionate and professional Oncology team at AbbVie.
The ISPOR chapter at the University of South Carolina participated in UofSC’s Student Organization Fair to promote our student chapter.

For the first time since the pandemic, we have had the opportunity to promote our student chapter in person, and we were really excited about it.

During the Organization Fair, we introduced the missions of ISPOR and the activities of our student chapter activities to interested students.

We have also recruited many students from the College of Pharmacy who are interested in our student chapter and research in pharmacoconomics and outcome research.
Dr. Chanhyun Park is a health outcomes researcher and joined the Division of Health Outcomes in June 2021 as an assistant professor. She conducted this virtual presentation for graduate students at UT-ISPOR student chapter to explain her experience prior to UT. In this presentation, she elaborated on her experience at the Centers for Disease Control and Prevention (CDC) as a health economist. She also talked about different opportunities available at CDC and the application process for HEOR graduates. This event had an attendance of around 30 graduate students and a number of faculties.

The talk by Prof. Park on her experience of working at CDC was quite enlightening and provided a unique perspective on health economic studies from a regulators point of view.

Yogesh Vohra
Date: 26 April through 24 May 2021  
**Event type:** Speaker Series  
**Speakers:**  
Aaron Katz, University of Washington  
Sarah Lawrence, University of Washington  
Donald Chi, the University of Washington  
Beth Prusacyzk, Washington University  
Josh Liao, University of Washington  

**Key learnings:**  
- In the first session, Mr. Katz shared his experiences with writing policy briefs, including the importance of putting the audience first and thinking strategically about communicating research.  
- In the second session, Ms. Lawrence, Dr. Chi, and Dr. Prusacyzk shared with students their experiences in building and using a social media presence for research.  
- In the third session, Dr. Liao provided an inspiring overview on the importance of writing for impact and the policy and science in non-peer reviewed publications, including blogs and news outlets.

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Date: 15 April 2021  
**Event type:** Journal Club  
**Speaker:**  
Dr. R. Brett McQueen, University of Colorado  

**Key learnings:**  
Dr. McQueen led discussion on his recently published paper "Economic Impact of Coverage Expansion for Non-invasive Prenatal Testing Through a Performance Based Risk Sharing Agreement", and our chapters engaged in stimulating conversation about value-based contracting.

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Date: February through March 2021  
**Event type:** Creating Educational Content  
**Participants:**  
Kyler Conn, University of Washington  
Sara Khor, University of Washington  
Kevin H. Li, University of Washington  
Tae Jin Park, University of Washington  

**Key learnings:**  
One of the projects examined how to choose between a managed care residency and a fellowship has been highlighted on the UW CHOICE student blog “Incremental Thoughts.”
**Alumni Interview Series**

**Date:** September 2021  
**Speaker:** Purva Parab, BPharm, MS, PhD  
Bio-statistician at Health Analytics  

**Key learnings:**

Dr. Parab discussed her day-to-day work activities and the skills necessary to succeed in her position. She talked about the importance of work-life balance and creating friendships in the workplace. We concluded the conversation with a Q&A session and advice on applying for internships before graduating to gain more exposure to the field.

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**Chapter Planning and Goal Setting**

**Date:** November 2021  
**Event type:** Social Event  

The VCU ISPOR Student Network Chapter enjoyed having a fall bonfire this semester where students could share a meal and time together with faculty.

**Primary Goals:**

1. Reach out and advertise ISPOR Student Chapter to PharmD students. This involves discussing HEOR, fellowships, and how ISPOR is beneficial to this student population. Can collaborate with other pharmacy organization chapters, such as AMCP & our new org, Pharmacists for Digital Health (PDH).
2. Take advantage of funding opportunities provided by the university for student organizations to hold in-person or virtual events.
3. Explore additional training opportunities for graduate students. This could involve learning new methods, attending live trainings, or having topic discussions around relevant HEOR subject matter.
Careers in HEOR

**Date:** 30 September 2021  
**Event type:** Professional Development  
**Speaker:** Dr. Aisha Vadhariya, Eli Lilly

**Key learnings:**
- Understanding differences between job roles in pharmaceutical industry and academia.
- Preparing for job search and interviews before graduation.

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CLIFTON STRENGTHS ASSESSMENT

**Date:** 2 November 2021  
**Event type:** Professional Development and Leadership  
**Speaker:** Dr. Julie Lockman, West Virginia University

**Key learnings:**
- Identifying top 5 Clifton strengths
- Leveraging your strengths in graduate education and overall development
Student Chapter Updates

Asia-Pacific
ACHARYA NAGARJUNA UNIVERSITY
INDIA

PROTECT BREAST FEEDING, A SHARED RESPONSIBILITY

**Date:** 8 February 2021

**Event type:** Breast Feeding Awareness Programme 2021

**Key learning:**
To educate mothers about the importance of breast feeding.

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HEALTH & MEDICAL AWARENESS PROGRAMME

**Date:** 14 February 2021

**Key learning:**
To make students aware of good hygienic practices.

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ORAL REHYDRATION AWARENESS PROGRAMME 2021

**Date:** 29 July 2021

**Key learning:**
To educate mothers about the importance of oral rehydration in treating dehydration & diarrhea.
World Hepatitis Day Inter-College Online Competitions

Date: 20 to 27 July 2021

Winners:
- Leaflet Competition – S Padma Sai (First Prize), G Sainath Chary (Second Prize)
- Essay Writing – P Veera Sai Pavani (First Prize), P Uma Maheshwari (Second Prize)
- Quote Writing – N Dharshini (First Prize)

World Hepatitis Day Awareness Programme 2021

Date: 28 July 2021

Key learning:
To bring awareness on Hepatitis vaccination to the patients.
Opportunities in Pharmacy

**Event type:** Guest Lecture

**Speaker:** Mr. Sanjay Mishra, licensed pharmacist in India

**Key learnings:**
- Mr. Mishra discussed various opportunities in pharmacy profession, and he also discussed that how to build up your career in pharmacy.
- The Amity Institute of Pharmacy, Amity University Madhya Pradesh is highly thankful to Sanjay Mishra for delivering an informative lecture on the online platform.

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CLIMED RESEARCH SOLUTION

**Event type:** Online workshop

**Speakers:**
- Dr. Karthik Reddy, Deputy Director, CliMed Careers; 
- Dr. Manasa Sakuntala, Career expert USA, CliMed Careers; 
- Dr. Ajit Singh, Cofounder and CEO, CliMed Research Solutions

**Key learnings:**
- They discussed the PEBC exams in Canada, current opportunities as a clinical pharmacist, community pharmacist, pharmacy technician, QA, QC, and regulatory affairs.
- They also discussed the international careers and pharmacy licensing opportunities in USA and the pharmacy exams, courses in UAE, HAAD, DHA, MOH.
- The guests also shared their experience for writing a good and informative research paper and various job opportunities for B.Pharm students.
VARIABLE OPPORTUNITIES FOR PHARMACY GRADUATES IN PHARMACOVIGILANCE, PHARMACEUTICAL SECTOR AND ALSO IN UNITED KINGDOM AND CANADA

Event type: Webinar

Speakers: Dr. Girish Krishna, Dynamic Splint Consultant, Canada; Dr. Manjit Singh Dhami, pharmaceutical industry; Mr. Jiwan Sidhar, Pharmacy Manager/Owner, Walden Medical Pharmacy, Canada; Dr. Asim Priyendu, Manager HEOR Parexel, India; Dr. B Venkateswarlu, Assistant Drug Inspector CDSCO; Dr. Prashant Kole, Senior Principal Investigator, Biocon Bristol-Myers Squibb R&D Centre (BBRC), India; Dr. Vijaypandi Panday, Chalapathi Institute of Pharmaceutical Sciences, India

Key learnings:
- Our speakers discussed the various opportunities in the field of pharmacy, the opportunities for pharmacy graduates in Pharmacovigilance, and the opportunities for pharmacy students in the pharmaceutical sector.
- The speakers also discussed the work environment and setting for pharmacists in United Kingdom and Canada.

PHARMACOECONOMICS AND ITS SCOPE IN RESEARCH & INDUSTRY

Date: 17 October 2021

Event type: Guest Lecture

Speaker: Dr. Murgandi, Associate Professor, Manipal University

Key learnings:
- Discussed pharmacoeconomics and its scope in research and industry.
- Dr. Murgandi also shared his experience for writing a good and informative research paper and various job opportunities for B.Pharm students.

HEALTH CAMP AT JIWAJI UNIVERSITY

Key learnings:
We learned about Panch karma, physiotherapy, and also students got to know about how to check brief explanations of research study designs including case studies of each.
The speaker gave an introduction to Public Health and shed light on important health issues across the globe during COVID-19. The participants from various pharmacy colleges learned about the core functions and essential services in public health. The speaker explained why one should opt for public health as a career choice after their graduation. An interactive question and answer session took place wherein all participants had their doubts cleared.

The students learned the basic skills and components required to present a poster, after which students presented their posters on various topics like Poisoning, Environment and Toxicology, Antibiotic Resistance, Climate Change, and Prescription Drug Overdose.

Feedback received from students were great. Winner and Runner up of poster won exciting prizes.

This webinar and workshop was conducted so that students get knowledge regarding public health and its career prospects as well as the skills required to present a poster.
The courses and webinars provided are very informative and useful for updating our knowledge. It is important that during this lockdown we spend our time valuably and as aspiring health professionals, it’s our duty to update our current knowledge.

A very informative webinar which included 3 sessions on 3 different topics. As a 5th year PharmD student, I found all the sessions very informative. The session covered topics including Clinical Research, Nutrition education and also Geriatric care. The speakers were also very interactive. The webinar was very useful on getting a clear and better understanding of pharmacy practice.

- Ms. Neha Baby, Ms. Janice Jacson, Mr. Nevin Joseph

- Shahnaz Abdul Khareem
WORLD PHARMACIST DAY

Date: 25 September 2021

The session was conducted by 3rd year PharmD. They organized a national level E quiz which had active participants from all over India. Participants who scored 80% and above in the quiz were awarded with e-certificate. They also conducted a letter writing competition including participants from the college. They were able to organize the program very well and got good responses from all the participants.

- Angelin Jaimon Augustine

WORLD HEART DAY

Date: 29 September 2021

The session was conducted by the students of 4th year PharmD. The session was exceptionally organized and very informative. There was a one on one interaction with Dr. Chandramouli where he cleared all our doubts and answered all our questions. The students also performed a mime which was again excellent and conveyed the basics of the working of human heart and how to take care of it. Elocution competition was also conducted.

- Alasandra Rose M.S.
IMPACT AND AWARENESS ON BLOOD DONATION DURING PANDEMICS AND WORLD PHARMACIST DAY

Date: 6 September 2021

Speaker: Dr. A.Yashovardhan, Assistant Professor

Key learnings:
The speaker shared his perspective and knowledge regarding the topic and also his experiences in his daily practice.

World pharmacist day was celebrated by organizing different events to the students and also providing the information on theme guest lecturer by Associate Drug Controller.

Impact on blood donation: we created awareness to the students and educated them about blood donation during pandemic COVID-19 and importance of blood donation in emergency was explained by HOD of Transfusion Medicine.
REAL-WORLD EVIDENCE: COMPARISON BETWEEN THE UNITED STATES & INDIA

Date: 2 April 2021
Event type: Webinar
Speakers: Dr. Usha Sambamoorthi Ph.D., Dr. Rajiv Ahlawat Ph.D.
Collaborator: ISPOR Student Chapter West Virginia University

Key learnings:
- Real-world evidence and its importance
- Future directions of real-world evidence
- Electronic Health Records

INTRODUCTION TO ISPOR AND HOW TO FRAME CHAPTER ACTIVITIES

Date: 9 May 2021
Event type: Prospecting
Speaker: Mr. Ishfaq Rashid

Key learnings:
- Introduction to ISPOR
- ISPOR Student Network, leadership, opportunities etc.
- How to frame chapter activities

RESEARCH METHODS IN MEDICAL SCIENCES

Date: 26 May 2021
Event type: Educational Meeting
Speaker: Mr. Aamir Bashir

Key learnings:
- Research planning, steps and its execution.
- Brief explanation of research study designs including case studies of each.
E-Poster Competition on “Role of Artificial Intelligence in Health Care sector” & Quiz competition on Pharmacoeconomics

Date: 12 June 2021

Event type: Competition

Key learnings:
- Artificial intelligence is the new age of the health care field.
- Diagnosis and treatment of disease have been a focus of AI.
- Using artificial intelligence in healthcare, the most widespread utilization of traditional machine learning is precision medicine.
- Patient engagement and adherence application.
- Reducing operational cost.
- Role of physical robots and robotic automation.
- Future and challenges in the implementation of AI in the healthcare sector.

Learning Health Economics & Opting it as a Career Choice

Date: 7 July 2021

Event type: Webinar

Speakers: Dr. Khalid Kamal and Dr. Pramil Tiwari

Key learnings:
- Understanding on health economics
- Drug approval decisions & drug pricing model
- HEOR roles and career opportunities in India

Using Different Databases to Search Literature

Date: 16 July 2021

Event type: Educational Meeting

Speaker: Ms. Isha Lingayat

Key learnings:
- Databases for literature searching
- PubMed - advanced search strategy
- Emphasis on features like nesting, truncation, mesh and mesh explosion, Boolean operators, truncation

Use of Referencing Software

Date: 12 September 2021

Event type: Educational Meeting

Speaker: Ms. Sahiti Uppunooti

Key learnings:
- Basics of referencing
- Reference management software and use
- EndNote and its use for referencing
**Clinical Pharma Practice – Indian & Global Scenario**

**Date:** 25 & 26 June 2021

**Day 1**

**COVID-19 and Clinical Pharmacy: A Wake Up Call and Call on Action**

**Speaker:** Dr. Rinku Mary Joseph, Pharm.D R.Ph, Halton Healthcare, Ontario, Canada.

**Pharmacovigilance for Medical Devices: Challenges During Covid Pandemic**

**Speaker:** Dr. V. Kalaiselvan, Senior Principal Scientific Officer, PvPI, Ghaziabad

**Day 2**

**Interpreting the Results of RCT’s in the Era of COVID-19: A Special Focus on Recovery Rate**

**Speaker:** Dr. Sai Krishna Gudi, College of Pharmacy, University of Manitoba, Canada

**Drifts and Demerits of COVID-19 Vaccination**

**Speaker:** Dr. Sandra Wilson, Sterile compounding technician, Rexall health Solution, Ontario, Canada
WORLD ORGAN DONATION DAY

Date: 13 August 2021
Event type: Awareness Program
Key learnings:
The day started with awareness videos, pointed out official organ donation websites, the importance of donation and ended with taking an oath by all the participants.

WORLD PHARMACIST DAY CELEBRATION

Date: 25 September 2021
Event type: Intra-College Competition & Webinar
Speaker: Mr. Vishal Chaudhari, Head of Operations, CLINI INDIA
Key learnings:
- The session started by taking pharmacist oath followed by intra-college competitions and ended with webinar in association with CLINI INDIA on the topic of “Importance of professional training and readiness for successful industrial placement”.
- Our guest speaker Mr. Vishal Chaudhari described the secrets to achieve a higher package, advantage, placement and industry expectations.

WORLD HEPATITIS DAY

Date: 28 July 2021
Event type: National Level E-Quiz Competition
Key learnings:
- Quiz competition was conducted through online mode.
- Almost 101 participants from various institutions were participated and 28 participants were scored above 60% of marks.

PHARMA COEPIDEMIOLOGY-A TOOL IN HEALTH CARE DECISION MAKING

Date: 7 May 2021
Event type: Webinar
Speaker: Dr. Dayana Nicholas, Professor, Saudi Arabia
Key learnings:
- Dr. Nicholas shared her knowledge about clinical trial, Study design and tools needed for health care decision making.
MANUSCRIPT ACCEPTED! TIPS FROM HEOR EDITORS AND RESEARCHERS ON PUBLISHING YOUR RESEARCH

Date: 20 October 2021

Event type: Webinar

Speakers:
Dr. Haitham Tuffaha, Associate Professor, University of Queensland; Associate Editor for Value in Health; Editorial Board Member for PharmacoEconomics - Open;
Dr. Gang Chen, Associate Professor, Monash University; Associate Editor for Quality of Life Research;
Dr. Anthony Newall, Associate Professor, University of New South Wales - Sydney

Key learnings:
The webinar provided the perspectives of journal editors, peer-reviewers, and prolific researchers on improving the chances of health economics and outcomes research (HEOR) manuscripts being published.

Insights during the webinar include selecting the appropriate journal considering the scope, past articles published, fees, and metrics; avoiding editors’ pet peeves, for instance outdated references; being thorough and polite in responding to reviewers; and having plans in case the manuscript is rejected. Strategies for increasing exposure of articles using social media and increasing the likelihood of being cited were also discussed.
Using Patient-Reported Outcome Measures (PROMs) in Different Populations and Settings - Methods and Challenges for Decision Making

Date: 1 October 2021
Event type: Webinar
Speakers: Dr. Cate Bailey, University of Melbourne; Dr. Christine Mpundu-Kaambwa, Flinders University
Key learnings:

- Assessing quality of life through patient-reported outcomes in different patient populations or away from the clinical setting poses new challenges in terms of conceptualization and methodology but broadens applications of these outcomes for research and practice.
- New instruments are needed to measure patient-reported outcomes in the social care sector that include dimensions not necessarily captured in the healthcare environment, such as social connectedness, security or loneliness.
- Measuring patient-reporting outcomes in children and adolescents present unique challenges such as the minimum age children can reliably report on their health utility and ethical considerations.
- New and emerging research methods for mapping utility scores from pediatric instruments to quality-adjusted life years are forthcoming to incorporate patient-reported outcomes into health economic evaluations.
STUDENT CHAPTER UPDATES

EUROPE MIDDLE-EAST AFRICA (EMEA)
CRITIQUING THE RECENT PRICING REGULATIONS OF IRAN FDA: OPPORTUNITIES AND THREATS FOR MANAGING ACCESS TO MEDICINE

**Date:** 27 April 2021

**Event type:** Virtual panel

**Speakers:** Seven panelists from the pharmaceutical industry (4 different types of pharmaceutical companies), university and managing director of pharmaceutical affairs, and chief advisor of the FDA of Iran

**Key learnings:**

Each panelist had 20 minutes to demonstrate his perspective regarding the positive and negative changes in the recent regulations. In total, 130 online variable participants from universities (undergraduate and post-graduate students and academicians) and industry joined this 3-hour challenging event.
The speakers discussed healthcare spending of each country from different perspectives to enable students to access expertise, gain new perspectives and build relationships. In total, around 40 attendants from four countries participated in this event.

**Date:** 9 April 2021  
**Event type:** Webinar  
**Speakers:** Dr. Khalid Kamal, Professor & Chair, WVU; Dr. Hamidreza Safikhani, former Chief Information Officer, the Health Ministry  
**Collaborator:** West Virginia University  
**Key learnings:**

The speakers discussed healthcare spending of each country from different perspectives to enable students to access expertise, gain new perspectives and build relationships. In total, around 40 attendants from four countries participated in this event.

ISPOR TUMS student chapter was able to co-host a 12-hour virtual school focused on the application of pharmacoeconomics in the healthcare decision making with an approach to the supply chain of pharmaceuticals in collaboration with the 23rd Iranian Pharmacy Students Congress as a pre-congress event.
CuriousU Summer school course: Evaluating Future Health Technologies

**Date:** 2 to 13 August 2021

**Event type:** Virtual course

**Speakers:** Various experts in HTA and researchers developing new health technologies

**Description:**
The board members of our chapter organized a successful virtual course as part of the CuriousU Summer School at the University of Twente. Students from all over the world were able to attend, learn about new technologies that are being developed, participate in group work and create a basic value dossier for these new technologies.

**Key Learnings:**
- Learn all about new health technologies, who developed them, how can they be helpful, and how can they be used?
- Learn about how to evaluate these techniques concerning costs and consequences for the health care system.
- Apply knowledge about the technologies and evaluation techniques to assess the effects and or impacts.
- Work in multidisciplinary teams.

"I didn’t really know what to expect from the course as it was my first summer school, but I can definitely say that I really enjoyed it and learned a lot from both guest speakers and the hosts. Great job!"

- Anonymous
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 not too late to get involved!

ISPOR Student Network

The ISPOR Student Network has 7 committees that need student members to serve! Be on the look out for a call for applications in Spring 2022, shared via email by Jada Lamptey.

Local ISPOR Student Chapter

Contact your local chapter to learn about upcoming activities and chapter elections. Consider running for an officer position!
Questions?

studentnetwork@ispor.org