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PHARMACYCONNECT NEWSLETTER



DEAN'S MESSAGE



Associate Professor Dr Mogana Sundari Rajagopal, Dean

March 2021 will be the first anniversary of the COVID-19 pandemic. Healthcare professionals around the world have continuously been at the forefront of the pandemic, providing essential health care services to the public. Among them have been practitioners in pharmaceutical sciences such as pharmacists, pharmacy and scientists. technicians Most pharmacists across the country have continued to maintain and contribute to their usual roles while taking on additional or new roles for COVID-19 by utilising their extensive knowledge and training in medication. Contributions by pharmacists during the pandemic have ranged from medications, developing new guidelines/protocols, disaster management planning, providina education resources to the public, and publication of COVID-19 research.

At the same time, the COVID-19 pandemic kicked of the biggest race in drug development history almost akin to the Space Race in the 1950's which saw the first human in space and the first hu-

mans on the moon. However, this time the race was aimed at tackling what has been the biggest devastation to human lives in modern history. According to WHO, lives lost to the virus have amounted to more than 2.65 million people. In the race for a safe and effective strategy against COVID-19, many major pharmaceutical companies, institutions, and organisations began a remarkable and unprecedented collective effort to develop vaccines against the virus. As of March 2021, WHO reports that there are 81 vaccines in clinical development and 182 vaccines in pre-clinical development in various countries around the world. Pharmacists and formulation scientists have played a critical role throughout the development, manufacturing, distribution, and deployment of the vaccine. The choice of type of vaccine, carrier, adjuvant, excipients, dosage form and route of administration can directly impact not only the efficacy against COVID-19, but also the logistics of manufacturing, storing, and distributina the vaccine. The pharmaceutical industry, pharmacists and formulation scientists have truly been essential contributors to the fight against COVID-19 and from us at the Faculty of Pharmaceutical Sciences (FPS) we salute you for your dedicated service.

FPS is dedicated to nurturing future-ready pharmacists and recorded 100% employability rate in the MOHE Graduate Employability Survey 2020. Success has been seen via the Praxis approach of the Faculty through industrial, community and hospital attachments. Moving ahead with the Industrial Revolution, the first Formulation Science programme in Asia is now open for enrolment to inspire and transform ideas and creativity into innovative products.

PHARMACYCONNECT newsletter is a bimonthly publication of the Faculty of Pharmaceutical Sciences (FPS), UCSI University, Kuala Lumpur.

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Editorial Team:

- Assistant Professor Dr Anand Gaurav
- Osama Helweh





January 2021 Volume 2, Issue 1

CCP @ FPS

Continuing from where we left in 2020, FPS started 2021 with a couple of very interesting Complementary Competency Programmes (CCP).

These CCPs provide opportunities to the academicians and researchers to connect with one another and share and learn in a safe and protected online environment.

The first CCP was conducted by Associate Professor Dr Gabriel Akyirem Akowuah, on the topic "Identification of Herbal Medicine by Physical and Chemical Methods" on 30 January 2021 via Microsoft Teams.

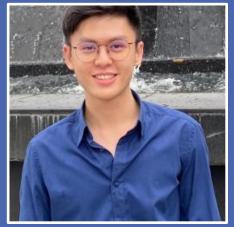
The CCP was well-attended by students, the faculty, and external participants. The CCP was highly appreciated by the participants as it provided them with practical knowledge about identification of herbal medicines. The second CCP was conducted by Muhammad Ahsan Iftikhar Baig on the topic "Let's Fight Cancer – The Earlier the Better" on 28 February 2021 via Microsoft Teams.

The CCP was conducted with the goal of creating general awareness about cancer in the society, including the measures that must be taken to prevent it, fight it and to be able to protect oneself and others in the society. Educational intervention such as that included in this CCP can help in providing answers to some very important questions of society about cancer and its prevention.

This CCP was also very well-attended and received by the participants as seen by the positive feedback from them.

Many more exciting CCPs are coming up and we shall keep you posted here!

STUDENT ACHIEVEMENT: BEST POSTER AWARD



Congratulations to Brian Alvin Fam Kai Sheng, BPharm (Hons) student of FPS, for bagging the "Best Poster Presentation Award" at the "International e-Conference on Expanding Frontier of Pharmaceutical Research Towards Global Exigency" on 15-16 October 2020 at Karpagam College of Pharmacy Coimbatore, India in association with the Indian Pharmaceutical Association, Coimbatore, India.

The topic of his presentation was "Investigating the natural excipients for development of sunscreen cream base". Dr Ashok Kumar Janakiraman supervised his research project.



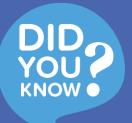


STAFF ACHIEVEMENT: VENUS INTERNATIONAL WOMEN AWARDS



Kudos to Associate Professor Dr Mogana Sundari Rajagopal for being awarded with the Venus International Women Awards (VIWA) 2021. The Venus International Women Awards scheme was instituted in 2016 by the Centre for Advanced Research and Design (CARD) of the Venus International Foundation (VIF) in Chennai, India.

The VIWA aims to celebrate and promote successful and promising women researchers' who contribute to the discipline and social community.



The most expensive synthetic drug costs more than \$70,000 for a month's supply in US. Myalept, is used to treat a very rare orphan disease called generalized lipodystrophy in which abnormal fat is distributed throughout the body.

STAFF SPOTLIGHT: CHEW YIK LING



Dr Chew Yik Ling, Assistant Professor and Head of Postgraduate Studies at FPS, completed her Doctor of Philosophy and Bachelor of Science (Hons) from Monash University. Malaysia. She her obtained Postgraduate Diploma in Tertiary Teaching in 2019 UCSI from University, Malaysia.

Dr Chew began her teaching career at UCSI University in 2012 and served as the Chair for Faculty Teaching and Learning (2014-2017), Faculty Quality Assurance and Enhancement (2017-2019), and Chair for Faculty Research and Scholarly Activities (2019-2021).

Dr Chew's research focuses on the use of herbs and tropical plants in managing diseases. One of her research interests also includes the therapeutic potential and biological activity of herbs and tropical plants. The study highlights how herbs and tropical plants could be applied as complementary and alternative therapy for various diseases. Lately, she has been working on the use of medicinal plants in cosmeceutical and therapeutic products. She has published more than ten research and review articles in high impact indexed journals such as Food Chemistry, BMC Complementary and Alternative Medicine, Dermatitis etc. Elsevier Scientific Database has awarded one of her publications as the Top ten cited articles. The Journal of Traditional and Complementary Medicine has recognised her as an Outstanding Reviewer.

Dr Chew is also active in community services. She is a certified breastfeeding counsellor. She has been appointed as one of the counsellors in the Projek Susu Ibu. This project is under Universiti Sains Malaysia and ARBA Foundation. Its purpose is to provide breastfeeding support services to breastfeeding mothers from the B40 group who live in Petaling and Hulu Langat districts.

MEDISPEC AND UCSI SIGN MOU

A Memorandum of Understanding • (MOU) was signed recently between Medispec (M) Sdn. Bhd. and UCSI Education Sdn. Bhd.

The MOU was signed to increase the cooperation between the two organisations in the following areas:

- Potential research collaborations between Medispec and Faculty of Pharmaceutical Sciences.
- To facilitate and encourage industrial staff / Student industrial attachments (2-6 months duration).



- Appointment of staff from Medispec as the industry panel advisor for the improvement of curriculum in pharmaceutical sciences relevant programs of UCSI University.
- To facilitate and encourage industrial visit/tour or site visitation.
- Other collaborative activities

The MOU was signed by Academician Senior Professor Dato' Dr Khalid Yusoff, Vice-Chancellor and President, UCSI University and Mr. Heng Thin Fook, Chief Operating Officer, Medispec (M) Sdn. Bhd.



UCSIUPSA 2021 ACTIVITIES LINEUP

UCSI University Pharmacy Students Association (UCSIUPSA) has been organising various events to engage student participation at different levels. It cultivates students to not only be bookworms but also master vast ranges of skills. Despite the pandemic, UCSIUPSA has been actively organising virtual events which weigh no less than physical ones. So, for the year 2021, UCSIUPSA has a great line up of exciting, mind-boggling, and outof-the-box activities planned out for the whole faculty with great help from all the ambitious event committees. Here is a brief preview of some of these activities to be held in the first half of 2021.

First in line is UCSIUPSA Team Building Challenge (TBC) 2021. It is an online alternative to Team Building Camp. UCSIUPSA organised TBC 2021 to strengthen the bonds between seniors and juniors in FPS. This event will be carried out through Microsoft Teams on 1 February 2021. Next up, Inter-faculty Mobile Legends Tournament (IMLT) 2021 is an esports event organised by UCSIUPSA in collaboration with UCSI University Mobile Gaming Club (UCSIUMGC). The event will be held via Microsoft Teams and Mobile Legends: Bang Bang platforms. It is a two-day event which will be held on 5 February 2021 and 6 February 2021.

Not forgetting, Merchandises Design Competition 2021 (MDC 2021) is an online event that will be held from 12 May 2021 to 12 July 2021. This competition is a two month-event comprising several agendas. These agendas include registration, designing period, submission of design, voting session, merchandise selling, merchandise order, and merchandise distribution.

Additionally, the Oath Taking Ceremony is an annual event organized by UCSIUPSA and Year 3 students from the Faculty of Pharmaceutical Sciences. During the ceremony, the graduates will pledge to devote themselves to serve public healthcare through the profession of pharmacy as a pharmacist. The UCSIUPSA Oath Taking Ceremony and Alumni Homecoming 2021 is proposed to be organized physically in May 2021.

The Public Health Campaign is an conducted annual event by UCSIUPSA since 2002. The event aims to create health awareness among the public and disseminate health information on disease prevention. The campaign is estimated to be carried out in June 2021 virtually.

Next is the UCSIUPSA Home Fitness Challenge 2021 to promote physical activity and its health benefits. The event will be held tentatively from 21st Jun 2021 to 31st July 2021.

UCSIUPSA hopes to boost engagement with the community this year through many more activities, and we will keep you posted!

PhD DIRECT PROGRESSION @ FPS

The Faculty of Pharmaceutical Sciences recently launched direct progression to PhD (Pharmaceutical Sciences) route for undergraduates with a First-Class Honours Bachelor's Degree or a minimum CGPA of 3.67 or its equivalent.

Three students have already opted for PhD direct progression route so far, and many more have shown interest. The students who have already joined PhD through this route include Tan Puay Luan, Sang Sze Huey, and Kaveeta Pergas.

The PhD direct progression route is highly competitive. All candidates had undergone а thorough internal evaluation by the PhD Direct Progression Committee, which consisted of two nominated senior faculty members and at least one Professor from another faculty.

candidates their The presented proposed PhD research work and supporting documents like the recommendation letter from their research supervisor and previous research achievements to the committee.

PhD direct progression has opened new avenues for students interested to pursue a research career!







ALUMNI SPOTLIGHT: SARANIA SUKUMARAN



Sarania is a proud graduate of BPharm (Hons) in 2012. In her early career, Sarania served in the public sector before switching to the private sector and worked at Gleneagles Kuala Lumpur for five and a half years as a senior pharmacist.

She is currently embarking on a new

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role as an Assistant Manager of Pharmacy Services at Malaysia Corporate Office of Parkway Pantai.

Her passion in quality improvement services and projects pushed her to keep striving and ensuring that the quality of health services provided are of substance.

What kept Sarania motivated are the small wins like improving a patient's quality of life or enhancing the services of her department. Furthermore, knowing that there are always gaps in pharmaceutical healthcare that can be addressed, as well as addressing some of the taboo issues in healthcare has always kept Sarania on her toes.

Sarania has also been an active alumna of FPS. She has been contributing to the faculty in different ways and FPS would like to convey best wishes to her for all her future endeavours.



PUBLICATIONS @ FPS

The human body has incredible regenerative powers. For example, your entire brain replaces itself every 2 months; your liver, every 6 weeks; and your epidermis, every 35 days. Even your stomach lining replaces itself every 3 to 4 days.

ALUMNI SPEAK: MAJORI MAMBALI



As a foreign student, my research journey at FPS was both exciting and challenging. It was exciting as I was in a new environment pursuing my Master of Clinical Pharmacy Practice which I really appreciate. The challenge was to complete my studies as well to conduct research in a relatively short time, which was affected by the Covid-19 pandemic.

However, the dedicated guidance by my supervisor, Assistant Professor Dr Aziz Ur Rehman and co-supervisor, Assistant Professor Fazlollah Keshavarzi was critical in the entire research project.

The availability of library resources, research methodology and biostatistics lecturers, as well as the encouragement by my family gave me the courage to stand up to the challenge and face the task that was ahead of me.

My sincere gratitude to Dr Aziz for his guidance throughout my research journey, and the entire FPS for making my time at UCSI University worthwhile and memorable!

Supercritical Fluid Technology and its Pharmaceutical Applications: A Revisit with Two Decades of Progress

Liew Kai Bin^{1,a}, Ashok Kumar Janakiraman², Fashli Syafiq Abd Razak¹, A.B.M. Helal Uddin³ Md Zaldul Islam Sarker¹, Long Chlau Ming^{4,3}, Bey Hing Goh^{4,1}

Md Zakdu Islam Sarker', Long Chiau Ming*, Bey Hing Goh*¹ Yashig el Thamasottal University of Cyberges, Cyberges, Sardyer MLAYSA, Yashig el Thamasottal Stenson, UCD University, Cheras, Kaila Lumpur, MLAYSA, "Sardy el Thamas, Ilensitiana Islamic, University Majara, Katano, Palana, MLAYSA, "Sardy el Thamasottal University, University Brane Disconston, BUWE DAUDSALAM, Cherastra Bartisla et Headh Sardyana, Sarana, Sarahan, MLAYSA, "School el Thamasotta, Masatu University Majara, Sarana, Sarahan, MLAYSA, School el Thamasotta, Masatu University Majara, Sarana, Sarahan, MLAYSA, School el Thamasotta, Masatu University Majara, Sarana, Sarahan, MLAYSA, MLAYSA, School el Thamasotta, Masatu University Majara, Sarana, Sarahan, MLAYSA, MLAYSA, School el Thamasotta, Masatu University MLAYSA, Sarahan, Sarahana, Sarahana, Sarahan, Sarahan, Sarahan, Sarahana, Sarahan, Sarahan, Sarahana, Sarahan, Sarahana, Sarahan, Sarahan, Sarahan, Sarahana, Sarahan, Sarahana, Sarahana, Sarahan, Sarahan, Sarahan, Sarahan, Sarahan, Sarahan, Sarahana, Sarahana, Sarahan, Sarahan, Sarahan, Sarahan, Sarahan, Sarahan, Sarahana, Sarahana, Sarahan, Sarahana, Sarahan, Sarahan, Sarahan, Sarahan, Sarahana, Sarahana, Sarahan, Sarahana, Sara

ABSTRACT

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INTRODUCTIO

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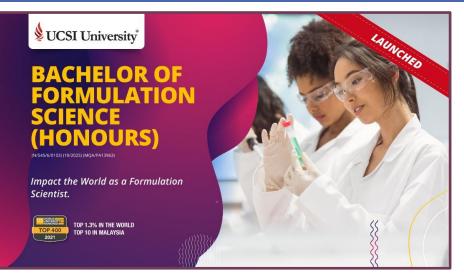
Risk Minimization Measures in Off-Label Drug Use: A Survey of Community Pharmacists in Malaysia

Omotayo Fatokun^{1,*}

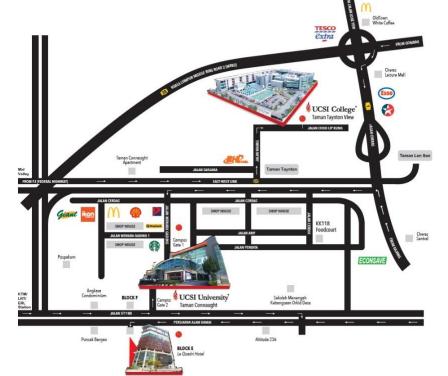
RESEARCH ARTICLE

	sents considerable risks. Therefore,	abel drug use is common and sometimes necessary, it also pre- measures intended to prevent or ordine the potential exposure to ided. However, little is known about community pharmacists' falsysia.
ARTICLE HISTORY	Dijectives: This study examined community plasmacists' beliefs towards measures in off-label drug use in Malaynia and assessed the relationship betwe off-label drug use and beliefs towards risk minimization measures.	alaysia and assessed the relationship between perceived risk of
Received: Jamary 05, 2020 Revised: April 19, 2020 Accepted: May 22, 2020		vas conducted among 154 pharmacists practicing in randomly isala Lumper and the State of Selangor, Malaysia.
BOR 18 2174 13734038236660380435346446	Results: The ansjority agreed is invariably agreed that advices days even if from the off-field days adviced be respected to the equility symbolicity (90%) and the eff-fields equilibrium (10%) and a specification of the equilibrium (10%) and (10\%) and (10\%) and (10\%) and (10	
	Conclusion: The community pharmacists have positive beliefs towards most of the risk minimiza- tion measures. However, beliefs towards written informed concent requirements are not encourag- ing Enhancing risk perception may help influence positive beliefs towards risk minimization measures.	
Keywords: Off-label, risk	minimization, community pharma	ists, risk perception, beliefs, Malaysia
I. INTRODUCTION		off-label drug. Pharmacists encounter situations on a dai basis, where they may question why medicine is prescrib-

A SNEAK PEEK INTO FPS



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FPS offers both undergraduate and postgraduate programmes with the emphasis on serving the community.

Doctoral Programme

 Doctor of Philosophy (Pharmaceutical Sciences)

Masters Programmes

- MSc Pharmaceutical Chemistry
- MSc Pharmaceutical Technology
- Master of Clinical Pharmacy Practice
- MSc (Pharmaceutical Sciences)

Degree Programmes

- Bachelor of Pharmacy (Hons)
- Bachelor of Formulation Science (Hons)

Foundation Programme

• Foundation in Science (Pharmacy)

UPCOMING EVENTS @ FPS

- Journal Club Presentation by Assistant Professor Fazlollah Keshavarzi on the topic "Vancomycin TDM: Trough Level Versus Area Under Curve" on 19 February 2021.
- UCSI-MPS collaboration COVID-19 VACCINE FREE WEBINAR by Dr Suja, Professor Jerry, and Dr Tet Kin on 20 March 2021.
- Journal Club Presentation by Muhammad Ahsan Iftikhar Baig on the topic "Lifestyle Management of Type II Diabetes Patient" on 19 March 2021.
- Complementary Competency Programme on the topic "Herbal Cosmetics: Emerging trends in Skin Care" by Assistant Professor Dr Ashok Kumar Janakiraman on 20 March 2021.

