

# *The Voice of FOHS*



*Physiotherapy*



*Medical Imaging*



*Environmental Health*

The Voice of FOHS is a e-newsletter by the Faculty of Health Sciences, MAHSA University. There are two departments and one school under the Faculty: Department of Medical Imaging, Department of Environmental Health and School of Physiotherapy. This e-newsletter highlights the faculty events, staff and students' achievements, student activities as well as knowledge sharing in the Health Sciences field.

## *Inside:*

Dean's Message • P1

Faculty Events • P3

Achieving the  
Extraordinary • P11

Student & Alumni  
Activities • P20

Knowledge Sharing  
Corner • P23

# CONTENT

NO.	TITLE	PAGE NUMBER
1.	DEAN'S MESSAGE	1
2.	EDITORIAL BOARD	2
3.	FACULTY EVENTS	
	– Cardiac MRI: What You Need to Know webinar	3
	– Stroke Rehabilitation webinar	5
	– Fire Outbreak: Prevention and Response webinar	7
	– An Insight into COVID-19 Pulmonary Rehabilitation: A Path to Recovery webinar	9
4.	ACHIEVING THE EXTRAORDINARY	
	– Dean of FOHS Conducts COVID-19 Webinar for Ministry of Defence (MINDEF) Malaysia	11
	– Congratulations to Dr. Noor Haziqah Kamaludin for being awarded with a doctoral degree by Universiti Putra Malaysia	13
	– MoU Signing Ceremony between MAHSA Faculty of Health Sciences and Shalamar Institute of Health Sciences	14
	– MAHSA Faculty of Health Sciences Signs MoU & Aol with Universitas Indonesia	15
	– MAHSA Faculty of Health Sciences Signs MoA with Universitas Sriwijaya, Indonesia for A Matching Grant Research	17
	– International Credit Transfer Programme between MAHSA University and Universitas Sriwijaya, Indonesia	18
	– Open & Distance Learning (ODL) Programmes by Faculty of Health Sciences, MAHSA	19
5.	STUDENT & ALUMNI ACTIVITIES	
	– Focus Forward – Career Talk in Health Sciences	20
	– Tik Tok Star Challenge	22
6.	KNOWLEDGE SHARING CORNER	
	– Physiotherapy Management for COVID-19 in the Acute Hospital Setting	23
	– Role of Physiotherapy in Geriatric Care	24
	– Chopping Board Hygiene	25

# DEAN'S MESSAGE



**Assoc. Prof. Dr. Veronica Chua**

BSc (UPM), MSc (UPM), M.Ed.M (UM), PhD (UPM)  
Dean  
Faculty of Health Sciences

Greetings Dear Readers,

It's that time of the year again, when we start getting busy to celebrate the year-end holidays. It's also the time when we look back and reflect on the year gone by and make resolutions for the new year ahead.

Looking back, to say 2020 was challenging is an understatement. However, FOHS and the rest of MAHSA weathered the storm quite well thanks to timely measures taken by the management, the support of all the staff and the understanding of our students. We are a resilient lot. In the face of all the challenges, FOHS managed to launch 2 new programs this year, ie. Bachelor of Environmental Health & Safety (Hons) ODL and Diploma in Occupational Safety & Health.

Looking ahead, 2021 promises to be a better year, especially with the COVID-19 vaccine predicted to be available early next year. Once permissible, we hope to resume all the student activities and experiential learning activities, such as mobility programs and site-visits, to give students the full MAHSA student experience that we are known for. We also plan to launch new exciting programmes in 2021, so keep a lookout for that.

As we all go on our vacations, I want to remind everyone to be wary of "COVID-19 fatigue". This is a real threat that is creeping up in society, resulting in rising apathy to COVID. I hope all of us at FOHS do not let our guard down wherever we may be. We need to continue doing our part to break the chain of transmission of COVID-19 and remind those in our circles to do the same.

Please stay safe and please follow all the recommendations from the authorities and HR.

*Merry Christmas  
Happy New Year &  
Happy Holidays everyone!*

# EDITORIAL BOARD



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# FACULTY EVENTS

## WEBINAR

# Cardiac MRI: What You Need to Know



The webinar on “Cardiac MRI: What You Need to Know” was conducted live by Faculty of Health Sciences, MAHSA University on 28 October 2020. The speaker of this webinar was Ms. Monasathini Krishan from Kuantan Medical Centre, who is a radiographer with more than 5 years working experience in the industry and she is also an expertise in the MRI technologies.

The webinar started with an introduction to MRI principle of technology,

On how magnet is able to produce image on the screen monitor. The radiofrequency (RF) pulse from superconducting magnet inside the MRI gantry transmitted to the patient body tissue. The hydrogen atom on the body tissue receives the RF and return the signal to the receiver coil. The signal is converted into electrical signal and been processed in the TV camera for display of the screen monitor.

The session clearly explained the indications of the MRI procedure such as aneurysm, cardiac related diseases, thrombus and more other blood vessel related diseases. MRI can also be used as an assessment procedure during preoperative and postoperative plan. The speaker also mentioned about patient preparation procedures before getting into the MRI room. The important component is to conduct a thorough history, and premedication status such as insulin must be stopped before going for the procedure. The reason is to avoid hypoglycemia state during the procedure, since it takes from 30 minutes to 2 hours to complete a MRI procedure. In the case patient is having history to contrast media allergic reaction, prednisolone is given to the patient 12 hours and 2 hours before the procedure. Patient is required to sign a consent form to proceed with the MRI procedure.

To wind up the webinar, she also addressed with the various advantages and disadvantages of the MRI procedure. The advantages are there is no ionizing radiation that has a stochastic effect in leading to cancer development, safe for pregnancy women after first trimester, has the ability to diagnose the physiology of



the blood vessels and the heart itself and some others. Meanwhile, the disadvantages are allergic reaction to contrast media, the gantry may not fit for an obese patient, claustrophobia and the banging noise produced during the procedure which causing patient discomfort. Thus, patient is equipped with an earphone throughout the procedure with music in play to reduce the noise coming from the gradient magnet inside the gantry.

The webinar has been successfully conducted with more than 1000 views. This webinar gave an insight on the safety and precautions to be used and the initiatives that community should make on using MRI as a diagnostic tool. Since the heart disease is the leading cause of death in Malaysia, so this webinar shared knowledge on the importance of detecting abnormalities that might be obscured with other imaging techniques.

## WEBINAR

# Stroke Rehabilitation

The webinar "Insight into STROKE REHABILITATION" was conducted by the Faculty of Health sciences on the 6<sup>th</sup> of November 2020. This webinar was conducted to create awareness about the importance of voluntary movement testing with various assessment tools and how the technique can be applied on patients to improve upper and lower extremity function and walking. The speaker of this webinar was Dr. Shanthakumar Kalimuthu, senior

Physiotherapist and lecturer who has more than 20 years of experience in the field of neurological physiotherapy.



The webinar session started off with the moderator Dr. Mahendran giving introduction about the speaker. The discussion was on Stroke rehabilitation in acute and subacute phase of recovery. The session started off with the risk factors and types of Stroke, Assessment tools like NIH Stroke Scale, Mini Mental State Examination, Brunnstrom recovery stages, Fugl-Meyer Motor Assessment and Functional Independence Measure. The importance of voluntary movement assessment was well explained, and videos were used to explain the practical application.

The acute and subacute phase of Stroke rehabilitation is a crucial period where Physiotherapist must encourage more active function and help patient achieve maximal functional independence. Upper extremity training techniques to improve scapular stability and proximal arm control was explained using patient's photographs. The importance of concrete vs abstract exercise, facilitating sit to stand task and early mobilization using body supported harness was clearly explained using photographs and patient videos. Techniques used to treat a Stroke patient including Motor Relearning Programme, Neurodevelopmental Therapy, Brunnstrom Movement Therapy and functional electrical stimulation was clearly explained.



The webinar concluded with a question-and-answer session. All the questions were clearly explained using easy terms by the speaker. The webinar ended with a note of thanks extended to the participants for their participation. The various academic courses offered at MAHSA University was conveyed to the viewers.

The Faculty of Health Sciences highly appreciate the viewers for their attendance and participation, for spreading the word, and their positive feedback. The faculty is looking forward to conducting more informative webinars in the future. For those of you who missed the chance, the webinar is still available for viewing on MAHSA University's facebook page.

## WEBINAR

# Fire Outbreak: Prevention & Response



The Department of Environmental Health, Faculty of Health Sciences, was host a webinar entitled "Fire Outbreak: Prevention and Response" on 16th November 2020 at 3.00 PM, LIVE on MAHSA University's FB and YouTube platform. The webinar was moderated by Ms. Nursalfarina Binti Abdul Samat with Dr. Noor Haziqah Kamaludin as the speaker. There was an overwhelming response by various participants with more than seven hundred views and likes.

The participants joined from various sectors such as lecturers, students, private sectors, government sectors, and the public. The webinar started with a briefing on a topic discussion and an introduction to the speaker's background by the moderator. Then, it was continued with the sharing session by the speaker on prevention and response to the fire outbreak. Before the end of the session, the moderator was opened for a Question-and-Answer session for the audience to ask regarding the topic discussed. The webinar was successfully ended at 4.00 pm.

### Fire Outbreak



The outbreak of fire leads to death, injury, loss of work, environmental destruction, and property damage. The fire safety measures are intended to prevent the fire outbreak by understanding the element of fire and the implementation of the fire prevention strategy. In this emergency, the rapid response will prevent the spread of fire and reduce the consequences. Circumstances and incidents that disrupt fire safety and prevention strategies are perhaps components of fire hazards. It may include fire-fighting constraints, compromised fire safety systems, and circumstances that prevent the evacuation from area affected by fire.

Basic elements of a fire are important in the way to prevent and respond to fire. These elements can be illustrated by the fire triangle which consists of oxygen, ignition source, and fuel source. Earth's atmosphere consists of 21% oxygen, so there is plenty available to trigger a fire if the other two components are present. A fire cannot begin if there is no material to burn. Homes and businesses are full of flammable materials, such as paper, oil, wood, and fabrics. Any of these can serve as a fuel source for a fire. An ignition source is a process or event which can cause a fire or explosion such as sparks, flames, static electricity, and heat.

## Fire Prevention and Response

Fire can be prevented in three ways which are through the knowledge of fire, human behavior, and installation of fire instruments. The fire can be prevented and stopped from spreading if we have a knowledge and understanding of the basic and element of fuels source. Human behavior in leading to fire can be described by the action, attitudes, routine, or decision that is ignoring and lackadaisical attitude on fire safety. The changing of human bad behavior may reduce the risk of fire. Fire can be prevented from spreading by installing suitable and functional fire instrument protection such as fire sprinkler, fire extinguisher, fire hose reel, fire suppression, fire smoke, etc.

In the case of a fire emergency, the "RACE" rule should be followed to respond to this situation. First, rescue yourselves or any person in danger immediately to the assembly point or a safe area. Then, alert others by activating the fire alarm system or shout of "fire!". During the evacuation, ensuring to close all the doors to prevent from fire spreading in the evacuation way. The fire can be extinguished if it is small and has a correct and sufficient extinguisher. The person who wants to extinguish of fire must follow all the rules or just let the fire rescue to stop the fire. Training and fire drills are the best way to avoid panic behaviour and ensure to respond immediately to fire outbreaks. A fire escape plan that has been practiced regularly can save lives.





# WEBINAR

## An Insight into COVID-19 Pulmonary Rehabilitation: A Path to Recovery

**MAHSA UNIVERSITY**

**AN INSIGHT INTO COVID-19 PULMONARY REHABILITATION: A PATH TO RECOVERY**

Patients infected with COVID-19 can manifest mild symptoms or may be in a critical state which require ventilator support. The COVID-19 pandemic has posed enormous pressures and challenges on the health care services. Worldwide scientific research efforts have provided rich evidence which strongly advocates rehabilitation in all phases of the disease. This webinar will be a gateway to learn more about the importance of post-COVID pulmonary rehabilitation.

**MR. SIVAGURU MUTHUSAMY**

- Senior Cardiopulmonary Physiotherapist (KMCH Hospital, India)
- Master of Physiotherapy (Cardiorespiratory), Dr. M.G.R. Medical University, India
- Pursuing PhD at Alagappa University, India

**MDM. SABITHA EUNICE REGIMA**

- Physiotherapy Lecturer (MAHSA University)
- Master of Physiotherapy (Cardiorespiratory), Dr. M.G.R. Medical University, India

**WATCH THIS LIVE**  
26 NOVEMBER 2020, 4.00PM

Faculty of Health Sciences

[www.mahsa.edu.my](http://www.mahsa.edu.my)

The COVID-19 pandemic has caused unprecedented health and economic challenges, which have not been seen or heard in modern times. This pandemic has unleashed havoc throughout the world and has resulted in enormous pressure on healthcare services. It has been well established and well documented through scientific researches, that COVID-19 is a respiratory disease, which affects especially the respiratory tract that includes our lungs. The Covid-19 disease results in lung injury and may result in breathing difficulties that might take months to improve thus requiring long term medical care and follow up. The management of Covid-19 has been proving to be quite challenging because of the post-complications which results in long term impairment and disability. The post-complications of Covid-19 has been well documented by the medical and scientific fraternity. Worldwide scientific research efforts have provided rich evidence which strongly advocates and emphasises rehabilitation in all phases of the disease.

The webinar 'Insight into COVID 19 Rehabilitation' was conducted by the Faculty of Health Sciences on the 26<sup>th</sup> of November 2020. This webinar was envisaged to create awareness regarding the cardinal importance of rehabilitation among the general population and medical fraternity as a whole. In the current scenario of COVID-19, treatment is greatly focused on hospitalised patients who are severely ill with comorbidities experiencing severe respiratory compromise.

The main speakers of this webinar were Mr. Sivaguru Muthusamy, a senior Cardiorespiratory Physiotherapist from India who has 18 years of experience in the field of cardiorespiratory physiotherapy and Mdm. Sabitha Eunice Regima, our very own MAHSA staff, who has 15 years of experience in the field of cardiorespiratory physiotherapy. The webinar session started off with the moderator Mdm. Bhavani giving out an introduction about the speakers. The first part of the discussion was on the COVID Disease and its' pathogenesis. The session was clearly explained in simple terms for easy understanding for the general population by Mdm. Sabitha. The next session started off with the late complications of the disease and the role of the physiotherapist in treating Covid-19 patients. This session was delivered by Mr. Sivaguru. The importance of rehabilitation for Covid – 19 patients was well explained and the carry home message was neatly presented.

The webinar had a question and answer session and all the questions were clearly explained using easy terms by the speaker. The webinar ended with a note of thanks for the participants for their participation in the webinar and also information regarding the various academic courses offered at MAHSA University.

The Faculty of Health Sciences highly appreciate the viewers for their attendance and participation, for spreading the word, and their positive feedback. The faculty is looking forward to conducting more informative webinars in the future. For those of you who missed the chance, the webinar is still available for viewing on MAHSA University facebook page for your viewing.





ACHIEVING THE  
EXTRAORDINARY



# Dean of FOHS Conducts COVID-19 Webinar for Ministry of Defence (MINDEF) Malaysia



MAHSA's Dean of the Faculty of Health Science, Assoc. Prof. Dr. Veronica Chua was engaged by the Ministry of Defence, Malaysia to conduct a webinar on COVID-19 for their staff on 30<sup>th</sup> June 2020.

The webinar which was conducted using Microsoft Teams, had over 130 participants from various departments in the ministry. The topic of the webinar was "COVID-19: Infection Control & Preventive Measures at the Workplace". The program began with an overview of the COVID-19 threat, its development over the last few months and the new norms it has brought about. Dr. Veronica then outlined the actions required of employers, actions required of employees and the physical as well as operational requirements of the workplace. Particular attention was paid to vulnerable groups and the required measures to protect them. Dr. Veronica also shared latest guidelines and disinfection procedures for use by the Ministry. The session ended with a lively Q&A session where participants asked a wide array of questions that further enriched the webinar.

We applaud the Ministry of Defence for providing valuable necessary training for their staff to ensure the best possible work safety during this COVID-19 pandemic, and we thank them for trusting MAHSA to provide this webinar.

Assoc. Prof. Dr. Veronica is a qualified Environmental Health and Occupational Safety and Health practitioner, and certified trainer with significant experience in conducting training on various areas of Safety and Health. She is one of the many trainers under MAHSA Academy Solutions (MACS), which is the training arm of MAHSA group. Please visit <https://www.mahsaacademy.com.my/> to know more about the training courses MAHSA provides or request a customized training for your organization.



# Congratulations to **DR. NOOR HAZIQAH KAMALUDIN** for being awarded with a doctoral degree by Universiti Putra Malaysia



Faculty of Health Sciences, MAHSA University proudly announces and congratulates, Dr. Noor Haziqah Bte Kamaludin, a lecturer from the Faculty of Health Sciences on the successful completion of, Doctor of Philosophy in Occupational Safety and Health programme, and has been awarded a Doctoral Degree.

To provide some information about our esteemed academician, Dr. Noor Haziqah received her primary and secondary education in Muar, a city in the state of Johor, Malaysia. In 2008, she gained admission, as an undergraduate student, into the Faculty of Environmental Studies of Universiti Putra Malaysia. She graduated in 2011 with a Bachelor's Degree in Science (Environment). She then continued her studies in the Faculty of Chemical Engineering, Universiti Teknologi Malaysia, where she obtained her Master Degree of Science (Safety Health and Environment) in 2012. She joined Melaka International College of Science and Technology (MiCoST) as a lecturer and Program Coordinator (in the year ???).

Dr. Noor Haziqah who is a strong believer in continuous advancement in knowledge and career, pursued her studies in Philosophy Doctorate of Occupational Safety and Health at Universiti Putra Malaysia in the year 2015.

In February 2020, she embarked on her journey as an academician in MAHSA University. To date, she has published three scientific journals focusing on cement worker's exposure containing Silica, Arsenic and Chromium (VI) respirable dust and respiratory health effect. One conference article has been published with the topic extraction of ionized nano-silver by emulsion liquid membrane using Cyanex 302 as a mobile carrier. She has participated as an oral presenter and poster presenter in several national and international conferences.

Excellent achievement by Dr. Noor Haziqah!

As the saying goes "*Education is the most powerful weapon you can use to change the world*", your achievements will continue to be an inspiration to others.

***Congratulations again!***



# MoU Signing Ceremony between MAHSA Faculty of Health Sciences and Shalamar Institute of Health Sciences

We are pleased to announce that MAHSA University and Shalamar Institute of Health Sciences, Pakistan has signed a Memorandum of Understanding (MoU) on 22<sup>nd</sup> September 2020, facilitating academic collaboration between the Faculty of Health Sciences, MAHSA University and Shalamar School of Allied Health Sciences for Medical Imaging and Physiotherapy programmes.

MAHSA University was represented by the Vice-Chancellor, Prof. Dato' Dr. Ikram, the Dean of Faculty of Health Sciences, Assoc. Prof. Dr. Veronica Chua and the Director of International Relations, Prof. Zahrah Saad at the virtual MoU signing ceremony. The Shalamar Institute of Health Sciences counterpart was the Chairman Board of Trustees (Businessmen Hospital Trust), Mr. Shahid Hussain and the Principle of Shalamar School of Allied Health Sciences, Dr. Riffat Javed.

This MoU will help to foster mutual understanding between MAHSA University and Shalamar Institute of Health Sciences for academic collaboration. It will not only strengthen the communication between the two institutes for future collaborative initiatives, but also paving the way for student mobility programme. This would allow the students from both institutes to have an alternative learning journey to enhance their international experience and develop cross-cultural competencies.

There are plans for many other collaboration initiatives in the near future, which we hope to be able to share with everyone soon. It is indeed exciting times ahead!



# MAHSA Faculty of Health Sciences Signs MoU & AoI with Universitas Indonesia



On 18<sup>th</sup> November 2020, MAHSA University and Universitas Indonesia signed a Memorandum of Understanding (MoU) to establish an academic collaboration between both universities. This was followed by the signing of an Agreement of Implementation (AoI) between the Faculty of Public Health, Universitas Indonesia and the Faculty of Health Sciences of MAHSA University for a Student Mobility programme between both faculties particularly in the areas of Environmental Health and Occupational Safety and Health (OSH).

Universitas Indonesia is a public university and is the top ranked university in

Indonesia, with 14 faculties, 2 schools, 1 vocational programme and almost 50,000 students.

Signing the MoU & AoI for Universitas Indonesia were their respected Rector, Professor Ari Kuncoro SE, MA, PhD and the Dean of the Public Health Faculty, Professor Dr dr Sabarinah Prasetyo MSc, while Professor Dato' Dr Ikram, Vice-Chancellor of MAHSA University and Associate Professor Dr Veronica Chua, Dean of the Faculty of Health Sciences, signed on behalf of MAHSA.

This AoI on student mobility offers a variety of options to MAHSA students to broaden their perspectives in environmental health through our partner institution. Such international exposure will teach our students to view issues from alternative perspectives, to be more tolerant, to be more adaptable and to improve their interpersonal skills – qualities which are essential in today's job market. We are certain that MAHSA students will benefit greatly from the opportunities provided for them to obtain international exposure during the duration of their studies here with us.

The Faculty of Health Sciences of MAHSA University is proud to partner with the Faculty of Public Health Universitas Indonesia and we hope this collaboration will pave the way for closer cooperation between MAHSA University and Universitas Indonesia in other areas.





# **MAHSA Faculty of Health Sciences Signs MoA with Universitas Sriwijaya, Indonesia for A Matching Grant Research**

The Memorandum of Agreement (MoA) was signed between Faculty of Health Sciences (FHSS), MAHSA University represented by Associate Professor Dr. Veronica Chua, Deputy Dean; and Faculty of Health Sciences and Faculty of Public Health, FPH Universitas Sriwijaya (UNSRI) represented by Mr. Iwan Stia Budi, Dean. This noteworthy event occurred on 8th November 2019 at Sriwijaya University Palembang and was witnessed by the Rector of UNSRI, Professor Dr. Ir. H. Anis Saggaf MSCE, Head of International Collaborations as well as the staff members of UNSRI and MAHSA University.

Apart from that, MAHSA grant application which is a collaborative project between both the Universities received approval on the 1 November 2020. The Matching Grant research entitled “COMMUNITY-BASED RIVER WATER QUALITY MONITORING AND ASSESSMENT: A CASE STUDY IN KLANG RIVER, SELANGOR, MALAYSIA AND MUSI RIVER, PALEMBANG, INDONESIA” led by Tg. Nilam Baizura Tg. Ibrahim (Chief investigator) and supported by Associate. Professor. Dr. Veronica Chua, Dr. Cheah Wai Yan and Dr. Noor Haziqah Kamaludin as co-investigator from the Department of Environmental Health, FOHS, MAHSA University; further supported by the co-investigators from Faculty of Public Health, UNSRI are Professor Dr. Ir. H. Anis Saggaf MSCE, Dr. Yuanita Windusari, Iwan Stian Budi and Rahmatillah.

Hopefully, this collaboration further increases and reinforces the communities understanding of river water conditions between the two countries. As the community consists of different levels of education and various ages, the understanding of water quality among them may be different. Hence, this collaborative study can serve as a tool that allows the community to get the overall picture of river water conditions in a quick and simple manner.

# International Credit Transfer Programme between MAHSA University and Universitas Sriwijaya, Indonesia

The International Credit Transfer programme between MAHSA University and Universitas Sriwijaya, Indonesia took place in October 2020. It involved two international students from Universitas Sriwijaya, Indonesia. Universitas Sriwijaya, also known as UNSRI, is the largest university in Indonesia as well as in Southeast Asia. In early October 2020, two Environmental Health programme students from UNSRI have applied for international credit transfer through MAHSA admission department. The application has been approved and forwarded to the Department of Environmental Health, Faculty of Health Sciences.

The two students from UNSRI: (1) Sevira Reviona Tanjung and (2) Mutiara Syafa'ati Dzikra started their first class with MAHSA on 13 October 2020. The two students have enrolled for two Environmental Health modules: namely, (1) Ethics and Law for Health Science Professional (EHEL 6412) and Environmental & Occupational Toxicology (EHOT 6313).

Sevira and Mutiara are kind and diligent students who always punctual to class and have high level of curiosity especially in common issue related to environmental ethics and toxicological study. Sevira and Mutiara also have good impression on the teaching and education standard delivered by the lecturers of MAHSA Department of Environmental Health.



*"I dont know why but I'm feeling happy. First time I attended the class, I feel so nervous because this is the first time I join the class with long duration and especially with English which is not my first language. But, wow I surprised because the lecturer looks kinds and the method not making me feel bored because I like to discuss and analysis and also Miss Amirra is the one lecturer that surprised me because she's so kind, funny and cheerful. Anyway thank you so much for the experience" - Mutiara*



*"I learn many new things and meet new people during this program. I'm really glad and happy to join this program"- Sevira*

# Open & Distance Learning (ODL) Programmes by Faculty of Health Sciences, MAHSA

Over the past few months, almost every student around the world has been tuned in to a lecturer through virtual platform. With the advent of technology, tertiary education no longer confined to the traditional brick and mortar teaching and learning method. Open and Distance Learning (ODL) is gaining momentum and is the new frontier of teaching and learning for higher education learning. The concept of ODL focuses on open access to education and offering flexible learning opportunities, freeing the learners from the constraint of time and space.

The Faculty of Health Sciences currently is offering ODL modes for three programmes: Bachelor of Physiotherapy (Hons), Bachelor of Environmental Health and Safety (Hons), and Bachelor of Medical Imaging (Hons). All of the 3 ODL programmes have attained its provisional accreditation from the Malaysian Qualification Agency (MQA).

Bachelor of Physiotherapy (Hons) ODL	MQA/PA11420
Bachelor of Environmental Health and Safety (Hons) ODL	MQA/PA11784
Bachelor of Medical Imaging (Hons) ODL	MQA/PA11847

Through the ODL mode, the learner will be able to access quality education beyond conventional classroom boundaries and also does not constrained by the geographical distance. It would definitely most suited to the working adult population as this route allows them to earn a higher academic qualification without the need to quit their jobs or sacrifice their chances at a promotion.

MAHSA University has taken a bold step to envisage the future landscape of higher education by developing ODL programmes, even far before the COVID-19 pandemic hits. MAHSA University has developed a comprehensive infrastructure for supporting the ODL programmes. Various virtual platforms and supporting services have been put in place to ensure the learners to have an interactive and engaging learning experience. To know more in detail, please visit [www.mahsa.edu.my](http://www.mahsa.edu.my) or give us a call to set an appointment +603 5102 2200 / 1800 88 0300.





# STUDENT & ALUMNI ACTIVITIES

# Focus Forward – Career Talk in Health Sciences



The coronavirus, COVID-19, outbreak has disrupted the life of many around the globe in 2020. In line with many other sectors, the COVID-19 pandemic has affected education in many ways. In the face of current times of challenging economic status and burgeoning unemployment, career and educational choices takes on a huge significance on the future of our youth. During this time of uncertainty where there is limited teaching on campus and restrictions over health and travel, students are constantly scavenging for the right options to pursue their career. There is a growing need in Health Sciences degree programmes and varied skill sets, and should be consider as one of the most secure option. Perhaps the biggest reason to pursue a health career is to make a difference in the lives of others. Indeed, it is a career option that vastly creates a major impact in others' life and amongst the society.

The Faculty of Health Sciences has successfully organized a panel discussion in the form of a webinar on 3<sup>rd</sup> September 2020 entitled 'Focus Forward – Career Talk in Health Sciences'. The aim is to establish networking between the current students and the ALUMNI members. Herewith, students are exposed to the current



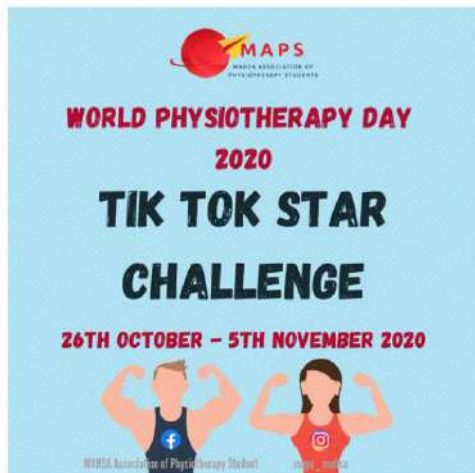
students and the ALUMNI members. Herewith, students are exposed to the current career challenges in the related field which will give them a better idea on available choices in pursuing their career. The panellists for the webinar were Mr. Andrew Teh Chuang Peng (ALUMNI member, School of Physiotherapy, MAHSA University), Mr. Jeremiah Hong Kuo Yong (ALUMNI member, School of Medical Imaging, MAHSA University) and Tuan Haji Muhammad Bazlan bin Abdul Rahman (ALUMNI member, School of Environmental Health, MAHSA University).

Our panel of alumni shared on reasons to choose their respective fields, the future outlook and how they chartered their way to success with their MAHSA qualifications. This definitely gives students a better insight on how to pursue their career after graduating with MAHSA. MAHSA is widely known for being a highly esteemed university that offers some of the best learning experiences that encompasses various modes of learning. This becomes an advantage to students from different levels as it can cater to their convenience in pursuing further studies and plays an important role in continuously enhancing the standard of the Health Sciences field both locally and abroad.





# Tik Tok Star Challenge



In-conjunction with World Physiotherapy Day, MAHSA Association of Physiotherapy Students (MAPS) had organised the 'Tik Tok Star Challenge'. This weeklong event happened from 26th October 2020 to 5th of November in 2020. The event was aimed to promote exercises and increase awareness and importance of engaging the core muscles.

The event was conducted online and the participants' videos were posted on MAPS official online platform including Instagram and Facebook. The winners were selected by the votes gained from their videos.

A total of 20 students participated in this event which gained 338 followers on Facebook and 12 followers on Instagram. The winners were students from the Bachelor of Physiotherapy programme namely Ms. Wong Siew Kwan, Ms. Dorothy Yeong May Yi and Ms. Sue Ellen Toimon.



The Faculty of Health Sciences highly applaud the students' participation and enthusiasm shown in the 'Tik Tok Star Challenge'.



# KNOWLEDGE SHARING CORNER



# Physiotherapy Management for COVID-19 in the Acute Hospital Setting

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is a new coronavirus that emerged in 2019 and causes Coronavirus Disease 2019 (COVID-19). Physiotherapists who work in primary healthcare facilities are likely to have a role in the management of patients admitted to hospital with confirmed and/or suspected COVID-19.

Physiotherapy may be beneficial in the respiratory treatment and physical rehabilitation of patients with COVID-19. Although a productive cough is a less common symptom (34%), physiotherapy may be indicated if patients with COVID-19 present with copious airway secretions that they are unable to independently clear.

Physiotherapists who practice in the ICU environment may also provide airway clearance techniques for ventilated patients who show signs of inadequate airway clearance and they can assist in positioning patients with severe respiratory failure associated with COVID-19, including the use of prone position to optimise oxygenation.



Given the intensive medical management for some COVID-19 patients including prolonged protective lung ventilation, sedation and use of neuromuscular blocking agents, patients with COVID-19 who are admitted to ICU may be at high risk of developing ICU acquired weakness (ICU-AW). This may worsen their morbidity and mortality. It is therefore essential to anticipate early rehabilitation after

the acute phase of ARDS in order to limit the severity of ICU-AW and promote rapid functional recovery. Physiotherapy will have a role in providing exercise, mobilisation and rehabilitation interventions to survivors of critical illness associated with COVID-19 in order to enable a functional return to home.

## Reference:

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# Role of Physiotherapy in Geriatric Care

Geriatric physiotherapy, a branch of physiotherapy relates to the care of older adults. A physiotherapist plays a major role in enabling older people to maximise their bodies potential to enhance mobility and independence. The aim of geriatric physiotherapy is to improve patient's quality of life and to prolong independence and physical well-being.

Many conditions could affect the geriatric population such as an ankle sprain to lower back pain including age related problems such as joint pain, arthritis or osteoporosis. Few older people may have co-morbidities such as Alzheimer's, diabetes, cancer, heart disease that will also have an added impact on health. It is well known that poor physical conditioning in older adults could lead to health problems such as stroke, high blood pressure, diabetes, respiratory, circulatory problems. Moreover, as we age our muscle mass reduces in a process called sarcopenia, an age-related muscle mass reduction and this could make the person to have a feel of increasing frailty or just feel less able to carry out day to day activity. Falls is also an issue that becomes more prevalent as age increases. There are many factors that may be contributing to this and the physiotherapist will assess to get the root cause of the underlying issues.



Geriatric physiotherapy is wide and encompassing of all conditions that may affect an older adult. On the bright side exercise can help counter the effects of age-related muscle loss. Physiotherapy is a key component in geriatric medicine. A physiotherapist will carry out a thorough assessment of the issue present with, taking into account of past medical history and how other conditions may impact on this problem. Things like walking pattern, ability to get up and down from a chair, on and off a bed will all be assessed. Also, some balance tests will be conducted to get a baseline for current balance levels. The treatment will be completely individualised to suit the needs. Key areas will be highlighted based on the assessment findings and the treatment will aim to improve these issues in specific time frame.



# Chopping Board Hygiene

A chopping board is an essential item in the kitchen and play a major role as cooking tools. Everything that touches the food could be a cause of bacterial and foodborne disease, especially chopping boards. For instance, if you chop a raw meat and then use the same chopping board to slice the vegetable, there is a possibility of cross-contamination of meat bacteria being passed to the vegetable. This would be the bacteria and pathogen reservoir as dangerous as salmonella and E. coli.

There are two general types of chopping board which made up of wood or plastic. Wood chopping boards have among the most frequent and a nice appearance, but there are a lot of things to take into consideration with wood. Although wood chopping boards are really hard, they are often brittle, and they capture most everything you placed on them, even bacteria. They need oiling to retain the wood in good state. Oil helps even further by forming a barrier against moisture. And of course, after used, wood chopping boards need a rigorous wash, rinsing and re-oiling process. If you choose wood chopping boards, it is recommended for just cutting vegetables, herbs and bread.

Professional chefs recommend plastic chopping boards more practicable. Plastic chopping boards are usually made of polyethylene, durable and sturdy. You can simply clean it by hand or in a dishwasher. They 're fairly all right, just they 're not as strong as timber or bamboo. Unfortunately, plastic chopping boards will retain bacteria as much as and even more than wood, particularly if long-lasting fur was being used. However, plastic boards are recommended for other tasks, such as having a different color-coded one for each type of use.

Plastic chopping boards can be put in a dishwasher where they can be sanitized by cleaning them at high temperatures. Yet wood chopping boards will instantly be destroyed by a dishwasher, and not everyone has a dishwasher. Therefore, the wood chopping board can be washed manually by rinse the debris off, scrub the board with soap and water, and sanitize. Plastic chopping boards should use a chlorine-based sanitizer, such as a solution of bleach mixed with water, but for wood chopping boards can use a quaternary ammonium sanitizer mixed with water. Be sure you dry the cutting board somewhere that air circulates, therefore it will dry absolutely because bacteria need moisture to grow. Traditionally, butchers used to put salt on their butcher blocks to keep them from smelling bad because the salt drew the moisture out of the wood and prevented bacterial contamination, which is causing the smell.

