



Embracing Resilience in the COVID-19 Pandemic: Health Sciences to the Forefront



# IN ASSOCIATION WITH











## **TENTATIVE PROGRAM**

11.45 -12.45 pm (10 min/ person)	ROOM 1	ROO	M 2	ROOM 3		
	Naufal Nordin (OS27)	PM Dr Azhar Abdul Halim (056)		Suad Ghaben (OS2)		
	Mariah Asem Shehadeh Sadeh Ali (OS30)	Shalini A/P Parthipan (OS16)		Mohd Zamzuri Che Daud (OS78)		
	PM Dr Mohd Izzuddin Hairol (086)	Nur Rasyiqin Binti Rasli (OS25)		Nur Ahfizah Binti Abd Hadi (OS77)		
	Shazrina Binti Ariffin (OS8)	Dr Jayakumar A/L Murthy (055)		Jamilah Binti Mohammad Hanipah (OS39)		
	Siti Nur Liyana Binti Ruslan (OS48)	Dr Zanariah Binti Mohd(060)		Sharmila A/P Gopala Krishna Pillai (OS70)		
	Industrial Lunch Talk 2					
12.50 - 1.15 pm						
	Title: Role of Scientist in Molecular Science: Past, Present and Future					
1.15 - 2.00 pm	Lunch Break / Poster present		-1 1 00	2010-0-000 0000-0-0		
2.00 – 3.00 pm (10 min/ person)	Oral presentation continued (3 concur					
	ROOM 1	ROO	M Z	ROOM 3		
	Clarisse Roswini A/P Kalaman (OS43)	Nur Sabrina Sabela (OS90)		Della Ayu Pratiwi (OS92)		
	Dr Iylia Dayana Shamsudin (058)	Sanisha Das (OS87)		Dr Shaharuddin bin Mohd Sham (059)		
	Tan Yee Kee (OS28)	Raveena Vaidheswary A/P Muralitharan (OS45)		Asma' 'afifah Shamhari (OS20)		
	Chu Sin Yee (OS31)	Omchit Surien (OS41)		Muhammad Asyaari bin Zakaria (OS5)		
	Lim Wen Xin (OS36)	PM Dr. Akmal Sabar	rudin (054)	Nur Erysha Sabrina Bt Jeffer (OS19		
	ROOM 1 ROOM 2					
	Session 7		Session 8			
	Food Matters!		,	oung Investigator Award		
3.15 - 3.40 pm	Assoc Prof Dr Zahara Abdul Manaf (Universiti Kebanasan Malaysia, Malaysia) Nor Diyana Hani binti Ghani (OS10 YIA)					
	(Universiti Kebangsaan Malaysia, Malaysia) Title: Weight Reduction Programme for		Nor Diyana Hani bind dhani (0310 FIA)			
	Employees Before and During the COVID-19		Sharifah Nadhira Binti Sved Annuar (OS12 YIA)			
	Pancemic: Opportunities and Challenges		***************************************			
	Assoc Prof Dr Chin Yit Siew		Nur Syahirah Binti Che Razali (OS13 YIA)			
3.40 - 4.20 pm	(Universiti Putra Malaysia, Malaysia)					
	Title: Dietary Practices and Body Weight Status		Fatin Farhana binti Jubaidi (OS37 YIA )			
	during COVID-19 Pandemic: Findings from the MyNutriLifeCOVID-19 online survey		Lishantini Pearanpan (OS68 YIA)			
			Mary A/P Thomas (OS74 YIA)			
			Rajasegar Anai	malley (OS82 YIA)		
4.30 - 5.00 pm	Break/ Judges deliberation					
	ROOM 1					
	Closing Ceremony					
	- Welcoming Remarks (MC)					
5.00 - 5.10 pm	- Award Winner Announcement					
5.00 - 5.10 pm			Closing Ceremony Speech by Prof Dr Suzana Shahar			
		Prof Dr Suzana Shah				
5.00 - 5.10 pm 5.10 - 5.15 pm						
	Closing Ceremony Speech by I					
5.10 - 5.15 pm	Closing Ceremony Speech by I Dean Faculty of Health Science	s, Universiti Kebangsa				

### LIST OF SPEAKERS

**KEYNOTE 1** BEYOND HIPPOCRATIC OATH & COVID-19

Dr. Renzo Guinto (Sunway University, Malaysia)

**KEYNOTE 2** PRECISION PUBLIC HEALTH FOR A RESILIENT SOCIETY

Prof Dr Chang-Chuan Chan (National Taiwan University)

PLENARY 1 COVID-19: UPDATES AND LESSONS FOR

THE FUTURE OUTBREAKS Dr Ravindran Thayar

(Institute of Medical Research)

PLENARY 2 CO-EXISTING WITH COVID-19 SAFELY:

REDUCING THE RISK OF TRANSMISSION

Prof Dr Sasheela a/p Sri La Ponnampalavanar (University Malaya Medical Centre)

PLENARY 3 FUNCTIONAL QUALITY OF T-CELL PHENOTYPES AND NEUTRALIZING

ANTIBODIES IN SARS-COV-2 INFECTION

Prof Dr Shankar Esaki Muthu

(Central University of Tamil Nadu, India)

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### LIST OF ORAL PARTICIPANTS

EVNOL SUPRABIO" AMELIORATES THE TESTICULAR AND PROSTATE HORPHOLOGY VIA REGULATING THE REPRODUCTIVE HORHONDE IN BISPHENOLOF-INDUCES SPRAGUE DAWLEY RATS THE FROM THE PROPERTY BY THE PROPERTY OF THE PROPERTY O **OS19** 

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BISPHENOL F EXPOSURE INDUCED ESTROGEN-LIKE EFFECT ON THE TESTIS OF SPRAGUE-DAWLEY RATS

Azma 'Affidah Shamhari
Center of Diagnostic. Therapeutic and Investigative Studies (CODTIS), Faculty of Health Sciences. Universiti Rebangsaan Malaysia. Jalan Raja Muda Abdul Aziz. 50300. Ruala Lumpur

**OS21** 

EC USERS' PROFILE AND ITS ASSOCIATION WITH IDENTIFIED IMPACTS OF COVID-19 ON VAPING Rawaida Mat Salleh Centre for Community Health Studies (ReaCH), Faculty of Health Sciences, Universiti Rebangsaan Malaysia, Ruala Lumpur, Malaysia

CYTOTOXICITY, APOPTOSIS AND GENOTOXICITY STUDY OF TRIPHENYLTIN(IV) DITHIOCARBAMATE COMPOUND ON REH, CHILDHOOD LEUKEMIA CELLS **OS25** 

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If SAL National Endother American Structure (CORE), Programme of Biomedical Science, Faculty of Health Science, Universiti Hebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, SO300 Kuala Lumpur, Malaysia,

EFFECTS OF INTERVENTION ON VISUAL-MOTOR INTEGRATION AND VISUOSPATIAL SKILLS OF TYPICAL PRESCHOOL CHILDREN WITH REDUCED VISUAL-MOTOR INTEGRATION SKILLS

<u>Naufal Nordin</u> Centre for Community Health Studies (ReaCH), Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia

RISK AND PROTECTIVE FACTORS OF TRAUMA AND SUICIDE POTENTIAL AMONG UNIVERSITY STUDENTS **OS28** <u>Yee Ree Tan</u> Center for Community Health Studies (ReaCH), Faculty of Health Sciences, Universiti Rebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300, Kuala Lumpur, Malaysia.

VISUAL PERCEPTUAL SKILLS OF HALAYSIAN PRESCHOOL CHILDREN WITH THE TVPS-4: COMPARISON WITH US NORMS
Mariah Asem Shehadah Saleh Ali
Centre for Community Health Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia **OS30** 

PERCEIVED STRESS OF COVID-19 TOWARDS THE BURDEN OF CARE AND PSYCHOLOGICAL DISTRESS AMONG CAREGIVERS OF HAEMODIALYSIS PATIENTS **OS31** 

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STRUKE SURVIVUES Deepak Thashakkattu <u>Vasu</u> Center for Rehabilitation and Special Needs Studies, Faculty of Health Sciences, Universiti Rebangsaan Malaysia Jalan Raja Muda Abdul Aziz, 50300, Kuala Lumpur

### LIST OF ORAL PARTICIPANTS

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Occupational Therapy Programme, Center for Rehabilitation & Special Needs Faculty of Health Sciences, The National University of Malaysia

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AND INFLAMMATION

Faith Farhana Jubaidi

Center for Diagnostic. Therapeutic and Investigative Studies, Faculty of Health Sciences,
Universiti Kebangsaan Malaysia, 50300 Kuala Lumpur, Malaysia DOES HEALTH LITERACY PREDICT COGNITIVE FRAILTY? ANSWER FROM AGELESS TRIAL

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Muhammad Wahizul Haswan Abdul Aziz
Centre for Toxicology and Health Rick Studies (CORE), Faculty of Health Sciences, Universit Rebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Rusla Lumpur, Malaysia.

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Omachi, Suriae

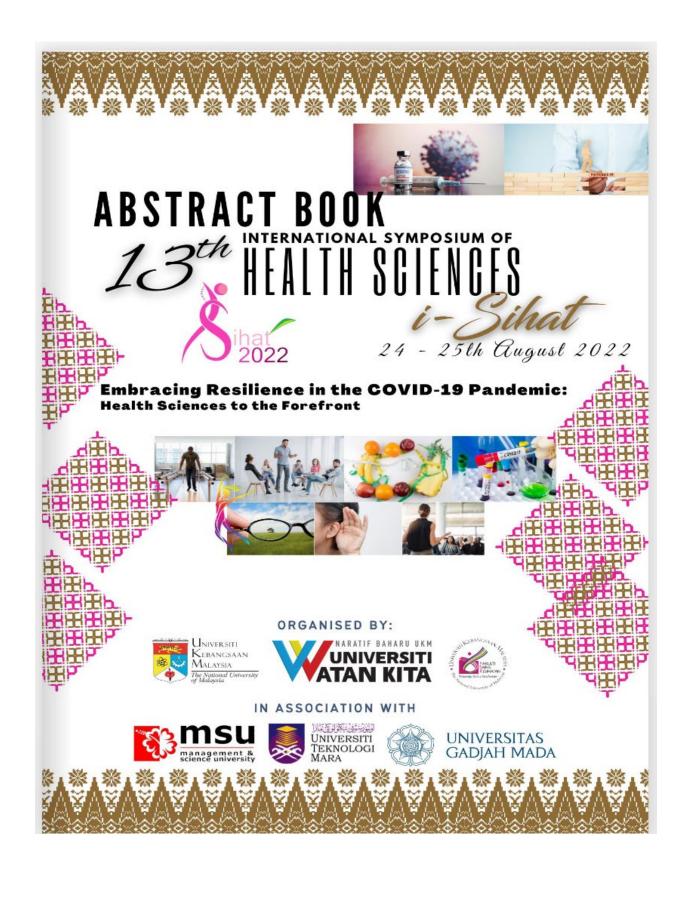
Center for Toxicology and Health Risk Studies (CORE), Faculty of Health Sciences, Universital Rebangsaan Malaysia (CORD), Kuala Lumpur, Malaysia.

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MEDICAL ADHERENCE AMONG ADDLESCENT PSYCHIATRIC PATIENTS: A MULTICENTRE STUDY Clarisse Reswini Kalaman Centre for Health Sciences, Universiti Rebangsaan Malaysia, Kuala Lumpur, Malaysia

ESTABLISHING A UVB-INDUCED SKIN PHOTOAGING BALBIC HICE HODEL
Raveena Vaidheswary Muralitharan
Center for Toxicology and Health Risk Studies (CORE). Faculty of Health Sciences,
Universit Rébangsaam Malaysia, Jalan Raja Muda Abdul Aziz, 20000 Ruala Lumpur **OS45** 

**OS48** 



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<u>Clarisse Roswini Kalaman</u><sup>1\*</sup>, Norhayati Ibrahim<sup>1,2</sup>, Ching Sin Siau<sup>3</sup>, Uma Visvalingam<sup>4</sup>, Meng Chuan Ho<sup>5</sup>, Fairuz Nazri Abd. Rahman<sup>6</sup>

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The lockdown implementation during the COVID-19 pandemic has led to deterioration in adolescent mental particularly adolescent psychiatric patients, partly due to high treatment drop-out rates. This study aimed to investigate whether medical adherence influenced adolescent psychiatric patients' mental health in Malaysia. A cross-sectional study using the convenient sampling method was conducted among 150 adolescent psychiatric patients, aged between 11 to 19 years old from five Malaysian hospitals across Peninsular Malaysia. The Perceived Stress Scale modified for (COVID-PSS-10), COVID-19 Generalized Anxiety Questionnaire

(GAD-7), Patient Health Questionnaire-9 (PHQ-9), and Malaysia Medical Adherence Assessment Tool (MyMAAT) were used to measure perceived stress, anxiety, depression, and medical adherence, respectively. Results revealed that moderately severe to severe depression levels were seen in 68 (43.9%) participants, and severe anxiety and high levels of stress were seen in 29 (18.7%) and 33 (21.3%) adolescents, respectively. The multiple regression analyses showed that higher medical adherence significantly was associated with lower depression symptoms  $(R^2=.16, F(6,148)=3.73, \beta=.37, p=.000),$ anxiety symptoms F(6,148)=4.22,  $\beta$ =.31, p=.01), and perceived stress (R2=.13, F(6,148)=3.79,  $\beta$ =.28, p=.002), after adjusting for age, gender and race. The results revealed that participants with higher levels of medical adherence demonstrated better mental health. In conclusion, this study highlights the importance of medical adherence as a protective factor on psychiatric adolescent mental health during the COVID-19 pandemic. Therefore, implementing adherence interventions may increase mental health in the treatment of adolescents with psychiatric disorders.

**Keywords:** mental health, medical adherence, adolescent psychiatric patient, COVID-19, Malaysia

#### OS45 i-SIHAT 2022

Establishing a UVB-induced skin photoaging BALB/c mice model

Raveena Vaidheswary Muralitharan¹, Dayang Fredalina Basn², Siti Fathiah Masre¹ and Ahmad Rohi Ghazali¹. ¹

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Prolonged ultraviolet (UV) exposure on the skin results in photoaging. Hence, our study aimed to establish a UVB-induced skin photoaging BALB/c mice model. About 16 female mice (7 weeks old) were divided into 2 equal groups. Group 1 was not exposed to UVB, while Group 2 was exposed to UVB. For the first 2 weeks, mice were given a daily oral treatment of corn oil via oral gavage, without UVB exposure. This was followed by 8 weeks with UVB exposure (Group 2 only) 3 times a week at increasing doses. totalling 3.7 J/cm<sup>2</sup>. During the same 8 weeks, skin elasticity was measured once a week using a pinch test, which showed that Group 2 (5.071 ± 0.459 seconds) skin took significantly longer (p < 0.01) to return to its normal conformation compared to Group 1 (3.203 ± 0.186 seconds), indicating skin elasticity loss. Next, dorsal skin were observed just before the mice were sacrificed, whereby Group 1 showed fine wrinkles and no skin redness and Group 2 showed coarse wrinkles, skin redness and peeling. Histopathological changes were then identified via Hematoxylin & Eosin (H&E) staining and epidermal thickness was measured using ImageJ. Group 2 showed a significant increase (p < 0.05) in epidermal thickness (51.849 ± 7.461 µm) compared to Group 1 (15.172

± 0.736 μm). In conclusion, a UVB-induced skin photoaging BALB/c mice model has been established.

**Keywords:** skin, photoaging, oral, ultraviolet, UVB

#### OS48 i-SIHAT 2022

Prevalence of Computer Vision Syndrome (CVS) and Its Associated Risk Factors among International Islamic University Malaysia Kuantan Undergraduates

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Excessive computer use has increased among workers and students. particularly during the COVID-19 pandemic. Computer vision syndrome (CVS) has previously impacted a large number of Malaysian undergraduates. However. International Islamic University Malaysia (IIUM), Kuantan has no prior or current data on CVS among their university students, raising the question of whether or not students are experiencing CVS symptoms when using computers, particularly during online teaching and learning. Thus, a cross-sectional study was conducted at IIUM Kuantan to determine the prevalence of CVS and its associated risk factors among undergraduates. A convenience sampling method was employed to recruit study participants,





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and data was collected using a selfadministered validated questionnaire. The prevalence of CVS was calculated and its association with ergonomics and non-ergonomic risk factors was determined using statistical analysis. The data showed that the CVS prevalence was 69.3%, with a higher prevalence among female (p=0.003) and Kulliyyah of Medicine students (p= 0.048) than other kulliyyahs. The majority of CVS cases were classified as mild, with tired eyes (89.9%), neck and shoulder pain (88.7%), and headache (73.4%) among the most commonly reported symptoms. The severity of the CVS symptoms was found to be significantly correlated with ergonomics practices (r= - 0.137, p= 0.034). Despite good ergonomics practices reported by the participants, a weak correlation between these factors raises the question of whether the participants have a correct practice of computer ergonomics. Hence, the present findings suggest that training in good computer ergonomics practices is necessary.

**Keywords:** prevalence, computer vision syndrome, undergraduates

#### O53 i-SIHAT 2022

The Effectiveness of Orthokeratology in Reducing Axial Length of Myopic Children Living in Kuala Lumpur

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High myopia can lead to blindness, thus controlling myopia progression is essential. Myopia progression is monitored by changes in axial length (AL). Orthokeratology (OK) is shown to be effective in reducing myopia, but limited reports are available with reference to Malaysian population. This study examined changes in AL in local myopic children undergoing OK treatment within 12 months and compared to single vision spectacles (SVS). Inclusion criteria was age ranged 7 to 9 years, myopia <-5.00DS, astigmatism ≤1.50D, best corrected vision acuity (BCVA) 6/6 in each eye, no history of ocular or systemic diseases and never undergoing any myopia treatment prior to this study. Cycloplegic refraction, high and low contrast VA. corneal topography and AL were measured throughout the study. Results were analysed using t-test and ANOVA. 70 myopic children (45 OK, 25 SVS) with mean age 8.31±0.37 years participated in this study. Mean refraction at baseline for OK and SVS were -3.22 ± 1.11 D and -3.03 ± 1.35 D respectively (p>0.01). At 12 months myopia had increased by -1.26±1.01D in SVS (p<0.01) and -0.06±0.12D in OK (p<0.01). No significant change was found in high and low contrast VA (p>0.01). AL increased by 0.48±0.47 mm in SVS (p<0.01) but decreased by 0.18±0.38 mm in OK (p>0.01). This study concludes that OK lens is effective in reducing AL without compromising visual functions and should be considered by Optometrists when managing myopic children.

**Keywords:** myopia, axial length, orthokeratology

#### O54 i-SIHAT 2022

Radiomics Features Classification of Atherosclerosis in Coronary Computed Tomography Angiography (CCTA) Images Using Automated Machine Learning (TPOT) Algorithms

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Radiomics is the process of extracting numerous quantitative features of highdimensional data that allow automated classification of the disease including atherosclerotic. This research aimed to evaluate radiomic features extracted from segmented regions of Coronary CT Angiography (CCTA) images and to determine the performance of quantitative information in classifying the atherosclerotic plaques. In accordance with inclusion criteria, 202 CCTA images were collected retrospectively from Institut Jantung Negara (IJN), Malaysia. 3 main coronary arteries were segmentized on the axial view which resulted in a sum of 606 volume of interest (VOI). The Automated machine learning (AutoML) method via Treebased Pipeline Optimisation Tool (TPOT) was utilized to construct 4 types of classification models with different input datasets, namely Model 1, Model 2, Model 3 and Model 4 corresponding to first-order, second-order, shape-order features, and control group, respectively. The supervised classification performance was evaluated in terms of heatmap confusion matrix, recall (sensitivity), precision (PPV), F1-score, accuracy, receiver operating characteristic (ROC) and area under the curve (AUC). Overall, model 1 had the best performance with the highest accuracy of 77%, as well as the highest weighted average of precision, recall, and F1-score at 0.77 respectively compared to that of other models. We also observed the superiority of firstorder features in classifying the normal coronary arteries and abnormal as well

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