

Expertise Details:**Dr. Khaled Mohamed Helmy****Medicine Unit – Faculty of Medicine****AIMST University**

Personal Details	Dr. Khaled Mohamed Helmy Abdelaziz Awadin
Academic Qualifications	~ Bachelor of Medicine and Surgery - MBChB - 1985 Faculty of Medicine - Alexandria University- Egypt. ~ Egyptian PGD in Chest Diseases-1991 Faculty of Medicine - Alexandria University- Egypt.
Administrative Duties	1. Internal Medicine coordinator of MBBS - Year 4 2. Coordinator of Biomedical Research Subcommittee -FoM 3. Member - Online teaching committee-FoM 4. Member - KOSPEN Plus committee- AIMST
Publications (last 5 years)	1. Co-author- study title “Classification of asthma severity levels by wheeze sound analysis. Proceedings - 2016 IEEE Conference on Systems, Process and Control, ICSPC 2016 (2017) 172-176 DOI: 10.1109/SPC.2016.7920724 2. Co-author of study title “Comparison between FEV1/FEV6 and FEV1/FVC as screening of chronic obstructive pulmonary disease October 2017 The Medical journal of Malaysia 72(5):286-290 3. Co-author A Performance Comparison of Wheeze Feature Extraction Methods for Asthma Severity Levels Classification 2018- 9th IEEE Control and System Graduate Research Colloquium (ICSGRC)=Year: 2018 4. Co-author of study title “a fuzzy rule-based expert system for asthma severity identification in emergency department: Vol 18 No 4 (2019): Journal of Information and Communication Technology (JICT) Vol.18, No.4, October 2019 - pp: 415-438 5. Corresponding author title “Early Screening of Diabetic Foot Ulcer using PeDiCare” ISBN: 978-967-5492-19-8 Published by: Sunway University Press.20202
On-going Research	Investigating feasibility of phonocardiography based spectral patterns as potential non-clinical biomarker for structural deformities in heart (<i>In collaboration with University Malaysia Perlis and Hospital Sultanah Bahiah</i>)
Completed Research	1. “Offset versus Onset Electrodes in Stress and Holter Monitoring Application ” 2. “Early Screening of Diabetic Foot Ulcer using PeDiCare” (<i>In collaboration with University Malaysia Perlis</i>) 3-A fuzzy rule-based expert system for asthma severity identification in emergency department.
Research Grants	Investigating feasibility of phonocardiography based spectral patterns as potential non-clinical biomarker for structural deformities in heart. (<i>Grant is under University Malaysia Perlis</i>)

Consultancy	University Malaysia Perlis- Biomedical; Engineering Program. Supervision of final year Integrated Design Project (IDP) since 2015-2020 till now
Awards	<ul style="list-style-type: none"> ~ Ministry of Health Malaysia -State Health of Perlis Perkhidmatan Cemerlang (Awards for Excellent Service) ~ University Malaysia Perlis, Malaysia Cemerlang Anugerah Tokoh (Awards for Excellent Eminent) ~ University Sumatra Utara -Medical school,Pulmonary Department ~ Malaysian Medical Association, Perlis -Award as scientific speaker ~ Family Medicine Specialist Association of Malaysia ~ Clinical Research Center (CRC) Tuanku Fauziah Hospital, Perlis ~ Egyptian Medical Syndicate- Egypt
Professional Membership	Egyptian society of allergy and immunology - Egypt
Current Supervision 2020/2021	<ol style="list-style-type: none"> 1. Student Name: Dr. Dinesh Veerapatran MSc in Medical Physiology Batch 05 Title: The Role of Incentive Spirometry in Improving the Expiratory Flow Rates of Active Cigarette Smokers 2. SSM -MBBS -Batch 22- Group A- Title “Awareness of Hazard of New Type of Smoking Among Private University Students 3. SSM -MBBS -Batch 23 group D – Title “Assessment of personal protective equipment (PPE) knowledge of Covid19 among medical students” 4. SSM MBBS -Batch 23 group D – Title “Awareness and action towards symptoms and risk factors of heart attack among AIMST students” 5. Final year biomedical engineering program ~University Malaysia Perlis, Integrated Design Project (IDP) “Convertible multipurpose wheelchair” 6. Final year biomedical engineering program ~University Malaysia Perlis, Integrated Design Project (IDP) “Portable Oxygen Concentrators for Covid19”
Teaching	<p>Internal Medicine</p> <ol style="list-style-type: none"> 1. MBBS - Year 2 2. MBBS - Year 3 3. MBBS - Year 4 4. MBBS - Year 5 5. BDS - Year 3
Areas of Expertise	Respiratory Medicine /Diabetes/ Biomedical Engineering/ Medical Quality and innovation studies
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