BRIEF BACKGROUND

Biography

Ahmad Nazlim Yusoff (PhD, Assoc. Prof.)

Physicist
Center for Diagnostic, Therapeutic and Investigative Studies (CODTIS)

Qualification:
BSc, Universiti Kebangsaan Malaysia, 1993
MSc, Universiti Kebangsaan Malaysia, 1996
PhD, Universiti Kebangsaan Malaysia, 2000

Ahmad Nazlim Yusoff, is a Physicist and a Researcher at the Centre for Diagnostic, Therapeutic and Investigative Studies (CODTIS), Faculty of Health Science (FHS), Universiti Kebangsaan Malaysia (UKM). He is currently the Chair of CODTIS from December 2022 until November 2025. He obtained his Bachelor of Science (B.Sc.), Masters of Science (M.Sc.) and Doctor of Philosophy (Ph.D), in Physics, from UKM. His Ph.D. thesis was about the interaction of magnetic and dielectric materials with magnetic and microwave fields with a special focus on energy absorption by using a specular reflection method. He teaches physics courses in the Diagnostic Imaging & Radiotherapy Program, UKM, particularly general physics, the physics of magnetic resonance imaging and the physics of medical ultrasonography. Outside UKM, he had delivered lectures on magnetic resonance imaging (MRI) physics and safety at the Institut Teknologi Sepuluh Nopember (ITS), Indonesia and been appointed as PhD and Masters theses examiner by various national institutions. He is a Fellow of the Malaysian Solid State Science and Technology Society (SSSTS), Fellow of the Malaysian Association of Medical Physics (MAMP) and a Life Member of the Malaysian Institute of Physics (MIP). He was recently appointed as the External Examiner for Academic Program by the Faculty of Science and Technology (FST), Universiti Sains Islam Malaysia (USIM). Due to his experience in non-ionising physics, he had also been appointed as a member of the Sub-working Committee for Magnetic Resonance Imaging, Laser, Ultraviolet and Ultrasound, by the Ministry of Health Malaysia. He was also appointed as the Editor-in-Chief for Physics and Technology in Medicine (2019 – 2021) and currently holding the posts of Editor-in-Chief for Buletin Sains Kesihatan and Journal Manager for the Solid State Science and Technology journals. His research interest is on the study of human brain function using functional magnetic resonance imaging (fMRI) technique from which, the data obtained are analyzed using statistical parametric mapping (SPM) and dynamic causal modelling (DCM). His current research is on the characteristics of the default mode network, parts of the brain structure that manifest higher neural activity when one is at rest. Studies have also been carried out by him to produce possible MRI phantoms which can be made easily from cheap and

available materials, such as using agar gel and slime. The study among others investigated the suitability (homogeneity, stability and reproducibility) of the materials as MRI phantom by evaluating their SNR, T1 and T2 relaxations as a function of time after preparation.