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Prevention of kidney diseases through a systems biology approach

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The key to preventing kidney diseases is in maintaining the body regulatory mechanisms in an optimum physiological state. Cellular functions are sensitive to the state of the extracellular matrix. Genetic and epigenetic factors interact in a myriad of ways to control cell phenotype through cell-matrix interactions thereby leading to a healthy or disease state. Each patient is unique in his/her physical, mental, social and psychospiritual domains, his environment and his lifestyle. The world we live in has changed so much with unprecedented environmental degradation, pollution, agricultural food production methods, xenobiotics in animal husbandry and endocrine disrupting chemicals, all contributing to dysfunctions in our body regulatory systems. The unbalanced external ecological system reflects itself in our own inner ecosystem, disrupting our immunological, endocrine and neurological systems. All these compounded by emotional and physical stresses lead to poorer cellular health and vitality. The objective of classical cell therapy has always been the enfreshment/restoration of the functional capability of the cells and their functional associates, the tissues and organs. It aims at producing a state of health thereby eliminating symptoms. In the Genomic era today, we see the possibility of using genomics, epigenomics, transcriptomics, proteomics, metabolomics, microbiomics (multi -omics) to provide biomarkers for prevention, ill health and healing. This is an exciting scientific development. A more integrative approach to medicine and research is imperative where positive outcomes of treatment are studied in the context of systems biology to find ways to correct the identifiable pathway perturbations thereby leading to treatment. The speaker will discuss management of kidney disorders with fetal precursor stem cell transplantation and the preparatory protocol to achieve the best possible state of the extracellular matrix. He will touch on the role of microbiome, nutrients, lifestyle, environmental and psychospiritual factors in influencing phenotypic expression through epigenetic mechanisms.

Biography

Abdul Halim Abdul Jalil is a Professor of Pediatrics at Lincoln University College, Petaling Jaya, Malaysia and is Consultant Paediatrician at KPJ Ampang Puteri Specialist Hospital. He was former Director of the Reproductive Research Centre, the National Population and Family Development Board, the Prime Minister's Department (1985-1990). His research interests include cholestatic jaundice in infancy, developmental and behavioural problems of childhood, cellular and molecular medicine. He is currently active in research on fetal precursor stem cells since 2006 for the treatment of medical conditions untreatable in mainstream medicine and on the use of eco-ultrafiltrates for treatment of genetic and chromosomal abnormalities in children. He is currently Senior Medical Consultant/Scientist to Fetal Cell Technologies International and is the author of 4 books on child health and 3 books on Live Cell Therapy the latest titled "Hope for untreatable medical conditions. Live cell therapy explained" (currently in print in the UK).

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