



MAHSA
UNIVERSITY

Masterclass in Understanding Genetics & Diseases

Faculty of Dentistry

Introduction

Deoxyribonucleic acid (DNA) that contains the genetic information is often called the blueprint of life. Genes reside in the DNA contribute to a large number of diseases ranged from congenital disorders to cancer. Based on genetic contribution, human diseases can be classified as monogenic, chromosomal, or multifactorial. Contribution of the noncoding parts of the DNA to disorders fall under the umbrella of epigenetics. This Masterclass aims to promote interest and awareness on the complex relationship between human genetics and disorders. Besides, this timely topic serves as a starting point to explore this new field of medicine by the health practitioners. Case-based Learning will be approached to ensure relevance to clinical practice. Examples of several paediatric and adult patho-physiological conditions will be used as to illustrate the principles of genetic diseases, diagnosis and counselling.

Content

- From cell to DNA
- Role of expression of genes and non-coding DNA on human health
- Differences between polymorphism and mutation
- Genetic contribution on human diseases (monogenic, chromosomal, or multifactorial)
- Epigenetics and human diseases

What will you learn?



Appreciate the need to have a close understanding of genes and genetic diseases by health professionals.



Identify the common and rare genetic disease phenotypes and will learn how to select cases with unmet diagnostic need that will benefit from genomic testing.

Who Should Join?

- Year 1 and 2 Doctor of Dental Surgery (DDS) students
- Anyone who is interested in genetics & its relation to diseases

Duration

7 hours

Certification

Certificate of Completion by MAHSA University



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