





# Introduction AVIATION MEDICINE





# What is Aviation Medicine?

Aviation Medicine is a medical specialty which combines

- 1. preventive,
- 2. occupational,
- 3. environmental and
- 4. clinical medicine with the physiology and psychology of man in flight.





#### It is concerned with

1. the health and safety of those who fly, both crew and passengers,

2. the selection and performance of those who hold aviation

licenses.







#### Another area of concern is

#### **AVITION PUBLIC HEALTH**

Aviation can contribute to the rapid dissemination of communicable diseases – almost any city can be reached within 24 hours.

Air Operations will be restricted Reduced number of Passengers



Reduced income to the National Economies & Airlines/Supporting companies.

Aviation Medicine contributes to the mitigation and management of such health risks and other public health events.

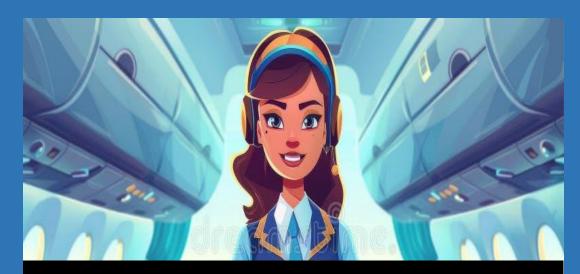




## Why is Aviation Medicine is different from other medical fields?



Other medical specialties primarily deal with abnormal physiology within a normal environment.



Aviation Medicine deal with normal physiology within an abnormal environment.





Doctors who er How abnormal environment ar

Acceleration

Altitude

**Heat Stress** 

Air pressure changes

**Aging** 

What are the co

Self-medication

Noise and vibration

AMEs needs to assess the aeromedical implications of a Pilot's physiology relatively to those increased demands required by the operational flight environment.

chosocial stress

ess Nutrition

Topacco, alconol, and drug use





DOCTOR who practices Aviation Medicine (Aviation Medical Examiner) must ensure that a Pilot is mentally and physically capable of meeting demands in rare occasions when something goes wrong.

## **AMEs** are responsible for

- 1. conducting thorough medical examinations of pilots, cabin crew members, and other aviation safety professionals and
- 2. To determine that they meet the physical and mental requirements necessary to perform their duties safely.





### **Brief introduction on Aviation Medicine**

More will be discussed in Session 2 – foundational Aviation Medicine





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