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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

AVIATION 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 en

How abnormal
environment an

What are the co
f

Acceleration

Altitude

Heat Stress

Air pressure changes

Aging

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.

Psychosocial stress

Stress Nutrition

Tobacco, alcohol, 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.**



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Brief introduction on Aviation Medicine

More will be discussed in Session 2 – foundational Aviation Medicine



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Aeromedical Services, Civil Aviation Authority of Sri Lanka.