

OVERVIEW OF VACCINATIONS AND PREVENTION OF INFECTIOUS DISEASES SKILLS COURSE

A/Prof Goh Lee Gan

INTRODUCTION

Travel related illnesses affect some 20 to 50% of individuals. Prevention is still the best strategy. This skills course aims to update the course participant on what needs to be done. Illnesses and clinical conditions that may be adversely affected by air travel require medical clearance. The non-infective travel related problems namely, motion sickness, jet-lag, air transit barotraumas, and venothrombosis can be prevented or reduced. Infections need to be prevented through food and water precautions, avoidance of insect bites, and vaccinations. The travel vaccines can be divided into required, routine, and recommended vaccinations. Other vaccines that are of importance besides travel are the influenza vaccine, and the pertussis vaccine.

COURSE CONTENT

The vaccinations and prevention of infectious diseases skills course is made up of the following components. You can choose to participate in one or more parts of it. The CME points that will be awarded are also indicated (subject to approval from SMC).

- o Distance learning course – 6 points (see below) – each unit earns 1 CME point.
- o Seminars – 2 seminars – each 2 CME points.
- o Workshop – 2 CME points.
- o Reading papers on vaccinations and prevention of infectious diseases – 10 suggested papers – each 1 CME point up to 5 points maximum for the whole CME year.

Distance learning course

Unit 1 : Travel Medicine – General Preventive Measures
(A/Prof Lim Lean Huat)

Unit 2 : Travel Medicine – Immunizations
(Dr Annelies Wilder-Smith)

Unit 3 : Influenza (Dr Wong Sin Yew)

Unit 4 : Pertussis (Dr Anne Goh Eng Kim)

Unit 5 : Childhood Vaccinations (A/Prof Lee Bee Wah, A/Prof Goh Lee Gan & Dr Lee Kheng Hock)

Unit 6 : Prevention of Hepatitis A and B
(Dr Helen Oh May-Lin)

Unit 1: Travel Medicine – General Preventive Measures

- o Epidemiology of travel related health problems
- o General preventive measures
- o Food and water precautions
- o Prevention of mosquito-borne infections
- o Early treatment of the traveler with symptoms.

Unit 2: Travel Medicine – Immunizations

- o Required vaccines
- o Routine vaccines
- o Recommended vaccines.

Unit 3: Influenza vaccination

- o Influenza virus and annual vaccine formulation
- o Types of vaccine available
- o Administration of vaccine
- o New vaccines
- o Relevance of influenza vaccination in Asia.

Unit 4: Pertussis

- o Epidemiology and its impact on strategies for prevention
- o Pathogenesis
- o Clinical features and diagnosis
- o Prevention
- o Types of vaccines and issues in pertussis vaccination.

Unit 5: Childhood Vaccinations

- o Principles of Childhood Vaccination
- o National Childhood Immunisation Schedules
- o Catch-up programmes for unimmunized or partially immunized children
- o Other childhood vaccines
- o Contraindications and adverse reactions
- o Parental concerns.

Unit 6: Prevention of Hepatitis A and B

- o Epidemiology of Hepatitis A and B
- o General preventive measures of Hepatitis A and B
- o Issues in immunization against Hepatitis A and Hepatitis B
- o Combination vaccine
- o Hepatitis B immune globulin.

FACE-TO-FACE SESSIONS

Seminar 1: 16 July 2005

2.00pm – 4.00pm

Unit 1 : Travel Medicine – General Preventive Measures
(A/Prof Lim Lean Huat)

Unit 2 : Travel Medicine – Immunizations
(Dr Annelies Wilder-Smith)

Unit 3 : Influenza (Dr Wong Sin Yew)

Workshop 1: 16 July 2005

4.15pm – 6.15pm

Group A : Travel Medicine Case Studies

1. A person planning to go on holiday to an exotic location.
2. A traveller who had fallen ill.

Group B : Case Studies on Vaccinations

1. Common practical problems encountered in childhood vaccinations.
2. Strategies for a successful vaccination programme in your clinic.

Seminar 2: 17 July 2005

2.00pm – 4.00pm

Unit 4 : Pertussis (Dr Anne Goh Eng Kim)

Unit 5 : Childhood Vaccinations (A/Prof Lee Bee Wah)

Unit 6 : Prevention of Hepatitis A and B
(Dr Helen Oh May-Lin)

Workshop 2: 17 July 2005 (REPEAT)

4.15pm – 6.15pm

Group A : Travel Medicine Case Studies

1. A person planning to go on holiday to an exotic location.
2. A traveller who had fallen ill.

Group B : Case Studies on Vaccinations

1. Common practical problems encountered in childhood vaccinations.
2. Strategies for a successful vaccination programme in your clinic.