

Highlight on Health Medical Developments-Expected Questions 2017 Part-1 (Download PDF)

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We will be covering the important questions and topics for competitive examinations for 2017 related to Defense and related policies. As per video tutorials and lectures at [YouTube@Examrace](#)

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Expected Questions on Health: UPSC IAS 2017

HANSEN'S DISEASE

- Leprosy or Hansen's disease (HD)
- Chronic infection by bacteria Mycobacterium leprae and Mycobacterium lepromatosis
- Initially infections are without symptoms and remain for 5 - 20 years.
- Granulomas of the nerves, respiratory tract, skin, and eyes. Lack of ability to feel pain and thus loss of parts of extremities due to repeated injuries.
- 2 main types of disease based on number of bacteria: paucibacillary (few) and multibacillary (more than 5). Differentiated by number of poorly pigmented numb skin patches present.
- Diagnosis: Find acid-fast bacilli in skin biopsy or detect DNA by polymerase chain reaction
- Common in poor people & transmitted by respiratory droplets.
- Leprosy is curable with treatment.
- Treatment for paucibacillary leprosy: Dapsone and rifampicin for 6 months.
- Treatment for multibacillary leprosy: Rifampicin, dapsone, and clofazimine for 12 months. These treatments are provided for free by WHO.

LEPROSY

- Anti-Leprosy Day: 30th January on martyrs' day to commemorate MK Gandhi's selfless service to Leprosy patients.
- India started MDT with World Bank and WHO in 1993 till 2004, but it stopped when leprosy was declared eradicated from India.

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- Later Started again
- Free of cost treatment.
- Leprosy is chronic infectious disease that affects nervous system.
- Cause disability and permanent blindness.
- Caused by bacteria called Mycobacterium Leprae.
- Spread through contact with untreated patients.
- Not hereditary.
- Curable with Multi-Drug Therapy (MDT): Combines 3 drugs to kill bacteria.

Image Shows Some Important Location of Leprosy

TB Free India by 2030

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- WHO South East Asian Region: Half of the global tuberculosis burden. Six of the region's countries Bangladesh, South Korea, India, Indonesia, Myanmar and Thailand are among 30 high TB burden nations globally.
- 2015 in SE Asia: Estimated 4.74 million new TB cases & nearly 8, 00, 000 deaths.
- India: Single highest number of TB cases in the world
- India: 2.8 million new TB cases annually & half a million deaths.
- Infectious, airborne disease caused by the bacterium Mycobacterium tuberculosis.
- Mainly affects the lungs.
- Transmitted from person to person through the air

BEDAQUILINE

- For Drug Resistant TB
- Diarylquinoline that specifically targets Mycobacterial ATP synthase (an enzyme that supply energy to Mycobacterium tuberculosis and most other mycobacteria)

Image of Bedaquiline

H10N8

- Its avian influenza virus
- Pneumonia and fever.
- Contact with infected bird dead or alive.