

## A case of hypopigmented skin lesions in a 33 year old patient

A 33-year-old male, construction worker at AIIMS site, native of Bihar, presented to the Dermatology OPD with complaints of white patches over the body from last 2 years. The patient first noticed these patches over the trunk which gradually increased in size and over a period of time, involved upper and lower limbs. This was also associated with loss of sensation over areas of hands, part of forearms and feet. Prior to the consultation in our hospital, the patient has visited local practitioner at his hometown but found no improvement in his clinical condition.

Local examination revealed:

- Multiple hypopigmented patches with satellite lesions over the upper limb, lower limb and trunk (Fig 1-4)
- Inverted saucer shaped lesions were present over the back
- Pseudopods +
- Face Infiltrated
- Glove and stocking type of anaesthesia over hand and feet
- Pen, card test +, book test +
- Wartenberg sign +
- Motor - 4/5 UL, 4/5 LL
- Ulnar - Left ++, Right ++
- Radial cutaneous - L +, R +
- Lateral popliteal - L ++, R ++
- Post tibial - L +, R +
- Nails - Dystrophy+

Based on the above findings, the provisional diagnosis of Hansen's disease was made. Slit skin smears from both ear lobes were sent for microbiological examination.

Modified ZN staining showed Acid fast bacilli consistent with *Mycobacterium leprae*. (Fig 5) Patient was referred to PDU for skin biopsy and MDT (Multi-drug therapy). Next follow up was planned after 14 days.



1



2



3



4

**Fig 1-4: Multiple hypopigmented patches over trunk, back and upper limbs. Note the finger like projection lesions (Pseudopods)**

## Slit Skin Smear Examination

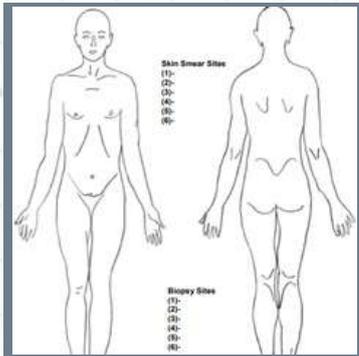
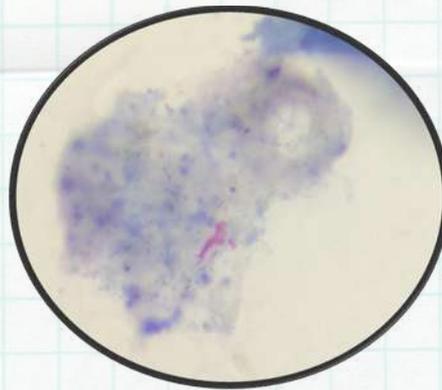


Fig 5: Modified ZN staining showing Acid fast bacilli (1000x)

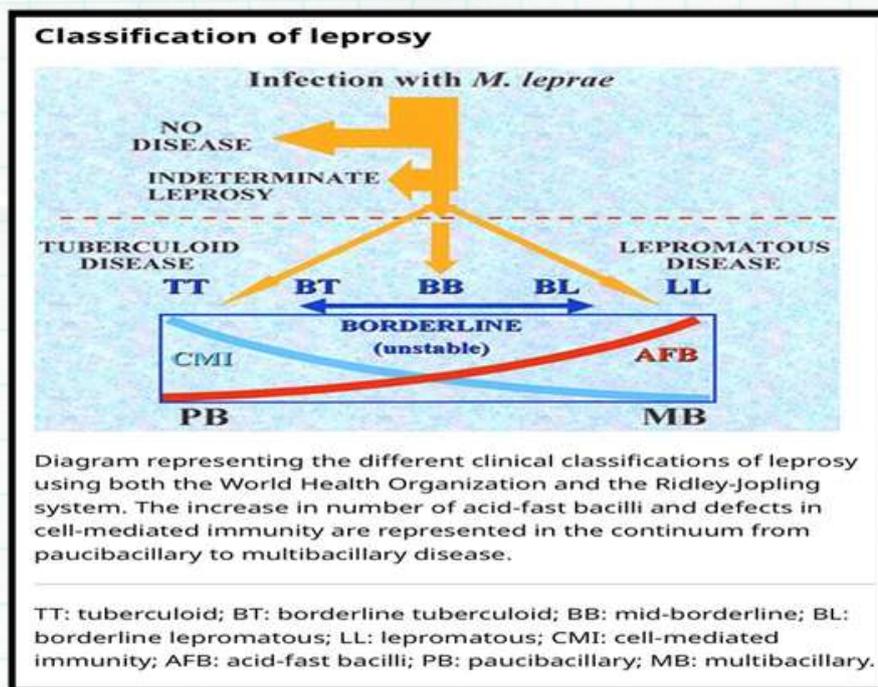


Skin smear is a valuable, cost-effective tool in the routine management of the patient with Hansen's disease. The smear is a means of estimating the number of acid-fast bacteria present, reported as the Bacterial Index (BI), and is important in determining the type and severity of disease as well as assessing the response to treatment.

Initial skin smears are usually taken from 6 "routine sites" (both earlobes, elbows, and knees) as well as several typical lesions from the patient - Forehead, cheek, chin, buttock.

Repeat smears are obtained from 3 to 4 of the most active sites previously tested to evaluate progress.

## Borderline Lepromatous case



## Take Home Message

Leprosy is one of the world's oldest and most dreaded diseases with which mankind has been struggling for thousands of years. It exhibits a wide variation in presentation in different persons ranging from tuberculoid to lepromatous spectrum depending on the immune status of the individual. Early detection and treatment can curb the deformities and morbidity caused by it. The new mantra of leprosy management has focus on "interruption of transmission," rather than "elimination of leprosy."

The standard adult treatment regimen for MB (multibacillary) leprosy consists of:

Rifampicin (600mg once a month); Clofazimine (300mg once a month, and 50mg daily); Dapsone (100mg daily)

Duration: 12 months (12 blister packs of 28 days each)



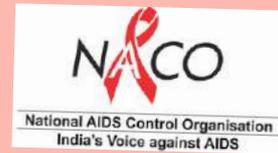
# DEPARTMENT OF MICROBIOLOGY INFECTIOUS DISEASE BULLETIN

VOLUME 1 ISSUE 5

MAY 2022

What's New in  
Lab

Integrated Counselling and Testing Centre (ICTC)



ICTC centre has been set  
up at AIIMS Rajkot on  
29th April 2022

**An ICTC is a place where a person is counselled and tested for HIV, of his own free will or as advised by a medical provider.**

**The main functions of an ICTC are:**

- **Conducting HIV diagnostic tests**
- **Providing basic information on the modes of HIV transmission, and promoting behavioural change to reduce vulnerability**
- **Link people with other HIV prevention, care and treatment services**



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## Disease Outbreak News (DONs) - May 2022

### 1. Monkeypox - United Kingdom of Great Britain, Northern Ireland and America

<https://www.who.int/emergencies/disease-outbreak-news/item/2022-DON383>

<https://www.ndtv.com/world-news/us-confirms-1st-case-of-monkeypox-in-man-who-recently-travelled-to-canada-2989042>



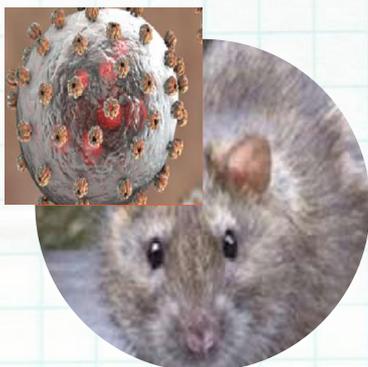
### 2. Middle East respiratory syndrome coronavirus - Oman and Qatar

<https://www.who.int/emergencies/disease-outbreak-news/item/2022-DON380>

<https://www.who.int/emergencies/disease-outbreak-news/item/2022-DON370>

### 3. Cholera - Cameroon

<https://www.who.int/emergencies/disease-outbreak-news/item/2022-DON374>

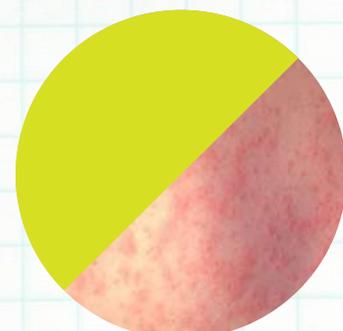


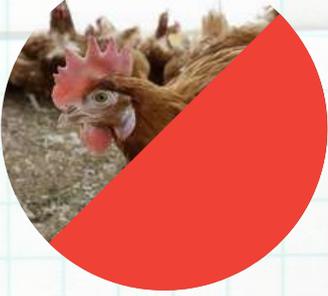
### 4. Lassa fever - Guinea

<https://www.who.int/emergencies/disease-outbreak-news/item/2022-DON382>

### 5. Measles - Somalia

<https://www.who.int/emergencies/disease-outbreak-news/item/2022-DON371>



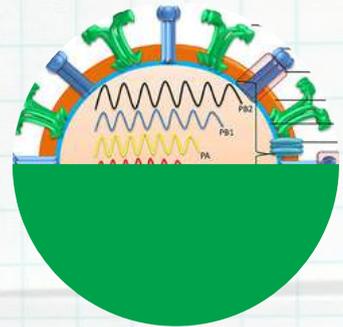


### 6. Avian Influenza A(H3N8) - China

<https://www.who.int/emergencies/disease-outbreak-news/item/2022-DON378>

### 7. Avian Influenza A (H5N1) - United States of America

<https://www.who.int/emergencies/disease-outbreak-news/item/2022-E000111>



## What's new in MRSA treatment?



**India's First New Discovery Antibiotics from Wockhardt Granted Indian Regulatory Approval**

Indian drug regulator, DCGI has approved Wockhardt's 2 new antibiotics, EMROK (IV) and EMROK O (Oral), for acute bacterial skin and skin structure Infections including diabetic foot infections and concurrent bacteremia.

**EMROK / EMROK O: The Modern Gram positive Antibiotic against Methicillin Resistant *Staphylococcus aureus* Infections**



**UNIQUE FEATURES OF EMROK**

