Event Report

OPERATION OUTBREAK – DECODING ZOONOSES

Date: 5th July 2025
Venue: Lecture Hall 2, Neelima Institute of Medical Sciences, Ghatkesar, Hyderabad, Telangana
Organized by: Department of Microbiology in collaboration with Team COHESION

Significance of World Zoonoses Day:

World Zoonoses Day, observed annually on **6th July**, commemorates the landmark achievement of **Louis Pasteur's first successful rabies vaccination** in 1885. It serves as a global reminder of the **rising threat of zoonotic diseases**—those transmitted from animals to humans—and the growing need for **interdisciplinary approaches to sustain Global health**. With recent outbreaks such as Nipah, Avian Influenza, and COVID-19 highlighting the urgency of timely response and surveillance, this day calls for proactive learning and preparedness rooted in the **One Health** framework.

Following the call by **Centre for One Health** at NCDC, MoHFW to observe **World Zoonoses Day**, the **Department of Microbiology**, Neelima Institute of Medical Sciences with support from **Team COHESION (**Consortium for One Health Education, Scientific Innovation and Outreach Network - student club) designed and conducted an interactive, simulation-based game, aimed at sensitizing medical students to the practical aspects of zoonotic disease outbreak investigation.

About the Event:

As part of the World Zoonoses Day observance, an academic simulation titled **"Operation Outbreak – Decoding Zoonoses"** was held on **5th July 2025**, exclusively for **second-year MBBS students (2023 batch)**. The event was structured as a **mock outbreak investigation**, allowing participants to assume the role of frontline responders. Divided into **4 teams** of **3 members each**, the students were presented with a fictional zoonotic case scenario. Their objective was to identify:

- The **Disease**
- The **Reservoir or Source & Mode of Transmission**
- The **Treatment**
- The **Prevention Strategy**

To simulate real-time diagnostic challenges, a **bidding system for clues** was introduced, encouraging strategic thinking and collaborative decision-making among the students.

Game Format & Scoring System:

Each team began with **100 base points** and used the points to bid for clues of varying diagnostic value:

Clue Type	Point Value
Basic information	5 points
Clinical/ Environmental findings	15 points
Intermediate Diagnostic findings	25 points
Strong Diagnostic Indicators	50 points
Confirmatory/High-Yield findings	75 points

Teams could choose to submit their diagnosis at any stage. Once submitted, they exited the bidding phase.

Final Score = Answer Points (Max 20) + Remaining Points after bidding

Scoring Component	Points
Correct Disease Name	5
Correct Source & Mode of Transmission	5
Correct Treatment	5
Effective Prevention Strategy	5

Winning Team:

Team 3

- ***Omer Ahmed Mahetab – MBBS 2023 batch***
- ***Deeptanshu Taank – MBBS 2023 batch***
- ***Faiz Shah Syed – MBBS 2023 batch***

The **winning team** received **Certificates of Appreciation** for their exceptional performance and diagnostic strategy. All other participants will be awarded **Certificates of Participation** for their active and enthusiastic involvement.

Roles and Collaborative Contributions:

The success of this event was made possible through a shared commitment to academic excellence:

- The **Department of Microbiology** meticulously curated the **case scenarios, diagnostic clues, and scoring system and workflow of the event**, ensuring scientific accuracy and educational depth.
- **Team COHESION** designed the **promotional poster**, and managed **photography and on-ground coordination**, enhancing the event's engagement.

Educational Impact:

"Operation Outbreak – Decoding Zoonoses" offered students a unique opportunity to bridge theory with practice. By engaging in a simulated outbreak investigation, participants deepened their understanding of **zoonotic transmission dynamics**, strengthened their skills in **clinical reasoning**, and appreciated the value of **One Health preparedness**.

In addition to technical knowledge, the event fostered essential soft skills such as **teamwork**, **strategic thinking**, and **decision-making**—competencies vital to the next generation of healthcare professionals.

Acknowledgments:

The **Department of Microbiology** extends its sincere gratitude to the management for granting permission and the necessary infrastructure for conducting the event. We are thankful to the administration & honorable **Dean, Prof (Dr.) Lakshmi Prasanna** for the unwavering support and encouragement. Also, the enthusiasm and active participation of the students and volunteers in noteworthy. **Team COHESION** is grateful to the Department of Microbiology for its guidance, encouragement, and commitment to innovative academic & teaching-learning methods.

Inspired by the overwhelming response and active participation, we look forward to hosting more such experiential learning initiatives in the Institution.

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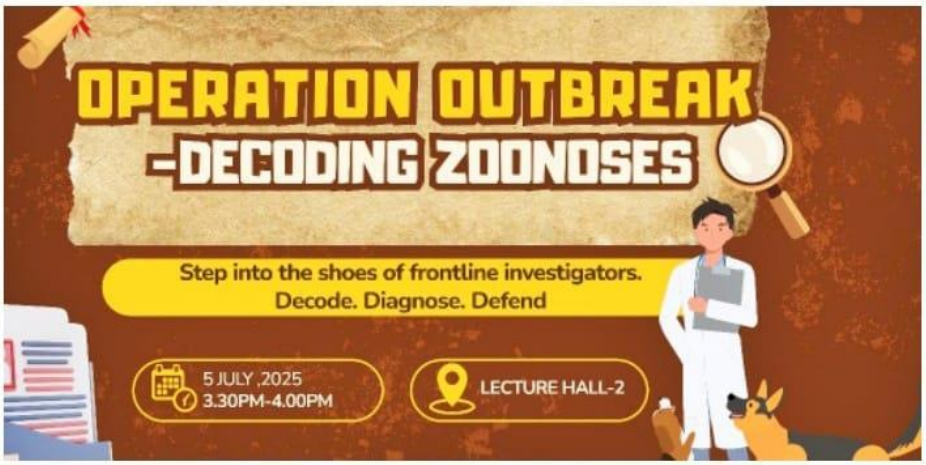
Base-line information – Clinical Scenario
A 35-year-old male presented with
low back pain, and personality changes


OPERATION OUTBREAK
-DECODING ZOONOSES
Step into the shoes of frontline investigators.
Decode. Diagnose. Defend
5 JULY ,2025
3.30PM-4.00PM
LECTURE HALL-2

NEELIMA
INSTITUTE OF MEDICAL SCIENCES

OPERATION OUTBREAK
-DECODING ZOONOSES

STEP INTO THE SHOES OF FRONTLINE INVESTIGATORS. DECODE. DIAGNOSE. DEFEND

05 JULY 2025

3.30 PM -4.00PM

LECTURE HALL-2

What's the Challenge?

Simulate a mock outbreak of a deadly zoonotic disease

- Investigate clues
- Analyze lab reports
- Trace the source
- Diagnose and design control strategies

Uncover the mystery pathogen before it spreads!

Who Can Participate?

- Exclusively for Second Year MBBS Students
- Teams of 3 students each
- 4–5 teams only