17/05/2024 FRIDAY

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**DAILY NEWS ANALYSIS** 

POLITY

ECONOMICS

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**ECOLOGY** 

#### INDIAN POLITY

# SC limits ED'S power to arrest PMLA accused

**CONTEXT:** Supreme Court boosts personal liberty, ruling PMLA summonsed individuals aren't presumed in custody and needn't seek strict bail.

**HIGHLIGHTS:** The Supreme Court ruled that appearing before a special court in response to a summons does not constitute custody, eliminating the need for bail. The Directorate of Enforcement (ED) must apply separately for custody with specific grounds for custodial interrogation. The special court can require bonds under Section 88 of the CrPC, which is not equivalent to bail.

## Easing conditions

The major takeaways from the Supreme Court verdict on the Prevention of Money Laundering Act are:



- An accused is presumed to be not in custody if he appears in court on summons
- The court can direct the accused to furnish bonds in terms of Section 88 of the Code of Criminal Procedure
- The ED has to apply to a special court for custody, giving specific reasons

## **Supreme Court Clarifies ED Custody and Bail Conditions under PMLA**

- Custody Application: The ED must separately apply for custody of a person appearing in court, providing specific grounds for necessitating custodial interrogation.
- Bond Clarification: The special court can require the accused to furnish bonds under Section 88 of the CrPC, which doesn't equate to bail, bypassing PMLA's twin conditions.
- Anticipatory Bail: The judgment stemmed from Tarsem Lal's appeal against a denial of anticipatory bail by the Punjab and Haryana High Court.
- Bail Conditions: Section 45 of the PMLA imposes stringent bail conditions, requiring proof of innocence and assurance against re-offense, heavily burdening the accused.
- Appearance and Warrants: An accused can be exempted from future personal appearances; non-compliance after summons can lead to bailable, then non-bailable, warrants.

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#### **Prevention of Money Laundering Act, 2002**

- Distinct Objective: The PMLA, 2002 was enacted to combat the destabilizing effects of black money generated through international drug trafficking and integrated into the legitimate economy.
- Legislative Basis: Enacted under Article 253 of the Indian Constitution, the PMLA aligns with international conventions and FATF recommendations to address money laundering.
- Crime Proceeds: PMLA targets both direct participants in crime and those involved in laundering proceeds, addressing serious economic crimes threatening global stability.
- Regulatory Authority: The ED enforces PMLA provisions, investigates money laundering, and has civil court powers under Section 50 for summoning and recording statements.
- Controversial Provisions: PMLA's Section 19 and Section 50 have been criticized for infringing on fundamental rights, including the right to be informed of charges and protection against self-incrimination.

#### INTERNATIONAL RELATIONS

# Ahead of ukraine peace conference, swiss diplomat to hold talks in india

**CONTEXT:** Swiss Foreign Secretary visits India to urge MEA officials for a response on the upcoming global Ukraine peace conference.

**BACKGROUND:** India has been invited to the "Summit on Peace in Ukraine" in Burgenstock, Switzerland, on June 15-16. Swiss and Ukrainian foreign ministers have discussed this with India's External Affairs Minister S. Jaishankar. With India's response still awaited, Swiss Foreign Secretary Alexandre Fasel will meet MEA officials to seek confirmation of India's participation.

## India's Participation in Swiss Peace Conference Remains Uncertain

- Undecided Participation: The Indian government has yet to decide on attending the Swiss peace conference or at what level to participate.
- Bilateral Discussions: Mr. Fasel's visit follows the signing of the India-EFTA trade pact and includes discussions with Secretary (West) Pavan Kapoor on the conference and trade issues.
- Global South Focus: The conference organizers aim to include BRICS (minus Russia) and Global South countries to ensure

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diverse perspectives on peace in Ukraine.

- Diplomatic Importance: Diplomatic sources highlight India's crucial role and influential voice in global discussions, urging its participation in the summit.
- Election Considerations: India's decision on attending the Swiss conference is pending until after the elections, while a potential G-7 plus meeting in Italy is indicated if Modi is re-elected.



## India-EFTA Trade And Economic Partnership Agreement

- TEPA Approval: The Union Cabinet, led by the Prime Minister, approved the signing of the Trade and Economic Partnership Agreement (TEPA) with EFTA States.
- Historical FTA: TEPA marks India's first FTA with four developed nations, aiming for \$100 billion investment and 1 million direct jobs in 15 years.
- Market Access: EFTA offers 92.2% of its tariff lines, covering 99.6% of India's exports, while India offers 82.7% covering 95.3% of EFTA exports.
- Exclusion List: Sensitive sectors like dairy, soya, coal, and certain agricultural products are excluded, ensuring protection for domestic industries.
- Service Sectors: TEPA stimulates India's key service sectors like IT, business services, and education, securing commitments from EFTA countries in various sub-sectors.
- IPR Commitments: TEPA's IPR provisions are at TRIPS level, addressing India's interests in generic medicines and patent concerns, especially with Switzerland.
- Sustainable Development: India commits to sustainable growth, social development, and environmental protection, ensuring transparency and harmonization of trade procedures.
- Economic Boost: TEPA supports "Make in India" and "Atmanirbhar Bharat" by promoting domestic manufacturing, vocational training, and technology collaboration in various sectors.



"Education is the ability to listen to almost anything without losing your temper or your self-confidence." - Robert Frost

#### **ECONOMICS**

#### **Trade imbalance**

**CONTEXT:** India's merchandise exports rose slightly by 1.07% in April 2024, following a 3% decline in 2023-24 due to global disruptions.

**BACKGROUND:** India's merchandise exports showed a slight improvement in April 2024, recording \$34.99 billion, a 1.07% increase from the previous year. Despite this, 17 out of the top 30 export items experienced year-on-year declines, highlighting ongoing challenges amid geopolitical and logistical disruptions in global trade.

#### India's Trade Balance Affected by Rising Oil and Gold Prices

- Minor Growth Driven by Key Sectors: Minor growth last month was driven by pharma, chemicals, electronics, and petroleum products, which rebounded due to higher global oil prices.
- Impact on Trade Deficit: Surge in oil and gold prices pushed India's goods import bill up by 10.25% to over \$54 billion, resulting in the highest trade deficit in four months at \$19.1 billion.
- Future Challenges: If OPEC+ extends output cuts, oil prices could reach \$100 a barrel, while global demand for gold as a safe haven may further pressure India's trade balance and the rupee.

#### India's Export Strategy in a Recovering Global Economy

- Global Trade Outlook: After a 1.2% decline in 2023, global trade volumes are expected to grow by 2.6% this year, boosting India's export opportunities in key Western markets.
- Challenges in Labour-Intensive Sectors: India must address challenges in labour-intensive sectors like garments and footwear to compete with Bangladesh and Vietnam.
- Sectoral Downward Trends: Garments, footwear, and gems and jewellery continued to face downward trends in April, requiring urgent intervention to reverse the decline.
- Quality and Compliance Concerns: Addressing concerns about product quality (e.g., spices, drugs) and labour and environmental issues (e.g., shrimp exports) is crucial for maintaining market credibility.
- Export Revitalization: The next government needs to focus on reinvigorating agricultural exports and ensuring a balanced trade while leveraging the prospects of a healthy monsoon.



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#### SOCIAL JUSTICE

# Health advice to take with no pinch of salt

**CONTEXT:** Despite public interest in COVID-19 vaccine risks, hypertension, a significant risk for heart attack and stroke, is often overlooked.

**BACKGROUND:** Hypertension, often undetected until complications arise, remains a major global health challenge. It causes more preventable deaths annually than tobacco use or high blood sugar. Despite its prevalence and impact, a significant number of people with hypertension are unaware, undiagnosed, or untreated, emphasizing the urgent need for improved awareness, diagnosis, and management globally and in India.

#### Addressing Hypertension and Salt Intake in India

- Salt Intake and Cardiovascular Risks: Excessive salt intake contributes to 2 million cardiovascular disease deaths annually, with Indian adults consuming double the WHO-recommended amount.
- Impact on Mortality: Reducing salt intake could lower cardiovascular disease risks by 30% and mortality by 20%.
- Health Camp Findings: A Delhi-based NGO conducted 50 health camps detecting high rates of diabetes and hypertension, particularly among women, migrant workers, and low-income groups.
- Government Initiative: India aims to standardize care for 75 million people with hypertension and diabetes by 2025 through the India Hypertension Control Initiative (IHCI).
- Collaborative Efforts: IHCI involves collaboration between ICMR, Ministry of Health and Family Welfare, WHO India, and other partners, focusing on improving awareness, detection, and treatment of hypertension.

#### Addressing Hypertension: Strategies for India

- IHCI Implementation: IHCI employs simplified protocols and team-based care to enhance access to health services and reliable drug supply.
- Programmatic Learnings: Simple protocols and streamlined monitoring lead to improved access to care and quantifiable performance assessment.
- Global Health Impact: Scaling up hypertension control initiatives could prevent millions of cardiovascular deaths and reduce disability adjusted life years.
- Public Health Interventions: Raise awareness about hypertension risks and implement evidence-based interventions like IHCI.
- Multi-Sectoral Approach: Intensify efforts to reduce salt intake, revisit non-communicable disease prevention plans, and enforce food regulations for healthier lifestyles.

Regular blood pressure monitoring should be integrated into daily life. Access to blood pressure measurement devices should be increased in public places like malls, shops, and pharmacies, offering free or affordable checks. Workplaces should provide functional BP apparatus, and healthcare providers should encourage regular BP monitoring during visits. These steps are crucial to improving awareness and control of hypertension.

#### POLITY AND GOVERNANCE

# Politics served with concise social media content

**CONTEXT:** India faces rapid changes in information dissemination due to social media, impacting political narratives and potentially altering election outcomes.

**BACKGROUND:** The landscape of information consumption in India is rapidly evolving, driven by the surge in social media use, especially in vernacular languages. This shift emphasizes instant gratification and influences political narratives, potentially swaying election results. The largely unregulated digital environment and polarized political climate require vigilance to mitigate the spread of disruptive misinformation.

## Impact of Short Attention Spans and Social Media on Political Dynamics

- Attention Span Decline: Human attention spans have dropped to 45 seconds, driving the rise of viral, short-form content on social media.
- Political Influence: Short, viral content on social media can boost the influence of obscure figures and political parties alike.
- Social Media Power Shift: The BJP's early adoption of social media is seen as a key factor in its political dominance since 2014.
- Congress' Response: The Congress has ramped up its social media presence since 2019, but BJP still leads in engagement.
- Impact on Political Landscape: Social media platforms' focus on viral content can overshadow factual narratives, affecting political dynamics globally.

#### Impact of Viral Political Content on Political Narratives

- Viral Video by Dhruv Rathee: A video titled "Is India Becoming a Dictatorship" by vlogger Dhruv Rathee went viral, sparking widespread discussion.
- Content Designed to Go Viral: The video's format allowed easy splicing into shorter segments, catering to short attention spans and facilitating virality.
- Political Firestorm: The video generated hundreds of 'shorts', creating a narrative firestorm challenging BJP sympathizers.
- Shift in Political Dynamics: Political roles inverted as an independent content creator set the narrative, later amplified by political parties.
- Opposition's Social Media Strategy: Opposition parties now rely on independent influencers to create viral content, changing social media dynamics.

The evolving media landscape, driven by social media and instant gratification, has undermined traditional checks and balances, making political analysis more challenging. Election strategies are now shaped by rapidly changing social media narratives, posing uncertainty over who can effectively control this digital turbulence and capitalize on it for electoral gains.



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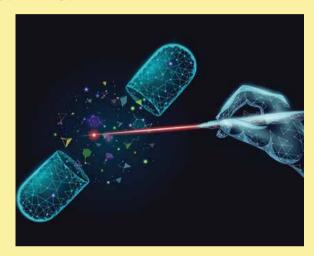
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#### SCIENCE AND TECHNOLOGY

# The use of Al In Drug Development

**CONTEXT:** All could transform drug development by accelerating target discovery and enhancing accuracy and cost-effectiveness of drug-target interaction prediction.

**BACKGROUND:** All is poised to transform drug development by enhancing target discovery and predicting drug-target interactions more accurately and swiftly. Tools like AlphaFold and RoseTTAFold, from DeepMind and the University of Washington, have marked significant advancements in computational drug development, offering promising potential to revolutionize the field.



#### **Overview of Drug Development Process**

- Identifying and Validating a Target: Drug development starts with identifying a biological target (usually a gene or protein) that the drug will bind to.
- Discovery Phase: In this phase, a target protein sequence is analyzed to find the best-fitting drug from a library of millions of small molecules.
- Pre-Clinical Testing: Potential drug candidates are tested outside a biological system to evaluate safety and toxicity using cells and animals.
- Clinical Phase: The drug is tested on a small number of human patients to assess efficacy and safety before wider testing.
- Regulatory Approval and Marketing: Successful drugs undergo regulatory approval, marketing, and post-market surveillance phases after passing clinical trials.

#### Al Advances in Drug Development

- Potential of AI in Drug Development: AI can revolutionize target discovery and drug-target interaction by reducing time, increasing prediction accuracy, and saving costs.
- AlphaFold and RoseTTAFold: Al tools developed by DeepMind and the University of Washington, AlphaFold and RoseTTAFold, use deep neural networks to predict protein structures
- Advanced Capabilities: Updated versions, AlphaFold 3 and RoseTTAFold All-Atom, can predict structures and interactions for protein, DNA, and RNA with modifications and small molecules.
- · Generative Diffusion-based Architectures: The new tools use Al

- models to predict structural complexes, improving predictions of interactions between targets and small molecule drugs.
- Performance: AlphaFold 3 predicted interactions accurately 76% of the time, outperforming RoseTTAFold All-Atom, which managed 40% accuracy in a test with 400 interactions.

#### **Limitations of AI Tools in Drug Development**

- Accuracy Limitations: Al tools can achieve up to 80% accuracy in predicting interactions, but they struggle with predicting protein-RNA interactions.
- Single Phase Assistance: These tools can only aid in target discovery and drug-target interaction, not in pre-clinical and clinical development phases.
- Diffusion-based Architecture Challenges: Model hallucinations are a challenge with diffusion-based architecture, causing incorrect or non-existent predictions due to insufficient training data.
- Code Release Restrictions: Unlike previous versions, DeepMind has not released the code for AlphaFold 3, limiting independent verification and broad utilization.
- Success Guarantee: There is no guarantee that Al-derived molecules will succeed in pre-clinical and clinical development phases, despite promising target discovery results.

India faces challenges in developing AI tools for drug development due to a lack of large-scale computing infrastructure with fast GPUs and a shortage of skilled AI scientists, unlike the U.S. and China. Despite its expertise in structural biology, India has not yet gained a first-mover advantage. However, with the growing presence of pharmaceutical organizations, India has the potential to lead in applying AI for target discovery and drug testing.

#### **POLITY AND GOVERNANCE**

# State cannot acquire property without proper procedure: SC

**CONTEXT:** The Supreme Court ruled against arbitrary state takeovers of private property without proper procedures and fair compensation.

**BACKGROUND:** The right to property, considered both a constitutional and human right, was affirmed by a Bench of Justices P.S. Narasimha and Aravind Kumar in a recent judgment. The judgment emphasized that compulsory acquisition of property is permissible only under the power of eminent domain, provided fair compensation and proper procedure are strictly adhered to, to prevent unconstitutional deprivation of property rights.

#### **Calcutta High Court Judgment on Right to Property**

- Court Upholds High Court Order: The Calcutta High Court order rejecting an appeal by Kolkata Municipal Corporation defending its land acquisition was upheld.
- Article 300A: The judgment highlighted Article 300A, which prevents deprivation of property without authority of law.
- Importance of Procedure: Procedures and processes of law are crucial for safeguarding property rights under Article 300A.
- Not Just Eminent Domain: "Authority of law" in Article 300A is not

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limited to the state's eminent domain power.

 Clarity on Legal Requirement: Mere legislative empowerment is not enough; specific laws are required to deprive a person of their property.

#### Law of the land

The SC says there are seven procedural rights of citizens which constitute the 'real content of the right to property under Article 300A'



- 1. The right to notice or the duty of the state to inform a person that it intends to acquire his or her property
- **2.**The right of the citizen to be heard or the duty of the state to hear the objections to the acquisition
- **3.** The right of the citizen to a reasoned decision or the duty of the state to inform the person of its decision to acquire a property
- **4.** The duty of the state to demonstrate that the acquisition is exclusively for public purpose
- 5. The right of the citizen to fair compensation
- **6.** The duty of the state to conduct the process of acquisition efficiently and within prescribed timelines
- 7. The right of conclusion of the proceedings

#### **Procedural Rights of Citizens in Property Acquisition**

- Seven Procedural Rights: The court identified seven basic procedural rights that private citizens have under Article 300A in property acquisition cases.
- Right to Notice: Citizens have the right to be informed or receive notice from the state about property acquisition intentions.
- Right to Be Heard: Citizens have the right to present objections to the state before any decision on property acquisition is made
- Right to Reasoned Decision: The state must provide a reasoned decision to the citizen regarding property acquisition.
- Public Purpose Requirement: The state must demonstrate that property acquisition is exclusively for public purpose.
- Right to Fair Compensation: Citizens have the right to fair compensation for their acquired property.
- Efficient Acquisition Process: The state must conduct the property acquisition efficiently and within prescribed timelines.
- Possession Completion: The court clarified that property acquisition is complete only when the state takes physical possession of the land.

#### **Right to Private Property**

- Historical Context: Before 1978, the right to property was a fundamental right, offering strong protection against state interference or deprivation.
- Constitutional Amendment: The 44th Constitution Amendment in 1978 removed the right to property as a fundamental right, but it remains a constitutional right under Article 300A.
- Article 300A: This article states that no person shall be deprived of their property except by authority of law, ensuring due process.
- Protection Under Article 19(1)(f): The right to private property is guaranteed under Article 19(1)(f) of the Constitution, allowing acquisition, holding, and disposal of property.
- Judicial Affirmation: The Supreme Court has affirmed that the right to private property is a human right and cannot be deprived without due process of law.

#### **SCIENCE AND TECHNOLOGY**

# Adolescent girls at risk after receiving covaxin, says study

**CONTEXT:** A recent report in Springer Nature highlights higher risk of adverse events from Covaxin among adolescent girls and those with co-morbidities.

BACKGROUND: An observational study published in Springer Nature found that adolescent girls and individuals with co-morbidities are more susceptible to adverse events after receiving Bharat Biotech's Covaxin (BBV152) COVID-19 vaccine. The study, conducted by researchers at Banaras Hindu University, reported that nearly one-third of participants experienced adverse events of special interest, with serious adverse events possibly occurring in 1% of recipients, warranting extended surveillance.



## Study Highlights Safety and Adverse Events of BBV152 Vaccine

- Adverse Events of Special Interest (AESI): Nearly a third of participants in an observational study on BBV152 vaccine reported AESI, with 1% experiencing serious adverse events.
- Extended Surveillance Needed: The study suggests extended surveillance following BBV152 vaccination to monitor safety over time.
- Study Findings: Adolescents reported viral upper respiratory tract infections (47.9%) and various AESIs like skin disorders (10.5%) and nervous system issues (4.7%).
- Adults' Responses: Adults showed similar viral infections (42.6%) and AESIs including general disorders (8.9%) and musculoskeletal issues (5.8%).
- Menstrual Abnormalities: Female participants reported menstrual abnormalities in 4.6% of cases, raising concerns for further investigation.



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#### **ECONOMICS**

# Exports may rebound 14% in FY25

**CONTEXT:** India's apex exporters' group predicts goods exports may reach \$500 billion this year with improving global demand and eased curbs.

**BACKGROUND:** India's apex exporters' group predicts a potential rebound in goods exports to \$500 billion this year, driven by improving global demand and anticipated relaxation of curbs on farm product shipments due to a good monsoon outlook. Despite optimism, the Red Sea crisis is causing delays and increased shipping costs, already resulting in order losses in sectors like metals and commodities, posing a threat to India's global competitiveness.

## Upbeat expectations

Goods exports may rebound more than 14% this fiscal after slipping to \$437.1 billion in FY24, FIEO says

- Red Sea crisis has raised cost, time for shipping goods to major markets, led to lost orders in metals, commodities
- Delays and higher shipping costs can spur more cancellations, hurt India's competitive edge



■ Exporters need more credit for longer tenors given payment delays

#### Red Sea Crisis Impacts Indian Exporters, FIEO Warns

- Red Sea Crisis Impact: The ongoing Red Sea crisis is increasing shipping costs and causing delays, leading to potential order cancellations in sectors like metals and commodities.
- Shift to Air Cargo: Exporters are opting for air cargo due to disrupted sea routes, but this has increased costs by up to fourfold, especially on routes like India to Europe.
- Negative Impact on Exports: FIEO President Ashwani Kumar highlighted the significant negative impact on both sea freight and air freight, severely affecting Indian exports.
- Structural Issues: FIEO flagged structural issues affecting exporters, including inadequate credit availability despite exports contributing over 20% to GDP.
- Credit Demands: Rising inflation, high commodity prices, and increased freight costs are leading to higher credit demands for exporters to manage delayed payments and longer transit times.





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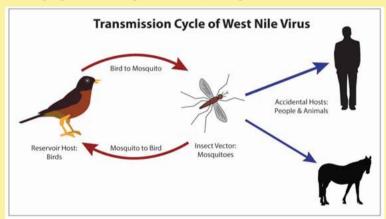
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#### SCIENCE AND TECHNOLOGY

## Kerala sounds warning on west nile virus; neighbouring states on guard

**CONTEXT:** Kerala faces an early onset of vector-borne diseases. including West Nile Fever, with several cases reported and two suspected deaths.

**BACKGROUND:** Kerala's Health department issued the first alert on May 7 regarding West Nile virus (WNF), reporting 20 suspected cases with 10 confirmed and two suspected deaths. WNF, endemic in Kerala for over two decades with 80% of cases asymptomatic, presents with symptoms like fever, headache, and neurological signs resembling encephalitis or meningitis, making diagnosis challenging and leading to underreporting in official surveillance.



#### Kerala Faces Ongoing West Nile Virus Challenge Amid **Mosquito Concerns**

- Risk Factors: According to WHO, people over 50 and immunocompromised individuals are most at risk for severe illness from the West Nile virus (WNV), although severe cases
- State Surveillance: Kerala's Director of Health Services, K. J. Reena, reports that WNV cases have been recorded annually in Kerala since 2011, with reports from various districts including Thrissur, Malappuram, Kozhikode, and Palakkad.
- Vector and Breeding Grounds: The primary vectors of WNV are Culex mosquitoes, which breed in stagnant water bodies like

- paddy fields, facilitating the virus's circulation through vertical transmission.
- Historical Outbreak: A 1996 outbreak in Kerala's Kuttanad region saw 105 cases and 31 deaths due to acute encephalitis syndrome (AES), associated with the West Nile virus, highlighting past challenges.
- Current Challenges: Kerala continues to face challenges in managing the West Nile virus, with ongoing surveillance and efforts to mitigate mosquito breeding grounds to prevent outbreaks.

#### Challenges and Insights into West Nile Virus Outbreaks in Kerala

- Unique Outbreak Characteristics: During outbreaks in Kerala, the seasonality differed from Japanese Encephalitis (JE), affecting mainly adults, unlike JE which primarily impacts children.
- Historical Outbreaks: Notably, outbreaks in 1997 and 2006 raised concerns about the co-circulation of West Nile Virus (WNV) alongside other diseases like Chikungunya, with significant mortality rates observed.
- Presence and Spread: The National Institute of Virology (NIV) confirmed the presence of WNV in Kerala since 2011, with recent reports from northern districts suggesting either improved diagnostics or actual spread.
- Transmission Cycle: WNV thrives in Kerala's environment, particularly in areas with large stagnant water bodies and migratory birds, forming a transmission cycle involving mosquitoes and birds.
- Public Health Measures: Experts advocate for efficient surveillance systems using a One Health approach to identify emerging pockets of WNV and similar arboviruses amid climate change challenges.

Kerala's health department issued a public alert on West Nile fever, emphasizing the low mortality rate compared to diseases like Japanese encephalitis (JE) or dengue. Unlike dengue, West Nile virus (WNV) does not cause large outbreaks as transmission by Culex mosquitoes is inefficient due to transient viremia in humans. However, the virus can lead to neurological sequelae such as cognitive dysfunction and seizures, warranting preventive measures against mosquito bites.











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