



# IAPSM - PUBLIC HEALTH INFOGRAPHICS (IPHI)



## Graphic-e-Health



**Edition: 2**



**Issue: 3**



**April  
2026**



### THEME

# Beat the Bite: National Vectorborne Disease Control Program

#### IPHI TEAM:

##### **Chairperson**

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##### **Co-Chairperson**

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##### **Chief Coordinator**

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##### **Assistant Coordinators**

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Channel: IAPSM Public Health Infographic



MORE INFO





# IAPSM - PUBLIC HEALTH INFOGRAPHICS (IPHI)



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5 Dr. Priyanka  
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# BEAT THE BITE

National Centre for Vector Borne Diseases Control



## VECTOR BORNE DISEASES: RECOGNITION TO RESPONSE

Identify. Report. Respond

**JAPANESE ENCEPHALITIS**  
High grade Fever with  
Confusion /Drowsiness



**MALARIA**  
Fever with Chills  
Headache, malaise

**DENGUE**  
Fever with Rash, Pain  
behind eyes, Bleeding gums

**KALA-AZAR**  
Prolonged Fever,  
Darkening of Skin

**CHIKUNGUNYA**  
Fever with Rash  
Joint Pain

**FILARIASIS**  
Fever, Swelling of  
Lower limbs/Genitals

**Spot the Signs. Be the Shield**



**24<sup>h</sup>** **DANGER SIGNS**  
Visit Nearby AAM or  
PHC within 24 hours

**FREE DIAGNOSTICS**  
RDTs, Confirmatory  
Test

**IHIP- Report**  
fever clusters

**DIAL**  
108 - Ambulance  
104 - Fever Advice

**SCAN TO FIND YOUR  
NEAREST PHC or AAM**

**Early Detection + Reporting + Integrated Control = Vector Free India**

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# BEAT THE BITE!



## NATIONAL VECTOR BORNE DISEASE CONTROL PROGRAMME



### ! COMMON SYMPTOMS (ALL MOSQUITO DISEASES)

- Fever (sudden onset)
- Body aches / joint pain
- Weakness / fatigue
- Headache
- Body aches / joint pain
- Nausea / vomiting

If fever persists → **SEEK MEDICAL CARE**

## DISEASE - SPECIFIC SIGNS & SYMPTOMS

### DENGUE

- High fever
- severe headache
- Pain behind eyes
- Muscle & joint pain
- Skin rash

- ⚠ Bleeding (gums, nose)
- ⚠ Low platelets



### MALARIA

- Fever with chills & rigor
- Sweating after fever
- Recurrent fever pattern
- Anemia
- Enlarged spleen

- ⚠ Severe cases: Confusion, coma



### CHIKUNGUNYA

- Sudden high fever
- severe joint pain
- Joint swelling
- Rash
- Pain may persist for months

- ⚠ Severe cases: Confusion, coma



### ! DANGER SIGNS (EMERGENCY)

- Bleeding
- Persistent Vomiting
- Convulsions
- Unconsciousness



**IMMEDIATE HOSPITAL REFERRAL**

### JAPANESE ENCEPHALITIS

- High fever
- Headache
- Vomiting
- Rash

- ⚠ Altered sensorium
- ⚠ Seizures
- ⚠ Can lead to coma



## PROTECT YOURSELF & YOUR COMMUNITY !

### PREVENT MOSQUITO BREEDING



Keep Surroundings Clean & Dry

### EARLY DIAGNOSIS & TREATMENT



Seek Medical Help Immediately



### USE PROTECTION



Use Nets, Repellents & Wear Full Sleeves

### TRAVEL SAFELY



Get Vaccinated & Avoid Risk Areas

**CALL TO ACTION** Your one step can break the mosquito life cycle

**For help: Contact your nearest health facility**



### Team- IPHI

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- Co chairperson** -Dr. Krupal Joshi
- Chief coordinator** -Dr. Krishna Jasani
- Assistant Coordinators**
  - Dr. Kushant Bhatt
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For more information visit: <https://iapsm.org>

**Source:** 1. National Vector Borne Disease Control Programme. Operational Guidelines for Vector Borne Disease Control. New Delhi: Directorate General of Health Services, Ministry of Health & Family Welfare, Government of India.

2. Park K. Park's Textbook of Preventive and Social Medicine. 28th ed. Jabalpur: Banarsidas Bhanot; 2025.

**MOSQUITO OVERVIEW:**

<p><b>AEDES</b></p>  <p><b>DENGUE &amp; CHIKUNGUNYA</b></p>	<p><b>ANOPHELES</b></p>  <p><b>MALARIA</b></p>	<p><b>CULEX</b></p>  <p><b>LYMPHATIC FILARIASIS</b></p>
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**SEARCH & DESTROY:**



- 1 — COVER OVERHEAD TANKS : ENSURE ALL WATER STORAGE HAS A TIGHT FITTING LID
- 2 — DRY INTERIOR SOURCES : EMPTY FLOWER VASES AND DESERT COOLERS WEEKLY AND MAINTAIN.
- 3 — CLEAR THE COMPOUND: REMOVE OLD TIRES, COCONUT SHELLS, AND TIN CAN WHERE RAINWATER COLLECTS.
- 4 — SHEILD THE WINDOWS : INSTALL INSECTICIDE- TREATED MESH OR SCREENS ON ALL WINDOW AND DOORS.

**EMPTY, SCRUB, DRY :**

1.  **EMPTY** - TIP OUT STAGNANT WATER FROM COOLERS AND VASES.
2.  **SCRUB** - SCRUB THE EDGES TO REMOVE HIDDEN MOSQUITO EGGS.
3.  **DRY** - LET CONTAINERS TO BE DRY COMPLETELY BEFORE REFILLING.

**NVBDCP ACTIONS**


1.  **LET US SPRAY**  
ALLOW HEALTH WORKERS TO CONDUCT INDOOR RESIDUAL SPRAYING
2.  **BIO-CONTROL (LARVIVOROUS FISH)**  
INTRODUCE GAMBUSIA /GUPPY FISH IN PERMENENT WATER BODIES.
3.  **FREE DIAGNOSIS**  
VISIT UHTC/PHC FOR FREE MALARIA & DENGUE TESTING.

**WEEKLY DRY DAY CALENDAR**



**SMART REPORTING**

MEDICAL INSTITUTE / CHC USE MOBILE APP/QR CODE SO PEOPLE USE FOE REPORTING OF MOSQUITO BREEDING.




**PREVENTION :**

 <p><b>BED NET : SLEEP UNDER LONG LASTING INSECTICIDIAL NETS</b></p>	 <p><b>CLOTHS : WEAR FULL SLEEVE LIGHT COLORED CLOTHES.</b></p>	 <p><b>WINDOW: USE INSECTICIDE-TREATED MESH ON ALL WINDOWS.</b></p>	 <p><b>REPELLENT : APPLY MOSQUITO REPELLENT CREAM TO EXPOSED SKIN</b></p>
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**SUMMARY-** OBSERVE "WEEKLY DRY DAY" BY EMPTYING, SCRUBBING, AND DRYING CONTAINERS TO BREAK THE MOSQUITO CYCLE. VISIT YOUR NEAREST UHC/PHC FOR FREE TESTING AND SUPPORT NVBDCP ACTIONS FOR 100% PROTECTION AND BEAT THE BITE,...

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<b>CO-CHAIRPERSON</b> DR. KRUPAL JOSHI		



# BEAT THE BITE

## NATIONAL VECTOR BORNE DISEASE CONTROL PROGRAMME



### 7 DAYS • ONE HOME • ZERO MOSQUITOES

BREAK THE BREEDING CYCLE BEFORE IT HARMS YOUR HEALTH

#### WHY YOUR HOME & SURROUNDINGS MATTERS?



~80% AEDES BREEDING OCCURS IN HOUSEHOLD CONTAINERS



A MOSQUITO CAN DEVELOP FROM EGG TO ADULT IN ~7-10 DAYS



MOST BREEDING OCCURS IN AND AROUND HOMES



WEEKLY SOURCE REDUCTION REDUCES MOSQUITO DENSITY

#### UNSAFE HOUSE



UNCOVERED WATER CONTAINERS



DISCARDED TYRES



DISCARDED POTS



UNCOVERED WATER TANKS



GARBAGE AROUND HOUSE



#### SAFE HOUSE



COVERED WATER CONTAINERS



CLEAN YARD



WATER CONTAINERS DRIED ONCE WEEKLY



WEEKLY CHECKING

WATER COLLECTS



NOT CLEANED WEEKLY



BREEDING STARTS



NO STAGNANT WATER

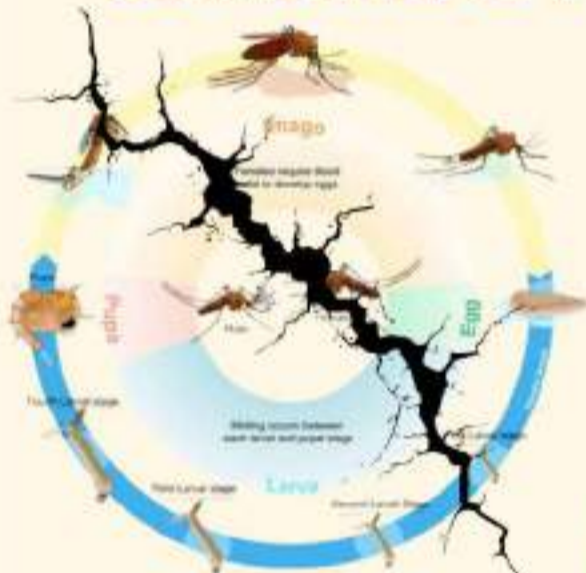
WEEKLY DRY DAY



NO BREEDING

#### SAME HOME BUT DIFFERENT OUTCOMES

#### SIGNIFICANCE OF 7 DAYS IN MOSQUITO LIFE CYCLE



MOSQUITO COMPLETES LIFE CYCLE IN ~7 DAYS



WATER LEFT FOR MORE THAN 7 DAYS → BREEDING OCCURS



ONE CONTAINER CAN PRODUCE 100S OF MOSQUITOES IN A WEEK



WEEKLY CLEANING INTERRUPTS THE BREEDING CYCLE COMPLETELY



BREAK THE 7-DAY CYCLE → STOP DISEASE BEFORE IT STARTS

#### SMART WAYS TO STOP BREEDING



CLEAN COOLERS, POTS & TRAYS EVERY 7 DAYS



REPORT MOSQUITO BREEDING SITES NEARBY



EMPTY & SCRUB ALL CONTAINERS WEEKLY



USE MOSQUITO NETS & REPELLENTS



COVER ALL WATER STORAGE TANKS TIGHTLY



INTRODUCE LARVIVOROUS FISH IN WATER BODIES



DISPOSE TYRES & UNUSED CONTAINERS



COMMUNITY PARTICIPATION IN WEEKLY DRY DAY CAMPAIGNS

1 WEEK OF NEGLIGENCE = MOSQUITO MULTIPLICATION

OBSERVE DRY DAY ONCE A WEEK

#### TEAM IPHI

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SCAN TO ACCESS NVBDCP BCC/IEC RESOURCE MATERIAL

#### SOURCES

WORLD HEALTH ORGANIZATION (WHO). DENGUE & VECTOR-BORNE DISEASES FACT SHEETS [HTTPS://WWW.WHO.INT/HEALTH-TOPICS/DENGUE-AND-SEVERE-DENGUE][HTTPS://WWW.WHO.INT/HEALTH-TOPICS/DENGUE-AND-SEVERE-DENGUE]  
NATIONAL VECTOR BORNE DISEASE CONTROL PROGRAMME (NVBDCP), MOHFW, INDIA [HTTPS://NVBDCP.GOV.IN][HTTPS://NVBDCP.GOV.IN]  
NATIONAL CENTRE FOR VECTOR BORNE DISEASES CONTROL (NCVDC), INDIA [HTTPS://NCVDC.MOHFW.GOV.IN][HTTPS://NCVDC.MOHFW.GOV.IN]  
WORLD MALARIA REPORT 2021, WHO [HTTPS://WWW.WHO.INT/TEAMS/GLOBAL-MALARIA-PROGRAMME/REPORTS/WORLD-MALARIA-REPORT-2021][HTTPS://WWW.WHO.INT/TEAMS/GLOBAL-MALARIA-PROGRAMME/REPORTS/WORLD-MALARIA-REPORT-2021]  
INTEGRATED DISEASE SURVEILLANCE PROGRAMME (IDSP), INDIA [HTTPS://IDSP.NIC.IN][HTTPS://IDSP.NIC.IN]



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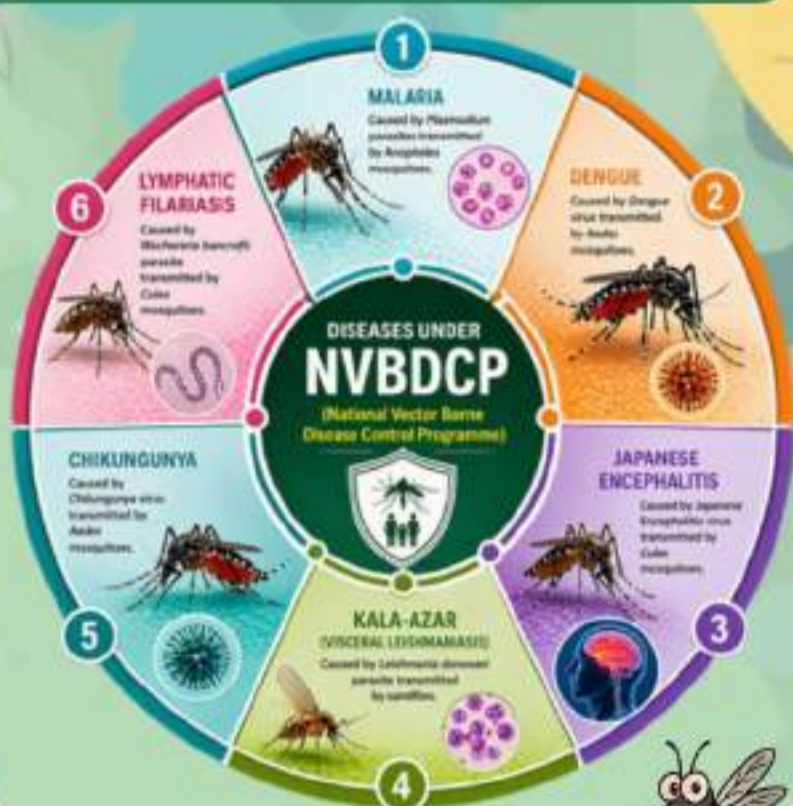


# "BEAT THE BITE"



## The All-in-One Strategy for a Vector-Free Future

The National Vector Borne Disease Control Programme (NVBDCP) is India's flagship public health initiative aimed at the prevention and control of major vector-borne diseases. It integrates surveillance, vector control, early diagnosis, and timely treatment to reduce disease burden and prevent outbreaks.



## Targets under NVBDCP

DISEASE	TARGETS
<b>MALARIA</b>	<ul style="list-style-type: none"> <li>Elimination by 2030</li> <li>Annual Parasite Incidence (API) &lt; 11 per 1000 population</li> <li>Zero indigenous cases in elimination phase districts</li> </ul>
<b>LYMPHATIC FILARIASIS (LF)</b>	<ul style="list-style-type: none"> <li>Elimination as a public health problem</li> <li>Microfilaria rate &lt; 1%</li> <li>High coverage of Mass Drug Administration (MDA) &gt; 65-85%</li> <li>Morbidity management and disability prevention (MMDP)</li> </ul>
<b>KALA-AZAR (Visceral Leishmaniasis)</b>	<ul style="list-style-type: none"> <li>Elimination target: &lt; 1 case per 10,000 population at block level</li> <li>Zero deaths due to Kala-azar</li> <li>Early diagnosis and complete treatment</li> </ul>
<b>JAPANESE ENCEPHALITIS (JE)</b>	<ul style="list-style-type: none"> <li>Reduction in case fatality rate (CFR)</li> <li>Reduction in outbreaks through vaccination &amp; vector control</li> <li>Strengthening surveillance</li> </ul>
<b>DENGUE &amp; CHIKUNGUNYA</b>	<ul style="list-style-type: none"> <li>Reduction in morbidity and mortality</li> <li>Case fatality rate (CFR) &lt; 1% (Dengue)</li> <li>Early outbreak detection and rapid response</li> <li>Source reduction (Aedes control)</li> </ul>

## Integrated Vector Management

ENVIRONMENTAL MANAGEMENT	BIOLOGICAL CONTROL	CHEMICAL CONTROL	PERSONAL PROTECTION	SOCIAL MOBILIZATION & HEALTH EDUCATION
<ul style="list-style-type: none"> <li>Environmental modification (drainage, filling, leveling)</li> <li>Source reduction (removal of containers, covering water storage)</li> <li>Solid waste management</li> <li>Water management (proper supply and disposal)</li> <li>Housing improvement (screening, improved ventilation)</li> </ul>	<ul style="list-style-type: none"> <li>Larvivorous fish (e.g., Gambusia fish, Guppy)</li> <li>Biological larvicides (e.g., Bti)</li> <li>Predators (copepods, larvivorous insects)</li> <li>Pathogens (fungi, bacteria, viruses)</li> <li>Wolbachia-based vector control (emerging strategy)</li> </ul>	<ul style="list-style-type: none"> <li>Larvicides</li> <li>Adulticides</li> <li>Insecticide-treated materials (ITNs, IRS, space sprays)</li> <li>Use judiciously and responsibly</li> <li>Resistance monitoring and insecticide rotation</li> <li>Integrated use with non-chemical methods</li> </ul>	<ul style="list-style-type: none"> <li>Long-lasting insecticidal nets (LLINs)</li> <li>Repellents (personal and space)</li> <li>Protective clothing (full sleeves, light colours)</li> <li>Window/door screens</li> <li>Use of coils, mats with caution</li> </ul>	<ul style="list-style-type: none"> <li>IEC/BCC activities (Information, Education, Communication/Behaviour Change Communication)</li> <li>Community participation and ownership</li> <li>Intersectoral collaboration (health, urban bodies, water, environment, etc.)</li> <li>Legislation and policy support</li> <li>Capacity building and training</li> </ul>

### MMIS: Monthly Malaria Information System

It is a web-based surveillance and reporting system under NVBDCP used for: Collecting real-time malaria data, Monitoring cases, deaths, and outbreaks & Tracking program performance

Source: National Vector Borne Disease Control Programme (NVBDCP). Directorate General of Health Services, Ministry of Health and Family Welfare, Government of India

#### Team - IPHI

**Chairperson:** Dr. Annarao Kulkarni  
**Co - Chairperson:** Dr. Krupal Joshi  
**Chief Coordinator:** Dr. Krishna Jasanl  
**Assistant Coordinators:**  
 Dr. Kushant Bhatt  
 Dr. Nanda Kumar  
 Dr. Nidhi Patel

**Created By:**  
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Vector	Disease(s) Transmitted	Biting Habit
Aedes aegypti	Dengue, Chikungunya, Zika	Day-biter
Anopheles	Malaria	Night-biter
Culex	Filaria, Japanese Encephalitis	Night-biter
Mansonia	Filaria (Brugian)	Night-biter
Sandfly	Kala-azar (Leishmaniasis)	Night-biter
Hard Ticks	Zoonotic Fevers (e.g. KFD)	Diurnal

"Vector-borne diseases cause >1 million deaths annually worldwide."



**UNPROTECTED**

- Stagnant water
- Sick individual
- Poor sanitation

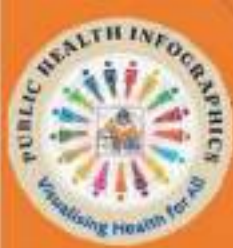


**PROTECTED**

- Clean surroundings
- Community action
- Healthy population

**FOUNDATION PILLARS**





# BEAT THE BITE

## National Vector-Borne Disease Control Programme



Vector-borne diseases are illnesses caused by pathogens (viruses, bacteria, parasites) that are transmitted to humans through vectors like mosquitoes, ticks, or flies.

**Vector (carrier) → Bites human → Transfers infection**



- Malaria (Anopheles mosquito)
- Dengue (Aedes mosquito)
- Chikungunya (Aedes mosquito)
- Japanese Encephalitis (JE)
- Kala-azar (Leishmaniasis) – sandfly
- Lymphatic Filariasis



- Millions affected annually
  - Peak transmission: **Monsoon (June–September)**
  - Major diseases: **Malaria, Dengue, Chikungunya, JE**
  - Urban + rural both at risk
- “Preventable diseases, yet persistent burden”**

### ONE BITE CAN TRIGGER A CHAIN OF DISEASE



Diseases spread by vectors **kill a million people** every year and more than half of the world's population is at risk.

*Prevention Begins at Home. Protect your Family. Protect your Community.*



### INTEGRATED VECTOR MANAGEMENT (IVM)

**“A comprehensive, evidence-based approach to control vectors using multiple coordinated strategies.”**



### INTEGRATED VECTOR MANAGEMENT (IVM)

“A comprehensive, evidence-based approach to control vectors using multiple coordinated strategies.”



### Tackling Vector-Borne Diseases by Individuals and Communities

#### Invert unused Tyres

#### Insect Repellent



Covered Bins

Covered Tanks

Empty Coolers

### Tackling Vector-Borne Diseases by the National Programme

#### Early Warning Systems

#### Access to good healthcare



Training of ASHAs

Indoor Residual Spray

Mosquito Nets

Created by:- Dr (Lt Col) Sakshi Sharma

PG resident, Armed Forces Medical College, Pune

Source of information- Home:: National Center for Vector Borne Diseases Control (NCVBDC)

IPHI Team



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Dr Nidhi Patel

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Dr Annarao Kulkarni  
Co- chairperson  
Dr Krupal Joshi



# YOUR HOME: THE MOSQUITO FACTORY



**“Breaking the breeding cycle to prevent vector-borne diseases”**

## Hidden Breeding Sites in Your Home



Plant Pot



Bucket



Cooler



Discarded Tyre



**“Even a Bottle Cap is Enough!”**



**“7 Days. One Container. Hundreds of Mosquitoes.”**

- Aedes mosquito breeds in clean stagnant water
- Life cycle completes in ~7 days
- One container can produce hundreds of mosquitoes



## Same Home. Different Outcomes.

### Mosquito Factory



- Open containers
- Stagnant water
- Garbage accumulation
- No weekly cleaning

### Safe Home



- Covered water containers
- Weekly dry day
- Clean surroundings
- No stagnant water

## Break the Cycle : Weekly Actions

- Empty & scrub containers
- Cover all water
- Throw away tyres & junk
- Keep Sunday dry
- Use nets/repellents



**NO WATER. NO MOSQUITOES. NO DISEASE.**

**“SUNDAY = DRY DAY”**

Team IPHI:

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 Dr. Kushant Bhatt  
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Sources:

- World Health Organization (WHO): <https://www.who.int>
- National Vector Borne Disease Control Programme (NVBDCP), India: <https://nvbdcp.gov.in>



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# BEAT THE BITE: NATIONAL VECTOR BORNE DISEASE CONTROL PROGRAM



## BACKGROUND:



India carries major disease burden from vector borne diseases with filariasis burden 40% globally and malaria burden 3%. whereas Chikungunya and Japanese encephalitis occupies third position in global burden.

## SIGNS AND SYMPTOMS:



Fever with chills, joint pain, headache, Rashes, Fatigue, nausea

## COMMON BREEDING SITES:

- o Stagnated water
- o Neglected pools
- o Waste tyres
- o Clogged gutters
- o Open water containers



## PREVENTIVE AND CONTROL MEASURES:

### Integrated Vector Management

- o Outdoor Fogging
- o Indoor residual sprays
- o Insecticide Treated Nets(ITNs)
- o Mosquito repellants
- o Using Fully covered clothes



## NVBDCP - GOALS AND STRATEGY:

- o Malaria elimination by 2030
- o Lymphatic Filariasis by 2027
- o Reducing morbidity & mortality of Dengue, Japanese encephalitis & Chikungunya.
- o Early diagnosis and treatment
- o Active & Passive surveillance
- o Integrated Vector management
- o Public awareness and capacity building

**“Together with public and health care team efforts, we can end the transmission of vector borne diseases”**

#### IPHI Team

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#### Sources

- 1.<https://www.who.int/news-room/fact-sheets/detail/vector-borne-diseases>
- 2.<https://ncvbdc.mohfw.gov.in/Doc/citizen-charter-NCVBDC-2023.pdf>



# BEAT THE BITE

## NATIONAL VECTOR BORNE DISEASE CONTROL PROGRAMME



### ONE HEALTH & IVM SHIELD APPROACH

PROTECTING HUMANS • ANIMALS • ENVIRONMENT

#### WHY INTEGRATED & ONE HEALTH APPROACH MATTERS?



>17% OF INFECTIOUS DISEASES ARE VECTOR-BORNE GLOBALLY



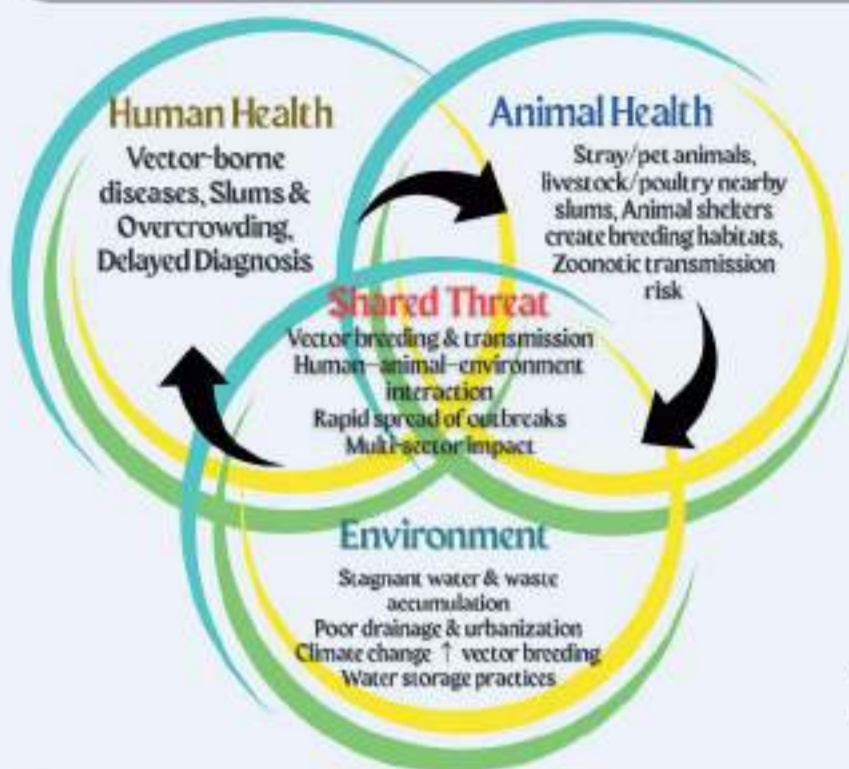
VECTOR-BORNE DISEASES ACCOUNT FOR >7,00,000 DEATHS ANNUALLY



IVM REDUCES VECTOR DENSITY THROUGH COMBINED ENVIRONMENTAL, BIOLOGICAL & CHEMICAL METHODS



HUMAN-ANIMAL-ENVIRONMENT INTERACTION DRIVES DISEASE TRANSMISSION



### ONE SYSTEM. MULTIPLE RISKS!

CONTROLLING ONE SECTOR ALONE IS NOT ENOUGH AS VECTOR-BORNE DISEASES SPREAD ACROSS INTERCONNECTED SYSTEMS.

#### INTEGRATED VECTOR MANAGEMENT



1

**EVIDENCE BASED DECISION MAKING**  
LOCAL DATA GUIDES THE INTERVENTIONS



2

**THE IVM DECISION-MAKING CYCLE**  
ASSESS → PLAN → IMPLEMENT → MONITOR & REPEAT



3

**MULTI-DISEASE APPROACH**  
MALARIA, LYMPHATIC FILARIASIS, KALA-AZAR, DENGUE, CHIKUNGUNYA, JAPANESE ENCEPHALITIS, AND ZIKA



4

**STAKEHOLDER COLLABORATION**  
SUCCESS IS BUILT ON CLOSE MULTI-SECTOR COLLABORATION TO PREPARE AND IMPLEMENT VECTOR CONTROL PLAN



5

**MULTI-METHOD INTERVENTION APPROACH**  
ENVIRONMENTAL BIOLOGICAL & CHEMICAL METHODS OF VECTOR CONTROL

EVIDENCE-BASED • MULTI-METHOD • MULTI-SECTOR APPROACH

#### ACT TO PROTECT EVERY SYSTEM

PROTECT PEOPLE, MANAGE ENVIRONMENTS, AND CONTROL VECTORS.



#### HUMAN

**REDUCE EXPOSURE**

- USE NETS
- APPLY REPELLENT
- WEAR PROTECTION
- AVOID BITES



#### COMMUNITY

**STOP BREEDING**

- REMOVE WATER
- CLEAN SURROUNDINGS
- SOURCE CONTROL
- WEEKLY DRY DAY



#### SYSTEM

**CONTROL TRANSMISSION**

- EARLY DIAGNOSIS
- TIMELY TREATMENT
- ACTIVE SURVEILLANCE
- RAPID RESPONSE

STRONGER & COORDINATED SYSTEMS LEAD TO SAFER COMMUNITIES.

#### TEAM IPHI

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SCAN TO ACCESS NCVBDC IVM INDIA MANUAL 2022

#### SOURCES

- WORLD HEALTH ORGANIZATION (WHO), VECTOR-BORNE DISEASES FACTSHEET. [HTTPS://WWW.WHO.INT/NEWS/RODIMPACT-SHIFTING-DIGITAL-VECTOR-BORNE-DISEASES]
- WORLD HEALTH ORGANIZATION (WHO), HANDBOOK FOR INTEGRATED VECTOR MANAGEMENT (IVM)
- NATIONAL CENTER FOR VECTOR BORNE DISEASE CONTROL (NCVBD), MOHFW, GOVERNMENT OF INDIA [HTTPS://NCVBD.MOHFW.GOV.IN]
- NATIONAL FRAMEWORK FOR MALARIA ELIMINATION IN INDIA (2016-2030), MOHFW
- WHO, FAO, UNEP, UNICEF, ONE HEALTH JOINT PLAN OF ACTION (2022-2030)
- INTEGRATED VECTOR MANAGEMENT MANUAL (2021), NCVBDC, GOVERNMENT OF INDIA
- INTEGRATED DISEASE SURVEILLANCE PROGRAMME (IDSP), INDIA [HTTPS://IDSP.NCIN.INDIA/HTTPS://IDSP.NCIN.INDIA]
- NCVBD OPERATIONAL GUIDELINES & SIC MATERIALS, MOHFW, GOVERNMENT OF INDIA



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# OUTSMART THE OUTBREAK



## Shattering myths, Saving lives

### Myths

- ✗ Mosquitoes only breed in dirty drains and gutters.
- ✗ If I empty the water, the breeding is stopped.
- ✗ Mosquitoes only bite at night.

### Facts

- ✓ Aedes (Dengue/Chiknyungya) prefers fresh, clean, stagnant water
- ✓ Eggs can survive drying! Emptying isn't enough.
- ✓ Aedes is a Day-Biter, most active 2 hours after sunrise and before sunset.

**Unsealed Tanks:** Even a tiny gap allows mosquitoes to enter and lay eggs.

**Blocked Gutters:** Debris traps rainwater—the perfect hidden nursery.

**AC Drip Pipes:** Constant moisture creates a 24/7 breeding ground.

**Vases:** Aedes loves clean, stagnant water inside your home.



## Every Sunday is a dry day

### DETECT

Find the "invisible" 1 tsp of water.



### DESTROY

Don't just pour the water, scrub the container



### DEFEND

Beyond nets—wear full sleeves & use repellents.



### Do you know?

Aedes egg can survive drying for upto 1 year and hatch immediately when they touch water again.

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Assitant Coordinators  
**Dr. Kushant Bhatt**  
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**Dr. Nidhi Patel**



# Surveillance Is The Silent Shield: From Detection To Protection



## Diseases

Malaria, dengue fever, chikungunya, lymphatic filariasis, Japanese encephalitis, and kala-azar are some diseases that spread from vector organisms.

1

## Vectors

Mosquitoes, sandflies, and ticks are vector organisms that spread diseases.

2

## Program

In India, there is a specific institutional response in the form of NVBDCP (National Vector Borne Disease Control Programme).

3

Disease	Malaria	Dengue	Chikungunya	Lymphatic Filariasis	Kala-azar (VL)	Japanese Encephalitis (JE)
Estimated Annual Burden (India)	~1.5–2 lakh cases (declining trend)	~2–2.5 lakh cases (increasing trend)	~50,000–1 lakh cases	~23 million at risk	1,000 cases (near elimination)	~1,000–1,500 cases

## INNOVATIONS UNDER NVBDCP (National Vector Borne Disease Control Programme)

### 1. INTRODUCTION OF RDTs (Rapid Diagnostic Tests)

**FAST, ACCURATE MALARIA DIAGNOSIS**



- On-site testing: Results in ~15-20 minutes
- Enables immediate treatment, reducing transmission
- Effective for *Plasmodium falciparum* and other species
- Reduces dependence on microscopy in resource-poor areas

### 2. LLINs (Long-Lasting Insecticide-treated Nets)

**PERSONAL PROTECTION & VECTOR CONTROL**



- Continuous distribution to high-risk populations
- Mosquitoes are killed or repelled on contact
- Protection lasts for 3+ years and multiple washes
- Key strategy for malaria and JE reduction

### 3. JE VACCINATION under UIP (Universal Immunization Programme)

**IMMUNIZATION AGAINST JAPANESE ENCEPHALITIS**



- Included in routine immunization for children
- Administered in endemic districts and high-burden states
- Significantly reduces JE cases and related neurological issues
- Two doses (usually 9 months and 16-24 months)

### 4. DIGITAL MALARIA SURVEILLANCE SYSTEM

**REAL-TIME DATA FOR PRECISION RESPONSE**



- Real-time data collection from all levels (village to national)
- Early warning and prompt outbreak response
- Mapping of disease 'hotspots' and vector distribution
- Evidence-based planning and resource allocation

Identify potential disease threats

Prevent the spread of disease

Protect citizens from illness

**Disease Outbreaks**

**Anticipate Dangers**

**Halt Transmissions**

**Safeguard Communities**

**Reference:** National Center for Vector Borne Diseases Control (NCVBDC). Innovations Under NVBDCP New Delhi: Directorate General of Health Services, Ministry of Health & Family Welfare, Government of India; [Available from: <https://nvbdcp.gov.in/>]

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**IPHI**  
PUBLIC HEALTH INFOGRAPHICS  
Visualising Health for All



**IAPSM**  
INDIAN ASSOCIATION OF  
PREVENTIVE & SOCIAL MEDICINE

# BEAT THE BITE



**MOSQUITO-BORNE DISEASE PREVENTION**

Small bite. Big threat.  
Your action, Their protection.

## THE THREAT IN INDIA

Mosquito-borne diseases continue to impact millions of people across the country.

DENGUE	MALARIA	CHIKUNGUNYA	JAPANESE ENCEPHALITIS (JE)
2,85,922 CASES	1,67,890 CASES	22,410 CASES	1,764 CASES

TOTAL CASES IN INDIA (APR 2025 - MAR 2026)

Source: National Vector Borne Disease Control Programme (NVBDCP), Ministry of Health & Family Welfare, Government of India  
(\*Data as per Annual Report 2025-26)



Mosquito-borne diseases are preventable.



Protect yourself.  
Protect your family.  
Protect your community.



Working together for a mosquito-free India.



India's climate, rapid urbanization and water storage practices create ideal conditions for mosquitoes to breed and spread diseases.  
Every bite counts. Every action matters.

### KNOW THE MOSQUITO-BORNE DISEASES

Know the diseases. Know the symptoms.

- DENGUE**  
Symptoms: High fever, severe headache, pain behind the eyes, muscle & joint pain, rash, nausea, vomiting.
- MALARIA**  
Symptoms: High fever with chills, sweating, headache, body ache, nausea, vomiting, fatigue, anemia.
- CHIKUNGUNYA**  
Symptoms: Sudden fever, severe joint pain, headache, muscle pain, rash, fatigue.
- JAPANESE ENCEPHALITIS (JE)**  
Symptoms: Sudden high fever, headache, vomiting, altered mental status, fits, may lead to brain inflammation.

If symptoms appear, seek medical care early. Early diagnosis saves lives.

### PREVENT TODAY. PROTECT TOMORROW. Follow the 5-STEP PROTECTION PLAN

- ELIMINATE BREEDING SITES**  
Remove or empty all stagnant water from coolers, buckets, tyres, flower pots, trays, drains and containers at least once a week.
- PROTECT YOURSELF**  
Use mosquito repellent, wear full-sleeve clothes, especially during early morning and evening.
- KEEP DOORS & WINDOWS SECURE**  
Use mosquito nets, screens or closing windows and doors to keep mosquitoes outside.
- SLEEP UNDER A MOSQUITO NET**  
Use insecticide-treated nets, especially for children, elderly and in high-risk areas.
- JOIN COMMUNITY ACTION**  
Participate in cleanliness drives, support fogging and larval control activities, and spread awareness.

### DO YOUR PART. STOP THE START.

The mosquito life cycle can be completed in as little as 7-10 days. Break the cycle. Stop the bite.

#### LIFE CYCLE OF MOSQUITO



#### PLACES TO CHECK EVERY WEEK



SEE A MOSQUITO BREEDING SITE? REPORT IT TO YOUR LOCAL HEALTH AUTHORITY.

### YOUR ACTIONS. THEIR PROTECTION.

- Do not let water collect anywhere.
- Clean and cover water storage containers.
- Change water in pet bowls and plant saucers regularly.
- Dispose of waste items like tyres, bottles, cans.
- Wear protective clothing and use mosquito repellents.
- Cooperate with local health authorities for spraying and larval control.



ONE BITE CAN CHANGE EVERYTHING.

TOGETHER, WE CAN BEAT THE BITE.



Protect yourself.



Protect your family.



Protect your community.

STAY INFORMED  
STAY UPDATED

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#### SOURCES

- National Vector Borne Disease Control Programme (NVBDCP), Ministry of Health & Family Welfare, Government of India. <https://nvbdcpl.gov.in/>
- Annual Report 2025-26, National Vector Borne Disease Control Programme (NVBDCP). [https://nvbdcpl.gov.in/Portals/0/Annual\\_Report\\_2025-26.pdf](https://nvbdcpl.gov.in/Portals/0/Annual_Report_2025-26.pdf)
- World Health Organization (WHO) - Vector-borne diseases fact sheets. <https://www.who.int/health-topics/vector-borne-diseases>
- National Centre for Disease Control (NCDC), Directorate General of Health Services, Ministry of Health & Family Welfare, Government of India. <http://ncdc.mohfw.gov.in>



# EVERY DROP BREEDS A BITE



## Household water sources as hidden mosquito breeding sites

### Hidden Breeding Sites at Home

#### Common Household Water Traps

Plant Saucers - Water collects under pots  
AC Drip, refrigerator Trays - Accumulated drip water  
Clogged Gutters - Blocked drainage causes pooling  
Old tyres & coconut shells



### Prevention: Simple Actions

#### Big Impact for Your Community

Empty & Scrub Weekly - Remove standing water  
Cover Stored Water - Keep containers covered  
Clean Drains & Gutters - Ensure proper flow

### The Mosquito Life Cycle

Completed within 7-10 days

Day 1-2: Egg - Laid on water surface  
Day 3-4: Larva - Feeds and grows in water  
Day 5-6: Pupa - Active, does not feed  
DAY 7+: ADULT - Emerges, mates and bites.



### Stay Aware, Stay Protected

Inspect Surroundings Weekly  
Community Action Matters - Dispose waste properly  
Stay aware, Stay protected

**Preventable Breeding. Preventable Disease.**

**A CLEAN ENVIRONMENT TODAY, A HEALTHY TOMORROW.**

Sources:

1. World Health Organization (WHO): <https://www.who.int>

2. National Center for Vector Borne Disease Control (NCVBDC), Directorate General of Health Services, Ministry of Health and Family Welfare, Government of India: <https://ncvbdc.mohfw.gov.in>

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World Health Organization



WHO Theme 2026 (World Health Day)

# Together for health. Stand with science

7<sup>th</sup> April 2026

*Collective action and reliance on scientific evidence to improve global health outcomes and combat misinformation.*



**Together for Health**

**Stand with Science**

COMPONENT	ROLE	RESPONSIBILITIES
<b>Government</b>	Policy & system support	Health policies, funding, infrastructure development
<b>Health Workers</b>	Service delivery	Diagnosis, treatment, prevention, health education
<b>Communities</b>	Participation & awareness	Promoting healthy practices, supporting programs
<b>Individuals</b>	Personal responsibility	Healthy lifestyle, hygiene, seeking timely care

COMPONENT	DESCRIPTION	APPLICATION
<b>Research &amp; Data</b>	Decisions based on scientific studies and data	Clinical trials, epidemiological studies
<b>Guidelines</b>	Following standard protocols	WHO guidelines, national health programs
<b>Avoid misinformation</b>	Reject myths and pseudoscience	Vaccine myths, unproven therapies

**Ask. Share. Stand with science.**

**Commit to science-based policy and One Health action**

**Activate. Explain. Lead.**

**Be ambassadors of science**

Research → Evidence → Policy → Implementation → Health improvement



**RESEARCH IS THE KEY**

**Created by-**

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**References :**

- World Health Day 2026: Together for health. Stand with science [Internet]. Geneva: World Health Organization; 2026 [cited 2026 Mar 26]. Available from: [WHO World Health Day 2026 Page](#)



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# ADULT IMMUNIZATION



THE NEED FOR A NATIONAL ADULT IMMUNIZATION PROGRAMME IN INDIA

WORLD IMMUNIZATION WEEK: 24<sup>TH</sup> TO 30<sup>TH</sup> APRIL

2026 Theme: "For every generation, vaccines work"

- India's immunization success story primarily focused on children through the Universal Immunization Programme (UIP) since 1978
- The burden of vaccine-preventable diseases (VPDs) has now shifted significantly to the adult population, in particular, the elderly.
- Over 2/3 of Indian adults are unaware that adult vaccination exists, with many believing vaccines are only for children
- Currently, there are no nationally adopted adult immunization guidelines or systematic structured programs in place
- Life course or Adult immunization is not part of any policy in India

## Rationale for Adult Immunization



Source: Dash R, et al. Towards adult vaccination in India: a narrative literature review. Hum Vaccin Immunother. 2019;16(4):993-1001

## Barriers to Adult Immunization



Table 1. Summary of key challenges in adult vaccination and potential approach to overcome the barriers

Level	Barrier	Strategy to address barrier
Policy level	Business and education	Implement public education campaigns to increase awareness and understanding of vaccine preventable diseases and the importance of adult immunization
	Cultural beliefs and misconceptions	Engage community leaders and influencers to dispel myths and promote positive attitudes toward vaccines
	Accessibility and convenience	Improve vaccine access through direct and extended service hours in healthcare facilities, increase government subsidies for vaccines to reduce the financial burden on individuals
Physician level	Lack of knowledge	Establish surveillance to monitor trends in vaccine preventable diseases
	Knowledge and training	Provide ongoing education and training for healthcare providers on adult immunization schedules and guidelines
	Perceived low priority	Advocate for adult immunization as a critical aspect of healthcare through guidelines, medical associations, and policy
	Vaccine availability	Enhance the vaccine supply chain and storage infrastructure to ensure consistent vaccine availability
Payment/insurance level	Insurance coverage	Advocate for the inclusion of adult vaccines in health insurance policies
	Government policies and funding	Secure government funding and support for adult immunization programs
	Economic constraints	Integrate adult immunization into broader health initiatives to optimize resource allocation in limited-resource settings

Source: Ramasubramanian V et al. Establishing Adult Immunization clinics in India. JAPI 2025; 73(5)

## Why are adults vulnerable to VPDs

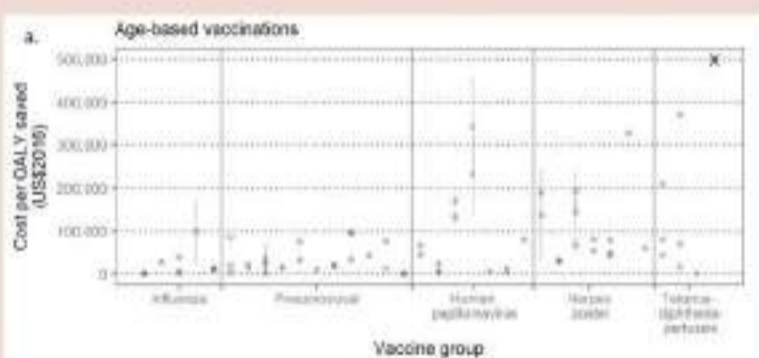


Source: Ramasubramanian V et al. Establishing Adult Immunization clinics in India. JAPI 2025; 73(5)

## Indian Consensus Guidelines for Adult Immunization 2026: A collaborative Effort by 20+ Professional Associations

Vaccine	0-14 years		15-64 years				65+ years	
	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM2	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM1	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM3	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM4	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM5	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM6	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM7	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM8	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM9	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM10	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM11	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM12	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM13	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM14	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM15	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM16	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM17	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM18	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM19	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	
MM20	Recommended	Not recommended	Recommended	Not recommended	Not recommended	Not recommended	Not recommended	

## Economic Justification for Adult Immunization



- Reduced healthcare costs from prevented hospitalizations
- Decreased productivity losses from illness
- Reduced antimicrobial resistance through disease prevention
- Lower burden on caregivers and families

## Steps for a National Adult Immunization Programme adoption in India

- Comprehensive Policy framework for adult immunization
- Adoption of a evidence based National Adult immunization schedule and target population
- Infrastructure for immunization clinics for adults
- Electronic registry based on U-WIN
- Integration in existing healthcare delivery system
- Capacity building of health providers
- Awareness at population level
- Suitable governance structures
- Phased implementation of the programme

## Call To Action

### From Advocacy to Action

- Action to change policy framework
- Action to develop required infrastructure
- Action to prepare implementation road map
- Action to make Universal Adult Immunization a reality

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References:

- Laxariya C, et al. Adult vaccination in India: status and the way forward. Hum Vaccin Immunother. 2019;16(7-8):1515-1520.
- Vora A et al. Indian Consensus guidelines on adult immunization 2026 update. Association of Physicians of India. 2026.
- Leitner AJ et al. Cost-effectiveness of adult vaccinations: A systematic review. Vaccine 2019;37:226-34.



# IAPSM - PUBLIC HEALTH INFOGRAPHICS (IPHI)



## Graphic-e-Health

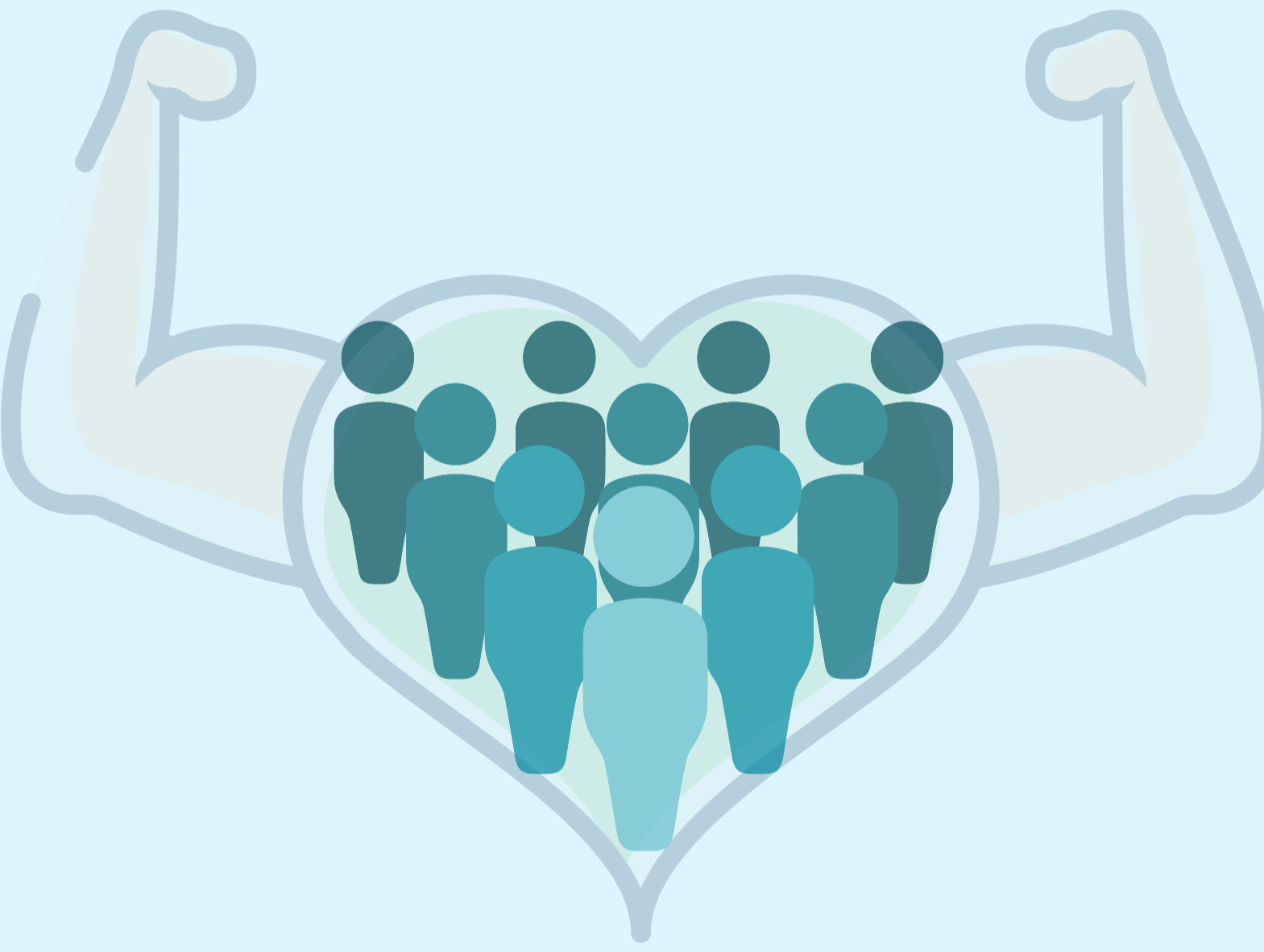


Highlights how infographics can educate the public about the health system and its services

Represents use of infographics to enhance collaboration and communication between public health professionals and the community

Tagline for this initiative

Represents the role of infographics in making public health data clear and simplified



Dear IAPSM Members,

“ Thank you for taking the time to explore our latest Public Health Infographics Edition. It is gratifying to know that these visual resources contribute to enhancing public health knowledge within our IAPSM community.

Your continued support and engagement with the Public Health Infographics initiative are truly appreciated. Our aim is to consistently improve the quality and relevance of our content, ensuring it serves as a useful resource for all. If you have any suggestions, feedback, or ideas for future infographic topics, we encourage you to reach out to us at [iapsminfographics.iphi@gmail.com](mailto:iapsminfographics.iphi@gmail.com). We welcome your insights and are eager to incorporate changes that can enrich your experience.

Together, let's make this initiative even more impactful for our community.”



Best Regards,  
Team IAPSM Public Health Infographics

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