



AHC
FOUNDATION

EMPATHY
IS HUMAN.
HELPING
IS HUMANITY.

*They are far from luxury,
Pleading for necessity.
They wish to sit in a classroom,
But weep while sitting on the roadside,
Accepting their persisting doom.
We can share the burden,
Extend our humanity to help them
cross the hurdle.
The hurdle of mere Survival.
The hurdle of basic Health.
The hurdle of fundamental Education.*



Absolute Human Care Foundation (AHC)

is a Non-Governmental Organization committed for improving the lives of the poor and impoverished section of society by sustained and focused efforts in the areas of nutrition, health and education. The

organization was established by a group of responsible citizens comprising of scientists, bureaucrats, social entrepreneurs and businessmen. The team concentrates its amalgamated acumen in fulfilling vast goals including empowering children with sound health, education and skill development. The AHC Foundation also aims to initiate future projects in India's rural sector in helping people to keep pace with rest of the country.

The Foundation aims in covering all communities and fields in the rural and urban sector including farming communities.

The AHC Foundation's mission is not only to bridge the gap but also to address the different basic needs of the poor and the under privileged. A large framework of initiatives will focus on the survival, health and education of young and children population including their skill development for their bright future.



AHC
FOUNDATION

Vision



Mission

Visualizes the society where the issues of people particularly health, education are well managed & controlled with no impoverished section through holistic approach.

Committed to contribute in the growth and development of health, education, agriculture and skill development through strengthening capacity and capability of different sections of society focusing on health and special emphasis on prevention of vector borne diseases

SCOPE OF WORK



EDUCATION



HEALTH



SKILL DEVELOPMENT



AGRICULTURE





- Promote and impart education to generate awareness among economically deprived children.
- Advocate healthy and hygienic Mid Day meal to the students by suggesting alternative methods to the current establishment
- Distribute washable sanitary napkins to the young girls so they can attend school even during their menstruation period.
- Promote hygienic toilets in schools

- with proper water storage facility with mosquito proof designs.
- Arrange distribution of school bags, books, stationery items, etc., to economically deprived children.
- Sensitize the teachers ensuring quality education to the students.
- Awareness programmes in various city's and villages to inform and educate parents about the necessity of education.

- Helping to improve malnutrition and anemia problem prevailing in children and women.
- Strengthening school health and nutrition which will help the overall development of students.
- Supporting for use of washable sanitary napkins for school aged and underprivileged girls who avoid school during menstruation period.
- Assist in Bridging the gap between health resources to India's deprived population.
- Generate awareness among society

- on various public health issues.
- To help in controlling or eliminating malaria and other vector-borne diseases
- Generating awareness among the community to improve acceptance of control measures for vector borne diseases like indoor residual spray and distribution of long-lasting insecticidal nets
- Awareness among community about environmental health and social justice issues.

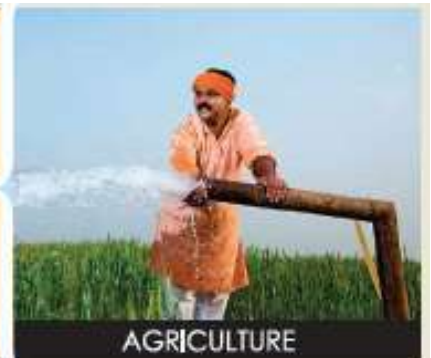


- To arrange skill development training programmes for students, researchers, health professionals, farmers, pest control operators, entomologists and vector control personnel.
- General health awareness,
- Strengthening entomological Intelligence.

- Basic Training on handling tools for vector and pest management.
- To involve National and International Experts for capacity building in general education, health and agriculture.
- Resource mapping for experts availability especially in the field of vector borne diseases.

- To encourage skill development for water conservation.
- To create awareness among farmers about various farmer's welfare schemes.
- To organize training programmes with the farmers to optimize benefits.
- To organize Interactions of farmers and agriculture

- scientists for adopting the best practices of agriculture so that the farmers achieve maximum output of their farming.
- To generate awareness about protecting the crops from various pests.
- Encourage for judicious use of insecticides.



AHC
FOUNDATION

Absolute Human Care Foundation

Regd Office: 21-Navyug Appt. Bodella PH-2,
Vikas Puri New Delhi-110018, India

web: www.absolutehumancarefoundation.com

Tele: +91-9910455099

Absolute Human Care Foundation

Our Team



Dr R R Sharma, a technocrat with 30 year's experience with Govt. of India Organizations as Director (Marketing), Board member and General Manager (Business Development). During his 6 years tenure as Director Marketing and Member on Board with Hindustan Insecticides Ltd, he was instrumental in serving farming community by making available long range of insecticides, pesticides and seeds. Besides Dr. Sharma also closely coordinated with health departments of central and state Governments in their Malaria Control program by organizing supplies of DDT and other insecticides. He closely coordinated with SADC countries of Africa in their Malaria control program..

Dr R S Sharma M.Sc. (Gold Medalist), Ph.D. is a Former Head, Additional Director, "Centre for Medical Entomology and Vector control" and Ex Additional Director, National Vector Borne Disease Control Programme (NVBDCP), Ministry of Health, Government of India. He has been member of WHO Vector Control expert group, Vector control working group- Roll back Malaria, Geneva, Steering Committee of Stockholm convention on development and deployment of DDT, UNEP, Global Alliance for DDT alternatives, UNEP, Task Force for Dengue. ICMR Advisory group on vector borne diseases. Science forum. He is Vice President and Life Member of National Academy of Vector Borne Diseases. Society of Vector Ecology, USA.



Dr P K Srivastava MSc, PhD (FISCD, FRES), former Joint Director NVBDCP, Head of Vector Control & Entomology and Country's nodal officer for elimination of Lymphatic Filariasis is currently the Co-chair of 'Vector Control Working Group' under Asia Pacific Malaria Elimination Network. He was member of Indian delegation on COPs for the elimination of DDT. He worked with WHO during 2019 to frame state specific Malaria elimination Plan in Jharkhand and during 2020 in framing Vector Control Need Assessment for country. He authored many guidelines including 'Operational Manual for Integrated Vector Management in India'. He is recipient of Vestergaard Frandsen Award 2019 by National Academy of Vector Borne Diseases,

With a career of 34 years gaining experience in the Indian Tea Industry, in the Plywood Industry along with working for a Singapore based buying house for over 14 years and looking after procurement, business development and exports of different commodities from West Africa, Latin America, Myanmar, Malaysia, Hong Kong, Singapore to name a few in the capacity of Country Manager. He is now partnering in an International Freight Forwarding Company and an import and export company dealing in various commodities in Delhi.



Absolute Human Care Foundation Resource Faculty

National Programme Association

1. DR R S Sharma Director AHC Foundation, Former Additional Director, NVBDCP/NCDC, Delhi India
2. Dr P K Srivastava Director AHC Foundation, Former, Joint Director, Head Vector control & Entomology NVBDCP, Delhi India
3. Dr S N Sharma Former, Joint Director NVBDCP, Delhi India
4. Dr R K Das Gupta Former, Joint Director NVBDCP, Delhi India

NVBDCP

1. Dr Kalpana Baruah Additional Director, Dengue, Vector control & Entomology NVBDCP, Delhi India
2. Mrs Gurpreet Kaur Basra, Technical Assistant, NVBDCP, Delhi India

World Health Organization

1. Dr Rajpal Yadav, Veterinary Public Health, Vector Control & Environment Unit, Department of Control of NTDs WHO, Geneva, Switzerland
2. Dr Saurabh Jain, Scientist WHO Geneva
3. Dr B N Nagpal WHO SEARO, New Delhi India
4. Dr Roop Kumari, Technical officer Malaria and VBDs, WHO Country Office, New Delhi India

Medical College

1. Dr Rina Tilak, Scientist G AFMC Pune New Delhi India

ICMR Institutes

1. Dr Ashwani Kumar, Director VCRC, ICMR, Puducherry India
2. Dr K Krishnamoorthy, former Director Grade Scientist, ICMR-VCRC Puducherry India
3. Dr R C Dhiman Former Scientist 'G' ICMR-NIMR, New Delhi India
4. Dr S K Ghosh Former Scientist G and in-Charge, ICMR-NIMR Unit Bangalore, India
5. Dr Diwakar Singh Dinesh, Scientist, ICMR-RMRIMS Patna Bihar India
6. Dr R M Bhatt, Former Scientist 'F' and Officer-in-Charge of NIMR Field Unit at Raipur, Chhattisgarh
7. Dr Himmat Singh Scientist D ICMR-NIMR New Delhi India

Abroad

1. Dr Leo Braak Senior Vector Control Specialist: Malaria Consortium Asia & Technical Lead: APMEN VC Working Group Bangkok Thailand
2. Dr Helena Ulliyartha Infectious Diseases Unit, Centre for Research and Development of Public Health Effort, NIHRD Jakarta Indonesia

NCDC

1. Dr N Balakrishnan Former Joint Director, NCDC Bengaluru Unit, Bengaluru India

States

1. Dr M M Pradhan Additional Director, Public Health Officer (VBD), State Technical Guide Odisha India
2. Dr A T S Sinha Former State Entomologist Bihar and in-Charge State Entomologist Jharkhand India
3. Dr J C Paliwal Former State Entomologist Madhya Pradesh India
4. Mr. George Kurien Biologist and in-Charge State Entomologist Gujarat India
5. Mr S Sridharan, Former Chief Entomologist, Government of Tamil Nadu, Chennai, India
6. Dr H C Gera Former State Entomologists, UT of Chandigarh India

Absolute Human Care Foundation Our Collaborators



Dr E Pushpalatha

HOD Associate Professor, Department of Zoology, University of Calicut Kerala India. She is working in the field of Biopesticides & Toxicology and Regeneration Biology. She was the founder Director of Institute of tribal Studies and Research, the prestigious institute of the University of Calicut located at Wayanad, Kerala and extended her services to the institute for more than seven years from 2012 to 2019. She has published three book chapters and edited book volume of "Hand book of Taxonomy on Diptera". She is member of editorial board of many International journals like Entomon, African Journal of Biotechnology, Asian Journal Education and Social Studies, Journal Aquatic Biology and Fisheries etc. Apart from that she is life member of many professional/scientific bodies.



Dr Indranil Kar,

is currently Principal, Surendranath College Kolkata West Bengal, India. He has been a researcher, scientist and has headed the Chennai field unit of National Institute of Malaria Research from 1990 to 1994. His work involved field study to test the feasibility of bio-environmental control of malaria in Chennai, efficacy of biolarvicides, several other indigenous products and related laboratory studies. Tackling problem of Urban Malaria in metro city and other corporations has been his priority areas of operational research

Absolute Human Care Foundation Editorial Board



Dr Sushma Srivastava
Sr Consultant
Indian Pharmacopoeia Commission,
Ghaziabad, Uttar Pradesh, India



Dr R R Sharma,
Chairman & Director
AHC Foundation
India



Dr Jayalakshmi Krishnan
Department of Life Sciences
Central University of Tamil Nadu (CUTN)
Thiruvavur, Tamil Nadu, India



Mrs Usha A,
Entomologist
Tumakuru Karnataka



Dr Amit Katewa,
Consultant,
NVBDCP, Delhi.



Dr (Mrs) Anju Viswan K,
Deputy Assistant Director
NCDC Jagdalpur,
Chhattisgarh.



Dr (Mrs) Sagya Singh,
State Consultant Entomology
NVBDCP Jharkhand
India



Mrs Bhagyasree, M R,
R&D Executive-Entomology
Reckitt Beckiser India Pvt Ltd.,
Gurugram, Haryana, India

Absolute Human Care Foundation Accomplishments



Absolute Human Care Foundation went into an agreement with MMTC Limited and undertook an project of **“Menstrual Hygiene Management”** (MHM) with a team of Doctors from Delhi Govt to carry out the study.



Absolute Human Care Foundation Accomplishments



Exploring the Association's presence in Nepal for collaboration on capacity building in the field of Health and Education.

Presentation made by Chairman of AHCF in the August gathering of Hon'ble Dy. Prime Minister of Nepal and Indian Mission Head along with various senior officials from different departments, government of Nepal

Absolute Human Care Foundation Accomplishments

Market feasibility report on *Bacillus thuringiensis israelensis* (bti) for HIL (India) Limited by: Dr. R.S.Sharma & team of Absolute Human Care Foundation

Absolute Human Care Foundation undertook a consultancy project with HIL (INDIA) LIMITED (Formerly M/s. Hindustan Insecticides Limited) Under the Aegis of UNIDO to prepare a **Market Feasibility Report** for *Bacillus thuringiensis* Israelensis (BTi). The Final Report was compiled and submitted to HIL(India) Limited by AHC Foundation.



REPORT

Feasibility report on *Bacillusthuringiensis varisraelensis* (Bti)

Objective / Scope of work

- 1- Providing Detail Market Feasibility Report of product Bti in India covering market size in terms of quantity and Rupee value.
- 2- Complete report covering cost breakup and profitability.
- 3- Market demand and supply study and pattern.

Executive summary

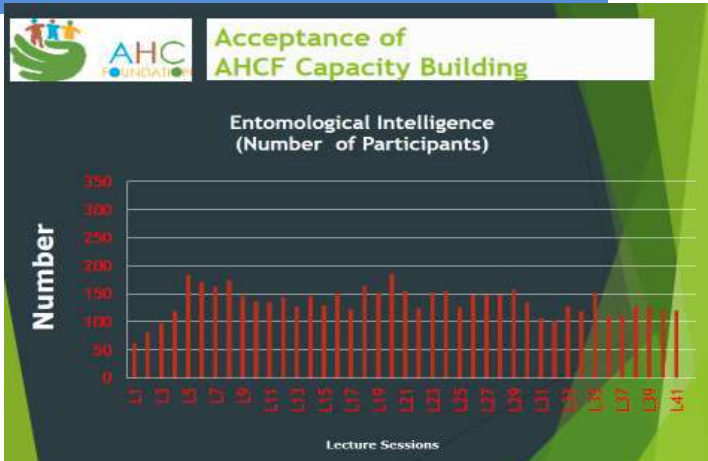
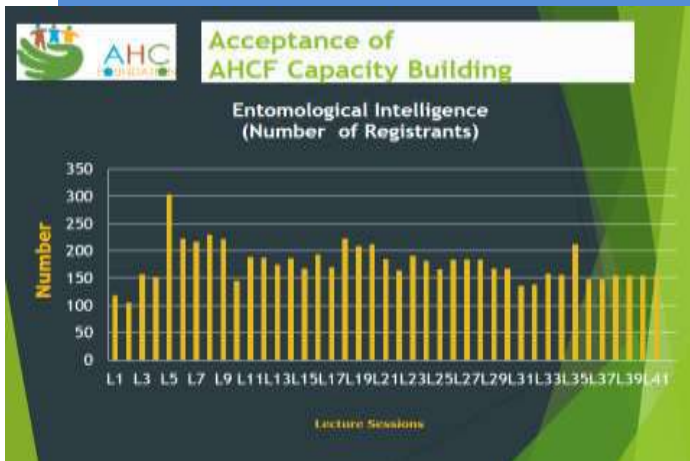
DDT is currently used in indoor residual spraying (IRS) for malaria vector control in several countries, in accordance with the recommendations and guidelines of the World Health Organization (WHO). Nonetheless, this chemical is among the 12 persistent organic pollutants (POPs) the production or use of which is restricted by the Stockholm Convention because of the high risk it poses to environment and human health. To reduce the reliance by countries on DDT, integrated vector management (IVM) is being promoted due to its cost effectiveness, ecological soundness, and sustainability. IVM creates the opportunity to implement a combination of chemical and nonchemical methods. A number of non-chemical methods have proven their value in malaria vector control in certain settings but more work is needed on the incremental impact of these methods when used in conjunction with backbone interventions such as Biolarvicides (Bti), indoor residual spraying (IRS) and long-lasting insecticidal nets (LLINs). Urban Malaria Scheme (UMS) was sanctioned in 1971 and larvicides were recommended for anti-larval measures in town/cities with Annual parasite Incidence more than 2. Initially 23 towns were selected for programme implementation. Subsequently, the Scheme was extended to 131 towns in 19 states/Union Territories covering a population of 116 million. Later in 1978 due to merger of National Falaria Control Programme 206 towns were also brought under vector control support and the preventive measures against malaria vector breeding in clean water as well as filarial vector breeding in polluted water were integrated. Bti was recommended as one of the biolarvicide for control of disease vectors in urban areas. Two formulations viz. Bti (WP) and Bti (AS) are used in the country. The tentative technical requirement of Bti in all the towns will be 1600 MT. An estimated value of BTi in the towns and cities under Urban Vector Borne Disease Programme will be Rs 224 crore per year @ Rs1400 per Kg depending on procurement by the implementing agencies.



Absolute Human Care Foundation Accomplishments

During COVID-19 Pandemic

AHCF conducted
a massive charitable initiative
of
capacity building through series of 43 lectures
on
core entomological & Integrated Vector Management
(During 18 June-20 December, 2021)
Registering more than 700 persons
including 250 malaria staffs and entomologists
across India working for
National Vector Borne Disease Control Programme



Entomological Intelligence Valedictory Function
Zoom Meeting
December 20, 2020 @ 7:30 PM IST

Guest of Honour
Dr Sujit Kumar Singh
Director NCDC, Delhi

Chief Guest
Professor A. P. Dash,
Vice Chancellor, APJ University
Bhubaneswar

Guest of Honour
Dr. Neeraj Dhingra
Director NVBDCP, Delhi

 Dr RS Sharma Director AHCF Foundation, Delhi	Welcome Address
 Dr PK Srivastava Director AHCF Foundation, Delhi	Accomplishments
 Dr E Pushpalatha Head Zoology Department Calicut University, Kerala	Collaborator's View
 Dr Indranil Kar Principal, Surenbratanath College, Kolkata	Strengthening Capacity & Capability
 Dr Kalpana Baruah Additional Director NVBDCP, MoH & FW, Delhi	Vote of Thanks
 Dr RR Sharma Director AHCF Foundation, Delhi	

SKILL DEVELOPMENT
A penny now makes them a beggar for life. Skills makes them live with pride. Reason why AHCF strives to empower the men and women with skill sets.

[Register here](#)

Organized by Absolute Human Care Foundation, New Delhi- A Non-Profit NGO



ABSOLUTE HUMAN CARE FOUNDATION

Website : www.absolutehumancarefoundation.com

In Collaboration with

Department of Zoology, University of Calicut and Surendranath College Kolkata West Bengal

ENTOMOLOGICAL INTELLIGENCE

**COLLABORATIVE EFFORTS AS SOCIAL SERVICE TOWARDS STRENGTHENING CAPACITY
ON PREVENTION, CONTROL & ELIMINATION OF VECTOR BORNE DISEASES**

Date: 20.12.2020

Time: 19.30 Hours (IST)

Venue: Online

AGENDA

Time	Topic	Speakers
19.30-19.35	Welcome of Guests, Collaborators, Resource Faculties & Participants	Dr R.S. Sharma, Director AHC Foundation, Former Addl. Director & Head, CME & VC, NCDC, GoI
19.35-19.45	Accomplishments	Dr P K Srivastava, Director AHC Foundation, Former Joint Director & HoD Entomology & Vector Control Division, NVBDCP, GoI.
19.45-19.48	Collaborator's View	Dr E Pushpalatha, Head Zoology Department, Calicut University, Kerala
19.48-19.51		Dr Indranil Kar, Principal, Surendranath College, Kolkata
19.51-19.54	Strengthening Capacity & Capability	Dr Kalpana Baruah, Additional Director NVBDCP, MoH & FW, GoI, Delhi
19.54-20.00	Participant's Feedback	1. Dr. Sagya Singh, NVBDCP Jharkhand 2. Dr. Surajita Banerjee, IDSP Kolkata 3. Dr. Anju Viswan, NCDC Jagdalpur
20.00-20.03 20.03-20.05	Feedback on conduct of Sessions	1. Dr. J C Paliwal, Former Sate Entomologist, M.P. 2. Dr. H C Gera, Former State Entomologist, Chandigarh
20.05-20.10	Address	Dr. Sujit Kumar Singh, Director NCDC, MoH & FW, GoI, Delhi Guest of Honour
20.10-20.15	Address	Dr. Neeraj Dhingra NVBDCP, MoH & FW, GoI, Delhi Guest of Honour
20.15-20.20	Address 'Helping to shape future of India'	Professor A. P. Das, AIPH University, Vice Chancellor • Former Vice Chancellor Central University of Tamil Nadu, • Former Director ILS, ICMR Institutes viz., NIMR Delhi, RMRC Jabalpur, DMRC Jodhpur & CRME Madurai Chief Guest
20.20-20.30	Vote of Thanks	Dr R R Sharma, Director AHC Foundation

Wishing everyone to be safe and healthy during period of pandemic of COVID-19

Schedule of Entomological Intelligence -Strengthening Capacity of entomologists affiliated with different Institutions (Free Online during Covid-19 Pandemic)

Sl. No.	Days	Date	Time	Topic	Expert
1	Saturday	18.7.2020	19.30-20.30	Artropods of Medical Importance	Dr R S Sharma
2	Sunday	19.7.2020	19.30-20.30	Mosquito and Malaria Vectors	Dr P K Srivastava
3	Saturday	25.7.2020	19.30-20.30	Entomological aspects of Urban areas	Dr S N Sharma
4	Sunday	26.7.2020	19.30-20.30	Entomological Surveillance, Parameters and significance	Dr R S Sharma
5	Saturday	1.8.2020	19.30-20.30	Understanding DengueTransmission and Control	Dr Kalpana Baruah
6	Sunday	2.8.2020	19.30-20.30	Insecticide Resistance Morning	Dr Rajpal Yadav
7	Saturday	8.8.2020	19.30-20.30	Integrated Vector Management	Dr P K Srivastava
8	Sunday	9.8.2020	19.30-20.30	Taxonomy and Identification of Mosquitoes	Dr B N Nagpal
9	Sunday	16.8.2020	19.30-20.30	JE transmission, vector bionomics and outbreak investigation	Dr Roop Kumari
10	Sunday	23.8.2020	19.30-20.30	IVM part II	Dr P K Srivastava
11	Saturday	29.8.2020	19.30-20.30	Taxonomy and Identification of Mosquitoes Part II	Dr B N Nagpal
12	Sunday	30.8.2020	19.30-20.30	Entomological Techniques for Field Sampling of Adult & larval stages of Mosquitoes	Dr Himmat
13	Saturday	5.9.2020	19.30-20.30	Entomological Techniques (Laboratory) to process Field Samples	Dr Himmat
14	Sunday	6.9.2020	19.30-20.30	ITN & Long Lasting Insecticidal Nets	Dr M M Pradhan
15	Saturday	12.9.2020	19.30-20.30	Climate Change and its Impact on VBDs	Dr R C Dhiman
16	Sunday	13.9.2020	19.30-20.30	Larval Source Management (LSM)	Dr R S Sharma
17	Saturday	19.9.2020	19.30-20.30	Biological Control- Fish	Dr S K Ghosh
18	Sunday	20.9.2020	19.30-20.30	Outbreak control in VBD- Some Field Experiences	Dr J C Paliwal
19	Saturday	26.9.2020	19.30-20.30	Environment Management Plan (EMP) & ECOP	Dr R S Sharma
20	Sunday	27.9.2020	19.30-20.30	Mode of Action and mechanism of Insecticide & Mathematics under IVM and Test	Dr P K srvastava

21	Saturday	3.10.2020	19.30-20.30	Mode of Action and mechanism of Insecticide used under public health for Vectors Principles and implementation of IRS Mathematics of Insecticidal spray Fogging and its relevance	Dr P K srvastava
22	Sunday	4.10.2020	19.30-20.30	Malaria Life Cycle	Dr Kurien
23	Saturday	10.10.2020	19.30-20.30	Blood Meal Analysis	Mrs Basra
24	Sunday	11.10.2020	19.30-20.30	Malaria Elimination :Concept and strategy	Dr R S Sharma
25	Saturday	17.10.2020	19.30-20.00 20.10-20.40	Leo Barrak malaria	Leo Braak
26	Sunday	18.10.2020	19.30-20.30	Lymphatic Filariasis History & Transmission Cycle	Dr P K Srivastava
27	Saturday	31.10.2020	19.30-20.30	LF Elimination concept and strategy Mapping, MDA & Monitoring	CANCELLED
28	Sunday	1.11.2020	19.30-20.30	Entomological aspects and Vector Control in LF	CANCELLED
29	Saturday	7.11.2020	19.30-20.30	Historical background of Kala azar and its transmission Cycle Kala azar Elimination Monitoring with emphasis on Entomological approach	Dr ATS Sinha, Dr R K Das Gupta, Dr Diwakar
30	Sunday	8.11.2020	19.30-20.30	VL Elimination Concept Global view	DrSaurabh Jain
31	Saturday	21.11.2020	19.30-20.30	VBD: Indonesian Perspective	Dr Helena
32	Sunday	22.11.2020	19.30-20.30	Tics borne disease and identification	Dr N Balakrishnan
33	Saturday	28.11.2020	19.30-20.30	"Scrub typhus - An emerging problem"	Dr Rina Tilak
34	Sunday	29.11.2020	19.30-20.30	Health Act Navi Mumbai as Example	Dr Ujjwala Oturkar
35	Saturday	5.12.2020	19.30-20.30	LF Elimination: Acceleration Through Triple Drug MDA (Session 27) Monitoring Throgh Transmission Assessment Survey (TAS) Session 28 RESCHEDULED	Dr K Krishnamoorthy

36	Sunday	6.12.2020	19.30-20.30	Entomological aspects and Vector Control in LF Elimination Session 35 Xenomonitoring for LF Session 36	Dr S SriDharan Dr K Krishnamoorthy
37	Saturday	12.12.2021	19.30-20.31	Tools and Technology of Vector Control Session 37 Use of CFV in WHO Recommended Hand Compression Pump Session 38	Dr. S. Sridharan Dr R. M. Bhatt
38	Sunday	13.12.2022	19.30-20.31	IEC/BCC strategy to strengthen the outreach (Session 39). Monitoring through transmission Assessment Survey (TAS) Session 40 Rescheduled	H.C. Gera Dr K.K./PKS
39	Saturday	19.12.2023		Urban Malaria-an emerging Threat (Session 41)	Dr Ashwani Kumar
40	Sunday	20.12.2024		Panel discussion and Valedictory -online	Dr P K Srivastava

Course Outcome

Entomological Intelligence aims to attain professional competence in the field of medical entomology with special reference to Insect Vector surveillance, control and management. Exposure of various collection tools and techniques, sorting of larvae, pupae and identify different stages of larvae of the insects of medical importance. It also aims strengthening capacity on prevention, control and elimination of vector borne diseases.

Entomological Intelligence - Report

Absolute Human Care Foundation in collaboration with Department of Zoology, University of Calicut, Malppuram, Kerala and Surendranath College Kolkata, West Bengal conducted a massive charitable initiative of capacity building through series of 43 lectures on core entomological and Integrated Vector Management Programme from 18 June to 20 December, 2021. This special programme of ENTOMOLOGICAL INTELLIGENCE is a collaborative effort as social service towards strengthening capacity on prevention, control & elimination of vector borne diseases. The entire programme was conducted in online platform (ZOOM) and there are more than 700 persons registered through online which included 250 malaria staffs and entomologists across India working for National Vector Borne Disease Control Programme. All the sessions are handled by the experienced resource persons of the specific field of the subject. More than 250 public health staffs, research scholars and also PG students benefited the programme.

**DEPARTMENT OF ZOOLOGY
UNIVERSITY OF CALICUT**



SYLLABUS FOR VALUE ADDED COURSE

ENTOMOLOGICAL INTELLIGENCE

The Department council meeting held on 17.07.2021 resolved and approved the syllabus on value added course on Entomological Intelligence.

Head of the Department

VALUE ADDED COURSE ON ENTOMOLOGICAL INTELLIGENCE

SYLLABUS CONTENT

40 hr

Unit I	Introduction	Duration
	Arthropods of Medical Importance	8 hr
	Mosquito and Malaria Vectors	
	Entomological aspects of Urban areas	
	Entomological Surveillance, Parameters and significance	
	Understanding Dengue Transmission and Control	
	Insecticide Resistance Monitoring	
	Integrated Vector Management	
	Taxonomy and Identification of Mosquitoes	
	JE transmission, vector bionomics and outbreak investigation	
Unit II	Integrated Vector Management (IVM)	
	Entomological aspects and Vector Control in LF Elimination Xenomonitoring for LF	7 hr
	Tools and Technology for Vector Control Use of CFV in WHO Recommended Hand Compression Pump	
	IEC/BCC strategy to strengthen the outreach Monitoring Through Transmission Assessment Survey (TAS)	
	Urban Malaria-an emerging Threat	
Unit III	Taxonomy and Identification of Mosquitoes	
	Entomological Techniques for Field Sampling of Adult & larval stages of Mosquitoes	10 hr
	Entomological Techniques (Laboratory) to process Field Samples	
	ITN & Long Lasting Insecticidal Nets	
	Climate Change and its Impact on VBDs	
	Larval Source Management (LSM)	
	Biological Control- Fish	
Unit IV	Outbreak control in VBD- Some Field Experiences	
	Environment Management Plan (EMP) & ECOP	15 hr
	Mode of Action and mechanism of Insecticide & Mathematics under IVM and Test	
	Mode of Action and mechanism of Insecticide used under public health for Vectors Principles and implementation of IRS	
	Mathematics of Insecticidal spray Fogging and its relevance	
	Malaria Life Cycle	
	Blood Meal Analysis	
	Malaria Elimination :Concept and strategy	
	Leo Barrak malaria	
	Lymphatic Filariasis History & Transmission Cycle	
	LF Elimination concept and strategy Mapping, MDA & Monitoring	
	Entomological aspects and Vector Control in LF	
	Historical background of Kala azar and its transmission Cycle Kala azar Elimination Monitoring with emphasis on Entomological approach	

	VL Elimination Concept Global view	
	VBD: Indonesian Perspective	
	Tics borne disease and identification	
	"Scrub typhus - An emerging problem"	
	Health Act Navi Mumbai as Example	
	LF Elimination: Acceleration Through Triple Drug MDA Monitoring Through Transmission Assessment Survey (TAS)	