Programme outcome

DEPARTMENT OF ZOOLOGY

Session:July,2021 – June,2022

Title of the Programme 1 : International Immunology Day 2022

Date of Programme : April 30, 2022

Introduction:

The 29th of April marks the Day of Immunology – a day dedicated to increasing the global awareness of the importance of immunology in the fight against infection, autoimmunity, and cancer. The theme for the 2022 Day of Immunology is 'Vaccines'.

On April 29th, Immunology Day is celebrated annually worldwide. This aims to raise global awareness of the importance of immunology and immunological research in the fight against infections, autoimmunity, and cancer. The Day of Immunology was created by the European Federation of Immunological Societies (EFIS) and took place for the first time on April 29, 2005. It has been celebrated worldwide since 2007. The day aims to increase public awareness of immunology and immunological research as the basis for individual health and well-being.

Brief report on the programme (Different achievements and benefits of the programme)

An academic Seminar (Offline) has been arranged by Department of Zoology, BGC to celebrate International Immunology Day 2022 (April 30, 2022). Speaker of the said seminar was Dr SyamdasBandyopadhyay, Assistant Professor, Dept of Zoology, Burdwan Raj College. The seminar was a one & half hour long program being curated by PG Dept of Zoology, Barasat Govt. College, with an audience of about 100 participants (approx.), made up of undergraduate & postgraduate students, and faculties of our college. His discussion on "The Saga of CD1d", was a great addition to our event.

CD1D is the human gene that encodes the protein CD1d,a member of the CD1 (cluster of differentiation 1) family of glycoproteins expressed on the surface of various human antigenpresenting cells. They are non-classical MHC proteins, related to the class I MHC proteins, and are involved in the presentation of lipid antigens to T cells.

Biological significance

CD1d-presented lipid antigens activate a special class of T cells, known as natural killer T (NKT) cells, through the interaction with the T-cell receptor present on NKT membranes. When activated, NKT cells rapidly produce Th1 and Th2 cytokines, typically represented by interferon-gamma and interleukin 4 production.

Seminar related to Cd1 research work has increased research interest like CD1d-Expressing Cancer Cells, Cell-Mediated Immunity in a Murine Model.

Text file link in college portal (Flyers/report etc)

https://bgc.ac.in/index.php?option=com_content&view=article&id=166&Itemid=0

Title of the Programme 2 : Neglected Tropical Disease Day

Date of Programme : 29/01/2022

Introduction

NTDs are a diverse group of 20 conditions that are caused by a variety of pathogens including viruses, bacteria, parasites, fungi and toxins. They cause devastating health, social and economic consequences to more than one billion people.

The epidemiology of NTDs is complex and often related to environmental conditions. Many of them are vector-borne, have animal reservoirs and are associated with complex life cycles. All these factors make their public-health control challenging.

NTDs are prevalent mainly in rural areas, in conflict zones and hard-to reach-regions. They thrive in areas where access to clean water and sanitation is scarce – worsened by climate change. Addressing these diseases requires cross-sectoral approaches and tackling associated mental health and other issues such as stigma and discrimination.

WHO's road map for 2021-2030, aligned with those of the Sustainable Development Goals, sets out ambitious targets in tackling many of these diseases in an integrated manner.

Brief report on the programme (Different achievements and benefits of the programme)

To mark World Neglected Tropical Diseases Day (WNTDD), the World Health Organization (WHO) is calling on everyone, to rally to confront inequalities that characterize NTDs and ensure that the poorest and marginalized communities who are mostly affected by neglected tropical diseases (NTDs) receive the health services they need.

"Progress achieved over the last decade is the result of the excellent public-private partnership with countries endemic for NTDs and the unfaltering support of partners who endorsed the London Declaration in 2012," said DrGautam Biswas, acting Director, WHO Department of Control of Neglected Tropical Diseases

PG Dept. of Zoology has celebrated World NTD day. Students of UG and PG program has submitted posters, graphical artworks, and drawings to arrange an online awareness initiative on "Neglected Tropical Disease Day" (30/01/2022). They have also submitted brief talks or group discussions (5-6 minutes each). The themes of the presentations are vectors, modes of transmissions, impacts, implications, control, prevention, elimination and eradication of these diseases. A webinar has also been arranged by our department featuring the lecture of Dr.Madhumita Manna, WBSES, Additional Director of Public Instruction (Administration), Education Directorate, Department of Higher Education, Govt. of West Bengal, India on the theme 'Beat NTDs. For Good. For All. Together, We Can Combat NTDs' on 29 January 2022, 7 PM (IST).

This program will help for acquirement of knowledge in this Particular Field. It provided a chance to interact with experts from the specific field.

Text file link in college portal (Flyers/report etc)

https://bgc.ac.in/index.php?option=com_content&view=article&id=166&Itemid=0

https://www.youtube.com/watch?v=gM4gKGY1Oc4

Title of the Programme 3 : "Celebrating 100 yearsof insulin discovery: advances

and opportunities in diabetes research"

Date of Programme : November 26th, 2021

Introduction

Since prediabetes and type 2 diabetes may be prevented or delayed, raising diabetes awareness can educate people on possible symptoms and ways to reduce their individual risk.

Diabetes education can improve the quality of life of diabetic patients and can also prevent the costs of long-term complications of diabetes in the patients

Monitoring blood glucose level is most important. The results of blood glucose monitoring can help to make decisions about food, physical activity, and medicines. Checking and recording your blood glucose level is an important part of managing diabetes.

Brief report on the programme (Different achievements and benefits of the programme)

In 1921, a team of Canadian researchers discovered the molecule insulin and ignited a century of ground-breaking innovations in diabetes care that have since saved countless lives.

Today, we are fortunate to have better medicines than ever, yet the number of people living with diabetes continues to grow at an alarming rate, placing a substantial burden on individuals, families and societies.

Zoology department has also arranged a national webinar on "Celebrating 100 years of insulin discovery: advances and opportunities in diabetes research" on November 26th, 2021. The speakers of the said webinar were Dr.Anirban Sinha, Assistant Professor, Department of Endocrinology, Medical College, Kolkata (Topic: Recent Advances In Insulin And Delivery Technology In Diabetes) and Dr.ParthaChakrabarti, Principal Scientist, Cell Biology & Physiology CSIR-IICB, Kolkata (Topic: Insulin And Indian Diabetes: Ideas And Experiments).

This program will help for Acquirement of Knowledge in this Particular Field. It provided a chance to interact with experts from the specific field.

Text file link in college portal (Flyers/report etc)

https://bgc.ac.in/index.php?option=com_content&view=article&id=166&Itemid=0

Title of the Programme 4: International webinar on comprehensive current approaches to oncogenetics& pollination ecology

Date of Programme : October 1, 2021

Brief report on the programme

Every year, cancer is responsible for millions of deaths worldwide and, even though much progress has been achieved in medicine, there are still many issues that must be addressed to improve cancer therapy and treatment. For this reason, oncological research is putting a lot of effort towards finding new and efficient therapies which can alleviate critical side effects caused by conventional treatments.

International Webinar on International webinar on, comprehensive current approaches to oncogenetics& pollination ecology has been arranged by Zoology Department on October 1, 2021 (registration last date September 27, 2021). The two young and energetic speakers were Dr.Sayan Chakraborty, who is now serving as a Research Assistant Professor & NMRC Young Investigator, Institute of Molecular & Cell Biology, A-STAR, Singapore and Dr.PriyadarshiniChakrabartiBasu, now serving as Assistant Professor, Pollinator Health & Apiculture, Department of Biochemistry, Molecular Biology, Entomology & Plant Pathology, Mississippi State University, USA.

Pollination ecology is the study of pollen transfer through understanding of interactions between plants and pollinators in relation to the prevailing habitat.

This program will help for Acquirement of Knowledge in this Particular Field. It provided a chance to interact with experts from the specific field.

For all the seminars and webinars, departmental faculties perform their duties as organizing secretaries, Convenors and/or members on rotational basis under the patronship of Dr. Samar Chattopadhyay, Principal, BarasatGovt College. The programs were supported by IQAC, BGC. The webinars were live streamed at college YouTube channel and the numbers of participants were approximately 500+ for the webinars and 100+ for the offline seminars, comprising of UG and PG students, faculties, researchers of several institutions in India. The programs were documented on college website and certificates were given to the participants.

YouTube: https://youtu.be/GjTpS56dW3A

Text file link in college portal (Flyers/report etc)

https://bgc.ac.in/index.php?option=com_content&view=article&id=166&Itemid=0

Title of the Programme 5: Departmental Poster cum Slogan Competition 2022

for celebrating "World Bee Day 2022"- 20th May, "World Biodiversity Day" 2022- 22nd May and "World Environment Day" 2022- 5th June

Date of Programme : 27/05/2022

UG (Hons and General) and PG students of department of Zoology, BGC participated at departmental offline poster cum slogan competition to celebrate above mentioned days. They submitted Word-art; mandala Paintings, Photograph Collage, & Digital Artworks on these particular themes mentioned on 27/05/2022. The best/ selected posters have been displayed on departmental wall magazine.

https://bgc.ac.in/news/admin/uploads/a3f3d Departmental-Poster-Competition-2022.pdf



ACADEMIC SEMINAR & & POSTER PRESENTATIONS

World Earth Day る International Immunology Day 2022

The Saga of CD1d

Dr Syamdas Bandyopadhyay Assistant Professor, Department of Zoology Burdwan Raj College West Bengal - 713 104



Seminar Hall April,30 2022 12:30 PM

ORGANIZED BY:

PG DEPARTMENT OF ZOOLOGY BARASAT GOVERNMENT COLLEGE SUPPORTED BY: IQAC, BGC

www.bgc.ac.in



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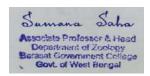
Notice

24.12.2021

The students of PG Dept. of Zoology (B.Sc. Hons. and M.Sc.) are hereby directed to submit posters, graphical artworks, and drawings to arrange an online awareness initiative on "**Neglected Tropical Disease Day**" (30/01/2022).

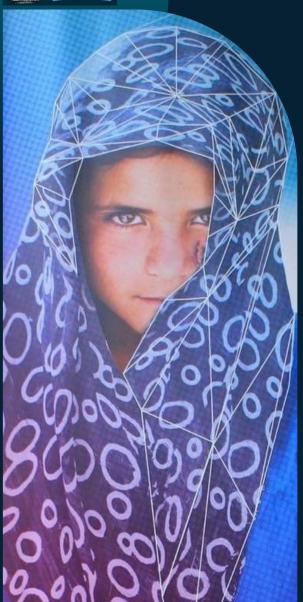
You may also submit brief talks or group discussions (5-6 minutes each; Bengali or English version). The themes of the presentations are vectors, modes of transmissions, impacts, implications, control, prevention, elimination and eradication of these diseases.

You may prepare the same within this winter vacation and submit on or before 10/01/2022 to Somaditya.dey@bgc.ac.in



Head Dept of Zoology







2022

ONLINE ACADEMIC SEMINAR

Beat NTDs. For Good. For All.

Together, We Can Combat NTDs.

Something for everyone. Something for you.



DR. MADHUMITA MANNA, WBSES

Additional Director of Public Instruction
(Administration)
Education Directorate,
Department of Higher Education,
Govt. of West Bengal, India

WHOLE GENOME SEQUENCING AND MULTI LOCUS SEQUENCE
TYPING OF THE CLINICAL ISOLATES OF INDIAN KALA-AZAR
AND PARA KALA-AZAR DERMAL LEISHMANIASIS PATIENTS

29 JANUARY 2022 7 PM (IST)





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PG DEPARTMENT OF ZOOLOGY
BARASAT GOVERNMENT COLLEGE

SUPPORTED BY: IQAC, BGC

CONTACT:

8013247086

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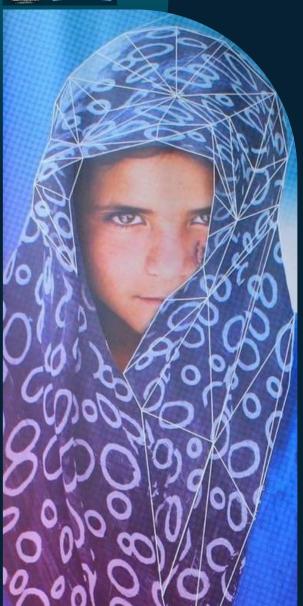
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29 JANUARY 2022 7 PM (IST)





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2022

ONLINE STUDENTS' ORAL & POSTER PRESENTATIONS

Beat NTDs. For Good. For All.

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Something for everyone. Something for you.

MINI ORAL PRESENTATIONS

GROUP DISCUSSION

E-POSTER PRESENTATIONS

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ONLINE ACADEMIC SEMINAR

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29 JANUARY 2022 6 PM (IST)



Join



Join

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06:00 PM: INTRODUCTION BY DR. SOMADITYA DEY, JT. ORGANIZING SECRETARY, NTD DAY AND DR. SUMANA SAHA, HOD, DEPT. OF ZOOLOGY, BARASAT GOVT. COLLEGE

06:05 PM: INAUGURATION AND WELCOME ADDRESS BY DR. SAMAR CHATTOPADHYAY, WBSES, PRINCIPAL, BGC

06.10 PM: ADDRESS BY DR. ABHIJIT DE, COORDINATOR, IQAC, BGC

1ST SESSION

06:15 PM: INTRODUCTION OF THE INVITED SPEAKER, DR. MADHUMITA MANNA, WBSES, ADPI (ADMINISTRATION), DEPARTMENT OF HIGHER EDUCATION, GOVT. OF WEST BENGAL, INDIA BY DR. JAYATI GHOSH, JT. ORGANIZING SECRETARY, NTD DAY.

06:20 PM - 07.05 PM: INVITED LECTURE BY DR.MADHUMITA MANNA, WBSES

07.05 PM - 07.10 PM: INTERACTIVE SESSION, COORDINATED BY DR JAYATI GHOSH, AND MS. SOUMYA MISHRA, MSC SEM-III STUDENT

07.10 PM - 07.15 PM: VOTE OF THANKS, BY DR. SRIKANTA GURIA, ASSISTANT PROFESSOR, DEPT. OF ZOOLOGY, BGC

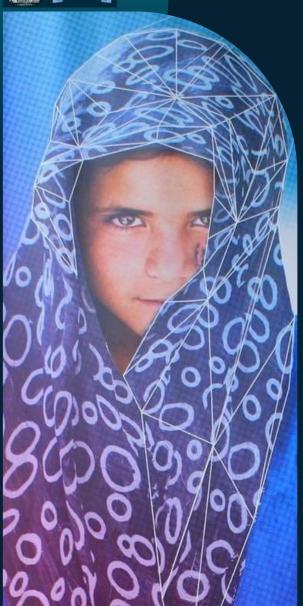
2ND SESSION

07.15 PM- 07.25 PM: E-POSTER PRESENTATIONS.

07.25 PM- 07.50 PM: RECORDED MINI ORAL PRESENTATION OF STUDENTS (UG & PG)

07:50 PM - 07.55 PM: CONCLUDING REMARKS BY DR. JAYATI GHOSH, ASSOCIATE PROFESSOR, DEPT OF ZOOLOGY, BGC





29 JANUARY 2022 7 PM (IST)





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2022

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IMAGING OUR FUTURE WITHOUT NEGLECTED TROPICAL DISEASES

Neglected tropical diseases are a diverse group of 20 diseases affecting more than 1.7 billion people worldwide in the most vulnerable and poorest communities. These diseases have severe impact on people's livelihood, health and social life. Today India is the home to the world's largest burden of about eleven major NTDs.

Eleven Neglected Tropical Diseases of India

- Ascariasis
- Trichuriasis
- Trachoma
- Dengue
- Lymphatic Filariasis
- Cysticercosis
- Hookworm disease
- Cystic Echinococcosis
- Rabies
- Leprosv
- Visceral Leishmaniasis



LONDON
DECLARATION ON
NTDS ON 30 th
JANUARY, 2012

The declaration aimed to control or eliminate 10 NTDs by 2020



World Health
Assembly endorsed
a decision in May,
2021 recognizing
30th January as
World Neglected
Tropical Diseases
Day



World NTD Day will commemorate the launch of the first NTD road map

WORLD NTD DAY

Aim is to effectively eliminate all NTDs by 2030



IMPACT OF NTDS

- ✓ Affecting the world's poorest people
- ✓ On children's and Women's Health

Challenges in tackling NTDs

- 1. Lack of Priority: Little attention from policy-makers.
- 2. These diseases receive less funding for treatment and research than AIDS and malaria or tuberculosis.
- 3. No vaccines or simple tests available for diagnosis.
- 4. Treatments are costly and time consuming.
- 5. Prevalence of social stigma.

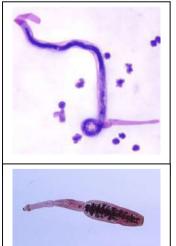
Dr. Jayati Ghosh, Associate Professor, Department of Zoology, Barasat Government College This year marks the launch of the WHO NTD Roadmap 2021-2030 which outlines a strategic framework for 149 countries to chart out a way forward in building a world without NTDs.

Safe drinking water, sanitation and hygiene

Large scale preventive treatment

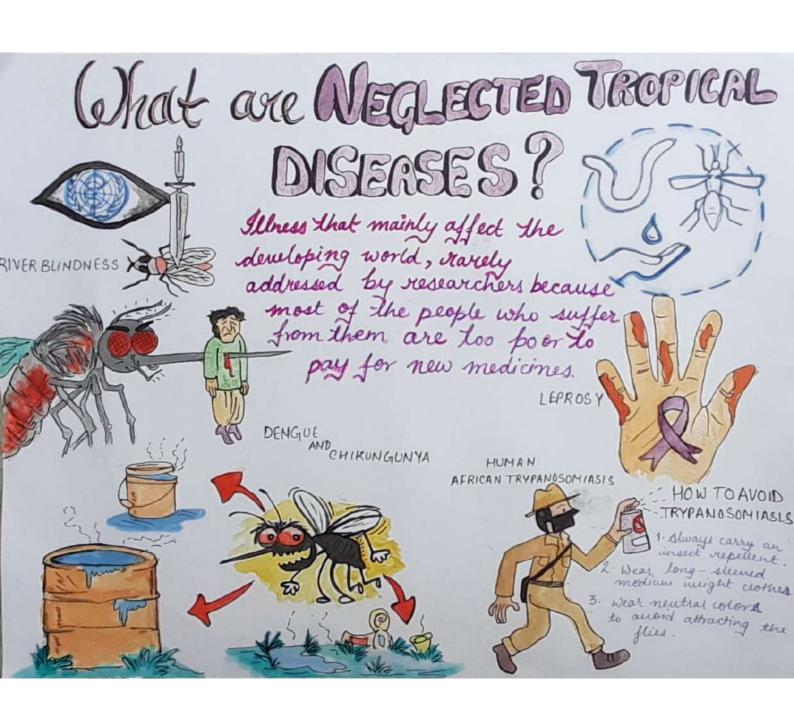
Integrated vector management

Veterinary public health



Innovative and Intensified disease management





NEGLECTED TROPICAL DISEASE (NTD)

Neglacted Tropical Diseases (NTDs) are a group of diseases that Couse Substantial ilness for more than one billion people globally. Affecting the world's poorest people, NTDs impact physical and Cognitive development, contribute to mother and child illness and death, and limit productivity.

CYSTICERCOSIS

disease caused by Taenia Solium (Worm). The lattrae of the parasife Taenia Solium get into tissues Such as musscle, brain, and your cysts there. This is called Cysticerci.

of developing allowed to faces and poop.

oncespheres Enbryonsfed eggs ingested by human wsf.

Cysticalcosis is found worldwide. Infection is found most often in nunal areas Cysticati may countries, where pies are develop in advantation freely and earl human wist comonly in these maiene and is Those hygiene practices are

> Through this infection lungs, brain, eye, liver thy word age most effected

Human is definitive hostand pig is primary informedisk

A person gets Cystical cosis by swallowing eggs found in the loves of a person who

progrations pussed into environment Life cycle and spreading of Taenia Solium.

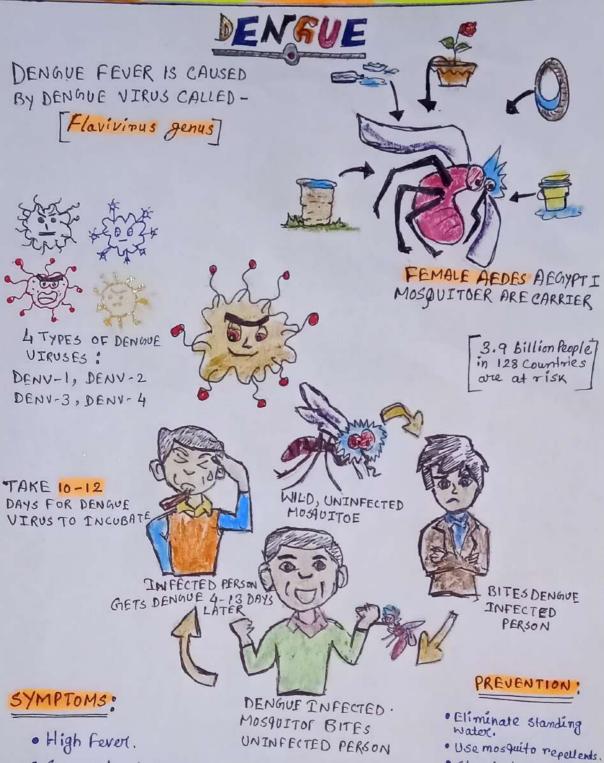
tapeworm, people living in the same household with some one who has a tapeworm has an infestings have a much risk log getting cysticescosis.

SYMPTOMS

- pain in abdomen.
- Nausea or vomiting.
- Headache, lump, seizures on swelling of optic disc.

PREVENTION

- Infections are generally theored with anti-porpositic drugs in Combination with anti-intlammatory drugs.
- Surgety is sometimes necessary to treat cyst in certain locations.



- · Severe headaches.
- · fain behind the eyes.
- Severce Joint and muscle pain.
- Nausea.
- Vomiting.
- · Skin rash.

- · Stay indoors.
 - · Wear protective clothing.
 - Use mosqueto

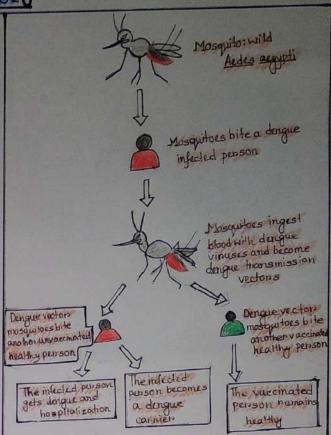
PLATELET COUNT GIOFS DOWN to 20,000 08 EVEN LOWER

WORLD NTD DAY (30 TJANUARY, 2022)

DENGUEO

THTRODUCTION

Dengue is a mosquita-bonne vinal disease occurring in thopical and subtropical areas. It is spread to people through the bite of an infected Aedes species (Aedes aegypti) mosquito. Almost holf of the world's population, live in areas with a risk of dengue. Severe dengue was first recognized in the 1950s during dengue epidemics in the Philippines and Thoiland. Dengue is caused by a vinus of the Flavivinidae family and there are four distinct, but closely pelated, serotypes of the vinus that cause dengue (DENV-1, DENV-2, DENV-3 and DENV-4). Recovery from infection is believed to provide lifelong immunity against that st serotype.



Eye Pain Headache Muscle pain Bone pain DENGUE Symptoms Feven Headache Headache Resh

PREVENTION

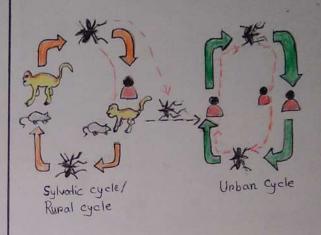
- · Use mosquito pepellents, even indoors
- When outdoons, wear long-sleeved shirts and long pants tucked into socks
 - When indoors, make sure window and door some screens are secure and free of holes. In sleeping areas use mosquito
 - o to reduce the mosquito population, get hid of places where mosquitos can breed. These include old times, cons on flower pots that collect nain. Regularly change the water in outdoor bind boths and pets water dishes.
 - If someone gets dengue fever, firstly consult the doctor and should take appropriate precoutions.

WORLD N'TO DAY (30" JANUARY, 2022)

CHIKUNGUNYA

THTRODUCTION

Chikungunya is an infectious disease caused by the Chikungunya vinus (CHIKV) Occuping in Alnica and Asia, outbreaks have been neported in Europe and the Americas since the 2000s. The vinus is spread between people by two types of mosquitoes: Aedes albopictus and Aedes aegypti. They mainly bite during the day. The disease was first identified in 1952 in Tanzania. The vinus may be circulate within a number of animals including birds and podents.



TRANSMISSION CYCLES OF CHIKUNGUNYA VIRUS



SYMPTOMS OF CHIKUNGUNYA

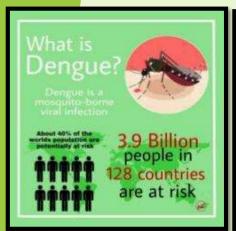


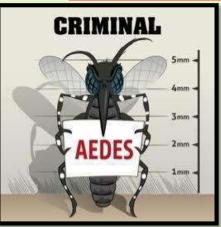
PREVENTION

- · Use mosquito replicants
- When outdoons, wear long sleeved shint and lock parts tucked into socks
- o II someone has chikungunya, prevent mosquito bites for the first neek of your his illness. Use the mosquito net to prevent the infection of virus from the infected penson. Take proper nest.

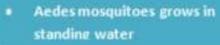
 Drink fluids to prevent dehydration.
 - Take medicine such as acetaminophen on papacetamot to neduce fever and pain. If you observe symptoms of chikungunya, finstly consult your physician. Then take the proper action.

"FIGHT FOR BITE-DENGUE"





Caused by dengue virus Caused by dengue virus Spread by Aedes mosquito If infected mosquitoes bite a man





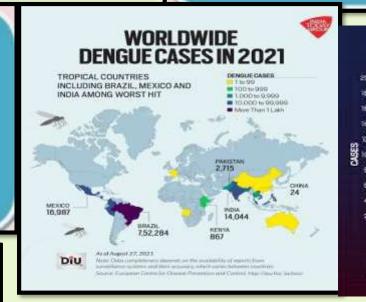


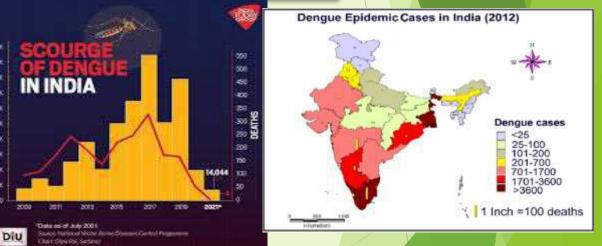
Treatment:

- No specific treatment
- · Consult doctors, take blood test
- Use paracetamol for muscle and joint pain
- Drink enough liquids
- Take enough rest

Covered by:

- Nipa Barai, Roll-24
- Soumodip Das, Roll-27
- Sahin Ali, Roll-06
- Pratik Halder, Roll-29





PG 1ST SEMESTER, ZOOLOGY DEPARTMENT, BARASAT GOVERNMENT COLLEGE

ASCARIASIS - THE MOST FREQUENT NEGLECTED TROPICAL DISEASE IN INDIA

30 January 2022, The 3rd Annual World NTD Day

Ankita Mondal, Post Graduate Department of Zoology, Barasat Government College

NTDs are a diverse group of tropical infections which are common in low-income populations in developing regions

1 out of 5 peoples are affected by NTDs

These diseases are neglected due to their asymptomatic nature and long incubation period.

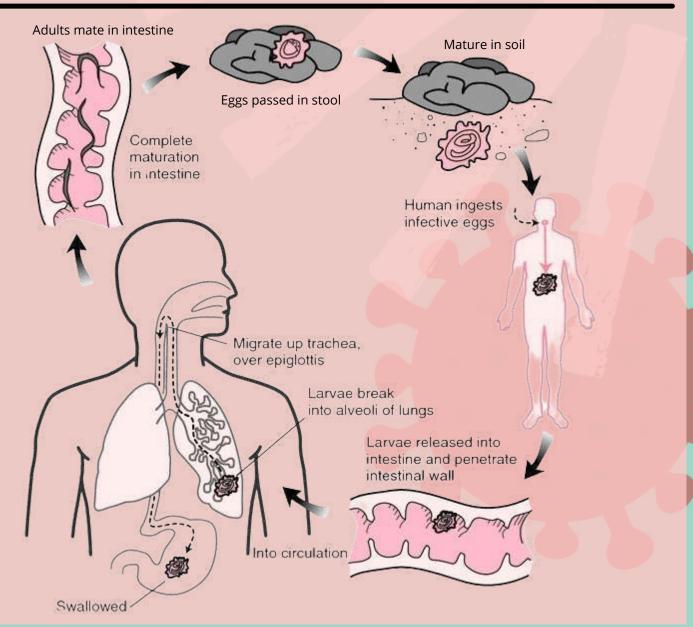
According to Global Burden of Disease Study, Ascariasis has 222.2 million cases in India & 799.7 million cases worldwide in 2016

Ascaris is an intestinal parasite of humans. The larvae and adult worms live in the small intestine and can cause intestinal disease.

PREVENTION IS BETTER THAN CURE

- Avoid ingesting soil that may be contaminated with human or pig feces, including where human fecal matter, wastewater, or pig manure is used to fertilize crops.
- Wash your hands with soap and water before handling food.
- Wash your hands with soap and water after touching or handling pigs, cleaning pig pens, or handling pig manure.
- Teach children the importance of washing hands to prevent infection.
- Supervise children around pigs, ensuring that they do not put unwashed hands in their mouths.
- Wash, peel, or cook all raw vegetables and fruits before eating, particularly those that have been grown in soil that has been fertilized with manure.

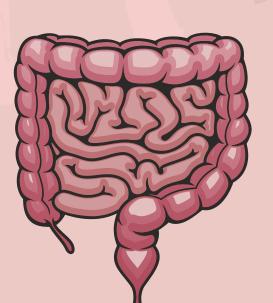
HOW DOES THE DISEASE SPREAD?



SYMPTOMS



- Persistent cough
- Shortness of breath
- Wheezing



- Abdominal pain
- Nausea and vomiting
- Diarrhea or bloody stools
- Weight loss or malnutrition
- A worm in vomit or stool

BEAT NTDS

FOR GOOD

FOR ALL

WORLD NTD DAY

Symptoms 5

1. Shortness of breath

2. Burning, itching, pain, and swelling where the worm is in your body (often the legs and feet)
3. Blister where the worm breaks through the skin





Chagas disease Symptoms

–Rajat Paul Bsc 3rd sem



1.Fever
2.swelling at infection site
3.eyelid swelling

WORLD NTD DAY





during the day

If anyone is effected by the dengue, immediately consult with doctor



Prevent the mosquito breeding



"TO CLOSE THE GAP FOR VISION – ABOLISH TRACHOMA."

Rimi Mondal* and Bapi Ghosh#

Affiliation: * = PG student, 1st Semester, Depertment of Zoology, Barasat Government College.

= PG student, 1st Semester, Depertment of Zoology, Barasat Government College.

Abstract:

Trachoma is the most common infective acute cause of blindness and is a global epidemic. This poster examined trachoma and identified the causes of its transmission, including the links with poverty and gender. It also discussed how the evidence-based "SAFE" strategy (Surgery, Antibiotic treatment, clean Faces, and Environmental changes) plays an important role in the World Health Organization (WHO) Global Alliance to Eliminate Trachoma (GET) worldwide by the year 2020. Finally, the poster synthesized visual and written journal evidence available on trachoma and the WHO including reports from the meetings on the WHO GET 2020 and the International Training Workshops on the Assessment and Management of Trachoma Control.

Key Words: Trachoma, NTDs, GET 2020, Gender and Trachoma, SAFE strategy, India and Trachoma, WHO.

Introduction:

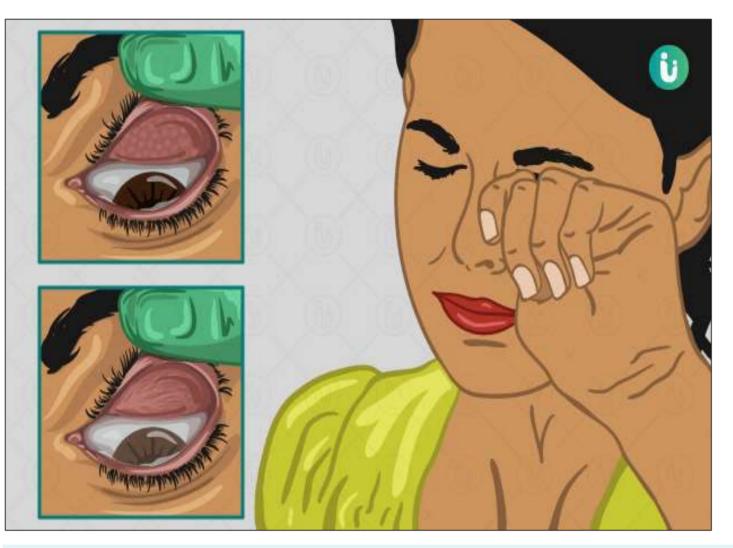
- Trachoma is one of many NTDs (Neglected tropical diseases) that are rooted in poverty.Trachoma hyperendemic in many of the poorest and most rural areas of Africa, Central and South America ,Asia,Australia and the Middle East as there is lack of basic health guidelines and good personal hygiene practices and poor living conditions.
- Blindness from Trachoma a public health irreversible.It problem in 44 countries and is responsible for the blindness or visual impairment of about 1.9 million people. Based on March 2020 data, 137 million people live in Trachoma endemic areas and are at risk of Trachoma blindness.

An acute infection that cause of blindness worldwide by

an obligate intracellular bacterium called **Chlamydia**

trachomatis. It is usually beginning in childhood.

What is Trachoma?



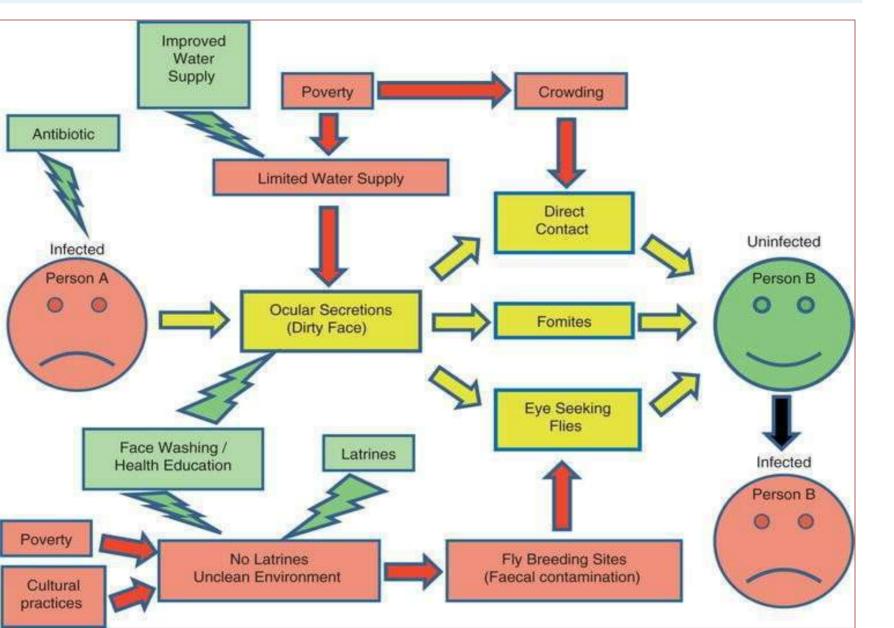
Distribution of trachoma worldwide 2019 Countries or areas endemic for blinding trachoma Distribution of Buruli ulcer worldwide 2018 Countries with overlap of trachoma and Buruli ulcer

Transmission of Trachoma:

- 1. Infection spreads through personal contact via hands, clothes or
- 2. It is also spread by flies that have been in contact with discharge

Risk Factors of Getting Trachoma Flies increase the

- bedding.
- from the eyes or nose of an infected person.



worldwide by the year 2020. To recommend some future ideas to support

like poverty and gender.

improved trachoma control.

Aims:

Methodology: A qualitative primary and secondary origin research review that synchronizes visual and written journal

•To examine trachoma and identify the roots of

its transmission and how it links with social life

• To discuss the proof-based "SAFE" strategy and

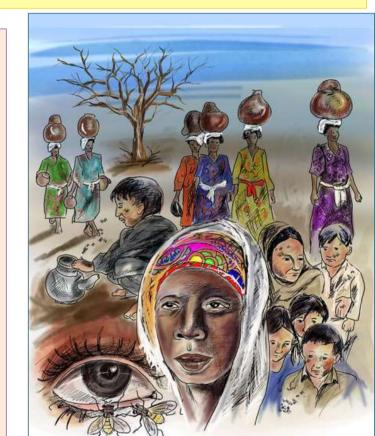
the WORLD HEALTH ORGANIZATION (WHO)

Global Alliance to Eliminate Trachoma(GET)

evidence availlable on the trachoma and the WHO.

Poverty and Trachoma:

Trachoma is closely linked to poverty as it is endemic communities with poor social and living conditions, such as inadequate water sanitation, and few educational opportunities.



Gender and Trachoma:

•Trachoma is primarily a mother and child disease.

•Trachoma is most common in adult women and frequently causes blindness to women over the age of 40 rate of trachoma and risk of blindness is 3-4 times higher in women than in men.

WHO Global Alliance for the Elimination of Trachoma by the year 2020 (GET 2020)

One strategy to eliminate trachoma as a blinding disease worldwide was the creation of the Global Alliance for the Elimination of Trachoma by the year 2020 (GET 2020).

This initiative was launched in 1996/97 by the WHO and falls under the umbrella of the Vision 2020 Global Initiative. It is an alliance that supports and collaborates with the WHO in carrying out essential activities such as;

- •epidemiological assessment, including rapid assessment and mapping,
- project implementation, coordination, and monitoring,
- disease surveillance, project evaluation

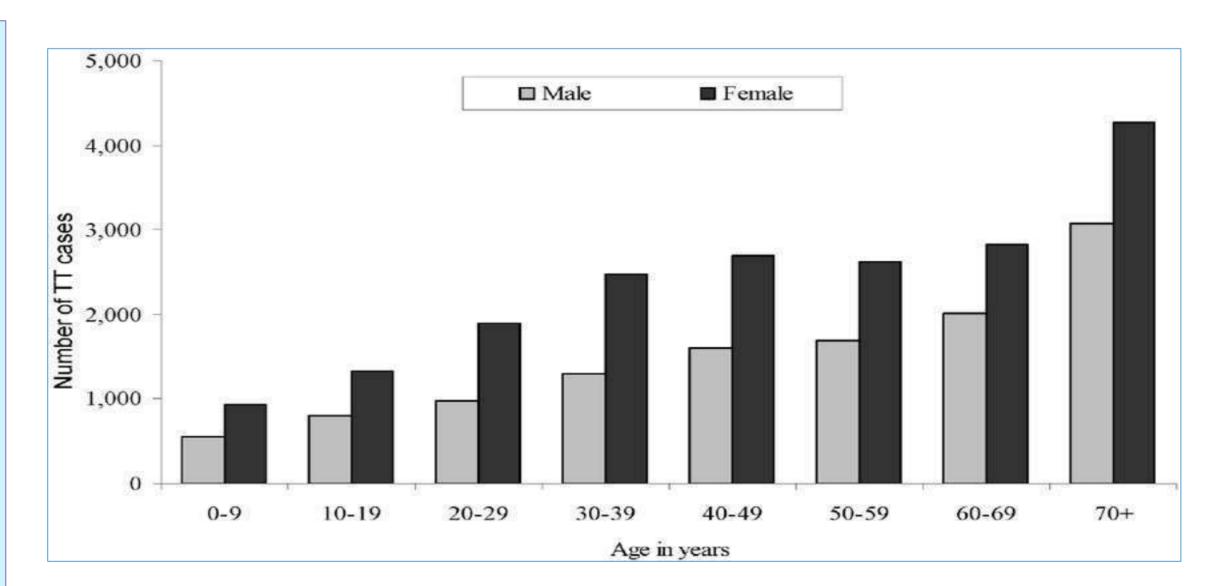
TRACHOMA

The slope leading gradually to blindness

•and resource mobilization

GET 2020 control activities are based on primary health care approaches that follow the evidence-based "SAFE" strategy.

THE RIGHT TO SIGHT



SAFE strategy for the control of trachoma

- "The SAFE strategy emphasises to the health worker key points in the control of trachoma and the prevention of blindness. It emphasizes to the health worker key points in the control of trachoma and the prevention of blindness.
- S: surgical correction of trichiasis.
- A: antibiotic treatment of trachoma.
- F: Faces which are clean prevent the spread of diseases from child to child.
- E: Environmental changes (water and sanitation) to improve personal and community hygiene.

Water and sanitation for women = Reduction in & environments

8 SURGERY ANTIBIOTICS ENVIRONMENTAL CLEANLINESS IMPROVEMENT to correct Trichiasis (in-turned lashes) safe bathrooms transmission

THE SAPE STRATEGY
TO ELIMINATE TRACHOMA

trachoma live in Ethiopia

How to Wash Out Trachoma:

"Eliminating trachoma contributes to the ocular health and quality of life of the poorest, most disadvantaged people worldwide and thereby moves us a step closer to achieving universal health coverage," said Dr Mwelecele Ntuli Malecela, Director, WHO Department of Control of Neglected Tropical Diseases.

- 1. Develop a national public health framework based on the 'SAFE' strategy.
- 2. Support research in blindness prevention technologies and train health workers on **SAFE to identify** to control trachoma.
- 3. Strengthen the capacities of health authorities to promote simple, affordable water supply and sanitation technologies at the community level.
- 4. Improve the quality and availability of the water supply to reduce the incidence and severity of trachoma.
- 5. Increase financial resources for antibiotic and surgical treatment to prevent permanent blindness arising from trachoma infection.

6. Conduct rapid assessment to monitor trachoma prevalence by age, income and gender.

7. Increase public awareness, community involvement and eye health hygiene promotion and health education.



India And Trachoma:

Trachoma prevalence was found to be only 0.7% in India, much below the elimination criteria infective trachoma defined by WHO. So, according to National Trachoma Survey Report (2014-2017), India has made the goal of trachoma as specified by the WHO under its GET2020 programme.

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THE MECHANOBIOLOGY OF AGRIN MY CANCER & TISSUE HEALING



Priyadarshini Chakrabarti Basu, Ph.D.
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Department of Biochemistry, Molecular Biology, Entomology & Plant
Pathology, Mississippi State University, USA
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TRANSDISCIPLINARY APPROACHES FOR IMPROVING POLLINATOR HEALTH

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Departmental Poster cum Slogan Competition 2022 organised by P.G. Dept of Zoology

for celebrating the following days

"World Bee Day 2022"- 20th May
"World Biodiversity Day" 2022- 22nd May
"World Environment Day" 2022- 5th June

All the UG (Hons and General) and PG students of department of Zoology, BGC are hereby encouraged to participate at departmental offline poster cum slogan competition to celebrate above mentioned days. Undergraduate students are requested to submit on topics World Biodiversity or World Environment Day while Post graduate students need to submit posters on World Bee Day.

Posters with slogan (Only A4 Size; Word-art; mandala Paintings, Photograph Collage, & Digital Artworks) on these particular themes mentioned are to be submitted within 27/05/2022. The best/ selected posters will be displayed on departmental wall magazine. Students may contact Dr Srikanta Guria and Dr Ivy Kundu in this regard.

HOD Zoology





Kolkata, West Bengal, India

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