

WORLD NEGLECTED TROPICAL DISEASES DAY



ONLINE STUDENTS' ORAL & POSTER PRESENTATIONS

Beat NTDs. For Good. For All. Together, We Can Combat NTDs. Something for everyone. Something for you.

MINI ORAL PRESENTATIONS

GROUP DISCUSSION

E-POSTER PRESENTATIONS

29 JANUARY 2022 7 PM (IST)



ORGANIZED BY: PG DEPARTMENT OF ZOOLOGY BARASAT GOVERNMENT COLLEGE

SUPPORTED BY: IQAC, BGC

CONTACT:

8013247086

www.bgc.ac.in

ORGANIZING COMMITTEE

CHIEF PATRON DR. SAMAR CHATTOPADHYAY, WBSES, PRINCIPAL, BARASAT GOVERNMENT COLLEGE

CONVENOR

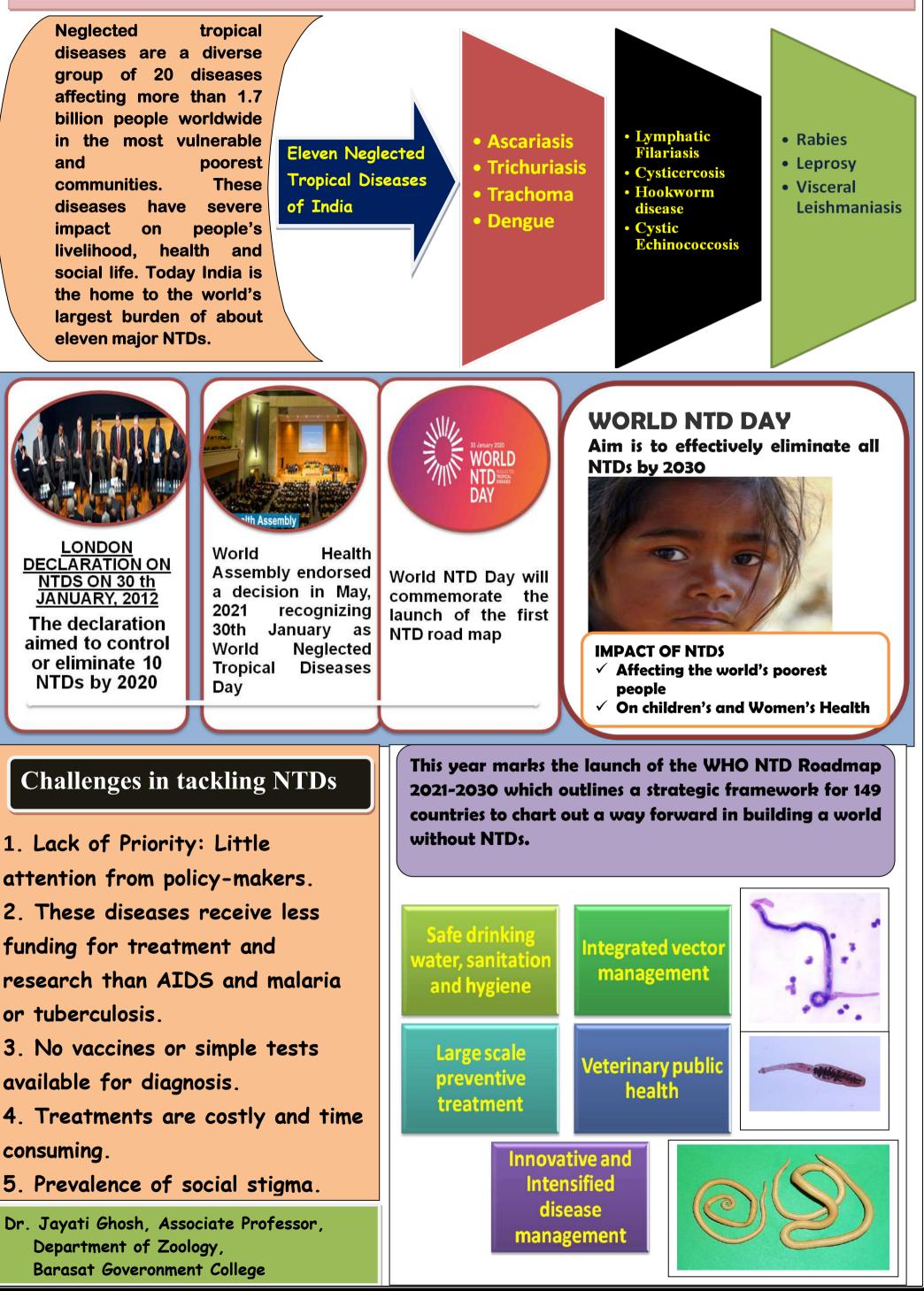
DR. SUMANA SAHA, WBES HEAD OF THE DEPARTMENT & ASSOCIATE PROFESSOR, DEPT. OF ZOOLOGY, BGC

JOINT ORGANISING SECRETARY

DR. SOMADITYA DEY, WBES ASSISTANT PROFESSOR, DEPT. OF ZOOLOGY, BGC DR. JAYATI GHOSH, WBES ASSOCIATE PROFESSOR, DEPT. OF ZOOLOGY, BGC

MEMBER

DR. IVY KUNDU, WBES ASSISTANT PROFESSOR, DEPT. OF ZOOLOGY, BGC DR. ENAMUL HAQUE, WBES ASSISTANT PROFESSOR, DEPT. OF ZOOLOGY, BGC DR. SRIKANTA GURIA, WBES ASSISTANT PROFESSOR, DEPT. OF ZOOLOGY, BGC SMT. INDRANI BANERJEE SACT II, DEPT. OF ZOOLOGY, BGC **IMAGING OUR FUTURE WITHOUT NEGLECTED TROPICAL DISEASES**

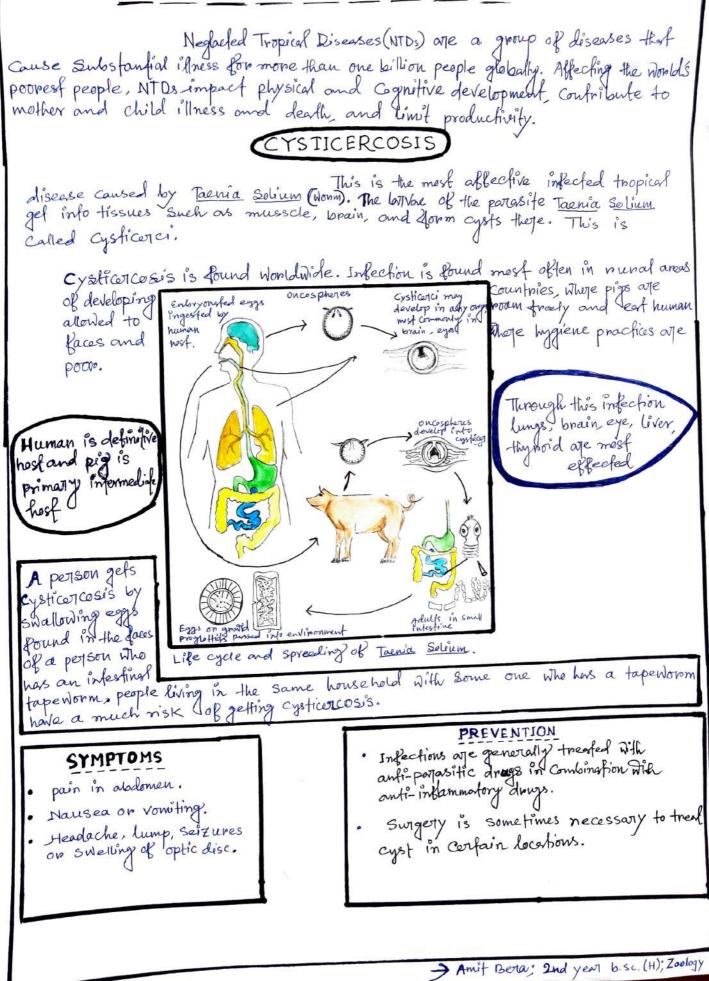


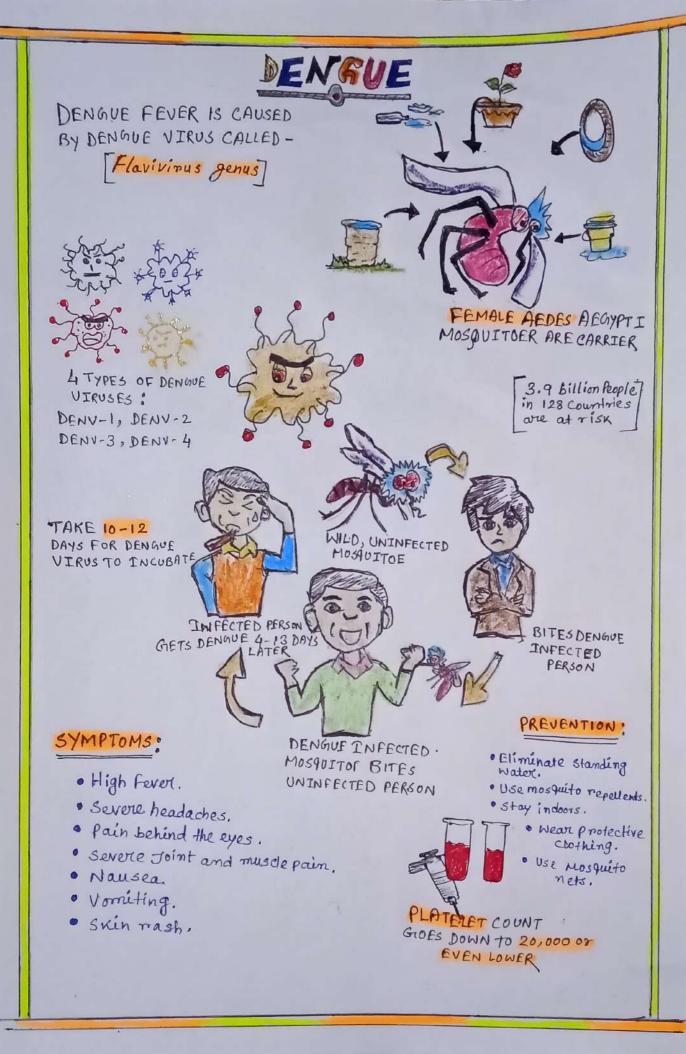
or tuberculosis

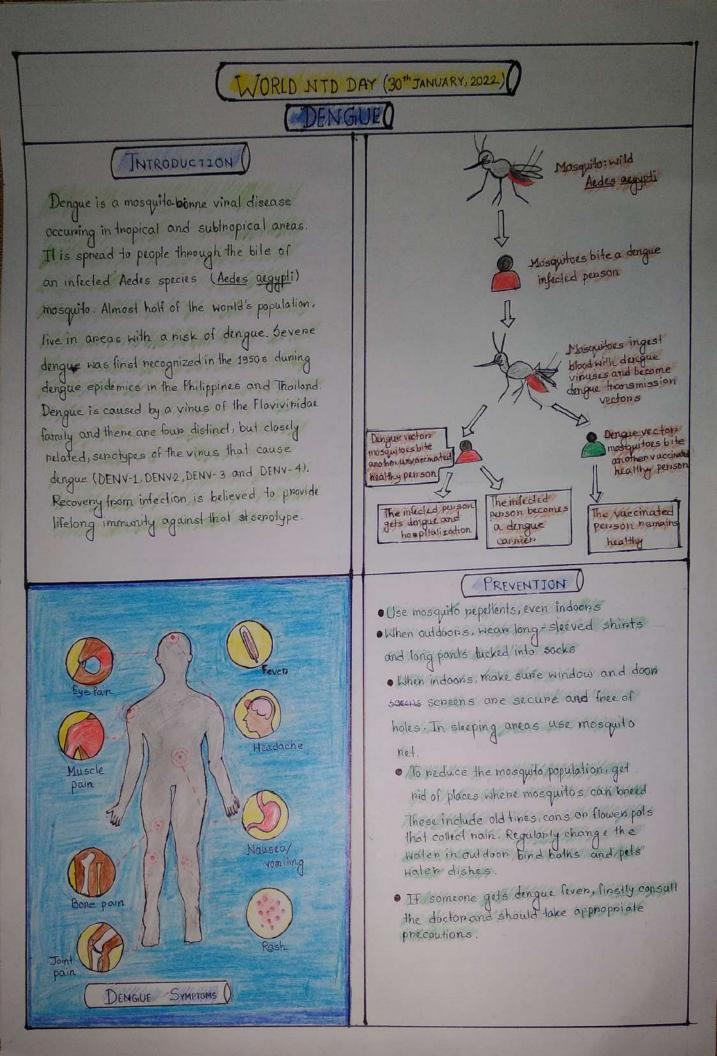
- 4. Treatments are costly and time consuming.



THE NEGLECTED TROPICAL DISEASE (NTD)

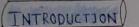




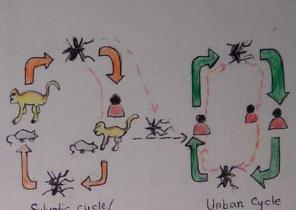


WORLD N'TD DAY (30" JANUARY, 202

CHIKUNGUNYA



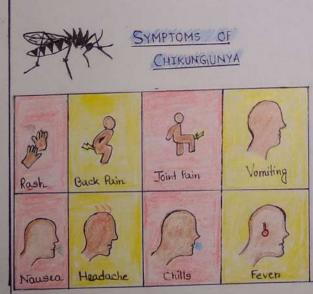
Chikungunya is an infectious disease caused by the Chikungunya vinus (CHIKV) Occuping in Alinica and Asia, outbreaks have been reported in Europe and the Americas since the 2000s. The vinus is spread between people by two types of mosquitoes: Addes albopictus and Addes acgyptic They mainly bite during the day. The disease was first identified in 1952 in Tanzonia. The vipus may be cinculate within a number of animals including binds and podents.



Sylvatic cycle/ Rupal cycle

Unban Cycle

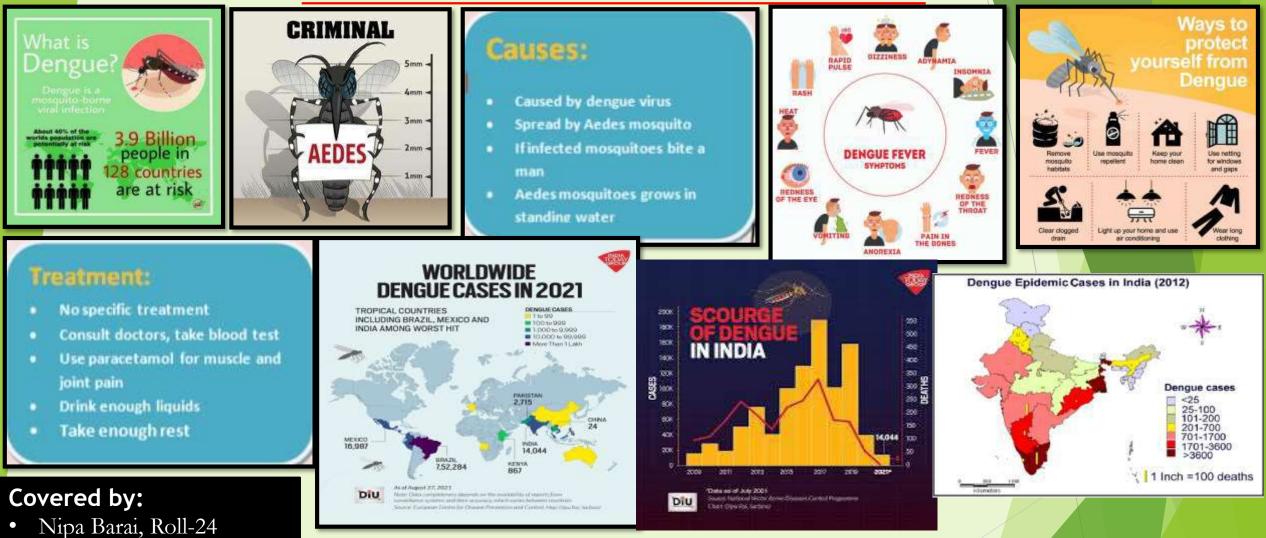
TRANSMISSION CYCLES OF CHIKUNGUNYA VIRUS



PREVENTION

- Obe mosquito replicants
- When outdoons, wear long sleeved shint and lock pants tucked into socks
- Il someone has chikungunya, prevent mosquito biles for the first week of your his illness. Use the mosquito net to prevent the infection of vinus from the infected penson. Take proper nest. Dnink fluids to prevent dehydration. • Take medicine such as acetaminophen op papacetamol to reduce fever and pain. If you observe symptoms of
 - chikungunya. finstly consult your physician Then take the proper action .

"FIGHT FOR BITE-DENGUE"



Soumodip Das, Roll-27

Pratik Halder, Roll-29

Sahin Ali, Roll-06

•

 \bullet

 \bullet

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.

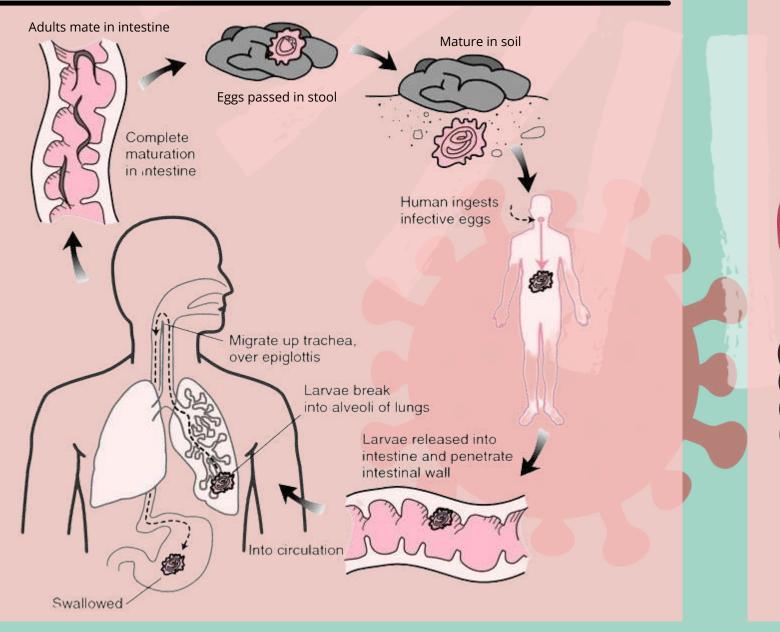
According to Global Burden of Disease Study, Ascariasis has 222.2 million cases in India & 799.7 million cases worldwide in 2016

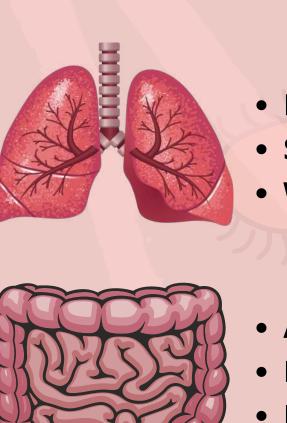
Ascaris is an intestinal parasite of humans. The larvae and adult worms live in the small intestine and can cause intestinal disease.

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?





- Persistent cough
- Shortness of breath
- Wheezing

SYMPTOMS

- 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

END THE NEGLECT

WORLD NTD DAY

Symptoms S

12.2

I.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



Guinea-worm

Chagas disease Symptoms

Chagas Disease

–Rajat Paul Bsc 3rd sem

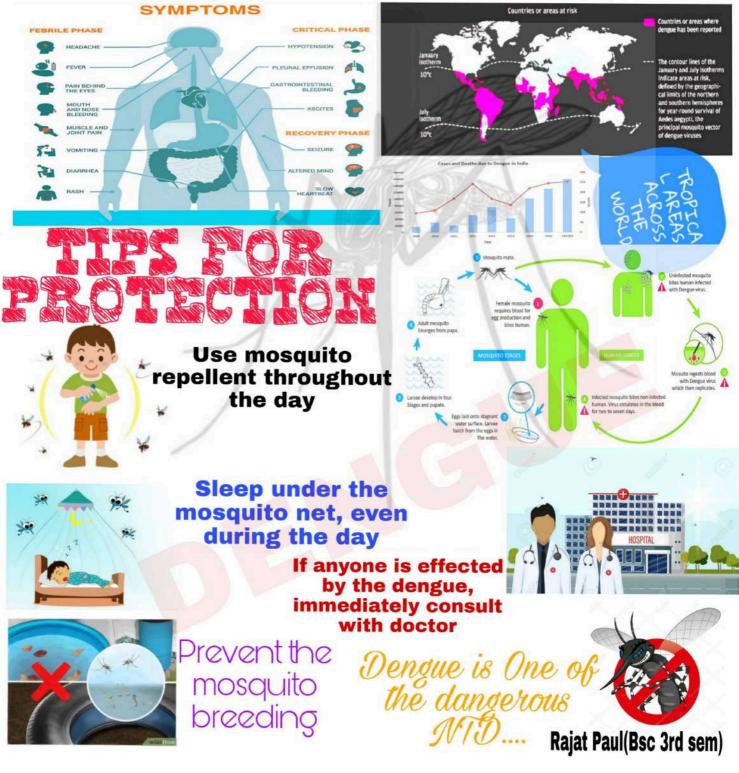
A vector-borne parasitic disease caused by the bite of the triatomine bug

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

disedo

0000

WORLD NTD DAY



"TO CLOSE THE GAP FOR VISION – ABOLISH TRACHOMA." Rimi Mondal^{*} and Bapi Ghosh[#]

Affiliation: * = <u>PG student</u>, 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 is 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



Aims:

•To examine trachoma and identify the roots of its transmission and how it links with social life like poverty and gender.

• To discuss the proof-based "SAFE" strategy and the WORLD HEALTH ORGANIZATION (WHO) **Global Alliance to Eliminate Trachoma(GET)** worldwide by the year 2020.

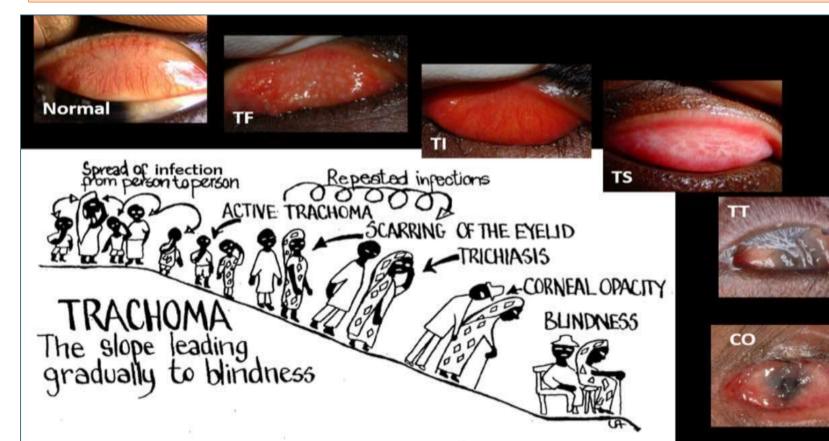
 To recommend some future ideas to support improved trachoma control.

living conditions.

• Blindness from Trachoma is a public health irreversible.It is 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.

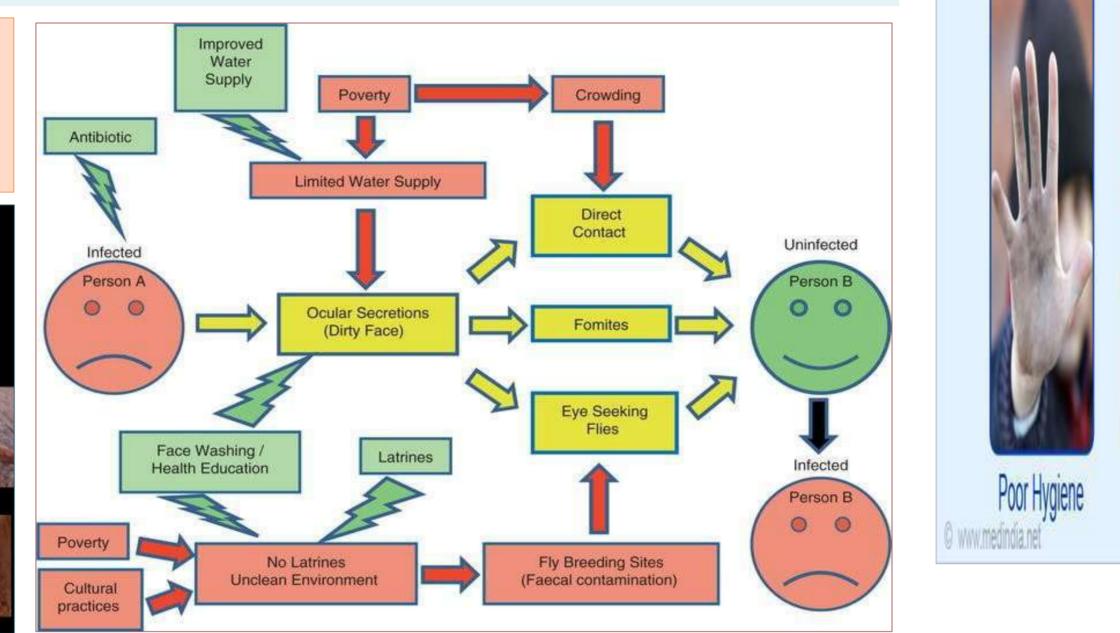
What is Trachoma?

An acute infection that cause of blindness worldwide by an obligate intracellular bacterium called **Chlamydia** trachomatis. It is usually beginning in childhood.



Transmission of Trachoma:

- 1. Infection spreads through personal contact via hands ,clothes or bedding.
- 2. It is also spread by flies that have been in contact with discharge from the eyes or nose of an infected person.



Risk Factors of Getting Trachoma

Flies increase the

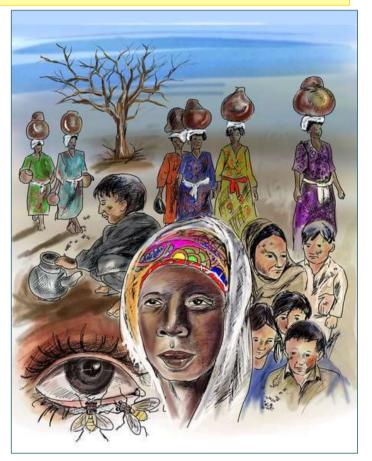
risk of transmission

Methodology:

A qualitative primary and secondary origin research review that synchronizes visual and written journal evidence availlable on the trachoma and the WHO.

Poverty and Trachoma:

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

5,000		
4,000 -		

Male Female



Poverty



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,

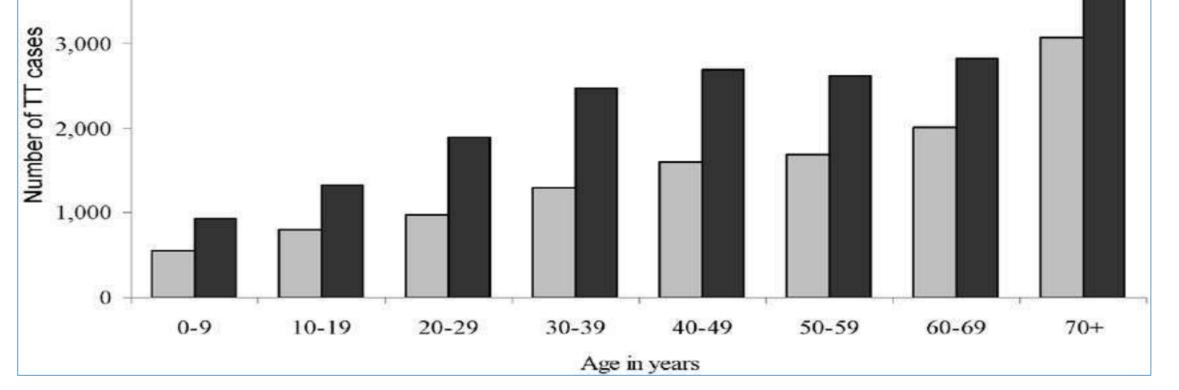
disease surveillance,

project evaluation

and resource mobilization

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



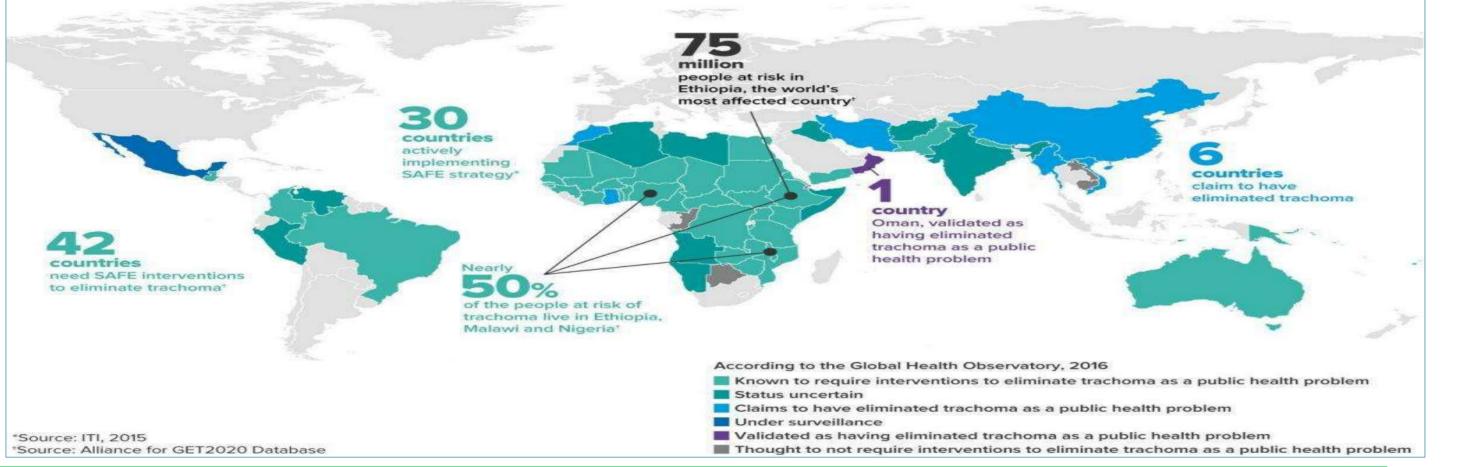


SAFE strategy for the control of trachoma

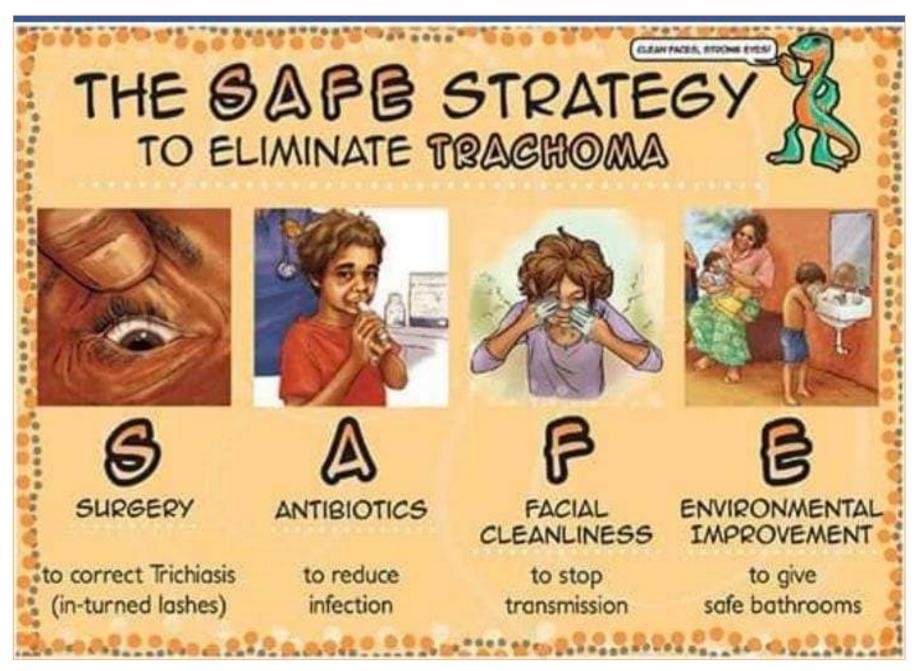
"The SAFE strategy emphasises to the health worker key points in the control of trachoma and the prevention of blindness. It emphasizes to the health worker key points in the control of trachoma and the prevention of blindness. S: surgical correction of trichiasis.

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.







India And Trachoma:

Trachoma prevalence was found to be only 0.7% in

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, 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.

References

1. [Anonymous]. Trachoma: A Women's Health Issue. Global Alliance for Women's Health. World Health Organization: 1-27. Available http://www.who.int/ncd/vision2020_actionplan/documents/trach-e.pdf 2. World Health Organization, 2004 November. Water, Sanitation and Hygiene Links to Health: Facts and Figures. Available http://www.who.int/water_sanitation_health/publications/facts2004/en/.Water, Sanitation, and Health.

3. Cairncross, S. Review article: Trachoma and Water. Journal of Community Eye Health 1999; 12 (32): 58-59.

4. Alberti, A. et al. Teaching Set No. 7: Trachoma – Presentation Text. International Centre for Eye Health 1999; 1-32. Institute of Ophthalmology, London School of Hygiene & Tropical Medicine, London. 5. World Health Organization, 1999a. Report on International Training Workshop on the Assessment and Management of Trachoma for English-Speaking National Coordinators, 14-18 December 1998. Programme for the Prevention of Blindness and Deafness, Geneva.