

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



Pakistan School  
Kingdom of Bahrain

# Microorganisms & Diseases

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Grade: 9th

# RULES OF THE CLASS

- ❖ Be on **time**
- ❖ Enter the class with your **name** and **CPR number**
- ❖ **Respect** all participants
- ❖ Do **not** create any disturbance
- ❖ **Raise your hands** for questions (the teacher will respond when the time is suitable)
- ❖ Pay **attention** to the teacher
- ❖ Follow the **time table**

**Causes malaria**



**Ringworm mark**

**Types of skin cancer**

# Objectives:



By the end of the lesson, the students will be able to describe:

1. Description of **cancer**
2. Introduction to cause and treatment of **malaria**
3. Brief description of **ringworm**



# Cancer

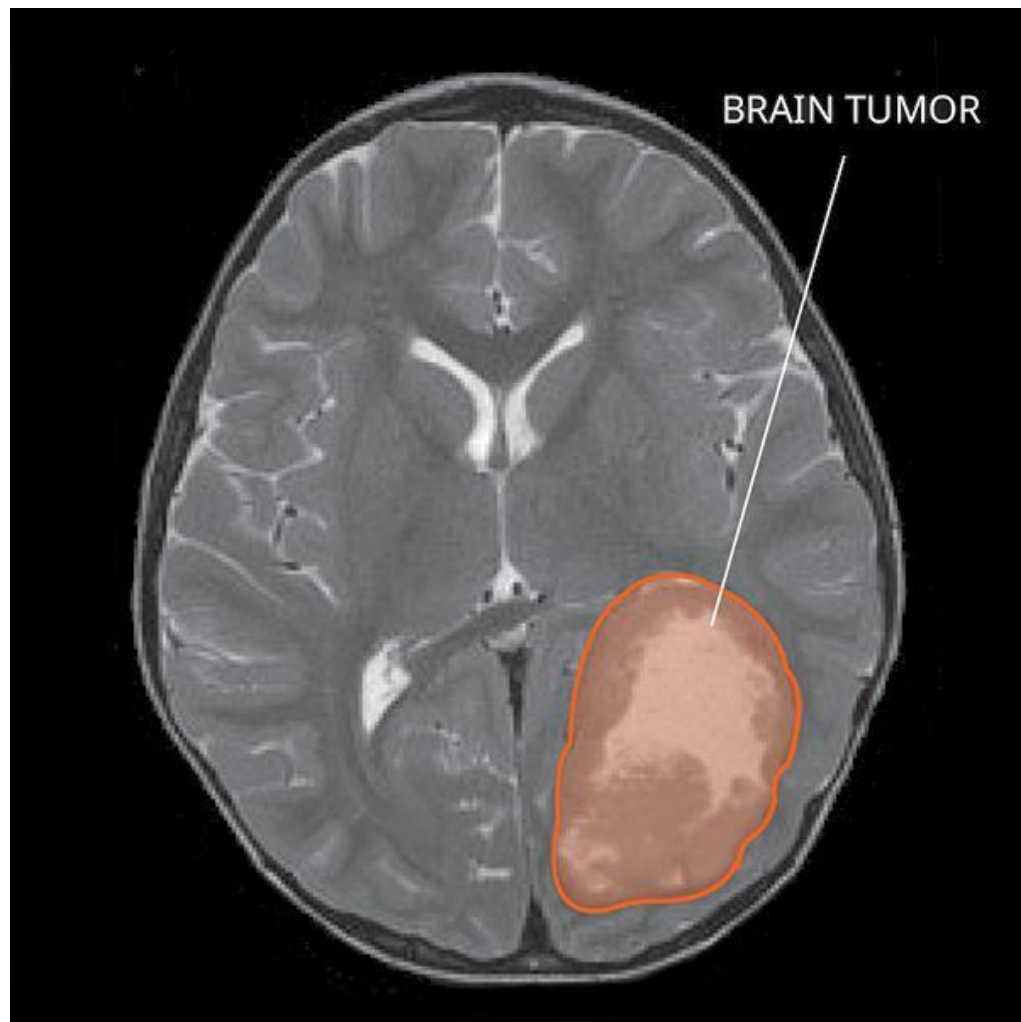
It is the **uncontrolled growth of cells** which form a cyst or a **tumor**, which may spread in the body, causing tumors in other body parts. It occurs in *any* body part. The most common types are lungs, mouth, skin, intestine and breasts.

**Cause:** By any **physical**, **chemical** or **biological** thing that causes unwanted growth in cells, like sunrays, drugs, viruses, smoking, tin, etc.

**Symptoms:** **a)** persistent open wound **b)** cyst/tumor under skin **c)** headache & vomiting **d)** indigestion **e)** cough & swelling of throat

**Treatment:** **a)** **chemotherapy** **b)** **surgery** **c)** **radio therapy** (special radiations)

If tumor is found early through tests like **sonography**, it is easily treatable, but treatment becomes impossible if detected in later stages.



# Malaria

The germs enters into the human body when the mosquito bites and leaves its **infected saliva on the wound**. The germ destroys the **red blood cells** very fast. This disease is commonly found in Asia and Africa.

**Cause:** **Plasmodium** (pl. plasmodia) of **animal** kingdom, phylum **protozoa**

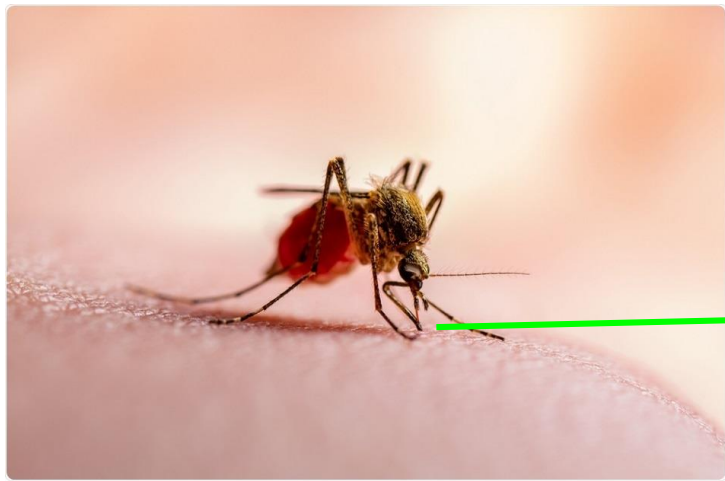
**Transmission:** saliva of (female) **Anopheles** Mosquito

**Symptoms:** a) weak and b) pale very quickly

**Treatment:** **Quinine**

**Precautions:** a) no standing water to destroy mosquitoes' houses b) DDT sprays c) Anti-malarial drugs d) screening houses





**The mosquito's saliva  
contains the parasite**



# Ringworm

It is a fungal infection of the skin. The fungal hyphae penetrates the skin (usually in skin of legs) and forms rings on the skin, which are itchy and uncomfortable.

Cause: Fungus (NOT a worm).

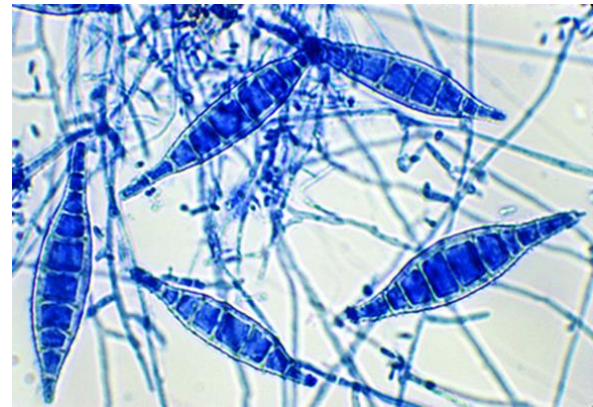
Treatment: Antifungal skin creams and ointments

Precautions: a) keep environment clean b) Don't walk barefoot in fields c) regular baths

*Remember!*

Prophet ﷺ said:

*“Cleanliness is half the Emaan” (Sahih Muslim).*



# ACTIVITY 1:

## MCQS

1) Malaria is a disease caused by:

- a) virus
- b) fungus
- c) bacteria
- d) parasite

2) Plasmodium belongs to the phylum protozoa of:

- a) animal kingdom
- b) plant kingdom
- c) none of the above

3) Uncontrolled growth of cells which forms a tumor is called:

- a) malaria
- b) cancer
- c) ringworm
- d) hepatitis

4) Ringworm is caused by:

- a) bacteria
- b) virus
- c) fungus
- d) parasite

## **ACTIVITY 2:**

### **FIBS**

- 1) Chemicals in tin packed food materials cause \_\_\_\_\_.
- 2) A painful cyst or tumor under the skin is a \_\_\_\_\_ of cancer.
- 3) Cancer can be confirmed by blood test and \_\_\_\_\_.
- 4) Special \_\_\_\_\_ are used to treat cancer.
- 5) Malaria is spread by \_\_\_\_\_ \_\_\_\_\_.

# PLENARY

**Q1)** Describe the symptoms of cancer.

**Q2)** How is malaria transmitted by a female mosquito?

# HOMEWORK

**Q1)** Write down a comprehensive note on cancer.

**Q2)** Briefly describe the diseases (i.e. malaria, ringworm)

السَّلَامُ عَلَيْكُمْ وَرَحْمَةُ اللَّهِ وَبَرَكَاتُهُ



CLASS IS OVER!

KEEP ON STUDYING HARD!

SEE YOU NEXT CLASS INSHA'ALLAH!