

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



Pakistan School  
Kingdom of Bahrain

# Microorganisms & Diseases 5

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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**



# Objectives:



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

1. **Drugs and Drug Abuse**
2. **Heroin**
3. **Charas/Cannabis/Hashish**
4. **Alcohol**
5. **Narcotics**



# Drug and Drug Abuse

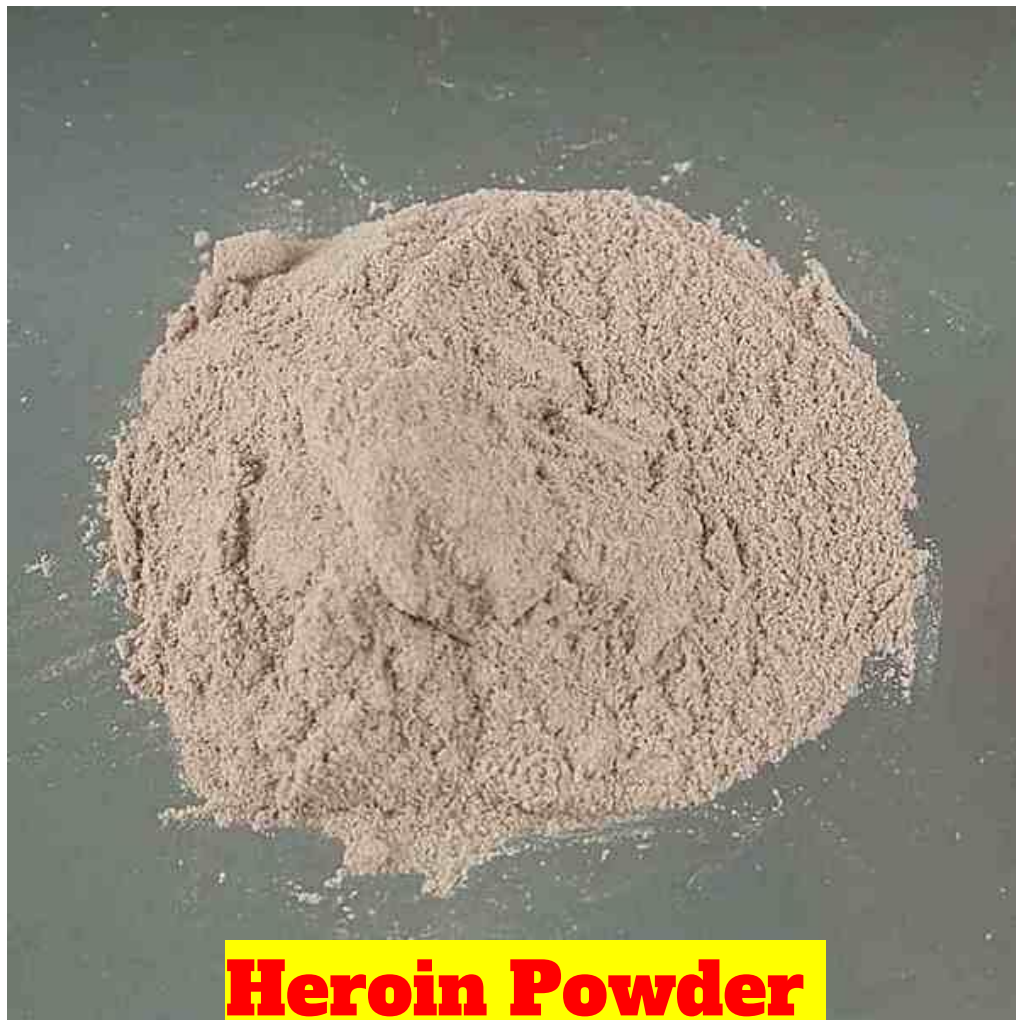


# Drug and Drug Abuse

- Every drug has its **effect** on the **mind**, **body**, **life** and those around him.
- It is important for us to know what a drug is, what are its uses, how are they used and when it becomes harmful to the user.
- A drug is defined as “**any substance which, when taken in the body, changes the functioning of the body**”.
- If it is used unnecessarily, many drugs might lead to **addiction**.
- Addiction is defined as **a state in which a person feels like they cannot live properly without taking the drug**. Their lives become **dependent** on the drug.
- This condition is dangerous for the person, his family and society.
- The common drugs are **Heroin**, **Bhang**, **Hashish**, **Morphine** (comes from Opium), **Pethidine** and **alcohol**.

# Heroin

- It is a **white** or **brown** powder with a **bitter taste**.
- It is **diluted** by adding powder, milk, sugar, sleeping pills and other substances.
- It can be **smoked** or **injected**.
- The **main effects** on the body are:
  1. **Breathing** and **heart rate slows** down
  2. **Blood pressure** becomes **low**
  3. Eye **pupils** become **small**
  4. Person becomes **sleepy**
  5. **Health** gradually declines
  6. **Overdose** results in death



**Heroin Powder**





**A woman's son before and after on heroin and other drugs**

# A young woman before and after on heroin and other drugs



1 AGE: 29



2 AGE: 31

-2018

# Charas/Cannabis/Hashish

- These are forms of **hemp** or **Bhang plant** (*Cannabis sativa*, wild plant in wastelands).
- **Charas** includes the **green leaves** of the plant and **Hashish** (weed) includes **flower tops** of plants. It also comes from **plant juice**.
- It can be **smoked** or **drunk**.
- The **main effects** on the body are:
  1. Reduces **body coordination**
  2. Reduces **ability to make decisions**
  3. Person becomes **dizzy**, **scary** and **hungry**
  4. **Red eyes** and **dry nose**
  5. Risk of damage to **mouth, throat and lungs**
  6. Maybe cause damage to **fertility**

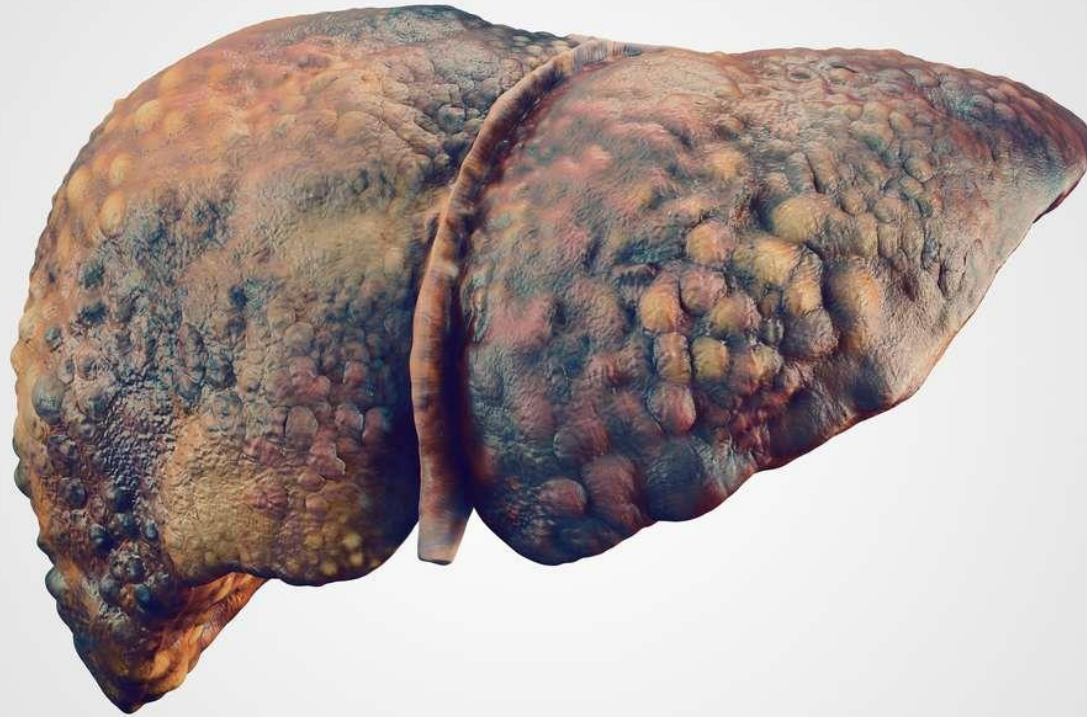


**Cannabis leaves**

# Alcohol

- Produced by fermentation of fruits, vegetables or grains.
- It is present in some tonics and cough syrups.
- The common effects on the body are:
  1. Drowsiness and dizziness
  2. Staggering and loss of balanced movements and concentrations
  3. Continuous consumption leads to headache, nausea or vomiting
  4. Damages liver or brain
  5. Leads to heart diseases and cancer





**Alcoholic liver disease: cirrhosis**

# Narcotics

- This term is applied to all such **compounds** that produce **insensibility** to **external stimuli** as well as **internal pain** and **unrests**.
- They may be obtained from **Opium**, **Charas** or **Bhang**.
- **Moral duty** of the state and society to keep the spread of this drug in check.
- Government of Pakistan established **Anti Narcotics Force** (ANF) which has offices all over the country.

NDC 10019-176-39

**Morphine**  
**Sulfate Inj., USP**

**5 mg/mL**

FOR SC, IM OR  
SLOW IV USE







**Opium flower**

# ACTIVITY 1:

## FIBs

- 1) Alcohol is produced by \_\_\_\_\_ of fruits, vegetables or grains.
- 2) Alcohol may damage the \_\_\_\_\_ or \_\_\_\_\_.
- 3) Heart diseases and cancer are produced by continuous use of \_\_\_\_\_.
- 4) \_\_\_\_\_ causes slowing down of heart rate and breathing rate.
- 5) \_\_\_\_\_ includes the flower tops of the plant.
- 6) Marijuana also comes from the plant \_\_\_\_\_.

# ACTIVITY 1:

## T/F

- 1) Morphine is manufactured from opium. \_\_\_\_
- 2) Drug addiction is not actually a dependence on the drug. \_\_\_\_
- 3) The injections of Morphine and Pethidine do not cause addiction. \_\_\_\_
- 4) Heroin is a white or light brown powder with a bitter taste. \_\_\_\_
- 5) Narcotics are compounds which produce pain and unrest in the body. \_\_\_\_

# PLENARY

**Q1)** What is drug addiction?

**Q2)** Is morphine made from opium?

**Q3)** What are side effects of heroin?

# HOMEWORK

**Q1)** Describe in brief the following:

1) Heroin

2) Cannabis

**Q2)** Write down a short note on 1) alcohol 2) Narcotics 3) Drug abuse

السَّلَامُ عَلَيْكُمْ وَرَحْمَةُ اللَّهِ وَبَرَكَاتُهُ

CLASS IS OVER!



**YOU ARE DOING GREAT, MASHA'ALLAH!**

SEE YOU NEXT CLASS INSHA'ALLAH!