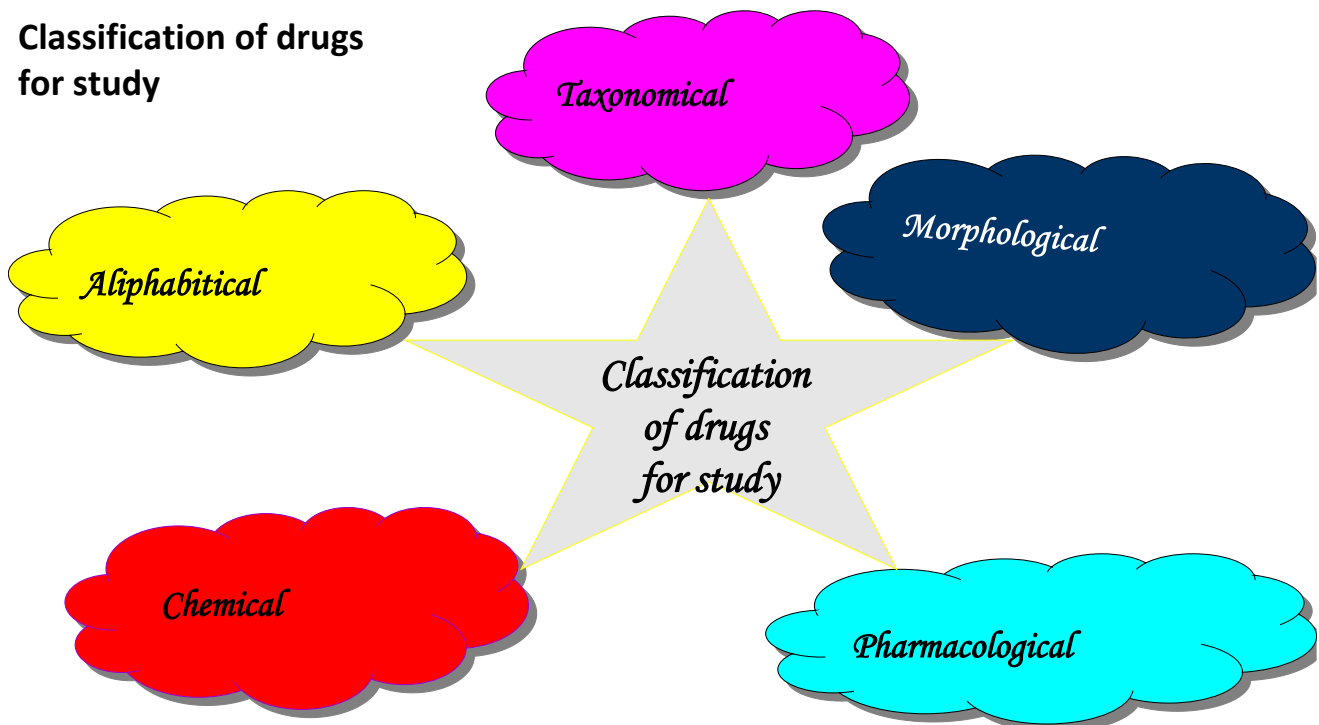


## Classification of drugs for study



### Classification of drugs for study:

- Vegetable drugs can be arranged for **study** under the following headings:

#### 1- Alphabetical Classification :

- Arrange **alphabetically** by using either **Latin name** or **English name**

e.g.: Pharmacopoeias

#### 2- Taxonomical Classification :

- The drugs are **divided** into **groups** **taxonomically** based on ;

**family, genus, species**

#### 3- Morphological Classification;

- The drugs are **divided** into **groups**, based on **plant part used** medicinally such as **leaves** , **flowers, fruits ,seeds ,barks, roots, rhizomes ,woods** and those are known as **organized** drugs and as **gums, resins, oils** ,dried **extracts** ,which known as **unorganized** drugs.

#### 4- Chemical Classification:

- The drugs are classified into groups according to **the chemical nature** of the **active constituents**,

e.g. drugs containing **alkaloids** , **glycosides** , **tannins**, **bitter principles**, **volatile oils**.

#### 5- Pharmacological Classification:

- The drugs are classified into groups accord. to their **pharmacological action** or **therapeutic uses**

e.g. **antihypertensive** drugs, **cardio tonic** drugs,  
**anticancer** drugs , **antispasmodic**, ..etc

#### **Adulteration of natural products**

- Generally occurs when a drug has **high price**
- Adulterant must be **cheap** and **available** in **large amount**
- Adulterated drug is that which **does not comply** with the **official requirements**

#### Types of Adulteration;

##### 1- Sophistication or True adulteration

The **addition** of an **inferior material** to any article with **intends** to **defraud**.

e.g. addition of **wheat flour** to powdered **ginger**, with enough **capsicum** → to **enhance** the **pungency** and enough **curcuma** → to maintain **color**.

##### 2- Substitution

**Replacement** of the **original** drug **by** the **adulterant** (An **entirely different article** used).

##### Different ways of substitution:

- Substitution of **exhausted drugs**:  
e. g.: As in the **preparation** of volatile **oils** from **clove**.

### 3- Admixture

The **addition** of **one** article **to** **another** through **accident**, **ignorance** or **carelessness**  
i.e. **Argel** **instead** of **Senna**.

### 4- Deterioration

Can be defined as: An **impairment** of **drug quality** by →→ the **abstraction** or **destruction** of valuable **constituents** by →→ **distillation**, **extraction**, **aging**, **moisture**, **heat**, **fungi**, **insects**  
e.g. **coffee** which **lost** its **caffeine** through over **roasting**.

### 5- Spoilage

A form of deterioration in which: the **quality** or **value** or **usefulness** of an article is **impaired** or **destroyed** by **fungal action** →→  
as to **render** the drug **unfit** for human **consumption**.

### 6- Inferiority

- Is **any substandard condition** for **any cause**.  
i.e. addition of **synthetic** material to **fortify** inferior products  
such as, adding **citral** to **lemon oil**.