# **BARCODE**

**Barcode Medicine Identification** 



#### Barcode

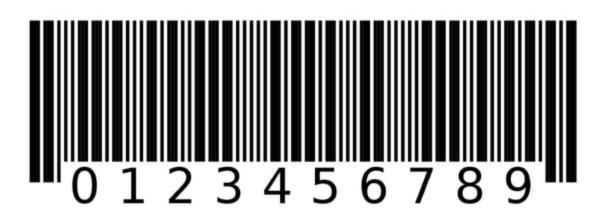
- A barcode or bar code is a method of representing data in a visual, machine-readable form.
- Initially, barcodes represented data by varying the widths and spacings of parallel lines.
- These barcodes, now commonly referred to as linear or one-dimensional (1D), can be scanned by special optical scanners, called barcode readers.
- Later, two-dimensional (2D) variants were developed, using rectangles, dots, hexagons and other geometric patterns, called matrix codes or 2D barcodes, although they do not use bars as such.
- 2D barcodes can be read or deconstructed using application software on mobile devices with inbuilt cameras, such as smartphones.

#### TYPES OF BARCODES

- 1D Linear Barcode
- 2D Matrix Barcode

#### LINEAR BARCODE

One dimensional barcode that is made up of lines and spaces of various widths that create specific patterns.



#### MATRIX BARCODE

A matrix code, also termed a 2D barcode or simply a 2D code, is a twodimensional way to represent information. It is similar to a linear (1dimensional) barcode, but can represent more data per unit area.



### **Barcode Medicine Identification**



## APPLICATION OF BARCODES IN MEDICINE IDENTIFICATION

- Use of Barcodes in medicines prevents human errors in the distribution of prescription medications at hospitals.
- The Barcodes on medicines makes sure that patients are receiving the correct medications at the correct time by electronically validating and documenting medications.
- The information encoded in barcodes allows for the comparison of the medication being administered with what was ordered for the patient.

#### Effective Treatment Criteria

- a. The right patient
- b. The right medication
- c. At the right time
- d. At the right dose
- e. By the right route

#### Conclusion

- Barcodes on medicines minimizes the human errors of dispensing and distribution.
- Barcodes helps in dispensing right medicine to right patient.
- Barcodes are encoded by using Barcode reader.
- Barcodes provides each and every information about the medicine electronically like name of medicine, its composition, Manufacturing date, expiry date, price etc.