

Al Mustaqbal University

College of Health and Medical Techniques

Department of Anesthesia

Practical Anesthesia

Stage Two

Lecture 6

Giving Sets

By Lectures

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Giving Sets

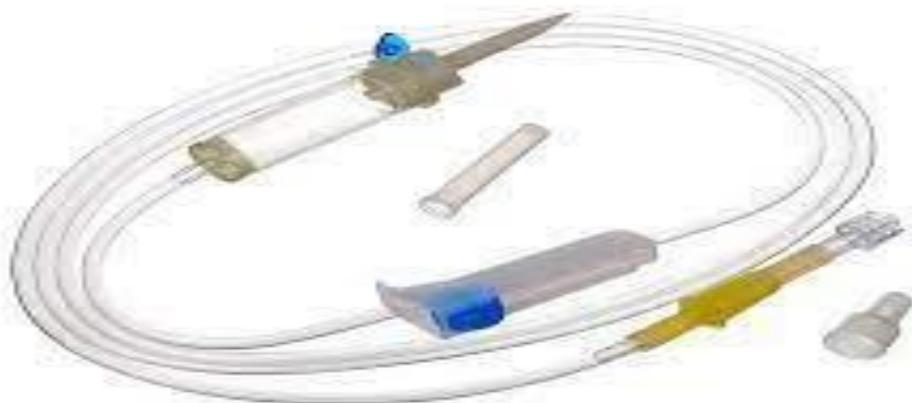
Intravenous giving sets

These are designed to administer intravenous fluids, blood, and blood products.

Components

→ **Adult giving set includes the following:**

- **A clear plastic tube.** One end is designed for insertion into the fluid bag, whereas the other end is attached to an intravascular cannula with a Luerlock connection.
- **Blood giving sets have a filter with a mesh**
- Some designs have a one-way valve and a threeway tap attachment or a rubber injection site at the patient's end.
- **A flow controller** determines the drip rate (20 drops of clear fluid is 1mL and 15 drops of blood is 1mL)



→ Pediatric set

Includes the following:

- In order to attain accuracy, a **burette** (0.51mL) in 1mL divisions is used to measure the volume of fluid to be infused. The burette has a filter, an air inlet, and an injection site on its top. At the bottom, a flap/ball valve prevents air entry when the burette is empty.
- **There are two flow controllers: one is between the fluid bag and the burette** and is used to fill the burette; **the second is between the burette and the patient** and controls the drip rate. An injection site should be close to the patient to reduce the dead space.
- **Drop size is 60 drops/mL of clear fluid.**
- filters can be added in line to filter out air and foreign bodies, e.g. glass or plastic particles.

