

جامعة ساوة الاهلية
كلية التقنيات الصحية والطبية
قسم التخدير - اللجنة العلمية

intravenous giving sets



جامعة ساوة

كلية التقنيات الصحية والطبية

قسم تقنيات التخدير

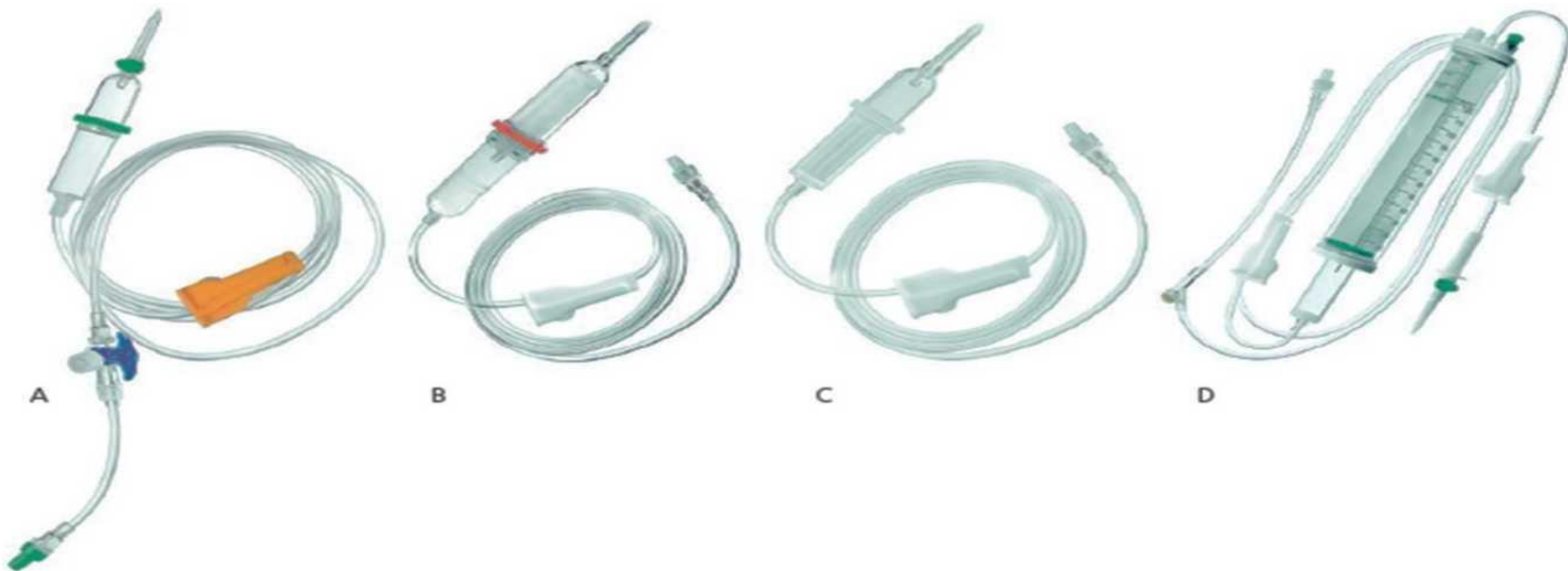
المرحلة (الثانية)

رقم المحاضرة: الثالثة العملي

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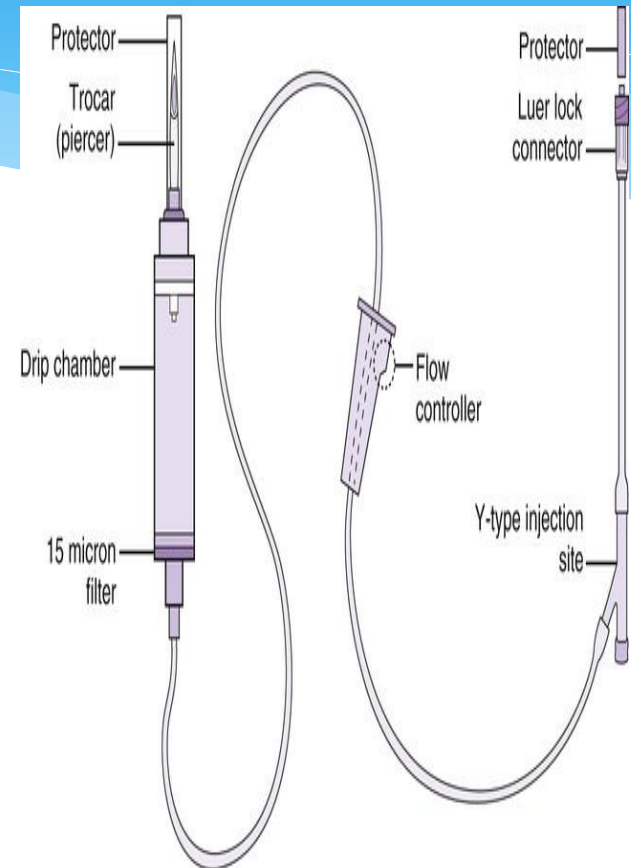
IV giving sets

A collection of sterile devices designed to conduct fluids, blood, and blood products from an intravenous (IV) container to a patient's venous system



components of intravenous giving sets

1. A **spike** to pierce the rubber stopper or port on the IV container
2. A **drip chamber** for trapping air and adjusting flow rate
3. A **control clamp** for adjusting flow rate or shutting down the flow
4. **Flexible tubing** to convey the fluid



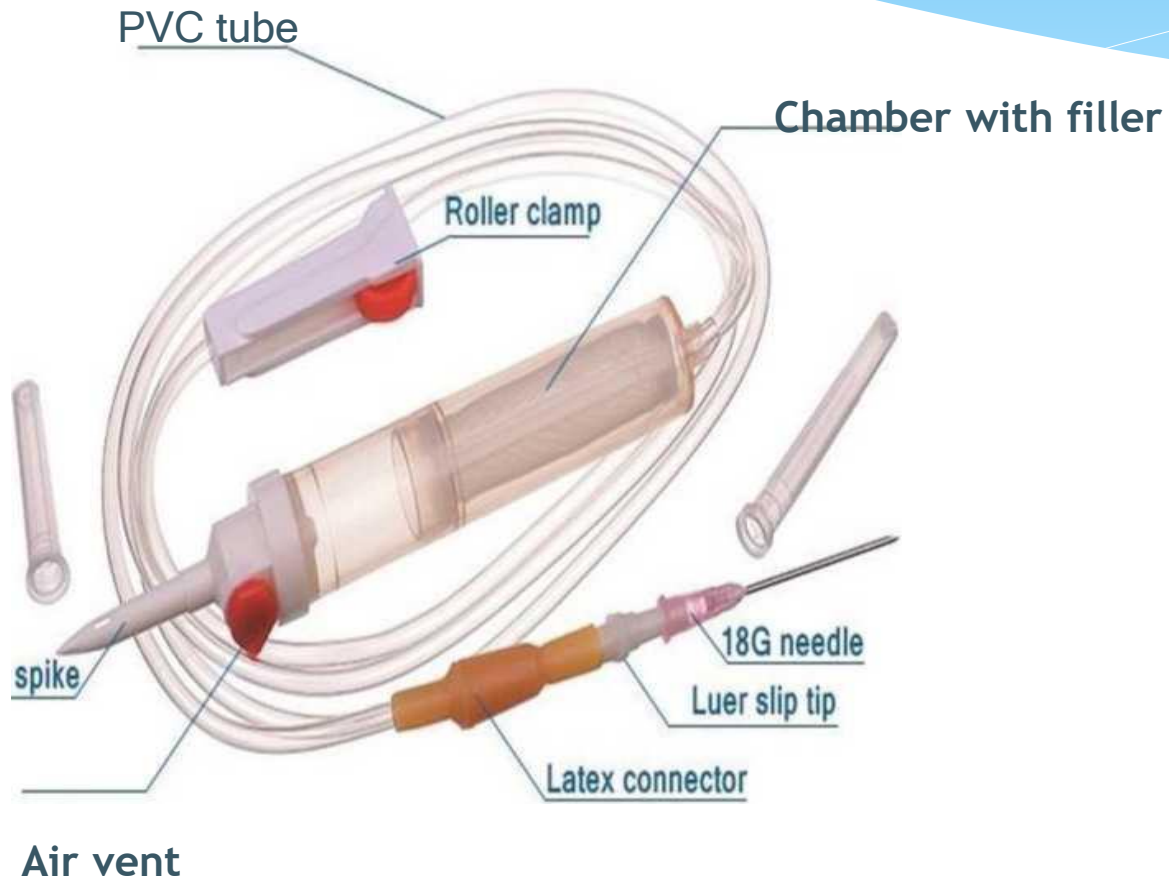
Types of I V giving sets

1. Adult giving set:

- a) **A clear plastic tube** of about 175 cm in length and 4 mm in internal diameter. One end is designed for insertion into the **fluid bag** whereas the other end is attached to an **intravascular cannula**

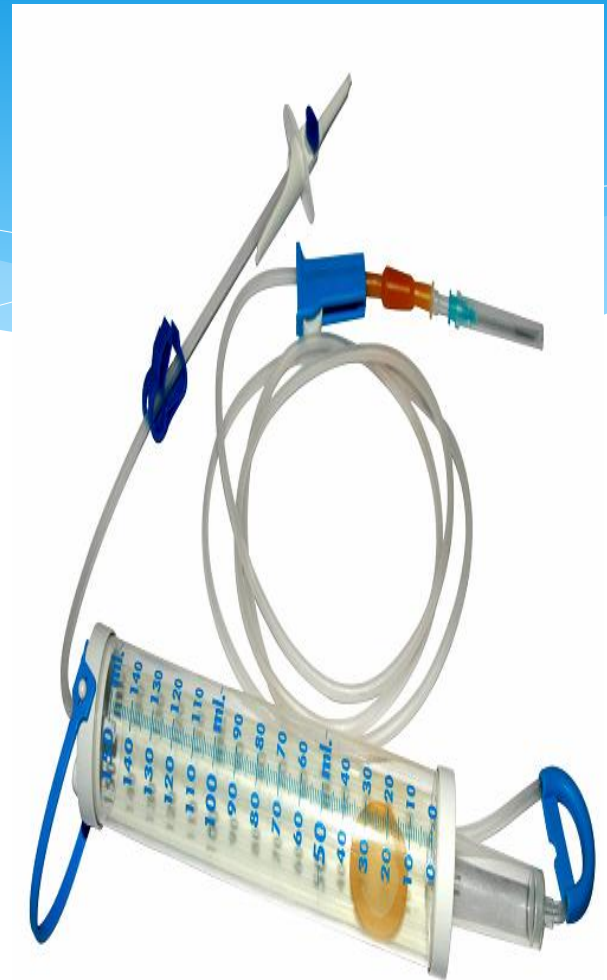


b) filter with a mesh of about 150-200 μm and a fluid chamber



2- Pediatrics sets Are used, for **more accurate and controlled delivery** of IV fluids and drugs . The dependent end of the burette's chamber empties into a drip chamber through a **'microdropper'** that delivers **60 drops/ml of fluid**.

❖ Most burettes also incorporate a **floating ball valve** that prevents entrainment of air from the empty **burette** chamber into the **drip chamber**



what is the difference between a Micro drop and a macro drip?

Micro drip	Macro drip
<p>1 . micro drip tubing is used for people who are receiving smaller amounts of IV medication.</p>	<p>1 -Macro drip tubing is much larger, so is better for delivering larger doses of fluid.</p>
<p>2-Micro drip tubing typically delivers 60 gtt/mL which means it would deliver 1 ML in 60 drops. This makes it ideal when dealing with more precise drip rates.</p>	<p>2-Macro drip tubing can deliver between 10 gtt/mL and 15 gtt/mL. This means it can take as few as 10 drips to infuse 1 ML .</p>
<p>3-Micro drip tubing is typically used for medications that require greater care.</p>	<p>3-This type of tubing is used when rapidly infusing large amounts of fluid such as saline solution.</p>

IV fluid administration setup

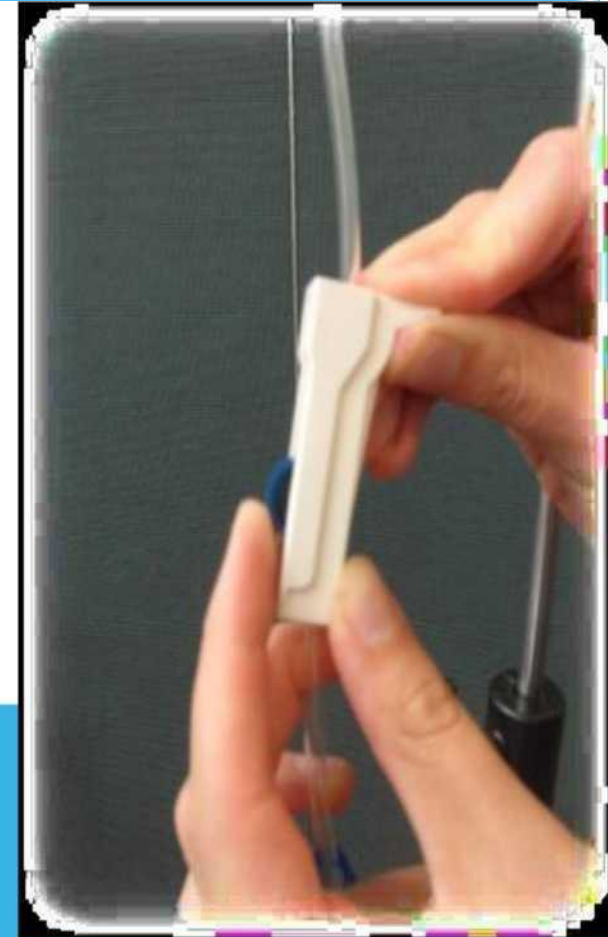
- 1 -Make sure the **spike** is inserted
- 2- **Hang the fluid bag** on a drip stand(intravenous poles)
- 3 -Squeeze the transparent **drip chamber** until there is about **1.5cm of fluid in the**



IV FLUID ADMINISTRATION SETUP

4 -Start the flow of fluid through the giving set by slowly rolling the wheel upwards

5-Run the fluid down the entire length of the giving set and out into a bucket. To prevent bubbles, run the fluid through slowly



IV FLUID ADMINISTRATION SETUP

6 -Stop the flow of fluid by rolling the wheel down

7 -Connect the other end of the iv set to the cannula





SCAN TO GET THE LECTURE

