

# blood administration set

(blŭd ăd-mĭn-ĭ-strā'shŭn set)

### DEFINITION:

Special infusion delivery system with built-in 170 to 260 micron filters, the set has two pigtails (one for a blood bag and one for a saline priming solution).



### KEEP IN MIND:

Administration sets should be changed for each new blood bag administered. The filter traps cell aggregates, cellular debris, and coagulated proteins.

### APPLICATION:

The nurse primed the *blood administration set* with 0.9% sodium chloride and set the rate at keep open while she went to the laboratory to pick up and sign for the unit of packed cells.

### NOTES:

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coring

(kăwr' ĭng)

### DEFINITION:

Visible, as well as microscopic, particles of rubber bung displaced by the spike during piercing of the glass container or needle during access of implanted vascular access device.



### KEEP IN MIND:

Technique prevents coring. A twisting motion while inserting a spike from the administration set will core the rubber on the closed glass system.

### APPLICATION:

The student nurse was instructed to spike the glass system with the administration set piercing pin by pushing the spike straight into the glass system through the rubber bung without twisting to

### NOTES:

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## EQUIPMENT TERMS

### DEFINITION:



### KEEP IN MIND:

### APPLICATION:

prevent *coring* of the rubber into the solution.

### NOTES:

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# microaggregate set

(mī"krō-ăg'rĭ-gĭt set)

### DEFINITION:

A device composed of plastic components for the IV delivery of large volumes of stored whole blood or of packed blood cells. Traps deteriorated red blood cells.



### KEEP IN MIND:

The components of the set include the plastic tubing, roller clamp, and the filter that prevents the microaggregates or deteriorated red blood cells from entering the circulatory system of the patient.

### APPLICATION:

The patient was to receive 4 units of packed cells; the nurse preparing the infusion added a *microaggregate* filter to remove the extra cellular debris from the infusion.

### NOTES:

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**P.S.I. (pounds per square inch)**

(pound per square inch)

## EQUIPMENT TERMS

### DEFINITION:

A measurement of pressure: 1 psi equals 50 mmHg or 68 cm of water.



### KEEP IN MIND:

One psi and 50 mm Hg exert the same amount of pressure.

### APPLICATION:

Positive pressure infusion pumps average 10 *psi* with up to 15 considered to be safe.

### NOTES:

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rubber bung

(rŭb' bĕr-bŭng)

### DEFINITION:

Stopper of glass container composed of numerous substances including rubber, chemical particles, and cellulose fibers.



### KEEP IN MIND:

Closed glass systems have black rubber bung preventing air from entering the system. Administration systems used for spiking and priming the closed glass system must have a vent for adding air into the system to displace the fluid.

### APPLICATION:

The nurse was careful when spiking the closed glass system with a *rubber bung* so as not to create coring of the rubber into the fluid.

### NOTES:

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**stopcock**

(stŏp'kŏk)

## EQUIPMENT TERMS

### DEFINITION:

A valve or turning plug that controls the flow of fluid from a container through a tube.



### KEEP IN MIND:

A three-way stopcock can be used on IV tubing to turn off one solution and turn on another. The addition of stopcocks to infusion devices potentially leads to increased risk of microorganism contamination.

### APPLICATION:

The *stopcock* had a three-way valve so that the continuous infusion could be interrupted to administer a bolus of pain medication.

### NOTES:

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stylet

(stī' lēt)

### DEFINITION:

A thin metal probe for inserting into or passing through a needle, tube, or catheter.



### KEEP IN MIND:

In over-the-needle catheters, the stylet allows for access through skin and tissues into vein. The stylet as a bevel end to facilitate access. Once introduced into the vein, the stylet is removed and disposed of in a hazardous material receptacle.

### APPLICATION:

The *stylet*, as it is removed from the over-the-needle catheter, has a built in safety device to secure the stylet and protect the nurse from a needle stick injury.

### NOTES:

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