



# Dr. M.G.R.

## EDUCATIONAL AND RESEARCH INSTITUTE

(Deemed to be University with Graded Autonomy Status)

Accredited by NAAC with 'A' Grade | An ISO Certified Institution

Maduravoyal, Chennai - 600 095, Tamilnadu, INDIA

Topic : Central venous access.  
Subject Code : BOT5T2  
Subject Name : Anesthesia techniques and It's  
Complications  
Delivered by : Ms. Divya palani



# DEFINITION

1. **CENTRAL VENOUS ACCESS IDEAL VEIN FOR MONITORING CVP IS RIGHT INTERNAL JUGULAR VEIN ( BECAUSE IT IS VALVE LESS AND IN DIRECT COMMUNICATION WITH RIGHT ATRIUM)**
2. **SITES**
3. **CVP CAN ALSO BE MEASURED BY SUBCLAVIAN ,BSAILIC AND FEMORAL VEIN, EXTRANAL JUGULAR VEIN,**

# INDICATIONS

1. **OPEN HEART SURGERY**
2. **OLIGURIA OR ANURIA**
3. **HEMORRHAGE**
4. **TRAUMA**
5. **SEPSIS**

# CENTRAL VENOUS PRESSURE NORMAL RANGE

1. CVP MONITORING SHOULD NORMALLY 2 TO 8 MMHG

# CVP IS INCREASED IN

1. PULMONARY EMBOLISM
2. CARDIAC TEMPONADE
3. PLEURAL EFFUSION
4. HAEMOTHORAX
5. FLUID OVERLOADING
6. COUGHING AND STRAINING

# CVP IS DECREASED IN

1. SHOCK ( HYPOVOLEMIC SHOCK)
2. VENOVENODILATORS



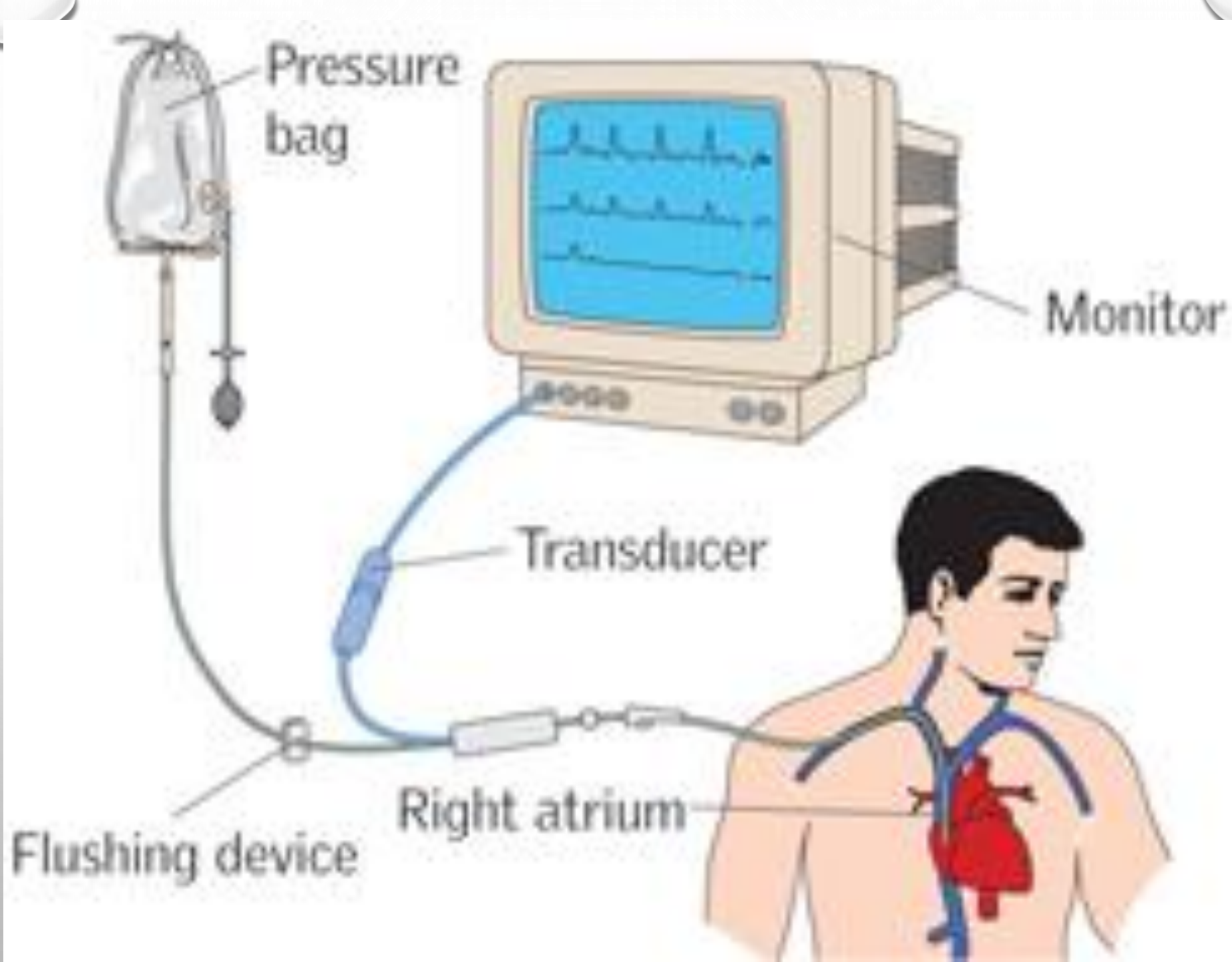
# CVP EQUIPMENT



# EQUIPMENT

1. STERILE GLOVES
2. STERILE GOWEN @ MASK
3. LOCAL ANAESTHETIC
4. SYRINGE
5. STERILE FLUSH SOLUTION





# TECHNIQUE OF CVP

1. EXPLAIN THE PROCEDURE TO PATIENTS OR RELATIVES
2. THE CANNULA WITH STYLET IS INSERTED AT THE TIP OF TRIANGLE FORMED BY STERNOMASTOID AND CLAVICLE
3. THE DIRECTION OF NEEDLE SHOULD BE SLIGHTLY LATERAL AND TOWARDS THE IPSILATERAL NIPPLE
4. ONCE THE INTERNAL JUGULAR VEIN IS PUNCTURED STYLET IS REMOVED AND JWIRE IS PASSED THROUGH CANNULA

- THE TIP OF CATHETER SHOULD BE AT THE JUNCTION OF SUPERIOR VENA CAVA WITH RIGHT ATRIUM

## COMPLICATION

1. AIR EMBOLISM
2. THROMBOEMBOLISM
3. PNEUMOTHORAX

The image features a light gray gradient background. In the top-left and bottom-right corners, there are several realistic water droplets of various sizes, some overlapping. A faint, circular watermark consisting of concentric lines is centered in the upper half of the image. The text "THANK YOU" is centered horizontally in the middle of the page.

THANK YOU



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