Multiple VARs
Quick 5 Step Setup Guide

1. Connect to a 50 PSIG gas source
2. Set patient flow to 25 LPM with pressure gauge at 25 PSIG
3. Connect patient
4. Adjust PIP and rate for patient’s needs.
5. Verify PIP with a manometer

- Uses a single gas source for multiple ventilators in Mass Casualty Incidents (MCI)
- Includes a 7 port multi-outlet manifold and a 20’ oxygen supply tubing
- Organized for rapid deployment
- Holds up to 10 VORTTRAN Automatic Resuscitator (VAR)*
  (* VARs sold separately)
- Easy to set up
  1. Set manifold regulator supply pressure to 25 PSIG.
  2. Ensure that patient receives ~25 LPM of inspiratory flow.
  3. Verify PIP for each VAR at 25 cm-H₂O.
     Adjust for individual patient’s needs.

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### Setting up E-Vent Case with Multiple VARs

**CAUTION:** Review and follow instructions and warnings in the package instruction sheet before using the VORTTRAN Automatic Resuscitator (VAR™)

1. **Case No. 4060 includes:**
   - 7 port manifold (1 each)
   - 20’ oxygen tubing (1 each)

2. Connect the 20’ oxygen tubing to the gas source (gas cylinder or wall outlet) and purge tubing.

3. Connect opposite end of oxygen tubing to manifold inlet.

4. Adjust pressure regulator on manifold to 25 PSIG.

5. Before connecting patient, purge each port by depressing valve center.

6. Connect one end of the 7’ oxygen tubing to VAR DISS fitting.

7. Connect the other end to one of the open ports on the manifold.

8. Verify and re-adjust supply pressure on the manifold to approximately 25 PSIG.

### Adjusting VARs for Each Patient

**CAUTION:** Follow instructions and warnings in the package instruction sheet before using the VORTTRAN Automatic Resuscitator (VAR™)

9. Adjust Peak Inspiratory Pressure (PIP) of each VAR by turning the rectangular PRESSURE dial on each patient.

   **NOTE:** Verify PIP with a pressure manometer.

10. Set patient’s respiratory rate (RR) by adjusting round RATE dial.

    - Turn dial clockwise (inward) = slower rate
    - Turn dial counter clockwise (outward) = faster rate

11. For FiO₂ delivery of 100% - connect onto the green color fitting.

    For FiO₂ delivery 50% - remove green fitting and connect to gray color fitting (as shown).

12. Adjust flow rate for desired inspiratory time (l-time).

    - Increase flow = shorter l-time
    - Decrease flow = longer l-time

13. Re-adjust rate dial. Because the VAR is pressure cycled, changes in the patient’s lung compliance will cause a change in the patient’s breathing rate. In such an event, make the appropriate clinical changes.

    **NOTE:** The VAR is positional sensitive. Final rate adjustments should be made with the VAR in its secured operating position.

14. Estimate delivered flow rate (LPM) for each patient.

    **NOTE:** All patients on the same manifold system will receive the same amount of flow and is estimated to be within ±15%.

    | Delivered flow (LPM) | Set manifold pressure (PSIG) |
    |----------------------|-----------------------------|
    | 20                   | 25 PSIG                     | 10 PSIG                     |
    | 25                   | 30                           | 20                           |
    | 30                   | 40                           | 30                           |
    | 35                   | 45                           | 40                           |
    | 40                   | 50                           | 50                           |