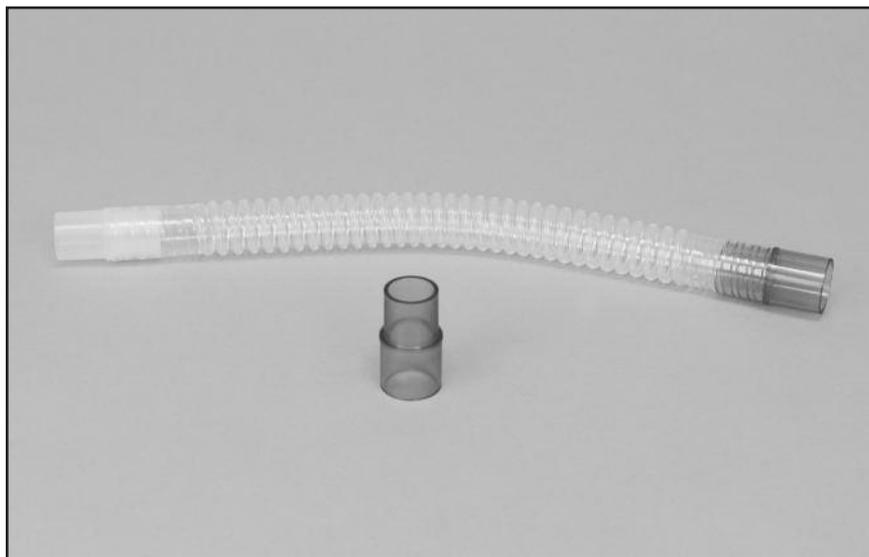


VENTI-PAK CONVENIENCE KIT

FOR VENTI-SCAN IV RADIOAEROSOL SYSTEM

INSTRUCTIONS FOR USE

REF 177-075 Convenience Kit, Venti-Pak



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Instructions for the following Biomed product:

177-075 Convenience Kit, Venti-Pak for Venti-Scan IV

INTRODUCTION

Performing a radioaerosol study on a ventilator patient requires use of the Venti-Scan IV Disposable Radioaerosol Kit in conjunction with the disposable Venti-Pak Accessory Kit for Ventilator Patients.

The Venti-Pak Kit, when used with Venti-Scan disposables, allows the user to connect the radioaerosol to both the ventilator and patient for a lung study.

Prior to using this disposable on a patient, ensure that you read and fully comprehend the following instructions.

SETUP PROCEDURE USING VENTI-SCAN IV RADIOAEROSOL CONVENIENCE KIT (#177-091 OR 177-092)

(See Figure 1.)

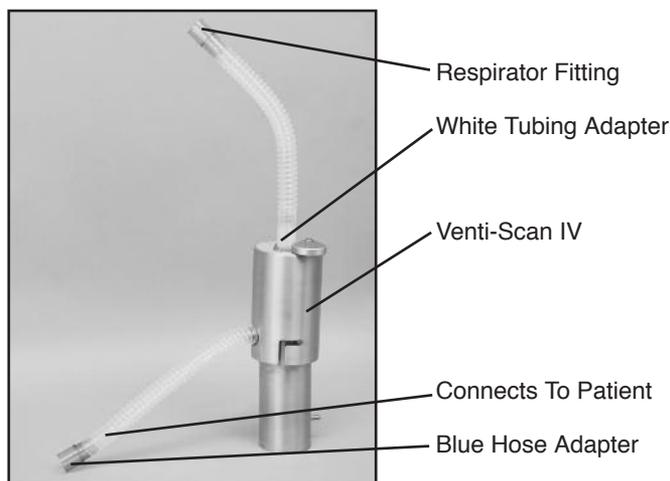


Figure 1. Venti-Pak with Venti-Scan IV.

1. Remove the Venti-Scan IV lead shielded canister top cover.
2. Remove the Venti-Scan IV disposable radioaerosol kit from its packaging.
3. Insert the Venti-Scan IV into the canister. The nebulizer oxygen stem is inserted into the holder in the bottom of the canister.

NOTE: The nebulizer injection port should be visible through the canister injection site.

4. Inject Tc-99m DTPA into nebulizer injection port. Typically, 40 mCi of Tc-99m DTPA is used in approximately 2 ml. Inject with a 22-gauge or larger gauge needle (recommended length is 1.5 inches).
5. Replace shielded top cover by aligning large slot with patient breathing tube. Push down on the cover and twist to lock.
6. Place lower shield assembly in I.V. Pole mount.
7. Connect one end of the O₂ tubing line to the O₂ supply (the other end remains unattached at this time).



CAUTION: *Oxygen supply must be turned OFF. Do NOT use a humidified oxygen source.*



ATTENTION: *L'alimentation d'oxygène doit être arrêtée. Ne pas utiliser une source d'oxygène humidifiée.*

8. Adjust height of assembly on stand for patient comfort. Explain procedure to the patient.
9. Remove respirator attachment hose from the Venti-Pack Accessory Kit.
10. Attach the respirator attachment hose to the aerosol unit by firmly placing the white tubing adapter end onto the top of the filter exhaust (trap) of the Venti-Scan IV.
11. Remove the mouthpiece from the Venti-Scan IV and insert the the blue hose adapter supplied with the Venti-Pak where the mouthpiece was.
12. To connect patient to the radioaerosol system:
 - Only one end of the oxygen tubing should be connected to the O₂ supply; set the flow to 10-11 liters per minute.
 - Remove the ventilator tube from the patient's trachea
 - Connect the fitting where the mouthpiece used to be to the patient's trachea
 - Connect the ventilator to the hose protruding from the exhaust of the Venti-Scan IV
13. Proceed to "Performing a Study."

PERFORMING A STUDY

NOTE: *The patient must be connected before proceeding.*

1. Connect the unattached end of the O₂ tubing to the Venti-Scan canister. With the oxygen turned ON, the filter exhaust (trap) in the Venti-Scan keeps any radioaerosol from going into the room. With the ventilator connected to the system, have it move the air through the system for four to eight minutes to assure sufficient lung deposition.

2. When delivery of the Technetium aerosol is completed, turn OFF the oxygen supply to the Venti-Scan IV.
3. Continue respirator breathing cycle for an additional ten seconds (five or six breaths) to clean the system of any residual aerosol particles.

 **CAUTION:** *In order to prevent inadvertent contamination of the patient or your room, use care and safe radiation practice when removing the patient from the system.*

 **ATTENTION:** *Pour éviter de contaminer le patient et la pièce, suivre les pratiques usuelles relatives aux rayons X lors de la sortie du patient du système.*

4. Disconnect aerosol fitting from patient's trachea.
5. Disconnect respirator fitting from the hose of the Venti-Pak exhaust and reconnect respirator at patient's trachea.

NOTE: *Patient is again connected directly to the mechanical respirator.*

6. Dispose of aerosol system according to the Venti-Scan package insert and departmental disposal procedures.
7. Repeat anatomical views if comparing to perfusion studies.

NOTE: *Imaging may be performed during radioaerosol inhalation.*

 **CAUTION:** *Federal Law restricts this device to sale by or on the order of physician.*



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