

TIP SHEET: SAFER XENON USE WITH POSSIBLE INFECTIOUS DISEASE

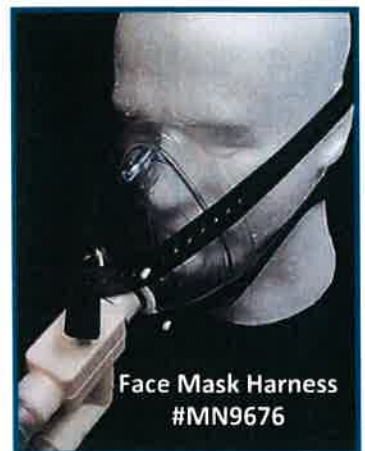
Covid-19 particles are extremely small and highly contagious, therefore the use of a closed radioaerosol delivery system with disposable kits and convenient cleaning, is **strongly recommended** over Xenon delivery.

- ◆ To learn more about the safe use of radioaerosol delivery during Covid-19, see Medi/Nuclear's® "Tip Sheet: Safer Radioaerosol Delivery During Covid-19 and Beyond" and Medi/Nuclear's® "Tip Sheet: Shield Cleaning and Maintenance".
- ◆ Medi/Nuclear offers radioaerosol delivery systems with various features and price points, as well as no charge, no obligation radioaerosol system trials. If interested, please contact Medi/Nuclear® for details.



To maximize protection with Xenon delivery during the Covid-19 crisis, please follow all Xenon/Master® Xenon Delivery System instructions carefully and consider the following recommendations to enhance safety:

- ◆ **The use of 2 HEPA filters behind the mouthpiece/face mask of any Xenon Administration Set is strongly recommended to reduce possible system contamination.** HEPA filters have 99.9% trapping efficiency of particles larger than 0.3 microns. While Covid-19 virus particles are very small (.125 μ) they attach to water particles in the human breath, making them large enough to be trapped in a HEPA filter. Xenon Administration Set #MN2700, for infection control features 2 HEPA filters, a direct dose adapter and an air cushioned face mask. It is available from Medi/Nuclear® in a small case quantity of 6/each. HEPA filters may also be purchased by the case of 20/each, using model #MN2890. **REMINDER: To avoid possible system contamination, HEPA filters should be used with every patient, not bacteria filters.**
- ◆ A properly fitted, non-vented, air cushioned face mask offers protection from coughs by sealing a patient's nose and mouth. To properly apply a face mask 1) place it on the bridge of the nose and 2) carefully roll it down toward the chin. This process will move the soft tissues out of the way, securely sealing the edges of the face mask on the hard bones of the face. Due to Covid-19, the use of a face mask harness (#MN9676) is strongly recommended. This secures the face mask and reduces close contact with the patient.
- ◆ For an additional layer of protection, a damp microfiber, cotton or cotton blend cloth may be placed around the edges of the face mask. The moisture in the cloth will fill the



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- ◆ The use of a straight mouthpiece should be avoided as leakage from the corners of a patient's mouth is likely. Should a mouthpiece be used, Medi/Nuclear's® scuba style Safety Shield™ Mouthpiece (#MNMP500) is recommended as it covers the corners of a patient's mouth and has a snap-on cap that can be used to collect contaminated saliva during mouthpiece removal, before being closed.
- ◆ To further reduce the chance of leakage from around a mouthpiece, a damp micro-fiber, cotton or cotton blend cloth may be wrapped around it. The moisture in the cloth will fill the pores of the cloth, allowing escaped particles, if any, to be collected. The cloth may be discarded as hazardous waste after the procedure.
- ◆ When using a mouthpiece, be sure to properly apply a nose clip (#MN1050) to prevent leakage from the nose. To place a nose clip properly, ensure the nose pads are located on the lower part of the nose, keeping nostrils closed tightly. If a patient is placing the nose clip, check to make sure it is located properly. This will enhance safety and speed up dosing.
- ◆ Have the patient put on a personal face mask following the procedure.
- ◆ After each patient, clean and disinfect the exterior of the Xenon/Master® and procedure area, according to hospital protocols, to reduce the possibility of surface contamination.



FINAL REMINDERS:

1. Air flows through the Xenon/Master® in one direction. If the charcoal trap is spent, patient exhalation will go through it, possibly contaminating room air. **Be sure to monitor the charcoal trap routinely and replace it as needed.**
2. **Use 2 HEPA filters with each patient to minimize possible system contamination.**
3. Change CO2 absorbent granules for each study and absorbent granules when blue color has turned to pink/white. **In addition to patient safety, changing granules routinely will help to preserve the life of the charcoal trap and internal expansion bag.**
4. **Clean and disinfect the exterior of the Xenon/Master® after every patient,** to minimize the risk of surface contamination.



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Safer Xenon Administration

XENON ADMINISTRATION SET FOR INFECTION CONTROL



#MN2700

- ◆ Includes HEPA Filters with 99.9% trapping efficiency (2 each), direct dose adapter and air cushioned face mask.
- ◆ Use to lower the risk of system contamination.
- ◆ Securely fitted face mask increases protection against patient exhalation and coughs.
- ◆ For use with Pulmomex® and Xenon/Master® Xenon Delivery Systems.
- ◆ Comes in small case quantity of just 6 each.



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