

Technegas Machine: Safe Handling for Biomed Personnel

1 Education Requirements

Biomed staff who will be handling the inner chamber of the Technegas machine must have completed and read:



- ☐ LHub: Radiation Safety Basics
- ☐ LHub: Biomedical Engineering: Safe Handling of Radioactive Materials in NM Quiz.
- ☐ Safe Handling Procedure (Cyclomedica)

2 Request for Access

Ask NM Supervisor if their Technegas machine is available for maintenance or service. This may be done verbally or by email.



Preplanned maintenance should be scheduled at least 24h after the last time the unit was used to allow for radioactivity to decay.

For urgent service requests, the unit can be serviced immediately.

3 Prior to Work

1. Check in with the NM Supervisor/NM tech
2. Don PPE:
 - ☐ Double Disposable Gloves
 - ☐ Protective Clothing with sleeves.



Inner glove cuff underneath gown, outer glove cuff over gown.



3. Place tripads over the working surfaces to avoid spreading contamination.

4 Performing Maintenance/Service



No food or drink is allowed in Nuclear Medicine Rooms.

Place tools and parts from inside the chamber onto tripads.

Remember anything that comes into contact with the inner chamber will be contaminated.



5 Monitoring

Remove PPE, monitor hands and initial the *Biomed Technegas Service Log*:

- ☐ Once the work in the inner chamber is done,
- ☐ When going on break
- ☐ At completion of work

If skin contamination is found, see Step 6. Find a NM technologist to monitor the work area and tools.

Don a clean pair of gloves to proceed with the rest of the maintenance.

6 Skin Contamination

If skin contamination is found, follow these instructions.

During business hours:

- ☐ Inform a NM technologist immediately

After business hours:

- ☐ Record results and time
- ☐ Wash hands with soap and lukewarm water for 2-5 min.
- ☐ Put on disposable gloves
- ☐ Call the 24h emergency number: 1-833-343-4748

