

After 3 years of research and development, LEMER PAX in collaboration with its scientific committee introduced the POSI-JET to meet the new regulation constrains in radiation protection.

The POSIJET is an innovative process of calibration and injection of FDG but also of other radioisotopes such as Gallium-68 or rubidium-82 allowing a reduction of the doses received by the exposed manipulators while carrying out a traceability of the patients, manipulators, and kits.



Testimonial members of scientific comitee LEMER PAX

The rapid development of the Positron Emission Tomography, currently with the F-18-FDG but shortly with other radioisotopes such as Gallium-68 and rubidium-82, increases the exposure of the medical and technical staff members due to the injected activities and the annihilation photon energy. Therefore it is important to reduce this exposure by optimizing all procedures of radiation protection. The POSIJET will significantly contribute to this optimized radiation protection which should secure the staff members in charge of PET examinations.

Prof. Jean François CHATAL

Chairman of Nuclear Medicine Tomorrow Previous head of Nuclear Medicine Department University Hospital and cancer Centre Scientific adviser for ARRONAX cyclotron Nantes, France.

I think the project is of high interest due the increasing use of F-18 FDG. The strength of POSIJET would be a significant reduction in radiation burden/exposure to staff members... Every single detail of the administration/injection process has been taken into account, the whole injection procedure is safer (control of radioactivity injected).

Prof. Dr. Richard P. Baum

Chairman and Director, Dept. of Nuclear Medicine / Center for PET/CT Zentralklinik Bad Berka Germany

Dear Colleague,

It is clear from the evaluations made on the POSIJET that this device has the following advantages:

- Asset No. 1: it allows an optimum radiation protection of workers on all workstations where radiopharmaceuticals emitting positron or photon with an energy superior to 0,5 MeV are handled.
- Asset No. 2: it allows using multi-dose vials without risk of microbiological contamination of solutions and / or radioactive surfaces.
- Asset No. 3: its integrated computing software allows full traceability of the products and patients injected, with simple data retrieval.

Alain FAIVRE – CHAUVET

Chair of French society of radio pharmacy (SOPRA) National representative of the radio pharmacists at the committee of radio pharmacy of the EANM.

I have known this group and this company for at least 3 years and it's a very great pleasure working with them. I think POSIJET is a great product and I think it has a great future and we will be working together for its promotion.

Dr Matthew THAKUR

Director of Radiopharmaceutical Research and Professor of Radiology and Radiation Oncology at Jefferson Medical College of Thomas Jefferson University and past President of the Society of Nuclear Medicin

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DOSIET®

. .

Integrated **FDG** dispensing and infusion system.



Dose rate reduction
> 98%
Take up
Measure

safely and securely

Inject

Eliminates requirement for operator to handle radio active dose

Accurate dose calibration

Sterile injection process, with easily disposable tubing kit

Large interactive touch screen

Integrated record keeping, with remote download capability

Internal rechargeable power supply



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POSIJET®

The **POSIJET**[®] calibrates by activity measurement, dilutes, and then injects a patient with a FDG solution from the shielded container as shipped from the production site, while respecting operator radiation protection legislation, as well as the pharmaceutical aspect of the injection.

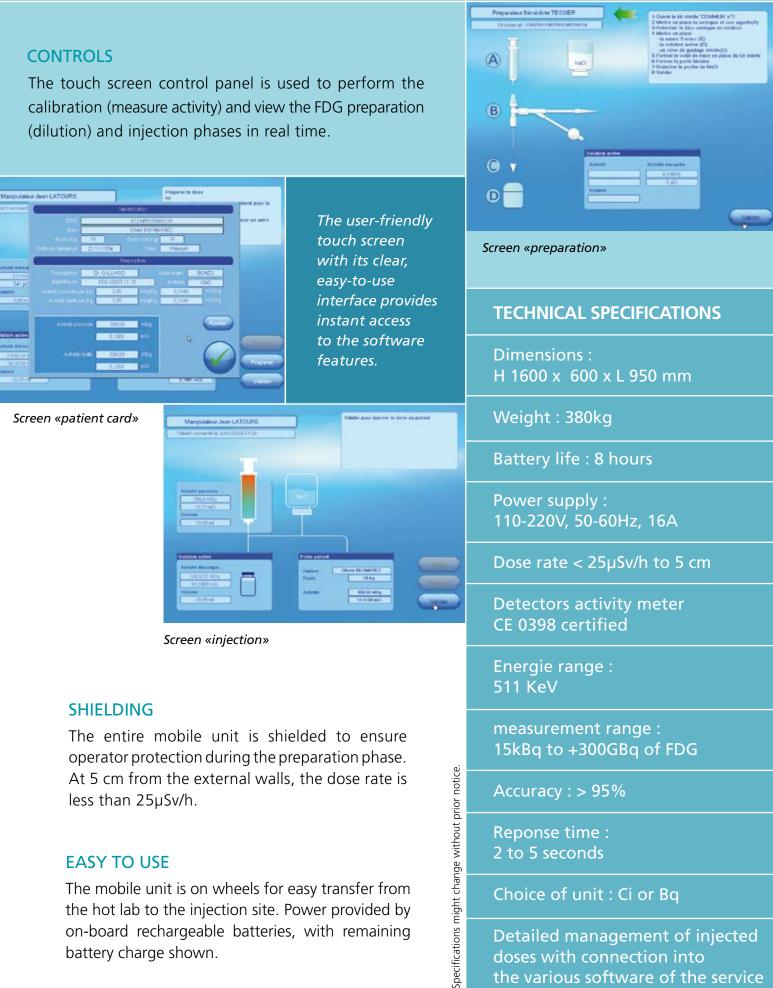


DESCRIPTION

The equipment is contained in a mobile shielded unit composed of :

- An ACAD dose calibrator that measures activity in real time.
- An automatic or manual remote-controlled injection system.
- **3** An interactive touch screen control panel.
- A sterile injection kit (disposable) composed of tubes and connections between the FDG source, the measurement system and the patient.
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The mobile unit is on wheels for easy transfer from the hot lab to the injection site. Power provided by on-board rechargeable batteries, with remaining battery charge shown.

Detailed management of injected doses with connection into the various software of the service

