

# SUV calibration check - TEP

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**Erwann Rault**

*Centre Oscar Lambret (Lille)*

## 1 Acquisition information

Patient name: zzzEARL\_SUV

Patient ID: 15397

File path: X:/Med Nuc/CQ TEP-CT/CQ SUV/CQ EARL 2017.02.09/TEP AC

Injected Isotope: F18 (half life: 1.8295 h)

Radiopharmaceutical: FDG -- fluorodeoxyglucose

Injected activity: 70.1 MBq @ 2017-02-07 16:46:00

Residual activity: 0.0 MBq @ 2017-02-07 16:49:00

Radionuclide volume 5680 mL

Scan date and time: 2017-02-07 17:07:14

Scan duration: 300 s

Image size: 256 x 256 x 83

Energy window: 425 to 650 keV

Image units: BQML

Reconstruction corrections: ['DECY', 'ATTN', 'SCAT', 'DTIM', 'RANSNG', 'DCA']

Scatter correction method: Model Based

Dose calibration factor: 13074

Scatter fraction factor: 0.294799

Dead time factor: 1.04461

Rescale slope: 0.00882617

Rescale intercept: 0

TEP system: GE MEDICAL SYSTEMS

D690

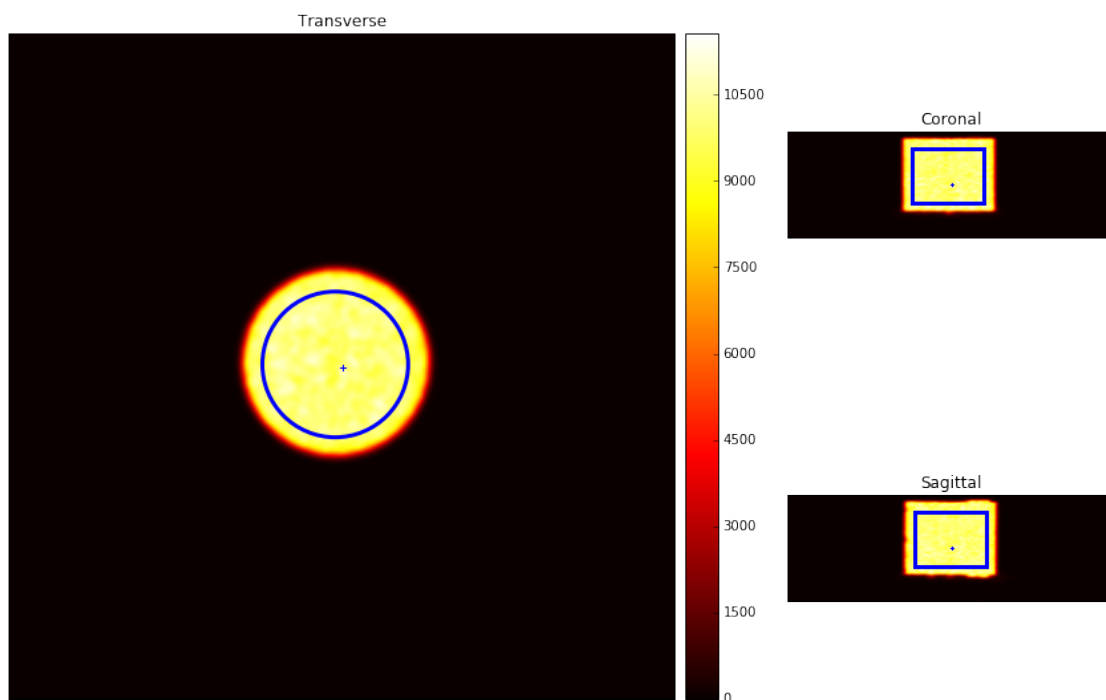
## 2 SUV calibration factor

Injected activity in the phantom: 10793.0 Bq/ml

Measured values in the VOI:

- min. activity: 8856.07 Bq/ml
- max. activity: 11269.72 Bq/ml
- mean activity: 10053.72 Bq/ml
- std deviation: 285.89 Bq/ml ( 2.84 %)

>>> Test succeeded! (error -6.85 %)



## 3 Remarks: