

**14 mm Polyvalent probe,
low and High Energy**



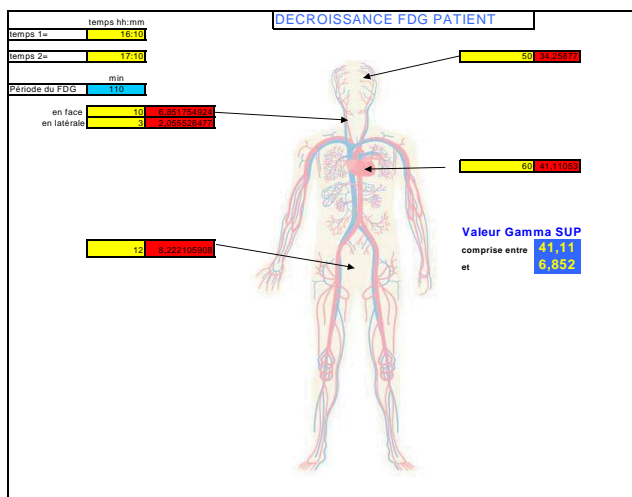
METASTASIS DETECTION with FDG

Gamma-SUP



FDG Additional collimator

The FDG software enables to calculate the exponential decrease of the FDG activity



The Gamma SUP device for FDG is made of an electronic control unit, a 14 mm probe (high energy and high sensitivity) and an additional collimator (21-mm diameter)

The collimator enables to detect isotopes which emission energy stands between 40 and 511 keV (99mTc, 111In, 131I, 18FDG).

The lateral shield altogether with the additional collimator has a shielding power of 71% at 511 keV. The detector sensitivity is of 35 % at 511 keV.

The most common applications using the FDG in peroperative detection are the localizations of metastasis during cancer recurs (ovary, breast, melanoma) as well as the research of metastasis and lymphome.

The calculations and the geometry of the additional collimator have been carried out in order to preserve the performances which are obtained with this probe on the 131I (spatial resolution of 3.6 cm at a distance of 3 cm)

During the metastasis detection at the time of surgery -that last in average 1h30- it is imperative to know how to deconvolute the FDG decrease (half life = 110 min)