

NM- DIAGNOSTICS

Measuring protocol for Tc-99m (manual injection)

GENERAL INFORMATION (to read before starting the measurements)

These measurements are performed in the frame of ORAMED research programm. We thank you very much for your collaboration and you will be informed of the results.

- 1. The" hospital general information" part has to be filled only once per hospital
- 2. The "worker general information" part should be filled once for every worker monitored with our TLDs.
- 3. The "TLD positionning" should be filled once per measuring period.
- 4. The "Shielding Characteristics" should be filled once per measuring period.
- 5. The "injection" part should be filled every day.
- 6. All manipulations should be done with the TLD already in place.
- 7. All activities noted down in this protocol should be the activities at the time of

For Tc-99m protocol:

- The measuring period with Tc-99m is 1 week (5 working days).
- Place the TLDs in position by scotching them (the scotch should not cover the TLDs) to a first pair of gloves and use this pair of gloves every time you manipulate Tc-99m during the whole week. A second pair of gloves should be placed over the first pair to avoid contaminating the TLDs.
- Only work realised with Tc-99m should be monitored by this gloves, so if you work with any other radionuclide *do not forget to remove* the measuring gloves before.
- When removing the gloves, place them in a radiation save place.

IMPORTANT:

If you have any question about this protocol or the way to proceed do not hesitate to contact:

contact.name@institut.country:

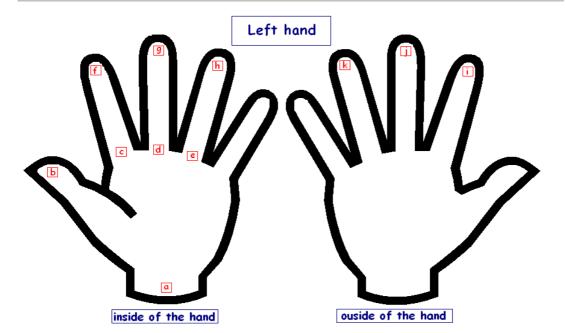
Tél.:

1. HOSPITAL	. GENERAL IN	FORMATION ((to be filled on	ce)	
Hospital name	e and address				
Contact person (Telephone/Fa					
Number of per team	rsons in the				
Does the same labelling and in	person do the	yes		no	
2. WORKER 6	GENERAL INFO	ORMATION (to	be filled once	per worker)	
,					1
Worker name					
Worker exper	ience				
Size and mate	rial of gloves				
Left handed			right handed		
Describe position of hands when injecting (one hand pushes syringe and the					
other holds th	e canula)				
3. SHIELDIN	G CHRATERIS	STICS (Who ar	e used during 1	he manipulation)
	TYPE S	YRINGE	SHIE	LDING	
N°	Capacity [ml]	Diameter [mm]	W or Pb	mm	
S 1					
52 53					

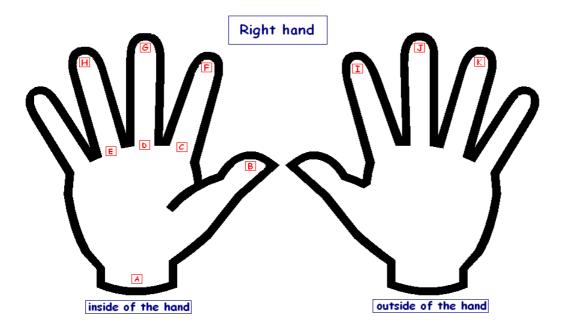
52		
53		
54		
<i>S</i> 5		
56		
57		
58		

table 1: type and shielding for syringe

4. TLD POSITIONNING



	TLD positions	TLD number
	α	
70	Ь	
חמונ	С	
he k	d	
le +	е	
Inside the hand	f	
Ĭ	9	
	h	
Outside the hand	i	
	j	
Or the	k	



	TLD positions	TLD number
	Α	
9	В	
han	С	
Inside the hand	D	
de t	Е	
nsic	F	
H	G	
	Н	
de Ind	I	
Outside the hand	J	
, t	K	

	TA	TE	CTT		N 1
Э.	TIV	IJE	cti	U	N

dose5

D. INJECTI	ON			
ablling name	procedure			
		before dose	after dose	Type Syringe (51,52,53 see
		taking	taking	table 1)
shielding of s	seringe			
Average inje	ction duration		Sec	\neg
	volume [ml]		es of doses <u>at t</u>	
dose1			manipulation (A	nb4)
dose2				
dose3				
dose4				
dose5		†		
ablling name	procedure	before dose taking	after dose taking	Type Syringe (S1,S2,S3 see table 1)
hielding of s	seringe			,
			•	
Average injection duration			sec	
	volume [ml]	activities of doses <u>at t</u> <u>manipulation</u> (M		
dose1				
dose2				
dose3				
dose4			_	·

Remarks : copy the last page for other labelling and injection