



NM- DIAGNOSTICS

Measuring protocol for Tc-99m (preparation)

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 "Work General information" should be filled once per measuring period.
5. The "elution of generator" should be filled every time you elute your generator during your working day.
6. The "labelling" and "dose preparation" parts should be filled every day.
7. All manipulations should be done with the TLD already in place.
8. All activities noted down in this protocol should be the activities at the time of manipulation.

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 INFORMATION (to be filled once)

Hospital name and address	
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Contact person (Telephone/Fax/e-mail)	
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Number of persons in the team	
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Does the same person do the labelling and injection?	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
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2. WORKER GENERAL INFORMATION (to be filled once per worker)

Worker name			
Worker experience			
Size and material of gloves			
Left handed	<input type="checkbox"/>	right handed	<input type="checkbox"/>

3. WORK GENERAL INFORMATION (to be filled once per measuring period)

When and how often do you receive the generator	
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Number of elutions per day	
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3.1 SHIELDING CHARACTERISTICS (Who are used during the manipulation)

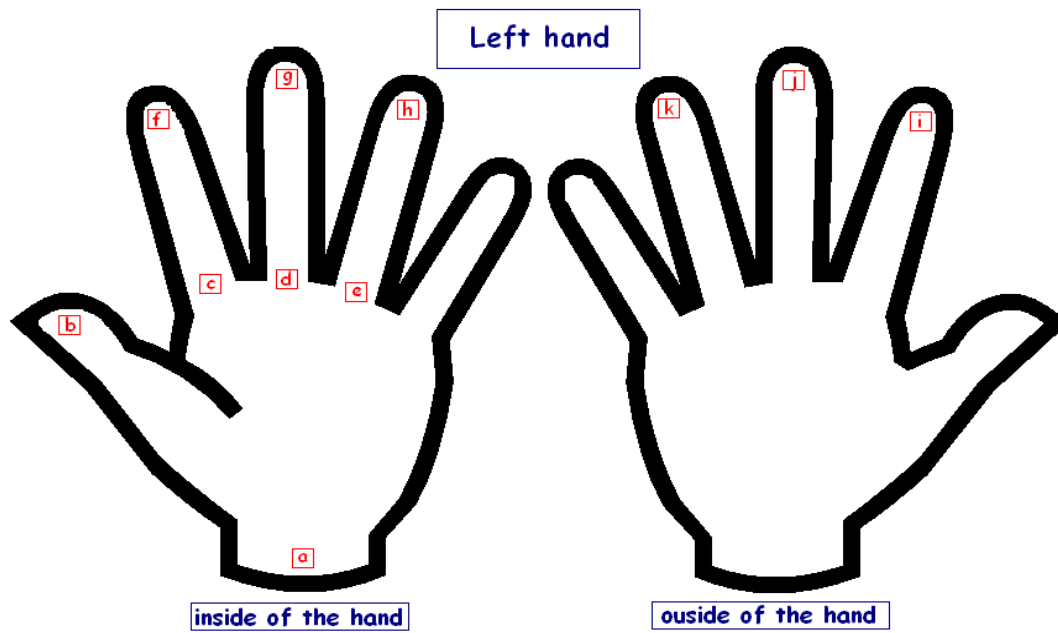
	TYPE VIAL		SHIELDING	
	Capacity [ml]	Diameter [mm]	W or Pb	mm
V1				
V2				
V3				
V4				
V5				
V6				
V7				
V8				

table 1 : type and shielding for vial

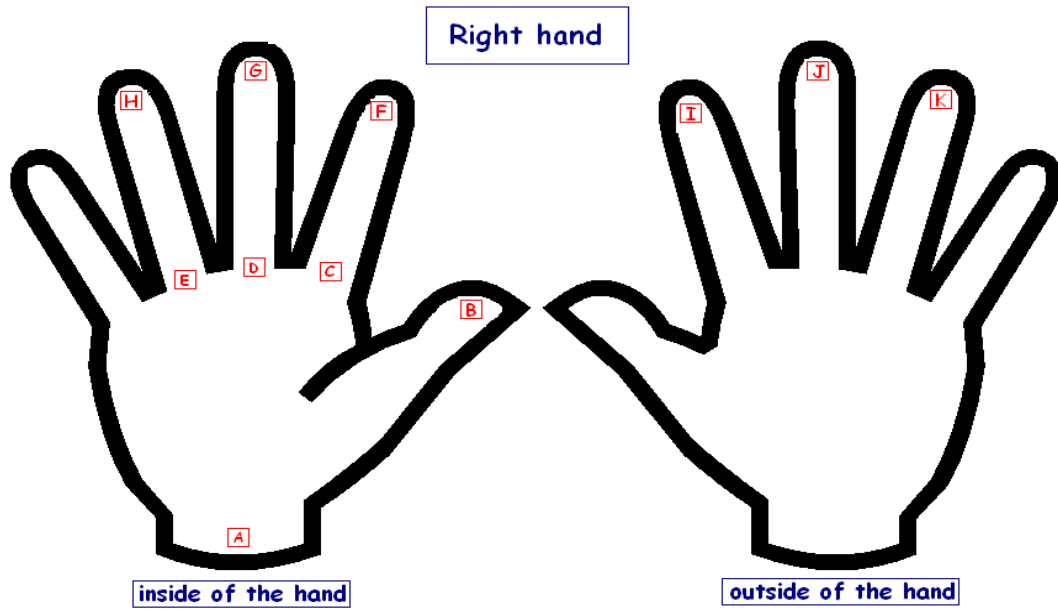
	TYPE SYRINGE		SHIELDING	
	Capacity [ml]	Diameter [mm]	W or Pb	mm
S1				
S2				
S3				
S4				
S5				
S6				
S7				
S8				

table 2 : type and shielding for syringe

4. TLD POSITIONNING



	TLD positions	TLD number
Inside the hand	a	
	b	
	c	
	d	
	e	
	f	
	g	
	h	
Outside the hand	i	
	j	
	k	



	TLD positions	TLD number
Inside the hand	A	
	B	
	C	
	D	
	E	
	F	
	G	
	H	
Outside the hand	I	
	J	
	K	

5. ELUTION OF GENERATOR (to be filled as many times as elution is happening)

Date	activity of Tc-99m in generator at the time of elution (GBq)	activity of elution vial (GBq)	TYPE VIAL (V1,V2,V3,... see Table 1)	SHIELDING Y/N

6. LABELLING PROCESS (to be filled every day of measurement)

DATE :

time hh.mm	labelling name procedure	activity in syringe or vial (GBq)	Type Syringe (S1,S2,S3... see table 2)	shielding y/n	Type vial (V1,V2,V3,... see table 1)	shielding y/n

7. PREPARING PATIENT DOSES (to be filled every day of measurement)

labliling name procedure

	before dose taking	after dose taking	Type Syringe (S1,S2,S3... see table 2)
shielding of seringe	<input type="text"/>	<input type="text"/>	<input type="text"/>

number of doses

	volume [ml]	activities of doses <u>at the time of manipulation</u> (MBq)
dose1	<input type="text"/>	<input type="text"/>
dose2	<input type="text"/>	<input type="text"/>
dose3	<input type="text"/>	<input type="text"/>
dose4	<input type="text"/>	<input type="text"/>
dose5	<input type="text"/>	<input type="text"/>

labliling name procedure

	before dose taking	after dose taking	Type Syringe (S1,S2,S3... see table 2)
shielding of seringe	<input type="text"/>	<input type="text"/>	<input type="text"/>

number of doses

	volume [ml]	activities of doses <u>at the time of manipulation</u> (MBq)
dose1	<input type="text"/>	<input type="text"/>
dose2	<input type="text"/>	<input type="text"/>
dose3	<input type="text"/>	<input type="text"/>
dose4	<input type="text"/>	<input type="text"/>
dose5	<input type="text"/>	<input type="text"/>

lablling name procedure

	before dose taking	after dose taking	Type Syringe (S1,S2,S3... see table 2)
shielding of seringe	<input type="text"/>	<input type="text"/>	<input type="text"/>

number of doses

	volume [ml]	activities of doses <u>at the time of manipulation</u> (MBq)
dose1	<input type="text"/>	<input type="text"/>
dose2	<input type="text"/>	<input type="text"/>
dose3	<input type="text"/>	<input type="text"/>
dose4	<input type="text"/>	<input type="text"/>
dose5	<input type="text"/>	<input type="text"/>

Remarks : copy the two last pages for each day labelling and for more patient dose