INSTITUTE OF PHYSICS AND ENGINEERING IN MEDICINE

Nuclear Medicine Software Working Party

Quality Assurance of Renography II

RESULT FORM (Please use a separate form for each operator)

Name of Site:	Operator Identifier	(e.g. 1,2, etc):
Computer System		
Manufacturer:	Make and Model of	computer:
General information		
Matrix size used:		
128x128	64x64	Other (specify)
		
Which parameters do you qu	ote on the clinical rep	oort:
Relative function	Time	-to-peak
If quoted, what is your norma	al range for these para	ameters:
Relative function (lef	ft) (%)	Time-to-peak (secs)
Operator experience (Please tick a	appropriate box in eac	ch case)
Howlong have you been room < 6 months 6 mon	utinely processing DT	
How many DTPA/MAG3 sca	ans do you process pe	r month?

Relative function

Metho	od used:		
	Inspection	Calculation	S oftware
Softwa	are used(if software specifi	ed or as display aid to inspect	ion or calculation):
	Commercial	Written to user speci	fication
	Written in-house	Obtained from exter	nal source
	Name and version of prog	ram used:	
Algori	thm:		
	Integral (with limits)	Patlak	
	Slope	Peak counts	
	Deconvolution	Other (specif	(y)
•••••			
Backg	round subtraction method (i	f combination, please tick all tl	hat apply):
	None	Area normalised (fac	tor) <u> </u>
	Interpolated	Patlak	
	Deconvolution	Other (specify)	
If back	ground subtraction done	(if 2 methods used treat sepa (if >2 methods used, use sep	• /
	Method 1 (as ticked above)	:Ту	pe of background
	Background region (for con	nplex region shape, please tick	all that apply):
	Inferior	Superior	Lateral
	Between	Around	
	Was same background regi	on used for each kidney: Yes	\square No \square

	Background	region shape	e:		
	Polygon		Peri	S emilunar	
	Rectangle		Triangle	Other (specify)	
[
•••••	Method 2 (if	used; as tick	ted above):	Type of backgroun	ıd:
	Background	region (for c	omplex region shape, j	please tick all that apply):	
_	Inferior	Ш	Superior	Lateral	
L					
	Between		Around		
	Was same ba	ackground re	gion used for each kid	ney: Yes No	
	Background	region shape	e:	_	
	Polygon		Peri	S emilunar	
	Rectangle	Ш	Triangle	Other (specify)	
					
	Curve shift: None	П	Blood peak	Other (specify)	
[<u>—</u>	Dioou pean	- Carel (speary)	
C	Curve smoothing:				
	None		Once		
	>Once (spec	ify no.)] Variable n	о.	
If	curve smoothing of	done, please s	specify smoothing func	ction, e.g. 1-2-1	
F	or users of Patlak	plot or decon	volution		
apply):	Input functi	on region (if	f combination, e.g. he	eart/liver, please tick all th	ıat

Heart		Aorta	Spleen	
Liver		Other (specify)	<u> </u>	
Is input function	background su	btracted?		
No		Yes (specify method)		•

Time-to-peak

Method	d used:		
	Inspection	Calculation	S oftware
Softwa	re used (if software spec	ified or as display aid to i	nspection or calculation):
	Commercial	Written to use	r specification
	Written in-house	Obtained from	external source
	Name and version of pro	ogram used:	•••••
Algorit	thm:		
	Zero gradient	Maximum in v	whole curve
	Time constraint (specify) Other (specify)
Backgr	ound subtraction same as	s before: Yes (go to 'Curve	Shift') No
Backgr	ound subtraction method	l (if combination, please tic	k all that apply):
	None	Area normalis	ed (factor)
	Interpolated	Patlak	
	Deconvolution	Other (specify)
\Box .	·····		
If back	ground subtraction done	(if 2 methods used treating (if >2 methods used, used, used, used, used, used)	<u> </u>
	Method 1 (as ticked above	ve):	Type of background
	Background region (for o	complex region shape, plea	se tick all that apply):
	Inferior	Superior	Lateral
	Between	Around	

	Was same bac	ckground regio	on used fo	or each kidne	y: Yes	No L
	Background	region shape:				
	Polygon		Peri		Semilunar	
	Rectangle		Triang	le	Other (specif	y)
\Box .	••••					
•••••	Method 2 (if a	used; as ticked	above): .	•••••	Type of	background
	Background	region (for com	ıplex regi	on shape, ple	ease tick all tha	t apply):
	Inferior		Superi	or	Later	al
	Between		Around	ı 🗆		
	Was same ba	ckground regio	on used fo	or each kidne	y: Yes	No
	Background	region shape:				
	Polygon		Peri		Semilunar	
	Rectangle		Triang	le	Other (specif	y)
. Curve	 shift:					
	None		Bloodp	peak	Other (specif	y)
□.						
Curve	smoothing:					
	None			Once		
	>Once (speci	fy no.)	•••••	Variable no.		
If curv	e smoothing d	one, please spe	cify smoo	othing functio	on, e.g. 1-2-1	•••••

Time range constraint

No Yes (limits)	•••••
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Results

Please estimate the following parameters in the twelve studies:

Patient No:	Relative function (left)	Time-to-peak of renogram curwe (left)	Time-to-peak of renogram curwe (right)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

PLEASE RETURN THIS FORM TO YOUR REGIONAL AUDIT CO-ORDINATOR