Streamline L

Streamlining Staging of Lung Cancer with Whole Body MRI

CASE REPORT FORMS

WB-MRI IMAGING BOOKLET

Patient Initials	
Trial Number	STL -

Please send ORIGINAL forms to:

Streamline L Trial Coordinator
CR UK & UCL Cancer Trials Centre
90 Tottenham Court Road
London W1T 4TJ

General enquires: **020 7679 9891**

Telephone Registration: **020 7679 9880** (between 9.00am and 5.00pm)

Fax Registration: **020 7679 9871**

E-mail: CTC.streamlineC@ucl.ac.uk









Additional instructions for completing forms

WB-MRI Imaging Booklet Guidance

To be completed by the trial radiologist when reporting the WB-MRI. See table below and the following page for definitions for T, N and M staging.

Definitions

Primary Tumor (T)

- TX Primary tumor cannot be assessed, or tumor proven by the presence of malignant cells in sputum or bronchial washings but not visualized by imaging or bronchoscopy
- TO No evidence of primary tumor
- Tis Carcinoma in situ
- T1 Tumor 3 cm or less in greatest dimension, surrounded by lung or visceral pleura, without bronchoscopic evidence of invasion more proximal than the lobar bronchus (for example, not in the main bronchus)¹
- T1a Tumor 2 cm or less in greatest dimension
- T1b Tumor more than 2 cm but 3 cm or less in greatest dimension
- Tumor more than 3 cm but 7 cm or less or tumor with any of the following features (T2 tumors with these features are classified T2a if 5 cm or less): involves main bronchus, 2 cm or more distal to the carina; invades visceral pleura (PL1 or PL2); associated with atelectasis or obstructive pneumonitis that extends to the hilar region but does not involve the entire lung
- T2a Tumor more than 3 cm but 5 cm or less in greatest dimension
- T2b Tumor more than 5 cm but 7 cm or less in greatest dimension

- T3 Tumor more than 7 cm or one that directly invades any of the following: parietal pleural (PL3), chest wall (including superior sulcus tumors), diaphragm, phrenic nerve, mediastinal pleura, parietal pericardium; or tumor in the main bronchus less than 2 cm distal to the carina' but without involvement of the carina; or associated atelectasis or obstructive pneumonitis of the entire lung or separate tumor nodule(s) in the same lobe
- T4 Tumor of any size that invades any of the following: mediastinum, heart, great vessels, trachea, recurrent laryngeal nerve, esophagus, vertebral body, carina, separate tumor nodule(s) in a different ipsilateral lobe

Distant Metastasis (M)

- MO No distant metastasis
- M1 Distant metastasis
- M1a Separate tumor nodule(s) in a contralateral lobe, tumor with pleural nodules or malignant pleural (or pericardial) effusion²
- M1b Distant metastasis (in extrathoracic organs)

ANATOMIC STAG	E/PROG	NOSTIC	GROUPS
Occult Carcinoma	TX	No	Mo
Stage 0	Tis	No	Mo
Stage IA	T1a	No	Mo
	T1b	No	Mo
Stage IB	T2a	No	Mo
Stage IIA	T2b	No	Mo
	T1a	N1	Mo
	T1b	N1	Mo
	T2a	N1	Mo
Stage IIB	T2b	N1	Mo
	T3	No	Mo
Stage IIIA	T1a	N2	Mo
	T1b	N2	Mo
	T2a	N2	Mo
	T2b	N2	Mo
	T3	N1	Mo
	T3	N2	Mo
	T4	No	Mo
	T4	N1	Mo
Stage IIIB	T1a	N3	Mo
	T1b	N3	Mo
	T2a	N3	Mo
	T2b	N3	Mo
	T3	N3	Mo
	T4	N2	Mo
	T4	N3	Mo
Stage IV	Any T	Any N	M1a
	Anv T	Any N	M1b

Notes

- The uncommon superficial spreading tumor of any size with its invasive component limited to the bronchial wall, which may extend proximally to the main bronchus, is also classified as T1a.
- Most pleural (and pericardial) effusions with lung cancer are due to tumor. In a few patients, however, multiple cytopathologic examinations of pleural (pericardial) fluid are negative for tumor, and the fluid is nonbloody and is not an exudate. Where these elements and clinical judgment dictate that the effusion is not related to the tumor, the effusion should be excluded as a staging element and the patient should be classified as MO.

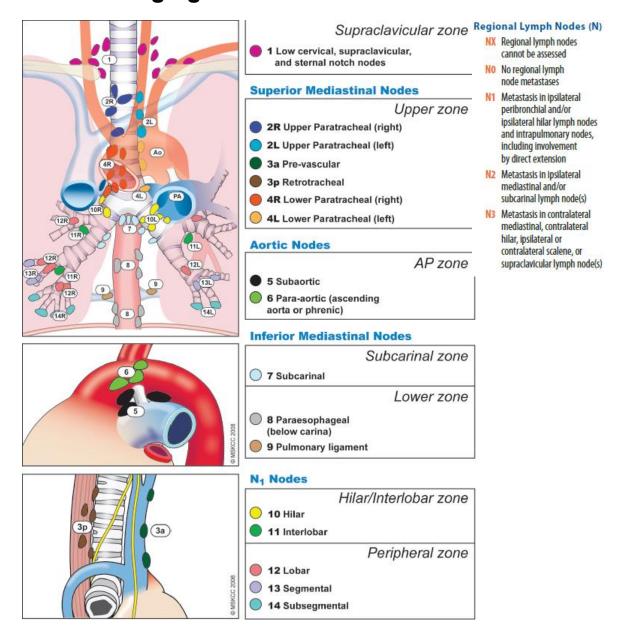
If you have any questions about how to complete this form please contact the Streamline L Trial Coordinator on: 020 7679 9891





Additional instructions for completing forms

WB-MRI Imaging Booklet Guidance



If you have any questions about how to complete this form please contact the Streamline L Trial Coordinator on: 020 7679 9891





Streamline L	Trial Number	STL-	Patient Initials	
	Site			

WB-MRI Imaging Booklet 1/15

Diffusion and T1 sequences
Images available? (Please tick) Diffusion: Yes No No No
(If neither sequence is available move to WB-MRI Imaging Booklet 6/15 - Diffusion, T1 and T2 sequence)
Total time to report diffusion and T1 images (not including CRF completion time) - (Minutes)
Diffusion weighted image sequences quality- Please tick Good Adequate Poor
T1 sequence quality- Please tick Good Adequate Poor
Primary tumour identified? Yes No If no, skip to N stage below
Primary Tumour
Location- please tick RUL RML RLL LUL LUL LLL
Max dimension (cm)
T Stage
Confidence – Please tick 1 – low 2-adequate 3-equivocal 4-good 5-excellent
Stage- Please tick Equivocal State likely stage(s)
T1a T2a T3
T1b
N Stage
Confidence- Please tick 1- low 2-adequate 3-equivocal 4-good 5-excellent
Stage- Please tick Equivocal State likely stage(s)
NO N2 NX
N1 N3





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WB-MRI Imaging Booklet 2/15

Diffusion and T1 sequences			
Local Nodal Si	tes		
Are all local node	e sites negative (1-Definitely not present)?		
Yes	do not complete table below		
No	tick confidence for every site		

Confidence within main classification as negative, equivocal or positive - Please tick	Negative 1- definitely not present 2- probably not present		Equivocal 3- possibility not present 4- possibly present		Positive 5- probably present 6- definitely present	
	Ne	gative	Equivocal		Positive	
	1	2	3	4	5	6
Supraclavicular, low cervical and sternal notch						
Upper paratracheal (right)						
Upper paratracheal (left)						
Pre vascular						
Retrotracheal						
Lower paratracheal (right)						
Lower paratracheal (left)						
Subaortic						
Para-aortic						
Subcarinal						
Paraeosophageal (below carina)						
Pulmonary ligament						
Hilar (right)						
Hilar (left)						
Interlobar (right)						
Interlobar (left)						
Lobar (right)						
Lobar (left)						
Segmental (right)						
Segmental (left)						
Subsegmental (right)						
Subsegmental (left)						





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WB-MRI Imaging Booklet 3/15

Diffusion and T1 sequences

Include metastatic deposits only -If second primary site is present please state in the comments box at the end of the CRF 15/15

Overall confidence within main classification as negative, equivocal or positive	Negative 1- definitely r 2- probably r		Equivocal 3- possibility 4- possibly p	not present present	Positive 5- probably p 6- definitely p	
- Please tick	Negative		Equ	ivocal	Positive	
	1	2	3	4	5	6
1. All sites– M1a (tick diagnostic confidence)						
2. All sites– M1b (tick diagnostic confidence)						
3. Non-skeletal– all sites (tick diagnostic confidence)						
4. Skeletal– all sites (tick diagnostic confidence)						





WB-MRI Imaging Booklet 4/15

Diffusion	and 1	Γ1 seq	uenc	es						
Are all Non Sk	eletal sites ı	negative (1-	Definitely	not prese	nt) for met	astasis?				
Yes	do not compl	ete the table be	elow							
No	tick confiden	ce for every site	е							
Confidence within main classification as negative, equivocal or positive - Please tick	2- probably	not present not present ative	-		Positive 5- probabl 6- definite Pos 5	ly present	Size of largest organ deposit (mm)	Size of second largest organ deposit (mm)	Number of additional deposits ≥6mm (if ≤10 state number. If >10 state >10. If not applicable put	Number of additional deposits <6mm (if ≤10 state number. If >10 state >10. If not applicable put
								put N/A	N/A)	N/A)
Brain										
Lung (L)										
Lung (R)										
Pleura (L)										
Pleura (R)										
Liver (left lobe)										
Liver (right lobe)										
Spleen										
Adrenal (L)										
Adrenal (R)										
Kidney (L)										
Kidney (R)										
Pancreas										
Mesentery/ peritoneum										
Bowel										
Soft tissue neck/ chest										
Soft tissue abdomen/pelvis										
Nodal – Please state										
Other – Please state										





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WB-MRI Imaging Booklet 5/15

Confidence within main classification as negative, equivocal or	2- probably	not present not present	3- possibility not		6- definitely present		Size of largest organ deposit	Size of second largest organ deposit (mm)	Number of additional deposits ≥6mm	Number of additional deposits <6mm (if ≤10 state
positive - Please tick	Neg 1	ative 2	Equi 3	vocal 4	Pos 5	6		If not applicable put N/A	number. If >10 state >10. If not applicable put N/A)	number. If >10 state >10. If not applicable put N/A)
Skull Cervical spine									,	
horacic spine										
umber spine										
Pelvis										
Sternum										
Clavicle/Scapula (L)										
Clavicle/Scapula (R)										
Ribs (L)										
Ribs (R)										
Other– Please State										





	Patient Initials
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WB-MRI Imaging Booklet 6/15

Diffusion T1 and T2 sequences
Images available? – Please tick T2: Yes No (If sequence is not available move to WB-MRI Imaging Booklet 11/15 - Diffusion, T1, T2 and contrast enhanced sequence)
Additional time to report T2 images (not including CRF completion time) (Minutes)
T2 sequence quality Good Adequate Poor Poor Please tick
Primary tumour identified? Yes No If no, skip to N stage below
Primary Tumour
Location- please tick RUL RML RLL LUL LUL LLL
Max dimension (cm)
T Stage
Confidence- Please tick 1- low 2-adequate 3-equivocal 4-good 5-excellent
Stage- Please tick Equivocal State likely stage(s)
T1a T2a T3
T1b T2b T4
N Stage
Confidence- Please tick 1- low 2-adequate 3-equivocal 4-good 5-excellent
Stage- Please tick Equivocal State likely stage(s)
NO N2 NX
N1 N3





Streamline L	Trial S T L -	Patient Initials
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WB-MRI Imaging Booklet 7/15

Diffusion T1 and T2 sequences	
Local Nodal Sites	
Are all local node sites negative (1-Definitely not present)?	
Yes do not complete table below	
No tick confidence for every site	
	_

Confidence within main classification as negative, equivocal or positive – Please tick	Negative 1- definitely not present 2- probably not present		Equivocal 3- possibility 4- possibly	y not present present	Positive 5- probably present 6- definitely present		
	Ne	gative	Equ	ivocal	Positive		
	1	2	3	4	5	6	
Supraclavicular, low cervical and sternal notch							
Upper paratracheal (right)							
Upper paratracheal (left)							
Pre vascular							
Retrotracheal							
Lower paratracheal (right)							
Lower paratracheal (left)							
Subaortic							
Para-aortic							
Subcarinal							
Paraeosophageal (below carina)							
Pulmonary ligament							
Hilar (right)							
Hilar (left)							
Interlobar (right)							
Interlobar (left)							
Lobar (right)							
Lobar (left)							
Segmental (right)							
Segmental (left)							
Subsegmental (right)							
Subsegmental (left)							





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WB-MRI Imaging Booklet 8/15

Diffusion T1 and T2 sequences

Include metastatic deposits only -If second primary site is present please state in the comments box at the end of the CRF 15/15

Overall confidence within main classification as negative, equivocal or positive – Please tick	Negative 1- definitely 2- probably		Equivocal 3- possibility 4- possibly	y not present present	Positive 5- probably present 6- definitely present		
	Negative		Equ	ıivocal	Positive		
	1	2	3	4	5	6	
1. All sites– M1a (tick diagnostic confidence)							
2. All sites– M1b (tick diagnostic confidence)							
3. Non-skeletal– all sites (tick diagnostic confidence)							
4. Skeletal– all sites (tick diagnostic confidence)							

Please return to: Streamline L Trial Coordinator, CR UK & UCL Cancer Trials Centre, 90 Tottenham Court Road, London, W1T 4TJ CRF Template V1- 19 Oct 2010 Modified for Streamline L on 03/07/2014 v3.0 For Office use only Date form received:

Initials:		





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WB-MRI Imaging Booklet 9/15

Diffusion	T1 and T2 s	sequences	6				
Are all Non Sko	eletal sites negative (1-	Definitely not prese	ent) for metastasis?				
Yes	do not complete the table be	elow					
No	tick confidence for every sit	е					
_							
Confidence	Negative	Equivocal	Positive	Size of	Size of	Number of	Number of

Confidence within main classification as negative,	Negative 1- definitely not present 2- probably not present		Equivocal 3- possibility not present 4- possibly present		Positive 5- probably present 6- definitely present		Size of largest organ deposit	Size of second largest organ deposit	Number of additional deposits ≥6mm	Number of additional deposits <6mm
equivocal or positive	Nega	ative	Equi	vocal	Pos	sitive	(mm)	(mm)	(if ≤10 state number.	(if ≤10 state number.
– Please tick	1	2	3	4	5	6		If not applicable put N/A	If >10 state >10. If not applicable put N/A)	If >10 state >10. If not applicable put N/A)
Brain										
Lung (L)										
Lung (R)										
Pleura (L)										
Pleura (R)										
Liver (left lobe)										
Liver (right lobe)										
Spleen										
Adrenal (L)										
Adrenal (R)										
Kidney (L)										
Kidney (R)										
Pancreas										
Mesentery/ peritoneum										
Bowel										
Soft tissue neck/ chest										
Soft tissue abdomen/pelvis										
Nodal – Please state										
Other – Please state	-									





Patient Initials

WB-MRI Imaging Booklet 10/15

Negative Positive Positive	No Confidence within main classification as	tes negative do not complete tick confidence Negative 1- definitely 1 2- probably r	table below for every site	Equivoca 3- possibi present	al lity not	Positive 5- probab	ly present	Size of largest organ deposit	Size of second largest organ	Number of additional deposits ≥6mm	Number of additional deposits
Negative				+- possibi	y present				deposit		
1 2 3 4 5 6	positive	Nega	tive	Equi	vocal	Pos	itive	(mm)		number.	number.
Cervical spine	– Please tick	1	2	3	4	5	6		applicable	>10. If not applicable	>10. If not applicable
Thoracic spine	Skull										
Lumber spine Pelvis Sternum Olavicle/Scapula (L) Clavicle/Scapula (R) Olavicle/Scapula (R) Ribs (L) Ribs (R)	Cervical spine										
Pelvis	Thoracic spine										
Sternum Clavicle/Scapula (L) Clavicle/Scapula (R) Clavicle/Scapula (R) Ribs (L) Ribs (R)	Lumber spine										
Clavicle/Scapula (L)	Pelvis										
Clavicle/Scapula (R)	Sternum										
Ribs (L) Ribs (R)	Clavicle/Scapula (L)										
Ribs (R)	Clavicle/Scapula (R)										
	Ribs (L)										
Other- Please State	Ribs (R)										
	Other– Please State										





Streamline L	Trial Number	T	L –			Patient Initials			
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WB-MRI Imaging Booklet 11/15

Final report - All sequences: Diffusion T1 and T2 and contrast enhanced
Images available? – Please tick Contrast enhanced: Yes No (If sequence is not available do not complete the rest of the form. Note there is a comment box at the end of this form for your use)
Additional time to report contrast enhanced images (not including CRF completion time) (Minutes)
Post contrast image quality- Please tick Good Adequate Poor
Primary tumour identified? Yes No If no, skip to N stage below
Primary Tumour
Location- please tick RUL RML RLL LUL LLL LLL
Max dimension (cm)
T Stage 1- low 2-adequate 3-equivocal 4-good 5-excellent
Confidence- Please tick
Stage- Please tick Equivocal State likely stage(s)
T1a T2a T3
T1b
N Stage
Confidence- Please tick 1- low 2-adequate 3-equivocal 4-good 5-excellent
Stage- Please tick Equivocal State likely stage(s)
NO N2 NX NX
N1 N3





Streamline L	Trial S T L -	Patient Initials
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WB-MRI Imaging Booklet 12/15

Final report - All Diffusion T1 and	sequences: T2 and contrast enhanced
Local Nodal Sites	
Are all local node sites nega	ative (1-Definitely not present)?
Yes do not comp	lete table below
No tick confider	nce for every site

Confidence within main classification as negative, equivocal or positive - Please tick	Negative 1- definitely not present 2- probably not present Negative 1 2		Equivocal 3- possibility not present 4- possibly present Equivocal 3 4		Positive 5- probably present 6- definitely present Positive	
					5	6
	'	2		7	3	U
Supraclavicular, low cervical and						
Upper paratracheal (right)						
Upper paratracheal (left)						
Pre vascular						
Retrotracheal						
Lower paratracheal (right)						
Lower paratracheal (left)						
Subaortic						
Para-aortic						
Subcarinal						
Paraeosophageal (below carina)						
Pulmonary ligament						
Hilar (right)						
Hilar (left)						
Interlobar (right)						
Interlobar (left)						
Lobar (right)						
Lobar (left)						
Segmental (right)						
Segmental (left)						
Subsegmental (right)						
Subsegmental (left)						





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WB-MRI Imaging Booklet 13/15

Final report - All sequences: Diffusion T1 and T2 and contrast enhanced

Include metastatic deposits only -If second primary site is present please state in the comments box at the end of the CRF 15/15

Overall confidence within main classification as negative, equivocal or positive	Negative 1- definitely not present 2- probably not present Negative		Equivocal 3- possibility not present 4- possibly present Equivocal		Positive 5- probably present 6- definitely present Positive	
- Please tick						
	1	2	3	4	5	6
1. All sites— M1a (tick diagnostic confidence)						
2. All sites– M1b (tick diagnostic confidence)						
3. Non-skeletal– all sites (tick diagnostic confidence)						
4. Skeletal– all sites (tick diagnostic confidence)						





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WB-MRI Imaging Booklet 14/15

Final report - All sequences: Diffusion, T1, T2 and contrast enhanced										
Are all Non S	keletal sites	negative (1	1-Definitel	y not pres	ent) for me	etastasis?				
Yes	do not compl	lete table belo	w							
No _	J .	ce for every si								
Confidence within main classification as negative, equivocal or positive – Please tick	Negative 1- definitely not present 2- probably not present		Equivocal 3- possibility not present 4- possibly present		Positive 5- probably present 6- definitely present		Size of largest organ deposit (mm)	Size of second largest organ deposit (mm)	Number of additional deposits ≥6mm (if ≤10 state number.	Number of additional deposits <6mm (if ≤10 state number.
	Negative		Equivocal		Positive					
	1	2	3	4	5	6		If not applicable put N/A	If >10 state >10. If not applicable put N/A)	If >10 state >10. If not applicable put N/A)
Brain										
Lung (L)										
Lung (R)										
Pleura (L)										
Pleura (R)										
Liver (left lobe)										
Liver (right lobe)										
Spleen				1						
Adrenal (L)										
Adrenal (R)				1						
Kidney (L)										
Kidney (R)										
Pancreas										
Mesentery/ peritoneum										
Bowel										
Soft tissue neck/ chest										
Soft tissue abdomen/pelvis										
Nodal – <i>Please state</i>										
Other – Please state										
	<u> </u>									1





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WB-MRI Imaging Booklet 15/15												
Final report - All sequences: Diffusion, T1, T2 and contrast enhanced Are all Skeletal sites negative (1-Definitely not present) for metastasis? Yes do not complete table below No tick confidence for every site												
Confidence within main classification as negative,		ely not present oly not present	Equivocal 3- possibility not present 4- possibly present		Positive 5- probably present 6- definitely present		Size of largest organ deposit	Size of second largest organ deposit	Number of additional deposits ≥6mm	Number of additional deposits <6mm		
equivocal or positive	Negative		Equivocal		Positive		(mm)	(mm)	(if ≤10 state number.	(if ≤10 state number.		
– Please tick	1	2	3	4	5	6		If not applicable put N/A	If >10 state >10. If not applicable put N/A)	If >10 state >10. If not applicable put N/A)		
Skull												
Cervical spine												
Thoracic spine												
Lumber spine												
Pelvis												
Sternum												
Clavicle/Scapula (L)												
Clavicle/Scapula (R)												
Ribs (L)												
Ribs (R)												
Other– Please State												
Additional Comments (e.g. 2nd primary) Completed by: CRFs should only be completed by appropriately qualified personnel detailed on the site delegation log												
, <u> </u>					D-4-) D M	<u>M M Y</u>	<u> </u>	Y		
Signature:					Date comple	ted:						