Supplement 2 - Tables 1 to 10

General information

	Institution			Positio	n held	
Academic Hospital	General hospital	Oncology Centre	Neuro- radiologist	General radiologist	Trainee radiologist	Other profession
58.7 (129)	37.9 (83)	14.6 (32)	80 (176)	9.5 (21)	5.9 (13)	4.5 (10)
1	Hospital services			Physicist	support	
Neurosurgery	Radiotherapy	Neuro- oncology	None	General phys	icist N	europhysicist
84.5 (186)	81.4 (179)	76.4 (168)	39.5 (87)	35.5 (78)		23.6 (52)

Table 1 Demographic data and hospital services at participating institutions. Results are shown as % of answers (absolute number of answers).

Structural MRI

Structurar	IVELLE										
Glioma	primary diag	gnosis (MRI	per week)		Glion	na follow up (MRI per week)					
< 1 stud	< 1 study 1-5 studies > 5 studies			< 5 s	studies	5-10	studies	> 10 studies			
16.4 (3	6) 54.	1 (119)	28.6 (63)	26.4	4 (58)	34.5 (76)		37.3 (82)			
Pi	rotocol durat	ion (in minu	tes)		Ro	utine struc	tural sequen	ces			
< 20	20-30	31-60	> 60	T2w	FLAIR	T1w	T1w+C	DWI	T2*/SWI		
5 (11)	45.9 (101)	46.4 (102)	2.7 (6)	95.5 (210)	98.6 (217)	99.1 (218)	99.1 (218)	99.1 (218)	65 (143)		

Table 2 Structural imaging practices in Europe. Results are shown as % of answers (absolute number of answers).

Volumetric Imaging

	0 0								
	Which 3D s	sequences	do you use	?		2D only use	ers wishing 3	D acquisition	
T2w	FLAIR	T1w	T1w+C	T2*/SWI	T2w	FLAIR	T1w	T2*/SWI	Other
3.9 (7)	31.1 (56)	9.4 (71)	98.3 (177)	15.6 (28)	30.8 (8)	65.4 (17)	69.2 (18)	15.4 (4)	19.2 (5)
T1w	sequence(s)	used to de	pict enhan	cement	C	omfortable v	vith FSPGR/	MPRAGE on	ly?
2D-SE	FSPGF MPRAC	- 31	D-SE	Other	Ye	S	No	Don	't know
52 (111)	72.2 (15	59) 12.	8 (28)	8.8 (20)	40.5 ((89)	44.5 (98)	15	5 (30)

Table 3 Volumetric imaging. Results are shown as % of answers (absolute number of answers).

Diffusion-weighted MRI Assessment of ADC map Visual only ROI comparison Advanced analysis 78.2 (172) 17.7 (39) 3.2 (7)

Table 4 Respondents' practices for ADC assessment. Results are shown as % of answers (absolute number of answers).

Perfusion M	RI (pMRI)										
			When	do you ac	quire pMl	RI?					
Always	in glioma	Primary	diagnosis	only	Foll	ow up on	ly	Upon indica	tion only		
49.1	(108)	1	0.9 (24)			3.6 (8)		21.4 (<i>47)</i>		
	Reas	ons for using	pMRI				pMRI pro	tocol duratio	n		
For clinical diagnosis	Biops guidar		o guide herapy	Mainly	research	≤5 m	ins ≤2	2 mins	Don't know		
79.7 (149)	46 (8	6) 6	1.5 (115)	13.	4 (25)	83.5 (71) 4:	5 (38)	5 (4)		
			Reasons f	or always	acquiring	pMRI					
	Ιv	vant it to be av	ailable wh	en I need	it			43.6 (6	1)		
		I (almost) alv	ways find i	t useful				55.7 (78)			
	It i	mpacts patient		-	nt			56.4 (7	·		
		Clinicians	-					7.9 (11	_		
	I acquire it for	r logistical rea			ed protocols	s)		30 (42			
			arch purpo					24.3 (3			
		intain radiogra	phers' leve	el of exper	rience			15.7 (2	2)		
	pMR	I method					Preload	d			
DSC	DCE	ASL	≥ 2	methods	Ye	es	No	D	on't know		
81.8 (153)	29.4 (55)	12.3 (23) 21	.4 (40)	46.5	(87)	46 (86))	7.5 (14)		
Prelo	ad bolus size (of typical con	trast dose	e)	Tot	al contra	st given (of ty	pical contras	t dose)		
1/3	1/2	Entl	on't now	Other	Single	1+1/3	3 1+1/2	Double	Don't know		
42.5 (37)	16.1 (14) 1	0.3 (9) 11.	5 (10) 1	19.5 (17)	53.8 (99)	13 (24	8.2 (15)	14.7 (27)	7.6 (14)		
pMRI analysis						How do	you assess gli	oma perfusio	n?		
Scanner software	NordicICE	Olea	(Other	Qualita onl	-	ROI compar NAWM		er technique		
78.5 (146)	4.8 (9)	4.8 (9)	7	7 (13)	43.5 ((81)	51.1 (95))	5.4 (10)		

Table 5 Perfusion MRI (pMRI). Results are shown as % of answers (absolute number of answers).

MR spectroscopy (MRS)

		V	When do you a	equire MRS?		
Always in glioma		Primary diag	nosis only	Follow up	only Upon in	dication only
21 (46)	22.4 (4	19)	1.8 (4)	35	5.2 (77)
	Reasons fo	r using MRS			MRS protocol duration	
For clinical diagnosis	Biopsy guidance	To guide management	Mainly research	≤ 15 mins	≤10 mins	Don't know
87.5 (154)	26.7 (47)	46.6 (82)	10.8 (19)	75.9% (60)	59.5 (47)	10.1 (8)
	MRS	method			TE	
SVS MVS/CSI		CSI	Short (30 ms)	Intermediate (144 ms)	Long (270 ms)	
75 (132) 60.8 (107)		107)	68.8 (119)	67.1 <i>(117)</i>	13.3 (23)	

Table 6 MRS in glioma imaging. Results are shown as % of answers (absolute number of answers). Comment: In free text answers, approximately one third of users expressed doubts about the clinical value and impact of MRS, whereas others reported a moderate to high impact. MRS reporting was most commonly undertaken together with structural MRI reporting.

Functional MRI (fMRI)

1 unctiona	(11)								
	Do you u	ise fMRI?			Why do you	use fMRI?				
Yes No Import into navigation			Pre-surgical	Guide man	agement	Research				
49.8 (109	49.8 (109) 50.2 (110) 62.4 (68)		62.4 (68)	95.4 (104)	16.5 ((18)	15.6 (17)			
	fMRI proto	col duratio	n	Which function(s)	do you assess with	n fMRI (dependin	ng on lesion site?)			
< 15 mins	15-30 mins	>30 mins	Don't know	Language lateralisation	Language localisation	Motor cortex localisation	Visual cortex localisation			
45.1 (23)	21.6 (11)	23.5 (12)	9.8 (5)	90.8 (99)	79.8 (87)	97.2 (106)	42.4 (46)			

Table 7 fMRI. Results are shown as % of answers (absolute number of answers)

Diffusion tensor imaging (DTI)

I	Do you use DTl	[?		Why do you use DTI?	
Yes	No	Import into navigation	Pre-surgical	Guide management	Research
63.9 (140)	36.1 (79)	59.3 (83)	87.9 (123)	22.1 (31)	20.0 (28)

DTI protoc	col duration	V	Which function	ch function(s) do you assess with DTI (depending on lesion site?)					
≤10 mins	Don't know	Cortico- spinal tract	Arcuate Fasciculus	Optic radiation	IFOF	Uncinate fasciculus	FA maps	Other	
92.5 (50)	11.1 (6)	94.2 (131)	61.2 (85)	54.0 (75)	25.9 (36)	28.8 (40)	48.9 (68)	3.6 (5)	

Table 8 DTI. Results are shown as % of answers (absolute number of answers).

Specific clinical situations

Used fo	Used for tumour progression vs. radiation necrosis					Glioma follow up assessment			
pMRI	Structural	MRS	DWI	Other	Qualitative	RANO	Volumetric	Segmentation	
55.7 (122)	20.1 (44)	5.9 (13)	4.6 (10)	13.7 (30)	60.6 (132)	27.1 (59)	7.3 (16)	2.8 (6)	
	Early po	stoperative	imaging		Reporting				
< 24 hrs	< 48 h	nrs <	72 hrs	CT only	Reporting a percentage of Use of a reporti completeness of template resection			Protocol development together with clinicians	
16.1 (35)	33.5 (7	73) 12	.4 (72)	7.3 (16)	17.2 (28)	2	23.3 (51)	24.2 (53)	

Table 9 Clinical situations. Results are shown as % of answers (absolute number of answers).

Technical									
MRI Post-processing									
	pMRI	MRS	fMRI	DTI					
Radiologist/radiology fellow	71.5 (133)	62.5 (110)	61.5 (67)	64 (89)					
Resident in training	22.6 (42)	18.2 <i>(32)</i>	15.6 (17)	10.1 (14)					
Technologist/radiographer	21.5 (40)	31.3 (55)	19.3 (21)	20.1 (28)					
Physicist	8.1 (15)	20.5 (36)	22.9 (25)	22.3 (31)					
Researcher/research fellow	5.4 (10)	6.3 (11)	15.6 (17)	14.4 (20)					
Other	7 (13)	5.7 (10)	6.4 (7)	8.6 (12)					
	Reasons for non-use	e							
	pMRI	MRS	fMRI	DTI					
I have no technical MRI facility	42 (14)	46.5 (20)	49.5 (54)	40.5 (32)					
I don't know how to implement it	15.2 (5)	11.6 (5)	23.9 (26)	13.9 (11)					
I have no post-processing facility	39.4 (13)	32.6 (14)	34.9 <i>(38)</i>	35.4 (28)					
I am not trained to interpret	27.3 (9)	34.9 (15)	40.4 (44)	22.8 (18)					
Clinicians do not request it	36.4 (12)	32.6 (14)	35.8 <i>(39)</i>	32.9 (26)					
I don't find it useful	0 (0)	23.3 (10)	6.4 (7)	10.1 (8)					
It is not reimbursed	15.2 (5)	14 (6)	11 <i>(12)</i>	12.7 (10)					
There is not enough time to perform it	21.2 (7)	16.3 (7)	33.9 (37)	25.3 (20)					
Other	3 (1)	2.3 (1)	11 <i>(12)</i>	7.6 (6)					

Table 10 Advanced imaging data post-processing and reasons stated for non-use of modalities. Results are shown as % of answers (absolute number of answers).

General comment: A number of questions included the option 'other'. Please note, if this was answered by few individuals (< 5%), percentages are not quoted in the results. A small numbers of free text answers could not be deciphered, so these were excluded from the analysis.