SurveyGrid	Neurosurgery - Low Grade Glioma	Electric Pa
uestionnair	e European Low Grade Glioma Network	
Type of Hosp		
☐ academic What is the to	□ communal otal amount of diffuse low-grade gliomas (dLGG) in your practice per v	☐ private (including private practice rear?
_	tal amount of diffuse low-grade gliomas (dLGG) in your practice per y	
_	— *** ***	
_	otal amount of diffuse low-grade gliomas (dLGG) in your practice per y	
What is the to	otal amount of diffuse low-grade gliomas (dLGG) in your practice per y	
What is the to Country of pra Do you have	otal amount of diffuse low-grade gliomas (dLGG) in your practice per y actice:	
Country of pra	etal amount of diffuse low-grade gliomas (dLGG) in your practice per your actice: a dedicated "LGG-program" in your practice?	
Country of pra Do you have Yes When do you	extal amount of diffuse low-grade gliomas (dLGG) in your practice per your catice: a dedicated "LGG-program" in your practice? No discuss a case in a dedicated interdisciplinary board (tumor-board)?	ear?
Country of practice. Do you have yes when do you Never	etal amount of diffuse low-grade gliomas (dLGG) in your practice per your actice: a dedicated "LGG-program" in your practice?	

□ Neurology (Neurooncologists)

☐ Yes, if the imaging was done in a

neuroradiology center (University

☐ Perfusion weighted Imaging (PWI)

☐ If available, we use a 3T scanner

☐ Nuclear Medicine

Hospital)

□ T2

□ 3D-Flair

☐ Perfusion

☐ 1.6 - 3 mm

☐ 1.6 - 3 mm

was positive)

☐ fMRT Do you always use the identical MRI scanner for one patient during follow-up investigations?

□ No

□ No

☐ No If the initial amino acid PET was negative, do you perform follow-up amino acid PET imaging? ☐ No

What is the standard imaging slice thickness for T1 imaging in LGG?

What is the standard imaging slice thickness for T2 imaging in LGG?

Do you perform amino acid PET in suspected low-grade glioma?

For assessment of treatment response and progression you use?

Do you obtain 1H spectroscopy of both hemispheres?

☐ Medical Oncology

☐ Yes, we use any recent MRI

☐ Diffusion weighted Imaging (DWI)

☐ always MRI + aaPET (if initial PET

was positive)

☐ single voxel 1H-spectroscopy

☐ resting stare fMRT

☐ No, 1,5 T is acceptable

☐ Mostly yes

☐ 3 mm

☐ 3 mm

□ Neuroradiology

☐ TIRM

□ T2*

□ Neurosurgery

☐ FLAIR

☐ ADC

☐ Yes

☐ Mostly no

☐ <1.5 mm

☐ <1.5 mm
</p>

☐ Yes

☐ Yes

☐ Yes

☐ MRI only

initial PET)

☐ Yes. always

□ Neuropathology

□ Radiation Oncology

In your routine practice, do you use external imaging?

What is contained in your standard imaging protocol?

☐ No, we always scan our own protocol.

☐ Susceptibility weighted Imaging (SWI)

☐ T1 with / without Gd-contrast

☐ multivoxel 1H-spectroscopy

Do you always use a 3T scanner?

☐ always MRI + aaPET (regardless of

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☐ amino acid PET only (if initial PET

SurveyGrid		Neurosurgery - Low Grade Glioma		Electric Paper EVALUATIONSSYSTEME					
Questionnaire European Low Grade Glioma Network [Fortsetzung]									
	letect anaplastic transforma								
☐ T1 w/o cor	•	Perfusion weighted imaging	☐ 1H spectroscopy						
FET-PET	o specify	☐ other							
If other, pleas	е ѕреспу								
How do you rate the following combination of characteristics in your department: (1) a decrease of the area of non-enhancing lesion on T2 or FLAIR imaging between 25% - 50% compared with baseline; (2) no new lesions, no new T2 or FLAIR abnormalities apart from those consistent with radiation effect, and no new or increase enhancement; and (3) patients should be on a corticosteroid dose that should not be greater than the dose at time of baseline scan, and should be stable or improved clinically.									
☐ Complete☐ Stable Dise	•	☐ Partial Response ☐ Progression	☐ Minor Response						
	ze DTI for 3D-fiber tracking	in every patient?							
☐ Yes What softwar	re do you use for analysis c	☐ No f DTI?							
Which mather ☐ Unknown	matical model do you use fo	or analysis? Probabilistic approach (including the uncertainty of the estimation, which results in probability maps representing the likelihood of a voxel being part of a fiber and provides the multiple possible fiber directions emanating from each seed)	Deterministic approa tractography aims to and, in practical term of as generating/reco fiber from each seed	model the data s, can be thought enstructing one					
☐ Atlas base		•							
If you do fMR ☐ clinical onl	I, is it only for clinical answ	ers or research? research only	☐ both clincal and res	earch					
for didaction	-	research only	botti ciiricai and res	Carcii					
Which fMRI p	aradigms do you use routir	nely?							
	adigm (i.e. finger tapping)	somatosensory stimulation	speech - word genera	ition / naming task					
If other, pleas	ynonyms / odd one out e specify	speech - semantic comparison	☐ other						
Do you routin ☐ Yes	ely analyze resting state fN	IRI? □ No							
	nave to choose between fM would you prefer?	RI, navigated transcranial stimulation (nTN	IS) and direct cortical st	imulation					
☐ fMRT		□ nTMS	DCS						
If you do navi		stimulation (nTMS), is it only for clinical and ☐ research only	swers or research? ☐ both clinical and res	search					
	ur decision on nTMS influer		- "						
☐ more awal	ke surgery tive surgery or biopsy	☐ more intraoperative monitoring☐ less awake surgery	☐ more resective surg☐ less intraoperative i						
	luence at all	icos awake surgery		nomioning					
-	ne exact RANO criteria (var	den Bent, Wefel et al. 2011) for LGG?	- almost a						
☐ always ☐ never		☐ mostly	☐ almost never						
	s assess follow-up imaging	by:							
	analysis (segmentation)	volumetric analysis (approximation)	☐ linear measuremen the MRI	t in 3 axes of					
deformation changes in	n of the lesions / shape								

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SurveyGrid	Neurosurgery - Low Grade Glioma		Electric Paper EVALUATION SSYSTEME					
Questionnaire European Low Gr	ade Glioma Network Fortsetzung	7]						
Questionnaire European Low Grade Glioma Network [Fortsetzung]								
Who does the measurements? ☐ Neurosurgeon	☐ Neurooncologist	☐ Neuroradiologist						
☐ All members of the team								
Are measurements always done by t	he same investigator?							
☐ Yes	□ No							
What is your imaging interval in week	ks in cases of diffuse low-grade glioma (w	ithout suspected transformat	ion) with:					
no remnant								
10ml tumor remnant								
11 - 15ml tumor remnant								
> 15ml remnant								
unresectable LGG								
Does this interval vary according to t	he growth rate?							
☐ Yes	□ No							
		stigate neuroplasticity?						
Do you perform longitudinal fMRI study (e.g. before and after surgery) to investigate neuroplasticity? ☐ Yes ☐ No								
Do you combine different methodologies to increase the reliability of functional imaging - as for example fMRI or TMS and DTI?								
☐ Yes	□ No							
Do you use a databank of all MRIs in	DICOM format?							
☐ Yes, on hospital PACS	☐ Yes, on Harddrive	☐ No						
Do you use magnetoencephalograph		<u> </u>						
☐ for language mapping	for language lateralization	☐ for motor mapping						
	☐ we don't have a MEG							
What is your opinion on MEG in gene			for aliminal					
☐ we currently try to get one	I don't see any value for neuro- oncology	It is a crucial technic decision making	que for clinical					
☐ It is nice to have but you don't really need it	It is clinically not relevant but scientifically interesting, even for							
really need it	neuro-oncology							
Beyond clinical considerations, do you work with a research team involved in neuroimaging?								
☐ Yes, Biostatisticians	☐ Yes, Bioinformaticians	☐ Yes, Physicists						
Yes, Mathematicians								
			,					
Bibliography van den Bent, M. J., J. S. Wefel, D. Schiff, M. J. B. Taphoorn, K. Jaeckle, L. Junck, T. Armstrong, A. Choucair, A. D.								
Waldman, T. Gorlia, M. Chamberlain,	Waldman, T. Gorlia, M. Chamberlain, B. G. Baumert, M. A.							
Vogelbaum, D. R. Macdonald, D. A. I	Reardon, P. Y. Wen, S. M. Chang and A. H	H. Jacobs (2011). "Response	assessment in					
neuro-oncology (a report of the RANO group): assessment of outcome in trials of diffuse low-grade gliomas." The Lancet Oncology 12(6): 583-593.								

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