VASARI Imaging Evaluation Worksheet (rev 5)							
	Reviewer:		Patient # Initial				
	Baseline Study Date:		Post Op Study Date:				
Feature		Feature Description				Rating	
		L	ESION LO	CATION			
Tumor Location:	Location of	lesion epicenter.	Frontal Temporal Brainstem (select all where the select all where the	0			
Side of Tumor Epicenter:	Side of lesion	on epicenter	O Right O Center O Left	псп арргу)			
Eloquent Cortex:	Eloquent co	rtex involved (m	O Yes No				
		MORPHOLO	GY OF LES	SION SUBSTAN	CE		
Enhancement:	Contrast enhancement is defined as having all or portions of the tumor that demonstrate significantly higher signal on the postcontrast T1W images compared to precontrast T1W images.						
	If the enhar without cys scored all. I as well as n or cyst form demonstrate without sign tumor is sco	part, 2 all, N/A] nating portion of the conference of there are both ecrosis or central action, the tumores only peripheral ficant portions cored none. If the last applicable (nation) and the last applicable (nation) and last applicable (nation) and last applicable (nation) and last applicable (nation) applicable (naticino) appl	□ None	○ N/A ○ AII			
nCET:	hyperintens fluid, with c associated v	s] ng tumor is defin ity (less than the orresponding T1V with mass effect a	O Yes				
Necrosis:	(Necrosis is defined as a region within the tumor that does not enhance or shows markedly diminished enhancement, is high on T2W and proton density images, is low on T1W images, and has an irregular border)						
C		s] ell defined, round T2W signal and l	of Yes				

Cyst(s).	matching CSF signal intensity, with very thin, regular, smooth, nonenhancing or regularly enhancing walls,	○ No					
	possibly with thin, regular, internal septations						
Multifocal or Multicentric:	Multifocal is defined as having at least one region of tumor, either enhancing or nonenhancing, which is not contiguous with the dominant lesion and is outside the region of signal abnormality (edema) surrounding the dominant mass. This can be defined as those resulting from dissemination or growth by an established route, spread via commissural or other pathways, or via CSF channels or local metastases, whereas Multicentric are widely separated lesions in different lobes or different hemispheres that cannot be attributed to one of the previously mentioned pathways. Gliomatosis refers to generalized neoplastic transformation of the white matter of most of a hemisphere.	MultifocalMulticentricGliomatosisN/A					
T1/FLAIR	mor feature summary. [Mixed, expansive or filtrative]. Expansive = size of pre-contrast T1 normality = size of FLAIR abnormality. Mixed = Size of abnormality slightly less than FLAIR envelope; filtrative = Size of pre-contrast T1 abnormality much naller than size of FLAIR abnormality.						
MORPHOLOGY OF LESION MARGIN							
enhancing	[0 none, 1 thin, 2 thick, N/A] The scoring is not applicable if there is no contrast enhancement. If most of the enhancing rim is thin, regular, and has homogenous enhancement, the tumor receives a score of 1. If most of the rim demonstrates nodular and/or thick enhancement, the score is 2. If there is only solid enhancement and no rim, the score is 0.	○ None○ N/A○ Thin○ Thick					
the enhancing margin:	[0 well defined, 1 poorly defined, N/A] The scoring is not applicable (NA) if there is no contrast enhancement. If most of the outside margin of the enhancement is well defined, the tumor is scored 1, otherwise 0.	Well DefinedPoorly DefinedN/A					
Definition of the non- enhancing margin (e.g. Grade III):	[0 smooth, 1 irregular]. If most of the outside nonenhancing margin of the tumor is well defined and <i>smooth</i> (geographic), the tumor is scored 0. If the margin is ill-defined, the tumor is scored 1 - <i>irregular</i> .	SmoothIrregular					
	ALTERATIONS IN VICINITY OF LESION						
Edema:	[0 none, 1 mild, 2 moderate/severe] If no convincing edema, as demonstrated by regions of very bright T2W signal, then a score of 0 (none) is given. If there is clearly visible, bright T2W signal not associated with mass effect and architectural distortion (see nonenhancing tumor) and not extending more than 1 cm beyond the tumor margin, the score is 1 (mild). If there is more extensive, very bright T2W signal intensity, often following white-matter tracts and extending significantly beyond (>1 cm) the margins of the tumor, the edema is scored a 2 (moderate/severe).	NoneMild (< 1cm)Moderate/severe(>1 cm)					

Crosses	Edema spans white matter commissures extending into contralateral hemisphere. (exclusive of herniated ipsilateral tissue).	○ Yes○ No○ N/A
Hemorrhage:	Intrinsic hemorrhage in the tumor matrix.	O Yes No
Diffusion:	Facilitated or restricted diffusion (Based on ADC map). Equivocal or none is N/A.	FacilitatedRestrictedN/A
Pial invasion:	Enhancement of the overlying pia in continuity with enhancing or non-enhancing tumor	○ Yes○ No
Ependymal invasion:	Invasion of any adjacent ependymal surface in continuity with enhancing or non-enhancing tumor matrix - characterized by enhancement of the ependyma.	O Yes No
Cortical involvement:	Non-enhancing or enhancing tumor extending to the cortical mantle, or cortex is no longer distinguishable relative to subjacent tumor.	O Yes No
	Enhancing or nCET tumor extending into the internal capsule or brainstem.	O Yes O No
	nCET crosses into contralateral hemisphere through white matter commisures (exclusive of herniated ipsilateral tissue).	O Yes O No
Enhancing tumor Crosses Midline:	Enhancing tissue crosses into contralateral hemisphere through white matter commisures (exclusive of herniated ipsilateral tissue).	○ Yes○ No
Satellites:	[0 no, 1 yes] A satellite lesion is <i>within</i> the region of signal abnormality surrounding the dominant lesion but not contiguous in any part with the major tumor mass.	O Yes No
	Erosion of inner table of skull (possibly a secondary sign of slow growth)	O Yes No
	EXTENT OF RESECTION	
resection of enhancing	[NA, <20%, 20%-89%, 90%-99%,100%] The first postoperative scan (contrast-enhanced MR imaging) assessed for tumor residual. Scans are scored 100% resection if no contrast enhancing residual tumor isvisible. Trace tumor residual <10% of the total corresponded to the 90%-99% category. If the tumor was debulked, but substantial tumor remained, a score of 20%-89% was used. If the tumor was biopsied only, then 0%-19% is used. NA if tumor did not enhancement preoperatively.	<pre><20% 20-89% 90-99% 100%</pre>
resection of	[<20%, 20%-89%, 90%-99%,100%] Scans were scored 100% resection if no nCET tumor residual was visible. Trace tumor residual <10% of the total corresponded to the 90%-99% category. If the tumor was debulked, but substantial tumor remained, a score of 20%-89% was	<pre><20% 20-89% 90-99%</pre>

	used. If the tumor was biopsied only, then 0%-19% is used.	O 100%	
Component	Based upon comparison to pre-operative study, select which imaging features most likely correspond to the resected tissue (more than one may apply).	Enhancing tissue Edema (select all which a	Necrosis 🗏
	Submit		