

Supplementary Information

Table S1. Histopathological and molecular results obtained from material collected from different target areas with visible contrast enhancement or simultaneous tracer uptake in PET along with the final histopathological result.

Patient	Sex/Gender	T1Gad+/PET+	T1Gad+/PET-	T1Gad- /PET+	T1Gad- /Flair+/PET-	Final HP result (WHO 2021)	MGMT methylation	Codeletion 1p/19q	IDH1 mutation	IDH2 mutation	Previous irradiation	Overall Survival [months]	
1	F	WHO III	-	WHO III	WHO II	Oligodendroglioma, IDH- mutant, G3	+	+	+	—	0	79	
2	M	WHO III	-	WHO III	No tumor cells	Astrocytoma, IDH-mutant, G3 ²	+	—	+	—	0	52	
3	F	WHO III	WHO II	WHO III	WHO III	Oligodendroglioma, IDH- mutant, G3	+	+	+	—	0	78	
4	M	WHO III	-	WHO III	WHO II	Astrocytoma IDH-mutant, G3 ²	+	+	+	—	+	14	
5	F	WHO III	-	WHO IV	No tumor cells	Glioblastoma, IDH wildtype G4	+	—	—	—	0	7	
6	M	WHO IV	WHO IV	WHO IV	WHO IV	Glioblastoma, NOS G4	Not performed ₁	Not performed ₁	Not performed ₁	Not performed ₁	Not performed ¹	0	3
7	M	WHO III	-	WHO III	WHO II	Astrocytoma, IDH-mutant, G3 ²	Not performed ₁	Not performed ₁	Not performed ₁	Not performed ₁	Not performed ¹	0	13
8	M	WHO III	-	WHO IV	No tumor cells	Glioblastoma, NOS G4	Not performed ₁	Not performed ₁	Not performed ₁	Not performed ₁	Not performed ¹	0	2
9	M	WHO III	-	WHO III	WHO II	Oligodendroglioma, IDH- mutant, G3	Not performed ₁	Not performed ₁	Not performed ₁	Not performed ₁	Not performed ¹	0	64
10	M	WHO IV	-	WHO IV	No tumor cells	Glioblastoma, IDH wildtype G4	+	—	—	—	0	14	
11	M	WHO II	-	WHO II	-	Astrocytoma, NOS, G2	Not performed ₁	Not performed ₁	Not performed ₁	Not performed ₁	Not performed ¹	0	51
12	F	WHO III	-	WHO III	WHO III	Oligodendroglioma, IDH- mutant, G3	+	+	+	—	0	59	
13	M	WHO IV	-	WHO IV	-	Glioblastoma, IDH wildtype G4	+	—	—	—	0	37	
14	F	WHO II	-	WHO III	No tumor cells	Astrocytoma, IDH-mutant, G3 ²	+	—	+	—	+	54	

15	M	WHO IV	-	WHO IV WHO IV	Glioblastoma, IDH mutant G4	+	+	+	—	+	28
16	F	-	-	WHO II	No tumor cells Astrocytoma, IDH wildtype G2 ²	—	—	—	—	0	50
17	F	WHO IV	-	WHO IV -	Glioblastoma, IDH mutant G4	+	—	+	—	0	2
18	M	WHO IV	-	WHO IV	No tumor cells Glioblastoma IDH wildtype G4	—	—	—	—	0	18
19	F	WHO IV	-	WHO IV WHO III	Glioblastoma IDH wildtype G4	+	—	—	—	+	25
20	F	WHO III	-	WHO III	No tumor cells Oligodendroglioma, IDH- mutant, G3	+	+	+	—	+	52
21	F	-	-	WHO III WHO II	Oligodendroglioma, IDH- mutant, G3	+	+	+	—	0	48
22	F	WHO III	-	WHO IV WHO III	Glioblastoma NOS G4	Not performed ₁	Not performed ₁	Not performed ₁	Not performed ₁	Not performed ¹ 0	48
23	F	-	-	WHO IV WHO III	Glioblastoma IDH mutant G4	+	+	+	—	+	43

¹ Genetic tests were not performed in these patients, who were diagnosed before implementation of genetic testing. Retrospective testing was negative.

² A lack of necessary molecular information.