

Supplementary Material 1 Imaging characteristics of each individual biopsy site

Part.	Biopsy site	WHO tumor type	IDH mutated	1p/19q codeleted	WHO grade	Increased ¹⁸ F-DOPA uptake	CE	Increased rCBV
01	A	Glioblastoma			III	+	+	+
	B	“			II	+	-	+
	C	“			III	+	-	-
03	A	Astrocytoma	+		II	-	-	-
04	A	Oligodendroglioma	+	+	II	-	-	-
05	A	Glioblastoma			III	-	-	-
	B	“			III	-	-	-
	C	“			IV	-	-	-
06	A	Astrocytoma	+		III	+	+	-
	B	“	+		III	-	-	+
07	A	Glioblastoma			IV	+	+	+
	B	“			IV	+	+	+
08	A	Glioblastoma			IV	+	+	+
	B	“			II	-	+	+
09	A	Astrocytoma	+		II	-	-	-
10	A	Astrocytoma	+		III	+	-	+
	B	“	+		III	-	-	-
	C	“	+		III	+	+	-
12	A	Astrocytoma	+		III	-	-	-
	B	“	+		III	-	-	-
	C	“	+		III	-	-	-
13	A	Astrocytoma	+		III	+	+	+
	B	“	+		II	-	-	-
	C	“	+		III	-	+	-
14	A	Astrocytoma	+		III	-	-	-
	B	“	+		III	-	-	-
15	A	Astrocytoma	+		III	+	-	-
	B	“			III	-	-	-
	C	“			III	-	-	-
16	A	Glioblastoma			IV	-	-	-
	B	“			III	-	-	-
	C	“			III	-	-	-
18	A	Oligodendroglioma	+	+	II	-	-	-
	B	“	+	+	II	-	-	-
	C	“	+	+	II	-	-	-
19	A	Glioblastoma			III	+	-	+
	B	“			III	+	-	-
	C	“			III	-	-	+

CE, contrast enhancement, ¹⁸F-DOPA, [¹⁸F]-dihydroxyphenylalanine; rCBV, regional cerebral blood volume