

Supplementary Material

Table S1:1 Relation between Ki67 and epidemiological variables, immunomarkers, imaging, histopathology and clinical evolution.

Variable		n	Ki67							p value
			Mean	Standard deviation	Median	P 25	P 75	Min.	Max.	
Sex	Female	69	2.51	2.34	2.00	1.40	3.40	0.00	16.00	0.363
	Male	27	2.86	2.14	2.20	1.60	4.00	0.20	10.40	
PR	-	35	2.70	2.84	2.00	0.80	3.60	0.00	16.00	0.790
	+	57	2.56	1.96	2.20	1.40	3.20	0.40	10.40	
ER	-	92	2.58	2.31	2.10	1.40	3.40	0.00	16.00	0.626
	+	2	3.20	2.55	3.20	1.40	5.00	1.40	5.00	
AR	-	87	2.52	2.33	1.80	1.40	3.40	0.00	16.00	0.097
	+	6	3.60	2.33	2.90	2.60	4.80	1.40	7.00	
p53	-	7	2.66	1.29	2.20	1.60	4.00	0.80	4.20	0.481
	+	88	2.61	2.37	2.00	1.40	3.40	0.00	16.00	
COX-2	-	0								
	+	93	2.59	2.32	2.00	1.40	3.40	0.00	16.00	
Calcification	No	86	2.58	2.38	2.00	1.40	3.40	0.00	16.00	0.272
	Yes	10	2.79	1.38	2.90	1.80	3.60	0.40	4.80	
Edema	No	68	2.56	2.56	1.80	1.30	3.30	0.00	16.00	0.120
	Yes	28	2.73	1.45	2.50	1.60	3.60	0.40	7.00	
Recurrence	No	82	2.45	2.27	1.80	1.20	3.40	0.00	16.00	0.014
	Yes	14	3.52	2.25	3.10	2.00	3.80	1.50	10.40	
Size	Medium	27	2.66	2.02	2.20	1.40	3.60	0.40	10.40	0.577
	Large	55	2.63	2.61	2.00	1.20	3.40	0.00	16.00	

Legend: Ki67, cell proliferation index by MIB-1/Ki67 monoclonal antibody; P, percentile; PR, progesterone receptor; ER, estrogen receptor; AR, androgen receptor; p53, nuclear phosphoprotein p53; COX-2, cyclooxygenase-2; HLA-G, human leukocyte antigen G; HLA-E, human leukocyte antigen E. Note: Mann Whitney test, * Kruskal-Wallis.

Cont. Table S1: Relation between Ki67 and epidemiological variables, immunomarkers, imaging, histopathology and clinical evolution..									
Variable		n	Mean	Standard deviation	Ki67				p value
					Median	P 25	P 75	Min.	
HLA-G	-	0							
	+	90	2.65	2.34	2.20	1.40	3.40	0.00	16.00
HLA-E	-	3	1.00	1.56	0.20	0.00	2.80	0.00	2.80
	+	87	2.69	2.35	2.20	1.40	3.60	0.40	16.00
Subtypes of grade I meningiomas	Fibrous	7	1.86	0.96	2.20	0.80	2.40	0.20	2.80
	Meningothelial	67	2.62	2.53	1.80	1.40	3.40	0.40	16.00
	Transitional	14	3.36	1.78	3.80	1.60	4.80	0.40	5.60
Follow-up	Alive/death unrelated	75	2.57	2.10	2.20	1.40	3.40	0.40	16.00
	Dead	21	2.73	2.93	1.80	0.80	3.40	0.00	10.40

Legend: Ki67, cell proliferation index by MIB-1/Ki67 monoclonal antibody; P, percentile; PR, progesterone receptor; ER, estrogen receptor; AR, androgen receptor; p53, nuclear phosphoprotein p53; COX-2, cyclooxygenase-2; HLA-G, human leukocyte antigen G; HLA-E, human leukocyte antigen E. Note: Mann Whitney test, * Kruskal-Wallis.

Table S2: Percentage of Ki67 expression in series of meningiomas.

Authors, year, country	No. of cases of grade I meningiomas	Ki67: Mean \pm SD (Amplitude)/% [median]	Mean Ki67 in primary tumors [median]	Mean Ki67 in recurrent tumors [median]	p: primary vs recurrent tumor correlation
Carvalho et al., 2019, Brazil	96	2.61 \pm 2.29(0-16) [median=2.10]	2.45 [1.80]	3.52 [3.10]	Median. p=0.014
Amatya et al., 2001, Japan	109	1.5 \pm 1.3 (0 – 72)			
Konstantinidou et al., 2003, Greece	51	1.0 (0.1 – 9.2)			
Wolfsberger et al., 2004, Austria/Germany	55	3.5			
Whittle et al., 2004, Scotland (120)	Review	1.0 – 1.35	0.39 – 3.8	2.3 – 10.9	p < 0.005
Roser et al., 2004, Germany	526	3.54 \pm 4.97 (0 – 58)			
Korhonen et al., 2006, Finland	441 primary tumors	3.1 \pm 2.8			
Omulecka et al., 2006, Poland	46	3.7			
Maiuri et al., 2007, Italy	100		<	>	P = 0.0001

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Authors, year, country	No. of cases of grade I meningiomas	Ki67: Mean \pm SD (Amplitude)/% [median]	Mean of Ki67 in primary tumors [median]	Mean of Ki67 in recurrent tumors [median]	p: primary vs recurrent tumor correlation
Takei et al., 2008, USA	46	2.9 \pm 2.0 (0.35 – 8.4)			
Abry et al., 2010, Norway	Metanalysis	3.0 (1 – 16)	2.0 (0 – 20)	4.0	p < 0.05
Kandemir et al., 2010, Turkey	53	2.8 \pm 2.0			
Kärja et al., 2010, Finland/Sweden	59	(0 – 10)	3.3 \pm 0.4	3.9 \pm 0.5	p = 0.342
Shayanfar et al., 2010, Iran	63	2.98 \pm 2.27			
Abdelzaher et al., 2011, Egypt	60	2.37 \pm 1.86			P = 0.002
Babu et al., 2011, India	211	4.07 \pm 3.83	<	>	p = 0.0093
Al-Nuamy et al., 2012, Iraq	42	1.8 \pm 3.5			
Lee et al., 2013, South Korea	49	2.4 (0 – 18)			
Pavelin, 2013, Croatia	142	1.5 (0 – 13.9)			
Iplikcioglu et al., 2014, Turkey	48	3.34 \pm 3.27			
Mukhopadhyay et al., 2017, India	82	2.57 \pm 1.67			