

Supplementary Table S1.

		Indications for surgery		Treatment options		Localization and clinical manifestations		Treatment risks		Follow up		Adjuvant treatment		Results of treatment/prognosis		Diagrams		Doctor speaker	
		With	Without	With	Without	With	Without	With	Without	With	Without	With	Without	With	Without	With	Without	With	Without
DISCERN	Count	31,00	88,00	84,00	35,00	41,00	78,00	15,00	104,00	20,00	99,00	25,00	94,00	34,00	85,00	16,00	103,00	92,00	27,00
	Mean	43,91	32,63	38,30	29,02	42,66	31,84	46,75	33,96	46,17	33,43	47,47	32,40	43,84	32,26	44,73	34,15	37,34	29,54
	Median	42,80	30,80	37,10	28,00	41,20	30,80	44,80	32,20	45,90	31,60	45,80	30,80	44,90	30,80	44,30	31,80	35,50	28,60
	Standard deviation	9,44	7,15	9,17	5,25	9,31	6,67	8,84	8,12	7,90	7,92	7,34	6,76	9,29	6,84	8,46	8,52	9,21	6,34
	-95% confidence interval	40,45	31,12	36,31	27,22	39,72	30,34	41,85	32,38	42,47	31,85	44,44	31,02	40,59	30,79	40,21	32,48	35,43	27,03
	+95% confidence interval	47,37	34,14	40,28	30,83	45,60	33,34	51,64	35,54	49,87	35,01	50,50	33,79	47,08	33,74	49,24	35,81	39,24	32,05
	p	0,000		0,000		0,000		0,000		0,000		0,000		0,000		0,000		0,000	
GQS	Count	31,00	88,00	84,00	35,00	41,00	78,00	15,00	104,00	20,00	99,00	25,00	94,00	34,00	85,00	16,00	103,00	92,00	27,00
	Mean	2,87	2,29	2,59	2,09	2,85	2,22	3,00	2,36	2,95	2,34	3,09	2,27	2,94	2,24	2,78	2,39	2,54	2,09
	Median	2,80	2,30	2,60	2,00	2,80	2,20	3,20	2,40	2,90	2,40	3,20	2,20	3,00	2,20	2,60	2,40	2,50	2,20
	Standard deviation	0,67	0,61	0,66	0,60	0,59	0,62	0,71	0,64	0,55	0,66	0,61	0,59	0,57	0,61	0,64	0,67	0,67	0,59
	-95% confidence interval	2,62	2,16	2,45	1,88	2,67	2,08	2,61	2,24	2,69	2,21	2,84	2,15	2,74	2,11	2,43	2,26	2,41	1,85
	+95% confidence interval	3,12	2,42	2,73	2,29	3,04	2,36	3,39	2,48	3,21	2,47	3,34	2,39	3,13	2,37	3,12	2,52	2,68	2,32
	p	0,000		0,000		0,000		0,003		0,000		0,000		0,000		0,049		0,004	
JAMA	Count	31,00	88,00	84,00	35,00	41,00	78,00	15,00	104,00	20,00	99,00	25,00	94,00	34,00	85,00	16,00	103,00	92,00	27,00
	Mean	2,12	1,67	1,93	1,46	2,01	1,67	2,17	1,73	2,28	1,69	2,18	1,68	2,10	1,66	2,39	1,69	1,93	1,31
	Median	2,00	1,50	1,88	1,50	2,00	1,50	2,00	1,50	2,00	1,50	2,00	1,50	2,00	1,50	2,38	1,50	1,75	1,00
	Standard deviation	0,63	0,69	0,74	0,47	0,68	0,68	0,67	0,69	0,74	0,65	0,74	0,65	0,76	0,64	0,54	0,68	0,68	0,54
	-95% confidence interval	1,89	1,52	1,77	1,30	1,80	1,52	1,79	1,60	1,93	1,56	1,87	1,55	1,83	1,53	2,10	1,56	1,78	1,10
	+95% confidence interval	2,35	1,82	2,09	1,62	2,23	1,82	2,54	1,87	2,62	1,82	2,49	1,82	2,36	1,80	2,68	1,83	2,07	1,53
	p	0,000		0,001		0,003		0,012		0,000		0,001		0,000		0,000		0,000	

Supplementary Table S2.

		Symptoms		Predisposing factors		Epidemiology		Clean information		When to seek medical attention	
		With	Without	With	Without	With	Without	With	Without	With	Without
DISCERN	Count	88,00	31,00	39,00	80,00	41,00	78,00	67,00	52,00	7,00	112,00
	Mean	37,22	30,87	41,95	32,46	41,12	32,65	38,14	32,26	48,26	34,78
	Median	35,60	29,20	41,20	31,10	41,20	31,60	36,20	31,60	45,60	33,20
	Standard deviation	9,39	6,92	10,10	6,93	11,05	6,47	10,20	6,50	9,65	8,63
	-95% confidence interval	35,23	28,33	38,68	30,91	37,63	31,19	35,65	30,45	39,33	33,16
	+95% confidence interval	39,21	33,41	45,23	34,00	44,61	34,11	40,62	34,07	57,18	36,39
	p	0,001		0,000		0,000		0,002		0,001	
GQS	Count	88,00	31,00	39,00	80,00	41,00	78,00	67,00	52,00	7,00	112,00
	Mean	2,54	2,17	2,93	2,20	2,76	2,27	2,64	2,18	3,34	2,38
	Median	2,60	2,20	3,00	2,20	2,80	2,40	2,60	2,20	3,20	2,40
	Standard deviation	0,64	0,73	0,64	0,56	0,77	0,56	0,69	0,57	0,41	0,65
	-95% confidence interval	2,40	1,90	2,73	2,08	2,51	2,15	2,47	2,03	2,96	2,26
	+95% confidence interval	2,67	2,43	3,14	2,32	3,00	2,40	2,81	2,34	3,72	2,51
	p	0,013		0,000		0,000		0,000		0,000	

Supplementary Table S3.

		Genetical predisposition		How to perform procedure		Animation		Radiological data		Misleading info			
		With	Without	With	Without	With	Without	With	Without	With	Without		
JAMA	Count	15,00	104,00	28,00	91,00	40,00	79,00	86,00	33,00	35,00	84,00		
	Mean	2,08	1,75	2,25	1,65	2,04	1,66	1,87	1,58	1,54	1,89		
	Median	2,00	1,50	2,00	1,50	2,00	1,50	1,75	1,50	1,50	1,75		
	Standard deviation	0,69	0,69	0,79	0,61	0,75	0,64	0,72	0,60	0,60	0,72		
	-95% confidence interval	1,70	1,61	1,94	1,52	1,80	1,52	1,71	1,36	1,34	1,73		
	+95% confidence interval	2,46	1,88	2,56	1,77	2,28	1,81	2,02	1,79	1,75	2,05		
p		0,046		0,000		0,004		0,031		0,007			
		Histology				Embolization				WHO classification			
		With		Without		With		Without		With		Without	
DISCERN	Count	19,00		100,00		11,00		108,00		15,00		104,00	
	Mean	32,60		36,13		42,87		34,82		42,51		34,57	
	Median	28,00		35,40		40,40		32,80		42,80		33,50	
	Standard deviation	11,52		8,67		8,63		8,99		13,23		8,10	
	-95% confidence interval	27,05		34,41		37,07		33,11		35,18		32,99	
	+95% confidence interval	38,15		37,85		48,67		36,54		49,83		36,14	
p		0,009				0,004				0,031			

Supplementary Table S4. Audience engagement

		Animations	
		With	Without
Views	Count	40,00	79,00
	Mean	47205,43	12567,46
	Median	10568,00	3910,00
	Standard deviation	110909,16	21559,60
	- 95% confidence interval	11734,95	7738,37
	+ 95% confidence interval	82675,90	17396,54
	P	0,005	
Likes	Count	40,00	79,00
	Mean	386,50	142,61
	Median	65,50	35,00
	Standard deviation	1000,83	369,47
	- 95% confidence interval	66,42	59,85
	+ 95% confidence interval	706,58	225,36
	P	0,002	
Dislikes	Count	40,00	79,00
	Mean	16,60	4,09
	Median	3,00	1,00
	Standard deviation	40,75	7,43
	- 95% confidence interval	3,57	2,42
	+ 95% confidence interval	29,63	5,75
	P	0,009	
Comments	Count	35,00	72,00
	Mean	57,26	11,90
	Median	8,00	3,00
	Standard deviation	163,51	21,69
	- 95% confidence interval	1,09	6,81
	+ 95% confidence interval	113,42	17,00
	P	0,010	
Subscribers	Count	40,00	76,00
	Mean	64389,00	48435,59

	Median	45200,00	19050,00
	Standard deviation	98999,67	82195,36
	- 95% confidence interval	32727,37	29653,15
	+ 95% confidence interval	96050,63	67218,04
	P	0,036	
VPI	Count	40,00	79,00
	Mean	32,85	7,98
	Median	5,65	3,16
	Standard deviation	90,48	16,87
	- 95% confidence interval	3,91	4,20
	+ 95% confidence interval	61,79	11,75
	P	0,002	

		Misinformation	
Like ratio	Count	35,00	84,00
	Mean	79,06	93,88
	Median	95,18	97,01
	Standard deviation	36,80	15,45
	- 95% confidence interval	66,41	90,53
	+ 95% confidence interval	91,70	97,23
	P	0,036	

Supplementary Table S5. Top 5 DISCERN videos.

	Mean DISCERN score	VPI score	Mean GQS score	Mean JAMA score	Symptoms	Definition	Risk factors	Pregnancy and meningiomas	WHO classification	Epidemiology	Misinformation	Who was the speaker	Country	Time (s)	Like ratio
1	62,00	29,68	3,60	2,25	+	+	+	-	+	+	+	Doctor	USA	3172	96,95
2	57,00	22,73	4,00	3,00	+	+	+	-	+	+	+	Doctor	USA	3651	94,07
3	56,60	5,28	4,00	2,50	+	+	+	+	+	+	-	Doctor	-	2768	95,56
4	55,60	0,44	3,20	2,00	+	-	+	-	+	+	-	Doctor	-	2734	80,00
5	54,20	5,48	3,60	2,50	+	-	+	-	-	+	+	Doctor	USA	3523	93,78

Supplementary Table S6. TOP 5 VPI videos

	VPI score	Mean DISCERN score	Mean GQS score	Mean JAMA score	Symptoms	Definition	Risk factors	Pregnancy and meningiomas	WHO classification	Epidemiology	Misinformation	Speaker	Country	Time (s)	Like ratio
1	510,63	28,80	2,40	1,00	-	-	-	-	-	-	-	Doctor	-	513	96,34
2	278,52	30,60	2,00	1,50	+	-	-	-	-	-	+	Doctor	-	350	94,61
3	135,26	25,40	2,60	1,25	-	+	-	-	-	-	-	-	USA	1190	98,46
4	102,00	24,20	1,80	1,00	+	-	-	-	-	-	-	-	USA	119	96,57
5	73,33	37,00	2,40	2,50	+	-	-	-	-	-	-	Doctor	-	268	94,52