

Supplemental Table S1 Associations between sinus involvement and other factors

	No sinus involvement		Sinus involvement		p-Value
	n	%	n	%	
Skull base involvement (n = 257)	27	18.1	37	34.3	0.004
Intracranial involvement (n = 263)	6	3.9	9	8.3	0.177
Positive surgical margins (n = 244)	25	21.9	49	37.7	0.008
Bony invasion (n = 150)	17	20.2	33	50.0	< 0.001
Lymphovascular invasion (n = 108)	5	7.1	3	7.9	1.000
Cartilage invasion (n = 141)	3	3.8	16	25.8	< 0.001
Perineural invasion (n = 114)	5	6.8	7	17.1	0.114
Angioinvasion (n = 107)	5	7.0	3	8.3	1.000
Dural invasion (n = 227)	2	1.8	5	4.3	0.446
Brain invasion (n = 174)	1	0.9	2	2.9	0.561
Orbital invasion (n = 208)	4	4.3	29	25.4	< 0.001