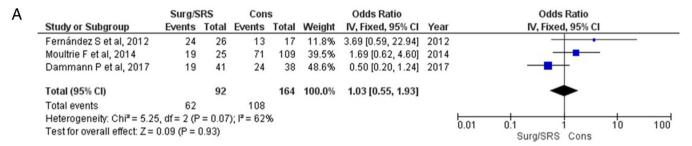
Figure S1. (A) Forest plot for lobar (location). The results demonstrated no statistically significant difference between the surgical or/+ SRS and Cons (OR, 1.03; 95% CI, 0.55 to 1.93; P=0.07). (B) Funnel plot, testing the sensitivity of the lobar (location); there was heterogeneity (P=0.92 and $I^2=62\%$). In addition, after the applying 'leave out one' model, no statistically significant result was obtained (Table III). SRS, radiotherapy; Cons, conservative management group; OR, odds ratio; I^2 , the percentage of total variation across studies that is due to heterogeneity rather than chance; CI, confidence interval.



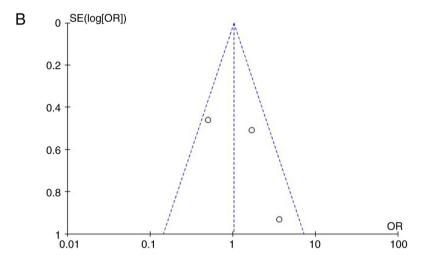
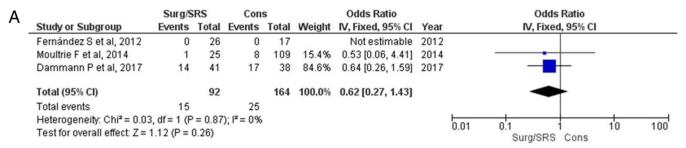


Figure S2. (A) Forest plot for deep (location). The results demonstrated no statistically significant difference between the surgical or/+ SRS and Cons (OR, 0.62; 95% CI, 0.27 to 1.43; P=0.87). (B) Funnel plot, testing the sensitivity of deep (location); there was no heterogeneity (P=0.26 and $I^2=0$ %). In addition, after the applying 'leave out one' model, no statistically significant result was obtained (Table III). SRS, radiotherapy; Cons, conservative management group; OR, odds ratio; I^2 , the percentage of total variation across studies that is due to heterogeneity rather than chance; CI, confidence interval.



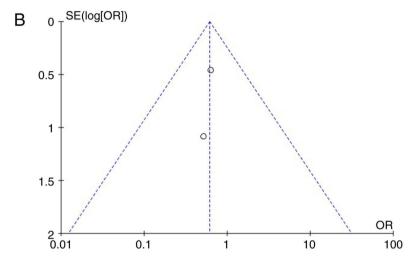


Figure S3. (A) Forest plot for brainstem (location). The results demonstrated no statistically significant difference between the surgical or/+ SRS and Cons (OR, 0.24; 95% CI, 0.03 to 1.92; P=0.18). (B) Funnel plot, testing the sensitivity of the brainstem (location): there was no heterogeneity. In addition, after the applying 'leave out one' model, no statistically significant result was obtained (Table III). SRS, radiotherapy; Cons, that is due to heterogeneity rather than chance; CI, confidence interval.

Α		Surg/SRS		Cons		Odds Ratio			Odds Ratio					
Α.	Study or Subgroup	Events	Total	Events	Total	Weight	IV, Fixed, 95% CI	Year		IV, Fixed, 95% CI				
	Fernández S et al, 2012	0	26	0	17		Not estimable	2012		<u> </u>				
	Moultrie F et al, 2014	1	25	16	109	100.0%	0.24 [0.03, 1.92]	2014			_			
	Dammann P et al, 2017	0	41	0	38		Not estimable	2017						
	Total (95% CI)		92		164	100.0%	0.24 [0.03, 1.92]				_			
	Total events	1		16										
	Heterogeneity: Not applica	ble							0.01	0.1	 	10	100	
	Test for overall effect: Z = 1.34 (P = 0.18)								0.01	Sura/SRS Cons				

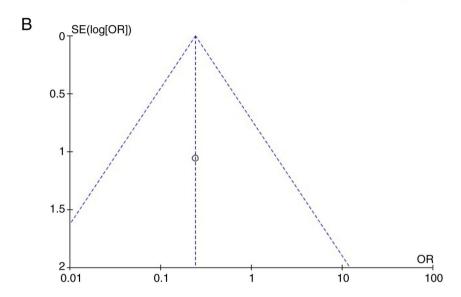
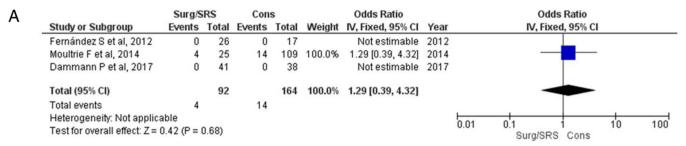


Figure S4. (A) Forest plot for cerebellum (location). The results demonstrated no statistically significant difference between the surgical or/+ SRS and Cons (OR, 1.29; 95% CI, 0.39 to 4.32; P=0.68). (B) Funnel plot, testing the sensitivity of the brainstem (location): there was no heterogeneity. In addition, after the applying 'leave out one' model, no statistically significant result was obtained (Table III). SRS, radiotherapy; Cons, conservative management group; OR, odds ratio; I², the percentage of total variation across studies that is due to heterogeneity rather than chance; CI, confidence interval.



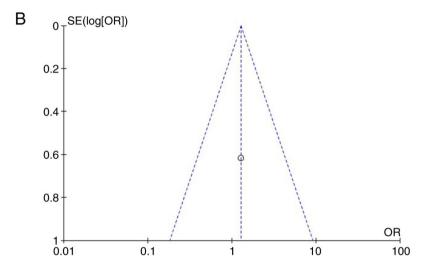


Figure S5. (A) Forest plot for OHS 2-6. The results demonstrated no statistically significant difference between the surgical or/+ SRS and Cons (OR, 1.44; 95% CI, 0.83 to 2.49; P=0.19). (B) Funnel plot, testing the sensitivity of the brainstem (location): there was no heterogeneity. In addition, after the applying 'leave out one' model, no statistically significant result was obtained (Table III). OHS, Oxford Handicap Scale; SRS, radiotherapy; Cons, conservative management group; OR, odds ratio; I², the percentage of total variation across studies that is due to heterogeneity rather than chance; CI, confidence interval.

