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## Supplemental material

**Defining clinically significant tumor size in vestibular schwannoma to inform timing of microsurgery during wait-and-scan management: moving beyond minimum detectable growth**

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**Table S1:** Comparison of baseline features by immediate postoperative House-Brackmann grade for patients with cerebellopontine angle tumors (N=499).

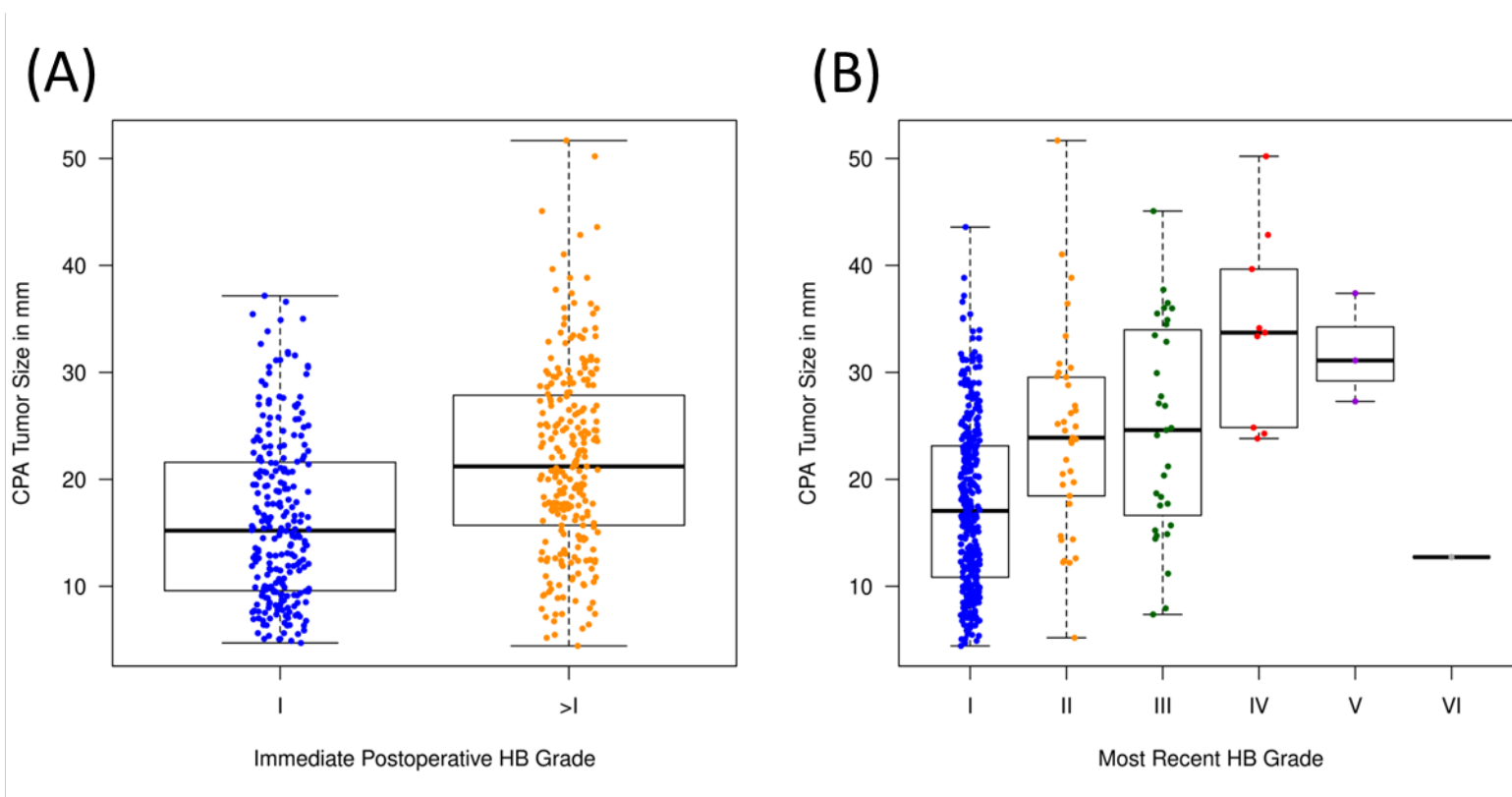
<b>Feature*</b>	<b>Grade I N=248</b>	<b>Grade &gt;I N=251</b>	<b>P-value</b>
Age at surgery in years	50 (40-60)	51 (41-60)	0.46
Sex			
Female	124 (50)	124 (49)	0.89
Male	124 (50)	127 (51)	
Tumor size in mm	15.2 (9.6-21.6)	21.2 (15.7-28.0)	<0.001
Tumor type			
Solid	208 (84)	176 (70)	<0.001
Macrocystic	40 (16)	75 (30)	
Fundal fluid cap size in mm	2.5 (0.0-4.3)	2.2 (0.0-4.7)	0.96
Fundal fluid cap size in mm			
0	75 (30)	88 (35)	0.25
>0	173 (70)	163 (65)	
PTA in dB HL (N=213:215)†	43 (25-60)	45 (24-66)	0.53
WRS in % (N=212:213)†	76 (25-96)	65 (5-95)	0.15
Hearing class (N=212:213)†			
A	68 (32)	60 (28)	0.27
B	49 (23)	49 (23)	
C	18 (8)	15 (7)	
D	77 (36)	89 (42)	

\*Summarized with median (IQR) or n (%).

†Number of patients with complete hearing data in each group.

Abbreviations: PTA=pure-tone average; dB HL=decibel hearing level; WRS=word recognition score

**Figure S1.** Boxplots demonstrating facial nerve function in the immediate postoperative period for patients with cerebellopontine angle tumors by (A) House-Brackmann grade I versus >I and (B) by grades I-VI.\*



\*The 25th and 75th percentiles of tumor size are depicted as the borders of the box surrounding the solid black line indicating the median tumor size. Each dot on the figure represents size for an individual patient with the bars on either end demarcating the range observed.

**Table S2:** Comparison of baseline features by earliest postoperative hearing class for patients with preoperative serviceable hearing and cerebellopontine angle tumors (N=193).

<b>Feature*</b>	<b>A/B</b> N=44	<b>C/D</b> N=149	<b>P-value</b>
Age at surgery in years	45 (36-54)	48 (40-57)	0.20
Sex			
Female	27 (61)	80 (54)	0.37
Male	17 (39)	69 (46)	
Tumor size in mm	10.9 (8.1-15.3)	18.3 (12.4-24.5)	<0.001
Tumor type			
Solid	40 (91)	120 (81)	0.11
Macrocystic	4 (9)	29 (19)	
Fundal fluid cap size in mm	3.0 (1.5-5.1)	2.8 (0.0-5.0)	0.53
Fundal fluid cap size in mm			
0	7 (16)	39 (26)	0.16
>0	37 (84)	110 (74)	
PTA in dB HL	23 (10-32)	26 (15-38)	0.044
WRS in %	100 (90-100)	95 (84-100)	0.026
Hearing class			
A	31 (70)	82 (55)	0.07
B	13 (30)	67 (45)	

\*Summarized with median (IQR) or n (%).

Abbreviations: PTA=pure-tone average; dB HL=decibel hearing level; WRS=word recognition score