

Supplementary Table S3. Association of survival with clinical characteristics.

	Association	
	OS since IDx	OS since R/M
Sex (Male vs Female)	P=0.105	P=0.445
Smoking (Yes vs No)	P=0.319	P=0.445
Primary tumor (PNS vs SG vs OP vs Larynx)	P=0.463	P=0.129
Stage IDx (II vs IVA vs IVB vs IVC)	P=0.387	P=0.438
Ki67 (< 90 vs ≥90)	P=0.356	P=0.246
Chromogranin (positive vs negative)	P=0.193	P=0.808
Synaptophysin (positive vs negative)	P=0.157	P=0.445
Neuronal specific enolase	P=0.480	P=0.317

IDx: initial diagnosis, P= p-value, PNS: paranasal sinus, R/M: recurrent/metastatic, SG: salivary gland, OP: oropharynx