Supplementary Table 1.Summary of malignant neoplasms per MSRSGC categories with histologic follow-up

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| **Category** | **Histologic follow-up** |
| ND (n=13)NN (n=1)AUS (n=6)BN (n=4)SUMP (n=20)SM (n=9)M (n=24) | MEC= 6ACC=4Lymphoma = 2Adenocarcinoma, NOS= 1Lymphoma = 1Metastatic SCC = 3MEC=2Lymphoma = 1CAEXPA = 2MEC = 2MEC=6CAEXPA= 4EMC= 2Myoepithelial carcinoma = 2Cribriform cystadenocarcinoma = 1AdCC = 1Salivary duct carcinoma = 1ACC= 1Dermatofibroma protuberans =1Polymorphous adenocarcinoma= 1Metastatic SCC =2MEC =2Adenocarcinoma, NOS =2ACC= 1PDCA = 1Lymphoma = 1ACC = 6Adenocarcinoma, NOS =3MEC=2AdCC= 2CAEXPA = 2Metastatic SCC =2Metastatic melanoma =2Metastatic Merkel cell carcinoma = 2Salivary duct carcinoma =1Lymphoma = 1Metastatic fibrosarcoma =1 |

Abbreviations: ND, non-diagnostic; NN, non-neoplastic; AUS, atypia of undetermined significance; BN, benign neoplasm; SUMP, salivary gland neoplasm of uncertain malignant potential; SM, suspicious for malignancy; M, malignant; MEC, mucoepidermoid carcinoma; ACC, acinic cell carcinoma; AdCC: adenoid cystic carcinoma; NOS, not otherwise specified; SCC, squamous cell carcinoma; CAEXPA, carcinoma ex pleomorphic adenoma; EMC, epithelial-myoepithelial carcinoma.

Supplementary Table 2. Summary of benign neoplasms per MSRSGC categories with histologic follow-up

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| **Category** | **Histologic follow up** |
| ND (n=35)NN (n=0)AUS (n=26)BN (n= 171)SUMP (n= 18)SM (n=3)M (n=0) | WT = 16PA = 13Basal cell adenoma = 2Cystadenoma = 4NoneWT = 15PA = 7Oncocytoma = 2Myxoma = 1Sebaceous lymphadenoma =1PA = 130WT = 31Basal cell adenoma = 4Monomorphic adenoma = 2Atypical PA = 2Oncocytoma = 1Schwannoma = 1PA = 12Basal cell adenoma = 2WT =2Myoepithelioma = 1Oncocytoma = 1PA = 2WT =1None |

Abbreviations: ND, non-diagnostic; NN, non-neoplastic; AUS, atypia of undetermined significance; BN, benign neoplasm; SUMP, salivary gland neoplasm of uncertain malignant potential; SM, suspicious for malignancy; WT, Warthin tumor; PA, pleomorphic adenoma.