Abstract:

Tumors of the head and neck form a heterogeneous group of benign and malignant neoplasms with significant differences in biological behavior and therapeutic strategies. Squamous cell carcinomas (SCC) of the larynx, pharynx and oral cavity represent the most frequent and, thus, clinically most important malignant neoplasms in this anatomical region. Similar to other neoplasms, grading of head and neck malignancies is based on evaluation of the tumor histology usually including both architectural and cytological features; however, the current consensus grading for head and neck SCC is of limited prognostic and therapeutic value and the reproducibility is low. Therefore, novel grading criteria have been proposed that are based on additional parameters, such as the type of tumor growth pattern at the invasive front (so-called tumor budding). These novel algorithms, however, have not yet been officially endorsed into guidelines. Salivary gland (SG) neoplasms, although less frequent, constitute a second important pathologically and clinically complex group of tumors at this location. In contrast to SCC, grading of these tumors is of high clinical importance. Based on the large variety of carcinoma entities of the SG, both entity-specific (e. g. mucoepidermoid carcinoma) algorithms but also algorithms, which are solely based on the recognition of a specific carcinoma variant with subsequent automatic assignment of the tumor grade (e. g. acinic cell carcinoma and salivary duct carcinoma) are in use. In the
sinonasal tract, grading is important for non-intestinal type adenocarcinoma and 
esthesioneuroblastoma. In this article the most important grading schemes and criteria for head and 
eck malignancies are presented and their prognostic and therapeutic implications are discussed.