Fakultät für Medizin

Dokumenttyp: journal article

Autor(en) des Beitrags:
Lohaus, Fabian; Linge, Annett;
Tinhofer, Inge; Budach, Volker; Gkika, Eleni; Stuschke, Martin; Balermpas, Panagiotis; Rödel, Claus; Avlar, Melanie; Grosu, Anca-Ligia; Abdollahi, Amir; Debus, Jürgen; Bayer, Christine; Belka, Claudia; Pigorsch, Steffi; Combs, Stephanie E; Mönnich, David; Zips, Daniel; von Neubeck, Claire; Baretton, Gustavo B; Löck, Steffen; Thames, Howard D; Krause, Mechthild; Baumann, Michael; DKTK-ROG

Titel des Beitrags:
HPV16 DNA status is a strong prognosticator of loco-regional control after postoperative radiochemotherapy of locally advanced oropharyngeal carcinoma: results from a multicentre explorative study of the German Cancer Consortium Radiation Oncology Group (DKTK-ROG)

Abstract:
To investigate the impact of HPV status in patients with locally advanced head and neck squamous cell carcinoma (HNSCC), who received surgery and cisplatin-based postoperative radiochemotherapy. For 221 patients with locally advanced squamous cell carcinoma of the hypopharynx, oropharynx or oral cavity treated at the 8 partner sites of the German Cancer Consortium, the impact of HPV DNA, p16 overexpression and p53 expression on outcome were retrospectively analysed. The primary endpoint was loco-regional tumour control; secondary endpoints were distant metastases and overall survival. In the total patient population, univariate analyses revealed a significant impact of HPV16 DNA positivity, p16 overexpression, p53 positivity and tumour site on loco-regional tumour control. Multivariate analysis stratified for tumour site showed that positive HPV 16 DNA status correlated with
loco-regional tumour control in patients with oropharyngeal carcinoma (p=0.02) but not in the oral cavity carcinoma group. Multivariate evaluation of the secondary endpoints in the total population revealed a significant association of HPV16 DNA positivity with overall survival (p<0.01) but not with distant metastases. HPV16 DNA status appears to be a strong prognosticator of loco-regional tumour control after postoperative cisplatin-based radiochemotherapy of locally advanced oropharyngeal carcinoma and is now being explored in a prospective validation trial.