

Applicability of FDG-PET-CT to the Detection of Oral Cancer

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We examined the applicability of PET-CT to the detection of primary tumors and metastases to cervical lymph nodes and distant organs of 30 patients with oral squamous cell carcinoma.

- 1) The accuracy rate for detecting primary tumor, was 93% (28/30).
- 2) That for detecting cervical lymph node metastases, was 97% (29/30), but small cervical lymph node metastases could not be detected.
- 3) That for detecting metastases to distant organs, was 90% (27/30), but the positive predictive value was low (25%), presumably because FDG also accumulates by inflammation or trauma.

These results suggested that PET-CT is useful as a screening of oral cancer, although there are some problems to be solved.

Key words : PET-CT, oral cancer, primary tumor, cervical lymph node metastasis, distant metastasis