INTRODUCTION

Merkel cell carcinoma (MCC) is a rare neuroendocrine malignancy of the skin (1, 2). It is highly aggressive skin cancer which is observed in patients older than 50 years (more than 95%) (1, 3). The cell of origin was first time described in 1875 by Friedrich Merkel as epithelial in derivation with neuroendocrine differentiation (3). Merkel cell carcinoma was first time described by Toker in 1972 (3). Merkel cell carcinoma often presents a rapid growth, reddish-blue dermal papule and can be asymptomatic. Surgery and radiotherapy are the most important in treatment Merkel cell carcinoma. Up to 48% of Merkel cell carcinomas are located in the head and neck region. Recommendations for surgery are based on the clinical size of the primary tumor. Excision margins for tumors < 2 cm should be 1 cm, and for tumors > 2 cm the margins should be 2 cm. Sentinel lymph node biopsy is recommended for all untreated primary tumors at the time of wide local excision. SLN biopsy is important in the staging and prognosis of Merkel cell carcinoma. In this article the authors presented a case of a 60-year-old man, Caucasian race, who was admitted to the hospital because of Merkel cell carcinoma of the facial skin. The patient underwent wide excision of the tumor and in the sixth day after surgery was discharged home.

CASE REPORT

A 60-year-old man, Caucasian race, was admitted to the Department of Surgical Oncology because of Merkel cell carcinoma of the facial skin (fig. 1 and 2). In an interview with the patient, he informed us that the tumor of the facial skin was observed six months earlier and gradually expanded. The patient reported pain in the area of the tumor. Surgical biopsy showed Merkel cell carcinoma.

He had no any other symptoms, there was no history of weight loss and loss of appetite. The patient was not treated chronically diseases. He had no surgeries before and there was no history of carcinoma in patient family. Blood test and other routine hematological examinations and biochemical tests were within normal limits.

On physical examination, there was bleeding tumor size 55 x 65 millimeters. Regional lymph nodes were not enlarged. The patient was qualified for surgery. In general anesthesia has been wide tumor resection of the right temporal area with adequate free margins and free graft skin was taken from the supraclavicular region. The tumor was collected for histopathological examination. Histopathological examination revealed Merkel cell carcinoma. The tumor was excised in its entirety. The duration of surgery was 65 minutes. Patient after surgery felt good and did not complain of pain. The postoperative period was uncomplicated and the patient left the ward in the sixth day after surgery. The patient is in the care of outpatient surgical oncology.
be 1 cm, and for tumors > 2 cm the margins should be
2 cm (10, 11). Sentinel lymph node biopsy is recom-
mended for all untreated primary tumors at the time of
wide local excision. SLN biopsy is important in the stag-
ing and prognosis of Merkel cell carcinoma. SLN biopsy
in the head and neck region can be technically challeng-
ing but is also recommended. Merkel cell carcinoma is
a radiosensitive neoplasm. It means that radiotherapy
plays important role as an adjunct to surgery and as pri-
mary therapy in inoperable cases or when the patient re-
fuses surgery (10, 11). The role of chemotherapy is still
unclear and is consider as palliative treatment in cases
of disseminated disease (12).

National Comprehensive Cancer Network suggest
that the patient after treatment Merkel cell carcinoma
should undergo whole skin examination and regional
lymph nodes examination every 1 to 3 months for the
first year and every 3 to 6 months for the second year
and annually thereafter.

The authors of this article, having an experience
in the treatment of patients with Merkel cell carcinoma
believes, that good surgery is “the gold standard” in
the treatment of such patients. The authors of this ar-
ticle believes that patients with such rare and an ex-
trremely aggressive cutaneous malignancy should be
treated only in highly specialized oncological surgery
departments.

CONCLUSIONS

1. Merkel cell carcinoma is an extremely aggressive cu-
taneous malignancy.
2. Radical surgical resection and radiotherapy is the treat-
ment of choice.
3. The role of chemotherapy is still unclear and is con-
sider as palliative treatment.
4. SLN biopsy is recommended in this skin malignancy.
5. Warthin’s tumors should be treated in highly special-
ized oncological surgery departments.

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Surv

DISCUSSION

Merkel cell carcinoma is rare neoplasm with an ap-
proximate incidence of 2.4 cases per 100,000 person-
years (1, 4). In the last two decades the number of newly
reported cases has increased. UV radiation and immu-
nosuppression play important role in pathogenesis of
Merkel cell carcinoma (5). In 2008, Feng et al described
a novel polyomavirus (MCPyV) which can play role in
viral tumorigenesis (6, 7).

Merkel cell carcinoma tumors clinically present as
asymptomatic, solitary nodules with pink or red coloring
and may have ulceration or telangiectasia (8, 9). Up to
48% of Merkel cell carcinomas are located in the head
and neck region (2).

Surgery and radiotherapy are the most important in
treatment Merkel cell carcinoma (1, 2). Recommenda-
tions for surgery are based on the clinical size of the pri-
mary tumor. Excision margins for tumors < 2 cm should

Fig. 1. Merkel cell carcinoma of the facial skin.

Fig. 2. Bleeding Merkel cell carcinoma of the facial skin.

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