**INTRODUCTION**

Subungual melanoma is rare disease and has worse prognosis than cutaneous melanoma in other places (1). This type of melanoma is observed accounting for 1 to 3% of all cutaneous melanoma in Caucasians (1). It is estimated that 1 of every 39 people in the western countries will be diagnosed melanoma of the skin during lifetime. The number of patients with skin melanoma is increasing and cause a growing economic problem for health care. Dermoscopy or videos dermoscopy is the basis for the initial diagnosis of melanoma of the skin. Sensitivity dermoscopy is up to 96.3% and the specificity up to 94.2%. The literature on dermoscopic examination of the nails is limited to very few published observations. Large number of information is available on dermoscopy of pigmented lesions elsewhere on the body skin. Dermoscopy can help clinicians accurately decide if a biopsy of the nail apparatus is necessary in cases of melanoma suspicious. Surgical biopsy of the lesion is the gold standard for diagnosis subungual melanoma. The “gold standard” of treatment is surgical amputation and sentinel lymph node biopsy. In this article the authors presented a case of a woman who was admitted to the hospital because of subungual melanoma in foot. The patient underwent amputation of toe with sentinel lymph node biopsy and in the second day after surgery was discharged home.

**CASE REPORT**

A 71-year-old woman, Caucasian race, was admitted to the Department of Surgical Oncology because of diagnosed subungual melanoma of the right feet. In an interview with the patient, she informed us that the black spot under the nail was observed three months earlier and gradually expanded. The patient reported no pain in the area of melanoma. Surgical biopsy showed subungual melanoma.

She had no any other symptoms, there was no history of weight loss and loss of appetite. The patient was treated chronically with hypertension and ischemic heart disease. She had no surgeries before and there was no history of carcinoma (especially skin melanoma) in patient family. Blood test and other routine hematological examinations and biochemical tests were within normal limits.

On physical examination, the right great toe nail plate was changed by a fungal infection with a prominent black spot with a diameter of about 5 mm under the nail (fig. 1). There were not enlarged inguinal lymph nodes. Also ultrasound examination of the inguinal lymph nodes did not show pathologically enlarged lymph nodes.

The patient was qualified for surgery, she underwent amputation of the right toe with sentinel lymph node biopsy. Pathological examination revealed subungual melanoma and there was no melanoma cells in sentinel lymph node. The duration of surgery was 50 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 second day after operation. The patient is in the care of outpatient surgical oncology.

**DISCUSSION**

Subungual melanoma is uncommon disease but prognosis in this disease are worse than in skin melanoma in other sites (3). The 5-year survival rate is from 16 to 87% (3, 4). Ultraviolet radiation exposure is the main
Large number of information is available on dermoscopy of pigmented lesions elsewhere on the body skin. Dermoscopy can help clinicians accurately decide if a biopsy of the nail apparatus is necessary in cases of melanoma suspicious. Surgical biopsy of the lesion is the gold standard for diagnosis subungual melanoma. The “gold standard” of treatment is surgical amputation. Randomized controlled showed that sentinel lymph node biopsy should be done, but there are observed some implications for melanoma with intermediate thickness (1.2 to 3.5 mm) (8). Lymphadenectomy is necessary in case of positive sentinel lymph node biopsy. Elective lymph node dissection does not affect patient survival (9, 10).

The authors of this article recommend wild surgical amputation due to subungual melanoma with uninvolved margins and sentinel lymph node biopsy. Treatment of this disease should be done in highly specialized oncological surgery wards with experience in such operations.

References


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Fig. 1. Subungual melanoma in right foot.