Abstract
Dermoscopy is valid, noninvasive technique for the visualization of different morphological structures within pigmented melanocytic skin lesion. In clinical practice, positive personal history is considered to be as an indication of increased melanoma risk. The thickness of melanoma (Breslow Index) is the most important independent predicting factor of survival for stage I patients. We aimed to present a two cases of head-melanoma and discuss prominent clinical and dermoscopic features across the spectrum of "hidden-melanoma" and differential diagnosis.

Key words: skin; head; melanoma; dermoscopy; differential diagnosis

Case study I
A 45-year-old patient presented to a dermatologist for occasional bleeding of a mole in the right retroauricular region (Fig. 1). He had noticed first changes of color and size of the mole a year before. His mother’s brother had had a similar tumor operated a few years ago. Before the age of 20 he had had several sunburns.

At the moment of the examination a slightly elevated macula measuring 16x14 mm could be seen, it was dark brown and black, with irregular contours and wet. Dermatoscopic examination was done with the digital dermascope MoleMax II, and under twenty times magnification the following dermascopic structures were noticed: atypical pigment network, irregular streaks, homogeneous area, irregular dots and globules, blue-white veil (Fig. 2). An operative treatment and extirpation of the first sentinel lymph node were recommended.
Histological testing by standard hematoxylin-eosin (HE) technique showed that it was a superficial spreading melanoma with a phase of vertical growth and multifocally present ulcerations of epidermis. The tumor reached papillary and reticular dermis, and dense lymphoplasmocytic inflammatory response was found in the infiltrative edge.

Subepidermal individual atypical melanocytes in lymph nodes were noted in the sample, and SNL, i.e. extirpation of the first sentinel lymph node was recommended.

Conclusion: Superficial spreading melanoma Clark 4, level pT3b, Breslow 2.6 mm, with invasion of lymph nodes present.

Case study II

A 74-year-old patient asked for dermatological examination because of injury of a mole in the hairy part of his head and occasional bleeding. Anamnesis on the duration of the disease is unreliable. Photo-type 1. Before the age of 20 he had had several sunburns. At the moment of the examination a 10-mm tumor nodule of gray-pink color was noticed in the right parietal region with a slightly elevated dark macula of irregular contours (Fig. 3). The tumor nodule easily bled on palpation. Dermatoscopic examination showed the following structures: homogeneous area, irregular dots/globules, irregular vessels vs. „poppy field” sign (Fig. 4).

Conclusion: Nodular melanoma from pre-existing epidermal-dermal nevus, Clark 4, level pT4b, Breslow 10 mm.

Discussion

Numerous risk factors for appearance of melanoma have been identified up to date, but exposure to the sun UV-radiation is the most significant. Recent studies have shown that head and neck melanoma occurs more frequently in persons who were chronically exposed to sunlight during their life, whereas melanoma of lower legs and upper back and chest are linked to intermittent exposure to UV-rays, most often as a result of visiting „sunny countries” or recreational exposure [6]. Persons with red or blond hair, light eyes, a higher number of so called common nevi or one and/or more dysplastic nevi including a positive personal and/or family history of melanoma, have a higher risk for occurrence of melanoma. Studies have shown that patients with surgically treated melanoma develop another primary skin melanoma in 5-10% of cases [7].
Dermatoscopy (epiluminescence microscopy, dermoscopy) is in vivo noninvasive and painless diagnostic method used to show skin structure which cannot be seen by naked eyes: epidermis, dermoepidermal junction and papillary dermis[8]. Its basic use includes diagnostics of pigmented skin tumors, primarily melanocytic, but also non-melanocytic ones. Differentiation between these two types is the first step in dermatoscopy, whereas the second step is to recognize lesions as malignant or benign based on different dermatoscopic algorithms [8]. In clinical practice experienced dermatologists performing dermatoscopy mostly apply the first-step melanocytic algorithms (pattern analysis), i.e. they use the analysis of various dermatoscopic structures and colors. In general, clinical reliability of melanoma diagnostics by “naked eye” is assessed to be around 65%, whereas dermatoscopy significantly improves reliability to around 5-30% [9].

Nowadays there is a real need to advance early detection of scalp melanoma because of its significantly worse prognosis as compared with melanoma of other anatomic locations [10]. So far there have been very few descriptions of dermatoscopic structures of melanoma on the scalp, and the first case was demonstrated and published by Zalaudek et al. in 2004 [11]. That case describes scalp melanoma with multi-component global structure i.e. atypical pigmented network, irregular streaks and regression structures. Dermatoscopic structures in the case had morphologically almost identical characteristics of melanoma located on trunk, as opposed to face melanoma, which shows completely different dermatoscopic structures: asymmetric follicular openings, annular-granular pattern, rhomboidal structures, homogeneous areas and slate-grey aggregated dots [12].

In the differential diagnosis of scalp melanoma blue nevus is on the first place (common or classic blue nevus), whereas a variant of cellular blue nevus is usually found in the area of gluteus [13]. The differential diagnosis may also include tumors classified as non-melanocytic, primarily pigmented basal cell skin cancer, acanthotic type of seborrheic keratoses, and pigmented type of actinic keratosis. There is a dermatoscopic tracing of the so called clue to direct the dermatologist performing dermatoscopy to the right diagnosis, and to the recommendation for further choice of treatment or just further dermatoscopic follow-up [14]. In the scalp region metastases of melanoma of some other anatomic locations of skin may be found, including cutaneous metastases of other cancers such as breast cancer [15], which clinically imitate malignant melanoma of the scalp. Melanoma is a common tumor in human pathology. Generally, incidence and mortality vary in the world depending on risk factors primarily. Melanoma is classified as hidden melanoma, and due to delayed diagnostics it is considered to be an “invisible killer”. As it has a worse prognosis as compared with melanoma on other anatomic locations, the examination of the scalp should be a mandatory part of the clinical-dermatoscopic skin examination (TBSE-total body skin examination).

REFERENCES