



Basal cell carcinoma

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Abstract. Basal cell carcinoma (BCC) is one of the most common human cancers. Ultraviolet radiation is the leading etiologic factor of BCC. Dome shaped papule is the typical clinical manifestation. Diagnosis-dermoscopy and histology. Therapy – surgical, topical and other.

Keywords: skin cancer, UV,

Introduction. Basalioma is an epithelial, semi-malignant cancer.

Epidemiology. It is the most common skin malignancy and one of the most common cancers in the world.

Etiology- there are 2 main theories of origin: 1) BCC develops from basal keratinocytes; 2) BCC develops from hair follicle precursor cells. Family and genetic factors – basal cell nevus syndrome. Risk factors are mainly Ultraviolet (UV) radiation. Also, certain occupations with high UV exposure: building, farming, marine

Clinical picture. BCC initially starts as a small, dome-shaped papule with telangiectatic blood vessel in the centre. Later superficial erosions, unhealing ulcers, crusts and squamae develop at the top of the lesion. Several clinical types have been discerned: nodular, ulcerative, pigmented, cystic, morpheic, superficial, basosquamous, keratotic.

Diagnosis. Clinical picture – morphology and distribution (face, hands, sun exposed parts). Dermatoscopy and other non-invasive methods like ultrasonography (USG), lymph node USG, histology. TNM staging for metastatic disease.

Therapy. Surgical excision; MOHS (Microscopy Oriented Histological Sections), cryotherapy, topical drugs – imiquimod, 5-FU. Photo Dynamic Therapy (PDT). Radiotherapy. Vismodegib – metastatic BCC (hedgehog signalling pathway smoothed (SMO) antagonist). Recurrence rate after treatment – 30-60 %. Systemic, organ involvement is very rare; metastasis < 0.1 %

References.

1. D. Papakostas D, Stock E. In Katsambas AD et al, eds. European Handbook of Dermatological Treatments. Springer-Verlag Berlin Heidelberg; 2015: 102-103. doi: 10.1007/978-3-662-45139-7_9.