

## ENVIRONMENT AND GENDER INFLUENCE THE LOCATION OF BASAL CELL CARCINOMA

**Gurgaş LEONARD<sup>1</sup>, Hangan TONY<sup>1</sup>,  
Chirilă SERGIU<sup>1</sup>, Natalia ROŞOIU<sup>1,2</sup>**

<sup>1</sup>Univ. Ovidius Constanta, Romania, Faculty of Medicine

<sup>2</sup>Academy of Romanian Scientists, Bucharest, Romania

**Abstract.** Cutaneous biology advances have led to the expansion of knowledge on the pathogenesis of these tumors. Basal cell carcinoma develops mainly on the face, suggesting that there are specific areas of the skin where target cells have an important role. The study is retrospective, observational. It was conducted in the Dermatology Clinic Emergency County Hospital Constanta, between 01.01.2004 - 31.12.2013. The study included a total of 634 patients treated in the clinic with diagnosis of basal cell epithelioma. We evaluated the following indicators: age, sex, source environment (urban/rural), location of the tumor. The main findings of the study were that, the percentage of patients with basal cell carcinoma with lesions in the open parts of the body (head, limbs) is significantly higher for those living in rural areas compared to those living in urban areas. The study shows that the percentage of men who have carcinoma on the forehead and eye area is higher compared to women, for whom the risk of carcinoma on the cheeks and lips is higher.

**Key words:**

### Introduction

Basal cell carcinoma is a tumor originating from the basal cells of the epidermis and annexes (matrix walls and follicular ostia pilosebaceous). Cutaneous neoplasm arising from pluripotential cells of the epidermis (1) Develop precancerous lesions frequently appears on the skin but apparently free. Basal cell carcinoma is the most common tumor malignant of the skin, accounting for 30 % of all skin cancers and 60-80 % of all skin carcinoma, the ratio CBC/CSC is 3/1-4/1. BCC incidence is steadily growth in the past years is higher in countries such as Australia. The vast majority of basal cell carcinomas occur after the age of 50 and sporadically (2). BCC is the most common cutaneous malignant disease accounting for 30-40 % of all cutaneous malignancies and the trend is increasing in incidence. In Europe the incidence is 150/100,000. In Romania, the number of new cases of skin cancer was, in 2005, of 1,765 new cases. The increased incidence of basal cell carcinoma among those over the age of 50 years is expected considering the factors favoring but lately found increasing incidence among people younger female which raises questions about the causes of basal cell carcinoma (3). For skin cancers, in the county of Constanta, the incidence is between 2.7 during 2011 and a peak recorded in 2008 of 7 new cases/100.000