30 درصد تخفیف نوروزی ویژه کارگاه‌ها و فیلم‌های آموزشی

اصول تنظیم قراردادها

پروپوزال نویسی

آموزش مهارت های کاربردی در تدوین و چاپ مقاله
Some Characteristics of Tinea Capitis

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Tinea capitis (TC) is the dermatophytosis widespread in the world. Not only specter of causative species in a specific geographical area is changing in time, but also the distribution of each one worldwide. No data exists on TC for recent 25 years in our country. Following goals were set for the study: to determine the specter of TC causatives and importance of age and sex in disease development, to identify source of the disease.

We have conducted a prospective study. During the last three years 13901 dermatological patients were examined. Among them 118 patients with TC were identified and studied. Skin scrapings and hair samples were examined by microscope. Fungal cultures were grown on Sabouraud’s Dextrose Agar with chloramphenicol. Exposure to the light of Wood’s lamp was used in all patients. The data analyses were evaluated by SPSS system. Likelihood Ratio Chi square test and Fisher’s exact test were used. P<0.01 was considered statistically significant.

From 118 patients 92 (78%) were males and 26 (22%) females. Age of the patients varied from 12 months to 14 years, distributed into 3 age groups: 28 (23,7%) patients were in 12 months to 4 years age group, 58 (49,2%) patients were from 5 to 9 years old, and 32 (27,1%) from 10 to 14 years. Microscopic examination revealed ectotrix-type causative agent in 107 (90,7%) cases, and endotrix type in 11 (9,3%) cases. The results of culturing were positive in 81 (68,6%) cases. Zoophilic causative agent was in 69 (85,2%) cases, and anthropophilic causative agent in 12 (14,8%) patients. Among those Trichophyton violaceum was diagnosed in 7 (8,6%) cases, Trichophyton mentagrophytes in 33 (40,7%), Trichophyton verrucosum in 5 (6,2%), Microsporum canis in 31 (38,3%), and Microsporum ferrugineum in 5 (6,2%). Trichophyton mentagrophytes and Microsporum canis were significantly more frequent than all the other causatives. Green light under Wood’s lamp was observed in 36 cases. In all cases of Trichophyton mentagrophytes and Trichophyton verrucosum the disease was caused by cattle. In cases caused by Microsporum canis the source was a cat. In case of infections caused by Microsporum ferrugineum and Trichophyton violaceum the source was impossible to identify.

Statistical processing of the resultant data of our study disclosed the association of age with spread of the disease. It turned out, that the highest prevalence of the disease is observed in children from 5 to 9, also the disease was prevalent primarily in males (P<0.01). We also discovered changes in causatives’ species. Trichophyton violaceum was predominant causative agent among Trichophytons in the 80ies, less prevalent was Trichophyton mentagrophytes. According to the results of our study, Trichophyton mentagrophytes turned out to be the predominant causative. The rise of Microsporum canis frequency in Georgia confirms its causative importance worldwide. Dominant in the 80ies, Trichophyton violaceum and Microsporum ferrugineum were found in single cases only. One of the important results of the study was identification of Trichophyton verrucosum among causative agents - never being observed before in the previous studies in our country. Eventually changing of TC causative species was reflected in dramatic decrease of anthropophilic species and significant increase of zoophilic species.

finally, in our study we have identified signs characteristic for TC: excess of zoophilic forms compared to anthropophilic ones, dominance of Trichophyton mentagrophytes and Microsporum canis in the specter of causatives, spread of the disease primarily in children, with highest prevalence in the 5-9 age group and male gender.

Key words: Trichophyton Mentagrophytes; Tinea Capitis; Mycosis; Microsporum Canis

References


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