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The teenagers of the Republic of Sakha Yakutia height and develops endocrinology regulation

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Abstract. We are examination 970 teenagers. We provide hormonal analysis (gipophiz-suprarenal system, gipophiz-thyroid system). The date of the hormone is detected that the parameters is depend to agers, sex, ethnic of the children and ecological condition on the region.

Key words. Teenagers, Yakutia, weight, height, hormone.

Introduction. The population health is depending to harmonic height and develops of the teenagers and children's. This factor is a basis to the development country [2]. Especially height and develops is a components biological process in population [4,6]. The endocrinology system has a big role to the height and develops humans, adaptation process. The endocrine status is determent to some factors: ecological, climatic, to sex, ages, and nationalities [3,5]. The goals to this article are detected especial to hormonal status native and migrant teenagers in Yakutia.

The methods and materials.

We are examination 970 teenagers ages- 10-17 years, 689-live to the villages, 281- on Town Yakutsk. Girls -435, boys-535. Nationalities: Sakha – 352, russia-153, smaller in number people to North-465. We are measure to weight, height, index Kettle, somatotype. The anthropometric characteristics detected by the date to examination children's and teenagers in Yakutia to the 2003-2008 [1].

We are provide investigation the hormonal analysis: adrenocorticotropin (AKTG), thyreotropin, 3-iodtironin, thyroxin, cortizol, 17-hydroxiprogesteron, dehydro-epi-androsteron-sulfat.

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Results.

The gnomonic anthropometric date to the 77,8% teenagers, over 23% have a disharmonic develops. Meso-somatothype have a 55,6% girls, 62%- boys.

The puberty to migrants girls characteristics decrease to AKTG, than the native girls. To native boys have a decrease AKTG (diagram 1). The native teenagers have a corticotrophin activity of the hypophisis.

The cortizol is higher to the migrants teenagers than native ($p<0,05$) (diagram 2).

To diagram 3 presents that the hypophiz-thyreoid system is high activity to the Sakha teenagers than the native and migrants teenagers.

Заключение. The anthropometric examination detected some especially: acceleration, disharmonic of the physical develops. The adaptation teenagers to the northern condition are connecting to the activity hypophiz-suprarenalis, hypophiz-thyreoid system and determined to agers, sex, ethnic and ecological condition to the regions.

* - $p\leq0,05$

***Diagramm.* 1 AKTG (ng/ml) to the native and migrates teenagers from Yakutia**

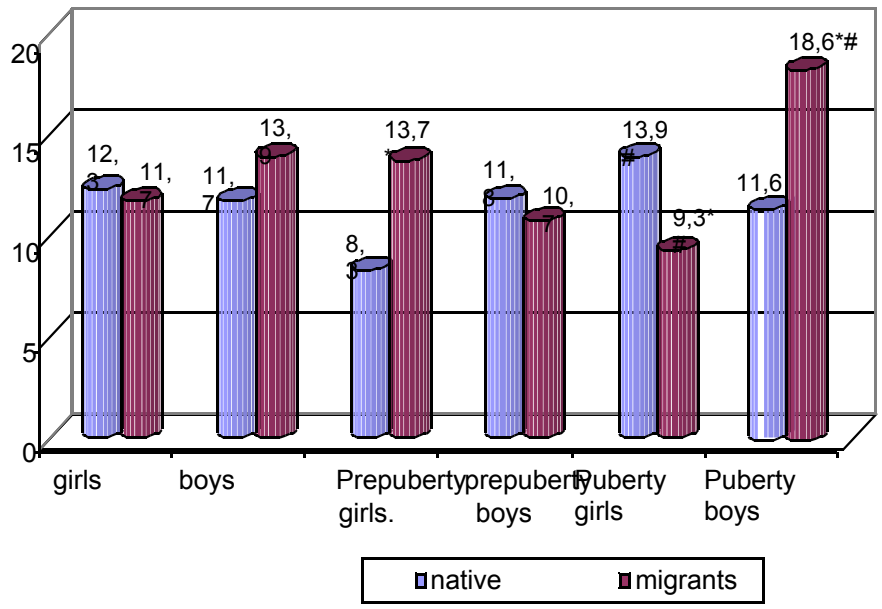


***Diagramm.* 2 Cortizol to the native and migrates teenagers from Yakutia**

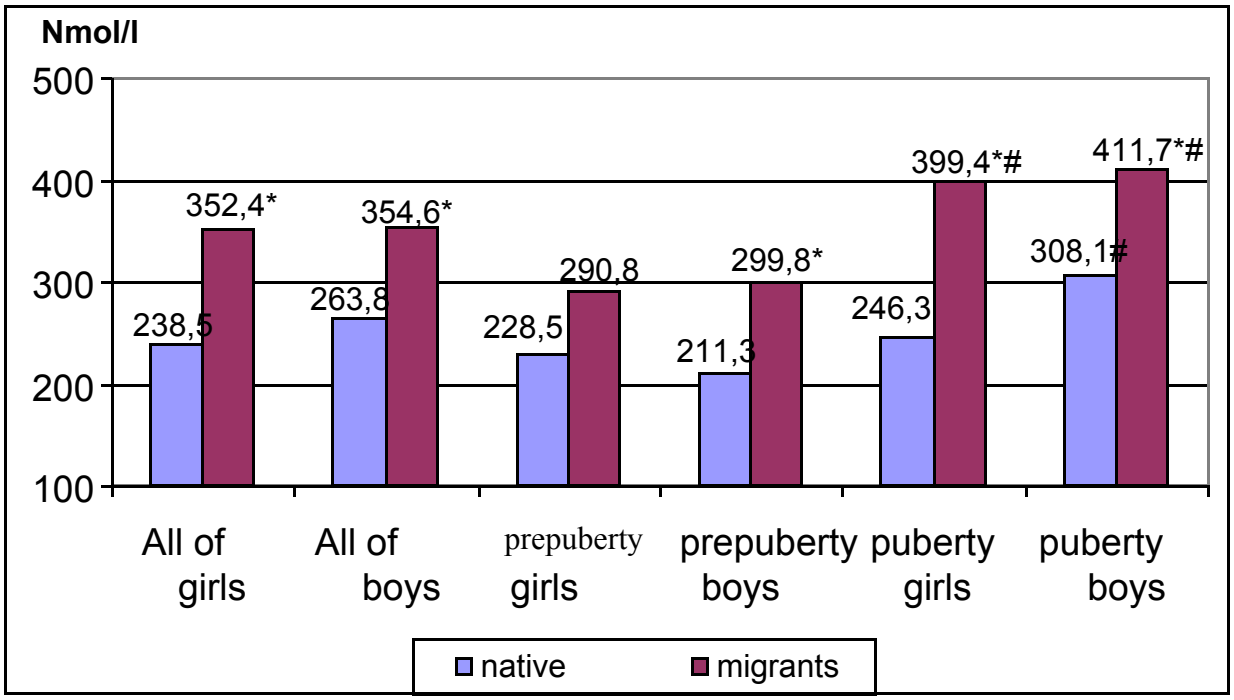
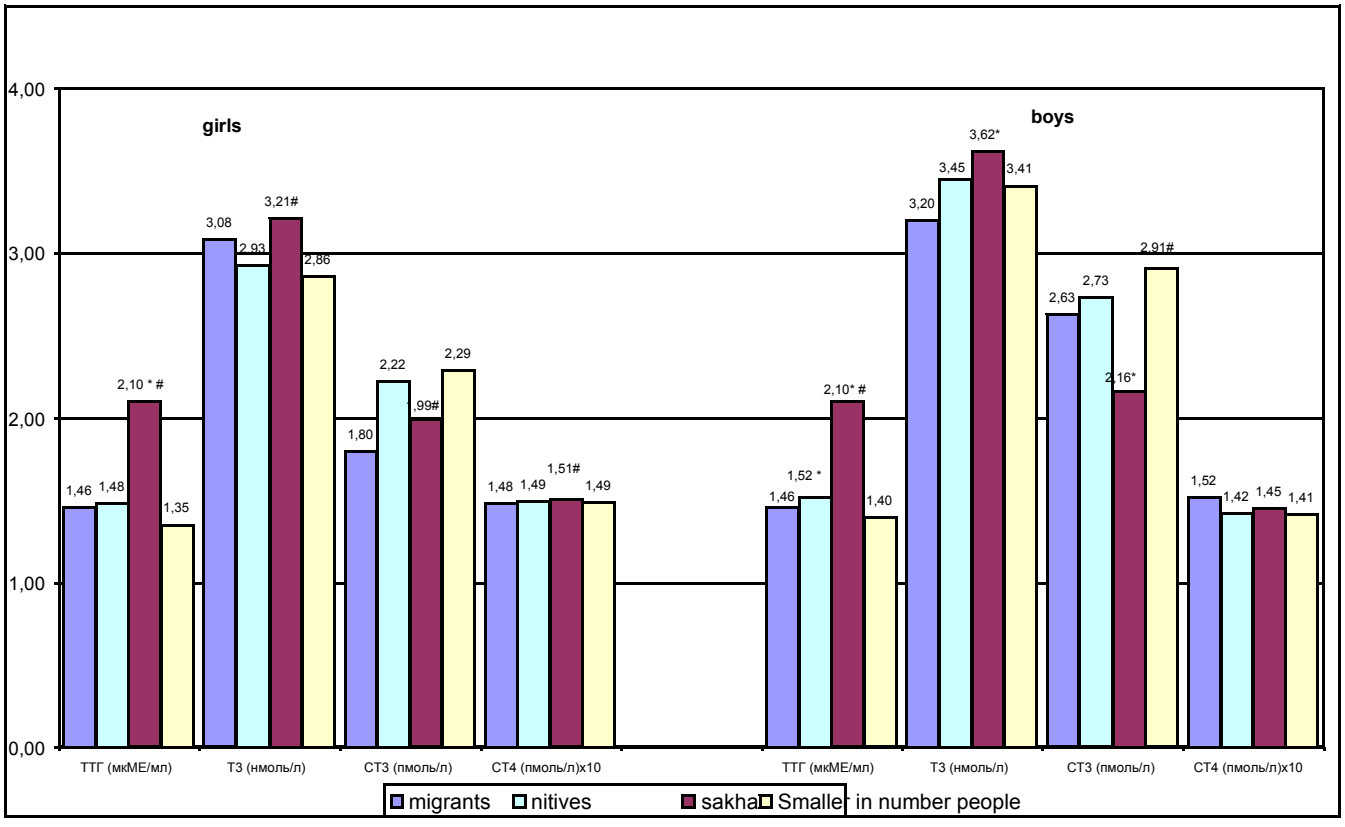


Diagramm.3 The hypophiz-thyreoid system to the native and migrates teenagers from Yakutia



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