## PUBERTY DELAY IN GIRLS: ETIOLOGICAL STRUCTURE OF THE DISEASE

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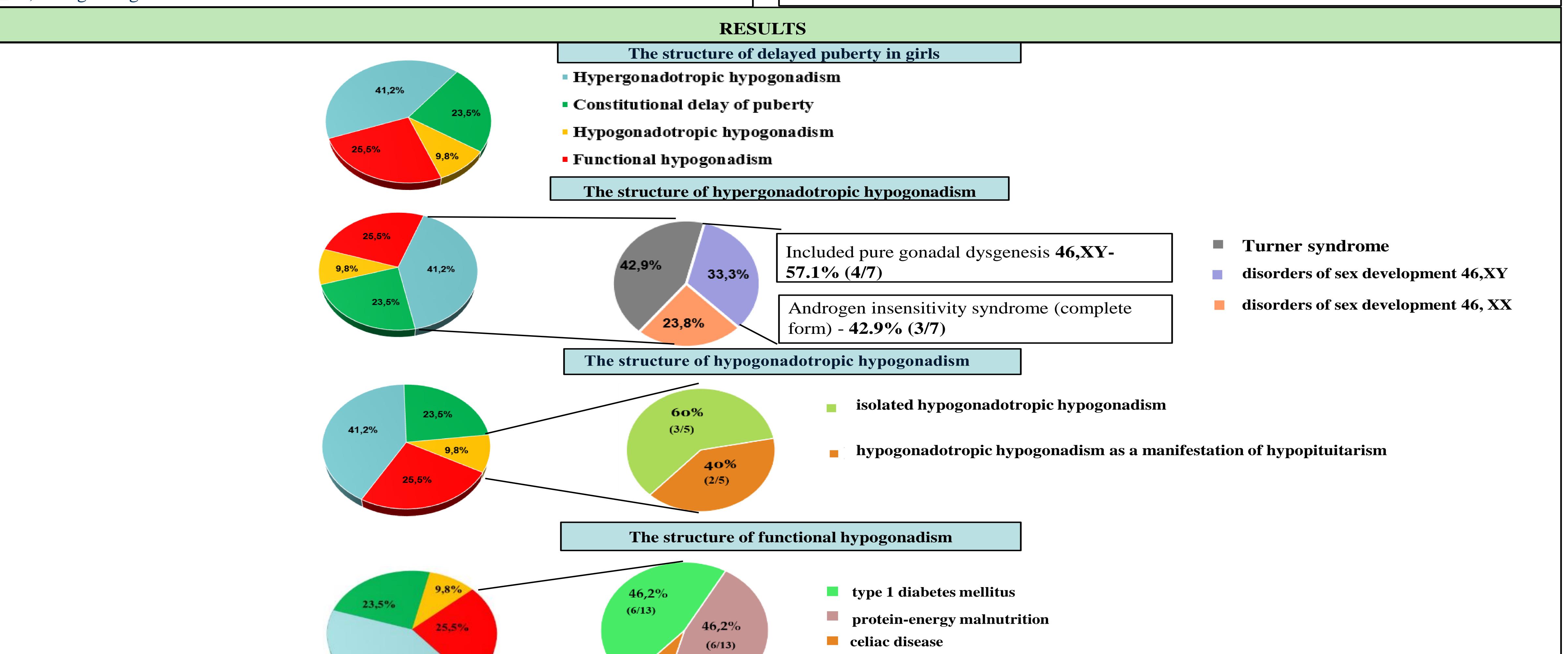
## **OBJECTIVE**

To analyze the structure of puberty delay in girls depending on the etiology of the disease.

## **METHODS**

51 girls with puberty delay ( $14.2\pm0.82$ ) were examined. Inclusion criteria: absence of secondary sex characteristics at 13; or absence of menarche by age 15 years or the absence of menarche during 3 years from the onset of estrogen-dependent puberty signs development. Exclusion criteria: age  $\geq 18$ , ambiguous genitalia.

Tanner stage, antropometric data, bone ages, genitometric parameters, LH, FSH, estradiol, testosterone, DHEA, inhibin B, AMH were provided. Stimulation tests using gonadotropin analog (n=24), cytogenetic (n=45), molecular genetic tests (n=7) and brain MRI with contrast agent were provided (n=5).



## CONCLUSION

Puberty delay structure in girls includes the equal proportions of transient and permanent hypogonadism cases. Hypergonadotropic hypogonadism is more often associated with permanent puberty delay (Turner syndrome, disorders of sex development, pure gonadal dysgenesis 46, XX, pure gonadal dysgenesis 46, XY, androgen insensitivity syndrome, while hypogonadotropic hypogonadism (isolated gonadotropin deficiency and hypopituitarism) is diagnosed in 1 out of 10 cases. Transient puberty delay as a result of constitutional delay of puberty in girls is observed as often as when it caused by functional hypogonadism due to somatogenic pathology (type 1 diabetes mellitus, protein – energy malnutrition, celiac disease).

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