

CLINICAL AND LABORATORY CHARACTERISTICS OF PATIENTS WITH DIFFERENT VARIANTS OF GONADAL DYSGENESIS

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OBJECTIVE

To study clinical and laboratory characteristics of patients with disorders of sex development (DSD) 45,X/46,XY and 46,XY, partial gonadal dysgenesis (PGD)

□ The reason for the initial treatment of all patients was ambiguous genitalia

Mediana EMS: 4,5 [1÷10] in patients with mosaicism 1,25 [1;5] – with DSD 46,XY, partial gonadal dysgenesis (p=0,033)

It was included 27 patients with disorders of gonadal dysgenesis since birth before 9 y.o

Gonadal dysgenesis criteria:

SUBJECTS and METHODS

- 45,X/46,XY
- 46,XY with derivats Mullerian duct

All children evaluated:

- The structure of external genitalia by the external masculinization score (EMS, range 0-12)
- The structure of the internal genitalia (pelvic ultrasound, n=27, laparoscopy, n=25)
- Hormonal research in mini-puberty (follicle-stimulating hormone, FSH, n=15, luteinising hormone,LH, n=14, inhibin B, n=9)
- Hormonal research in mini-puberty and neutral period (anti-Mullerian hormone, AMH, n=24, basal testosterone and after the human chorionic gonadotrophin stimulation test, ΔT , n=22)

RESULTS

□ All patients were divided into two groups based on cytogenetic survey

37% (n=10)

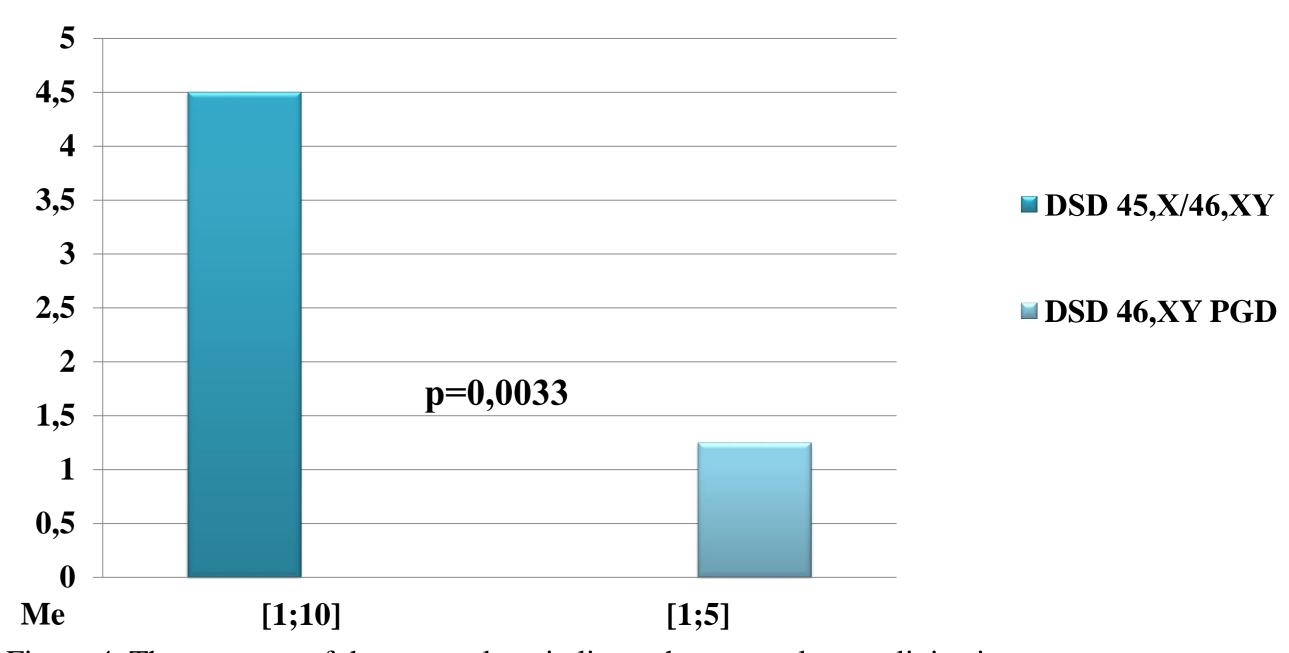
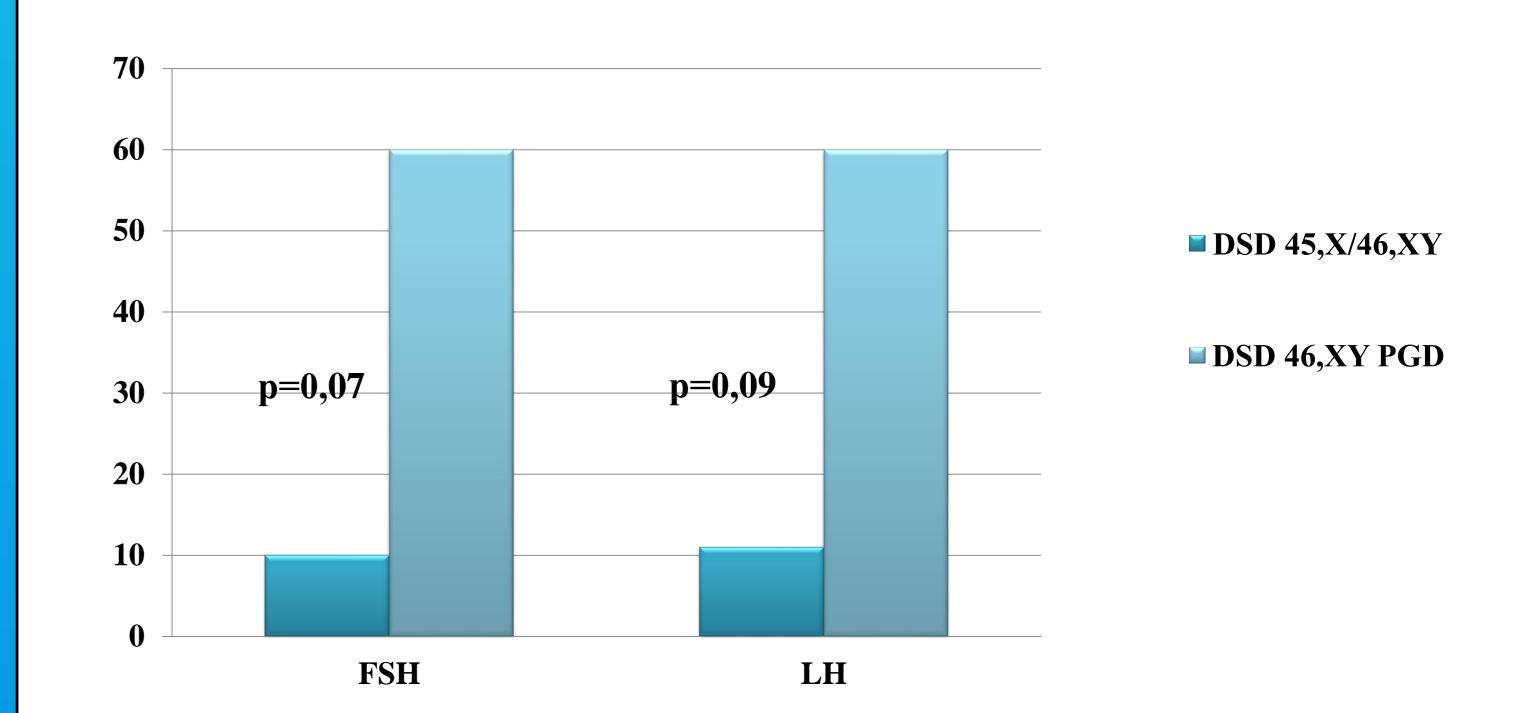


Figure 4. The structure of the external genitalia on the external masculinization score

□ In the group with DSD 46,XY PGD were more often elevated values FSH and LH than in the group with DSD 45,X/46,XY



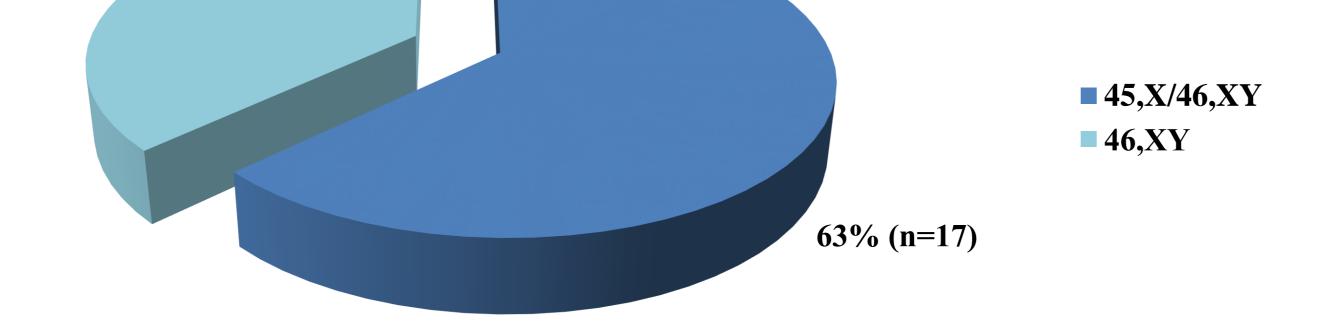


Figure 1. The structure of patients with DSD

□ Age verification diagnosis in patients were divided into three groups

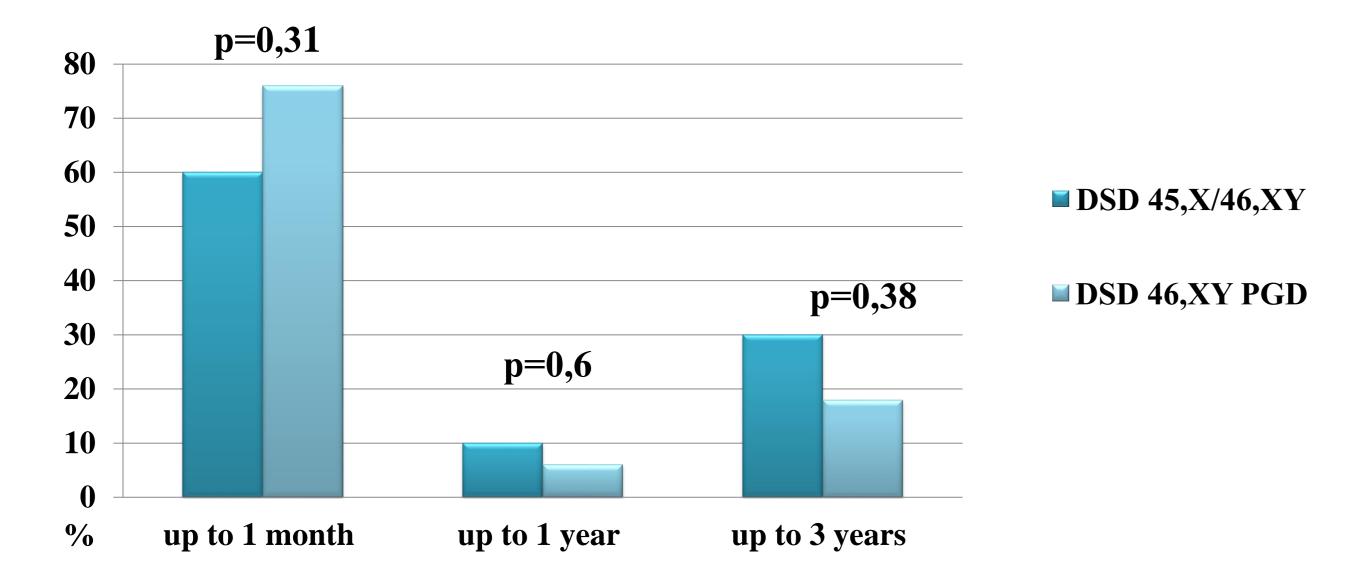
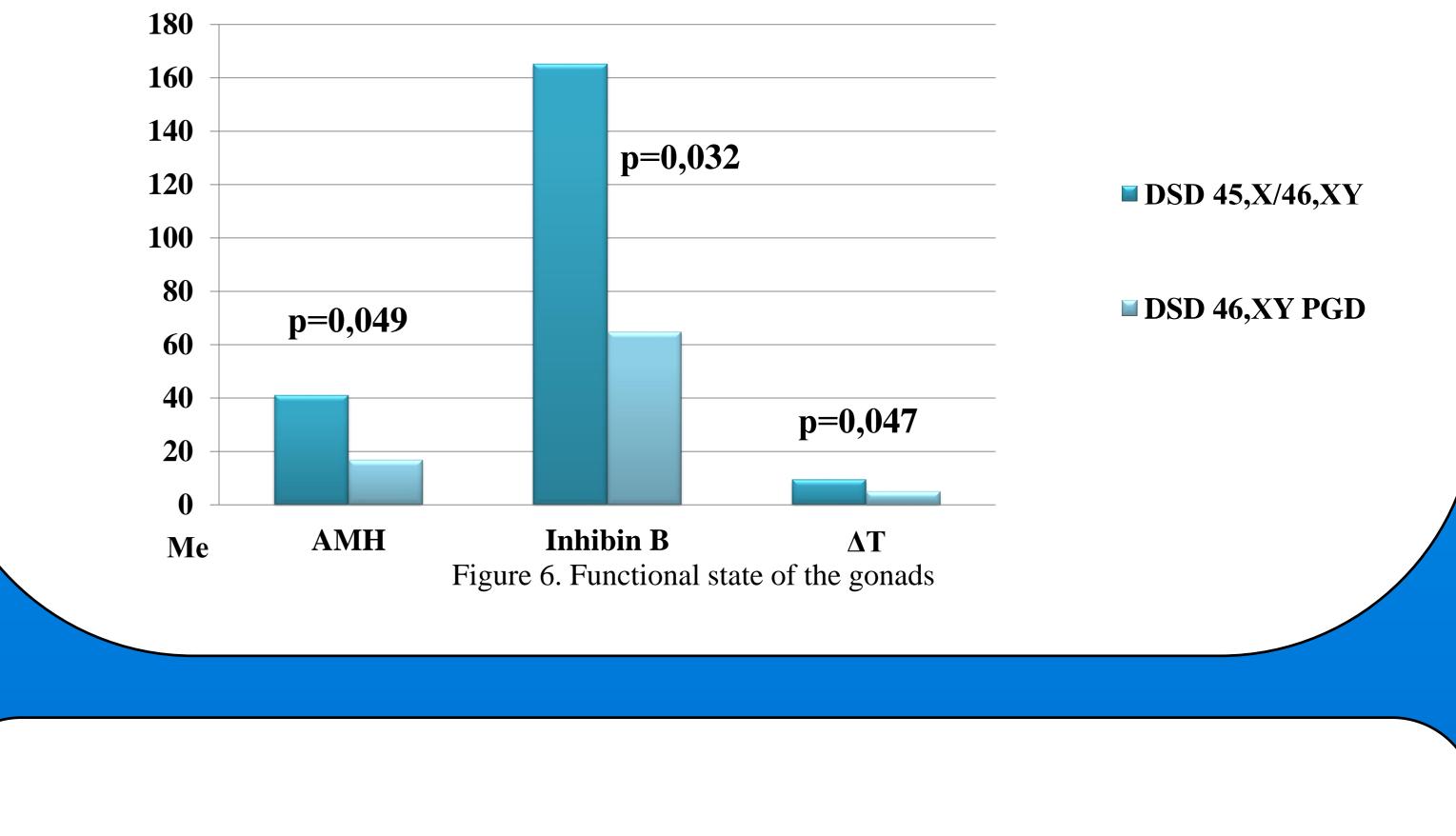


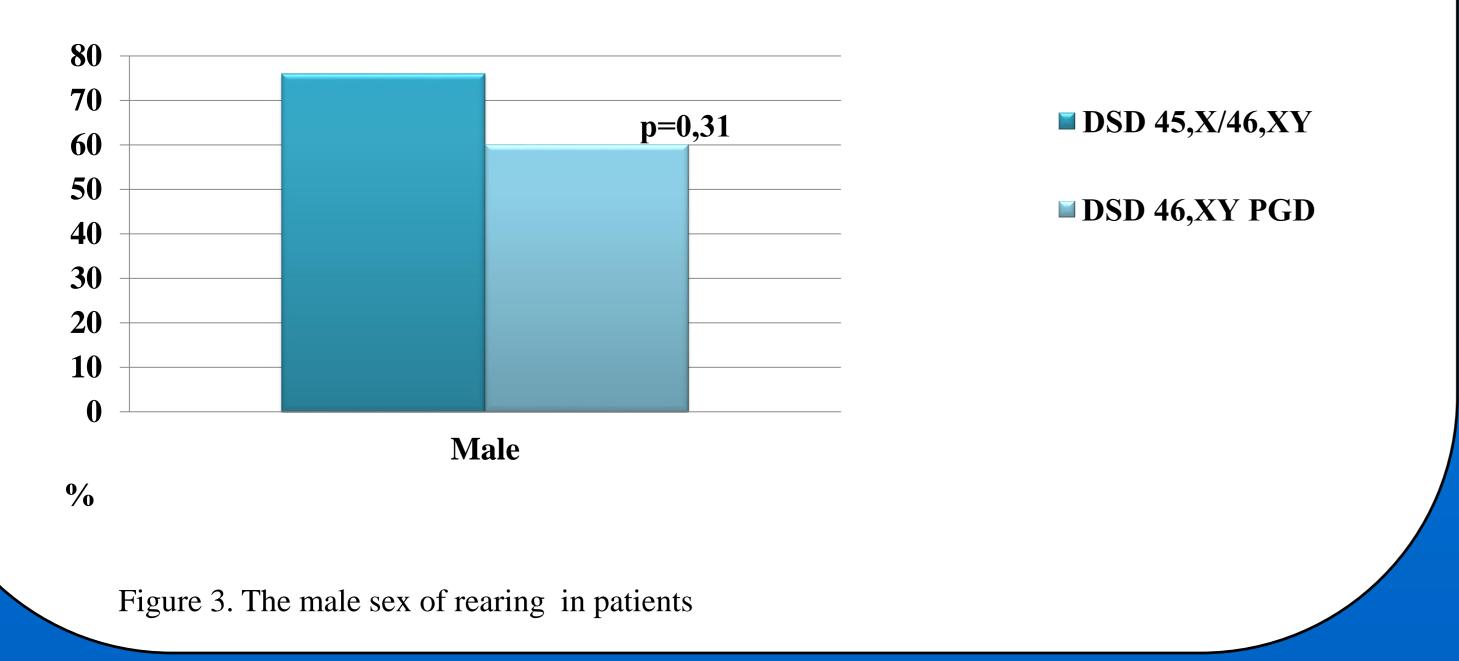
Figure 2. Age verification diagnosis

Figure 5. Functional state of the pituitary-gonadal system

□ Functional state of the gonads in patients with mosaicism was more safe than in patients with 46,XY PGD



□ Male gender selected in 76% of patients in group with mosaicism and in 60% with partial gonadal dysgenesis



CONCLUSION

Patients with DSD 45,X/46,XY in comparison with DSD 46,XY partial gonadal dysgenesis had safer gonad function and more pronounced degree of masculinization of the external genitalia

P3-242 Sex differentiation, gonads and gynaecology or sex endocrinology

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