

ENDOCRINE DISORDERS IN WOMEN WITH TURNER SYNDROME

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INTRODUCTION: Turner syndrome (TS) is the most common METHODS: We analyzed retrospectively 6 cases of women absence of the X chromosome. The clinical manifestations are diverse and TS is accompanied by multiple medical problems.

chromosomal abnormality in women. It occurs in 1/2,500 to with TS aged 20-66 years, treated at Endocrinology 1/3,000 live-born females and results from a **total or partial** Department between 2003 and 2014, to describe endocrine disorders in such patients. In the studied subjects, the diagnosis of TS was made in childhood (1 patient), in adolescence (3 cases) or in adulthood (2 women), based on clinical symptoms as well as genetic tests.

RESULTS:

3 women with short stature received recombinant human growth hormone. The average height was 152.5 ± 6.53 cm. None of patients were obese (BMI: 24.12 ± 2.88 kg/m²). Sex hormone replacement therapy was used by 4 women, 2 the oldest non-treated patients suffered from osteoporosis. Subjects with hypothyroidism due to Hashimoto's thyroiditis used levothyroxine. Patient with type 1 diabetes had many diabetic complications such as: coronary heart disease, cerebrovascular disease, peripheral vascular disease, sensory neuropathy, diabetic amyotrophy, glaucoma, cataract.

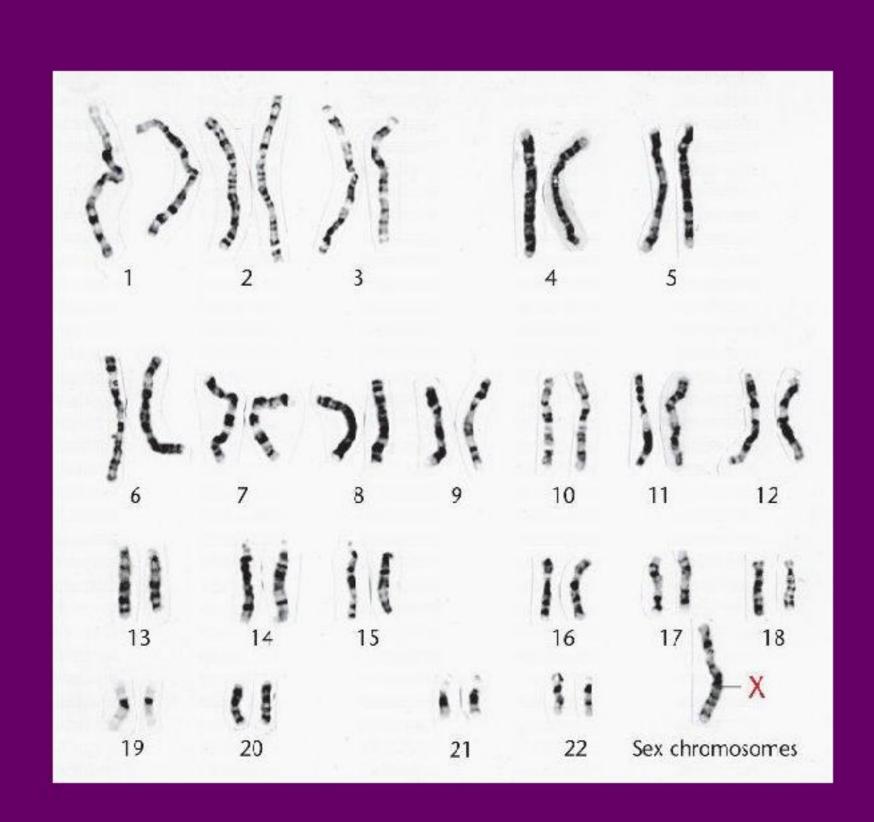


Fig. 1. Karyotype of Turner syndrome (Ref. www.geoset.info)

ENDOCRINE DISORDERS in TS	NUMBER of PATIENTS (n=6)
short stature	6
• primary amenorrhea	5
 premature ovarian insufficiency 	1
• clitoromegaly	1
 leukoplakia vulvae 	1
 hypothyroidism due to Hashimoto's thyroiditis 	5
 diabetes mellitus (type1 and type 2) 	2
 non-functioning pituitary adenoma 	1
 osteoporosis 	2

Moreover other non-endocrine diseases were observed, including: coeliac disease (2 cases), hypertension (3 patients), mitral incompetence and tricuspid regurgitation (1 woman), impaired hearing (2 subjects), ectopic or horseshoe kidney (2 cases).

The **intellectual performance** was within the normal range in 4 women, 2 patients were mentally retarded.

CONCLUSIONS: Most of subjects with TS have hormonal disorders. Therefore, endocrine care is needed to optimize patients' treatment.

17th European Congress of Endocrinology, 16-20.05.2015 DUBLIN









