

## About a case of Basedow-Graves' disease in a infant

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### Introduction

Graves' disease is a disease of the immune system, responsible for 95% of cases of hyperthyroidism in children, Fortunately, this disease is very rare at this age and only one child in 10 million is affected . like most of thyroid dysfunction , Graves' disease is much more common in teenager's age and it affects more girls than boys

This is the Khadija 3 years and 5 months old girl, born and residing at Tlemcen admitted to our department for the exploration of a goiter

### Antecedents

Food habits: no goitrogenic substances, no drug taking,  
No consanguinity concept  
A paternal aunt who had a goiter

### Clinic

The disorder onset was one year ago marked by  
- a height and weight advance: + 1DS weight, height +3.2 DS  
- BMI 13  
- Tachycardia: FC 180 beats / min  
- Asthenia, profuse sweating and irritability important  
- A goiter  
- Exophthalmos  
- Bone age Advance to 5 years

**Goiter:** cervical perimeter 24 cm



**Exophthalmos**



### Echographie

A thyroid gland size increased: inhomogeneous echogenicity and regular contours  
Free vascular axis  
Many bilateral cervical adenopathies of 4 to 20 mm

### Biologie

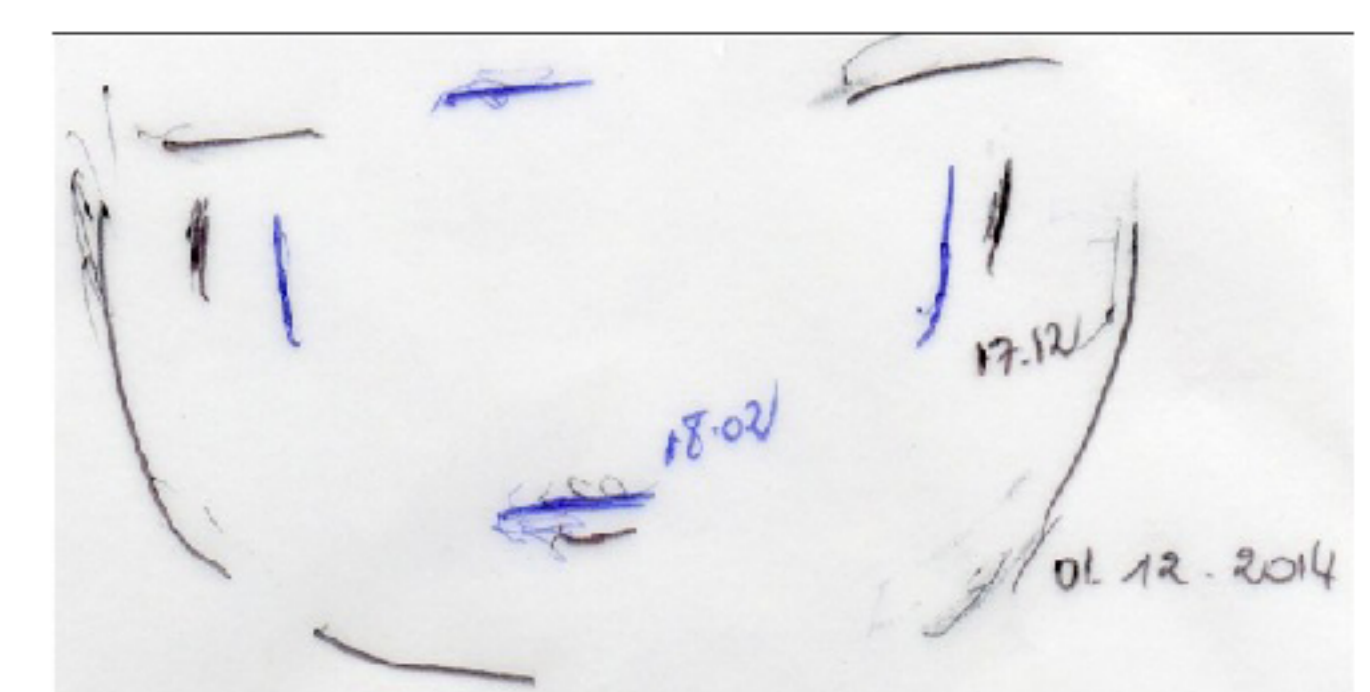
TSH < 0,05 uUI/ml (NI < 0,17)  
T4 > 100 pm / l (NI < 25)  
anti Ac -thyroglobulines: 82 IU / ml,  
TPOAb: 926 IU / ml +++,  
anti-TRAK Ac: 32 U / L +++

### Thyroïde scintigraphy:

increased size uniform intense fixation,  
hyper goiter capturing evoking  
m. Basedow

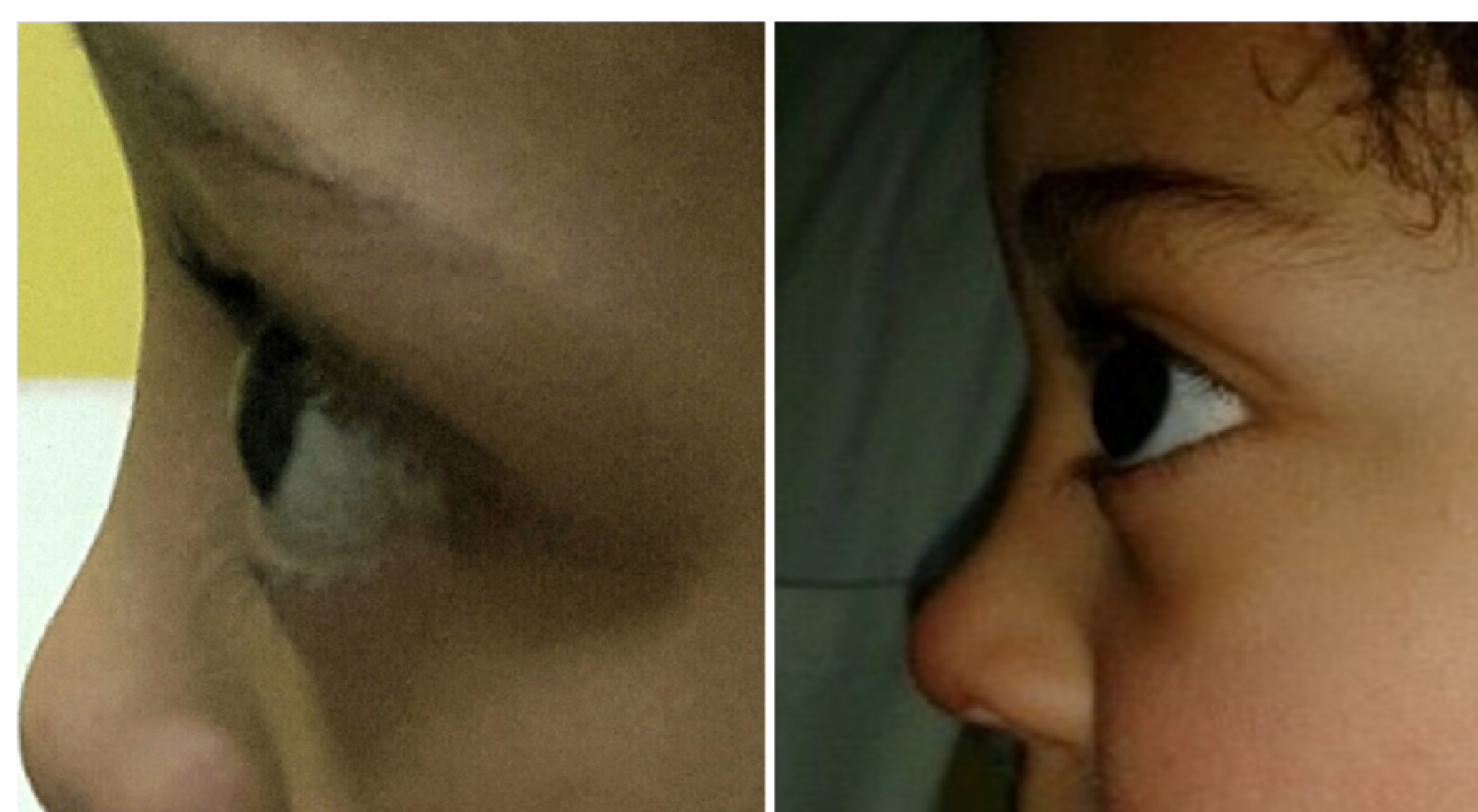
### Treatment

she's receiving Propranolol 40 mg / jr  
Eye protection by artificial tears  
and Carbimazole 0.5mg / kg / day



### Evolution 3 months

Weight gain of 2 kg  
FC 120 beats / min  
Cervical perimeter 22 cm  
T4 28 pmol / l  
TSH always <0.10 IU / l  
TRAK 23 U / L decreased by almost a third



Regression of  
goitre and  
exophthalmos  
after 3 months  
in pictures

### Conclusion:

Need to improve the therapeutic management, and identify the prognostic factors of the disease remission, which could help to better define the optimum period of medical treatment and precise when choos-

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