## Type 1 diabetes mellitus and precocios puberty: rare association

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- Precocious puberty is defined as pubertal development that begins at an earlier age than expected; most pediatric endocrinology subspecialists use cutoff ages of 8 years for girls and 9 years for boys.
- We reported in this case, rare association between type 1 diabetes mellitus and precocios puberty.

#### clinical examination

- √ weight: 23 kg (+1,65DS)
- ✓ Height: 121cm (+2,04 DS)
- $\checkmark$  BMI=15,70 Kg/m<sup>2</sup>
- ✓ Tanner classification: A1 P3 S3
- ✓ Vaginal mucosa was estrogenized.
- ✓ Growth velocity: 8,5 cm/years

## Are there any signs of estrogenic impregnation?

• Pelvic ultrasound:

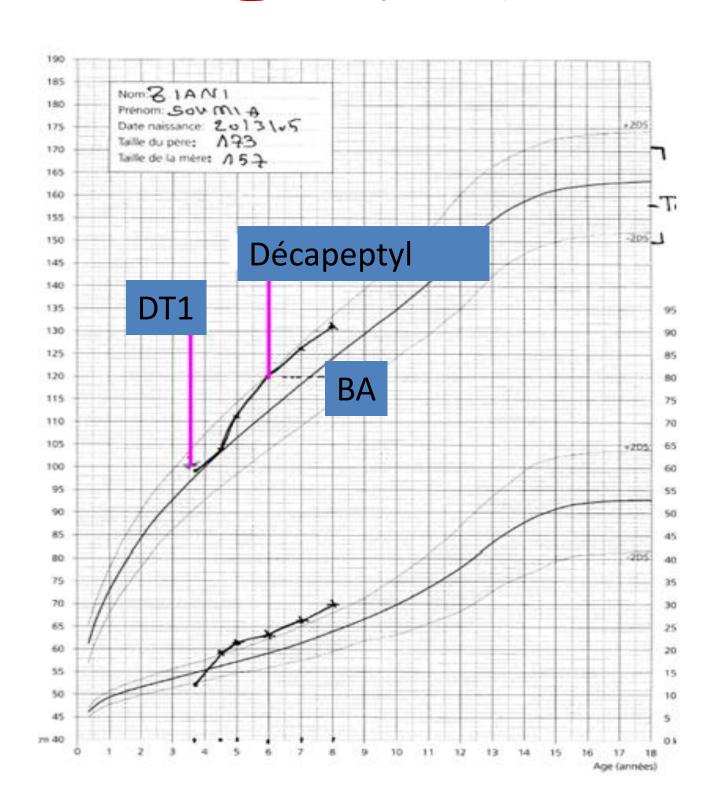
uterine size:37mm

✓ ovarian size and volume:

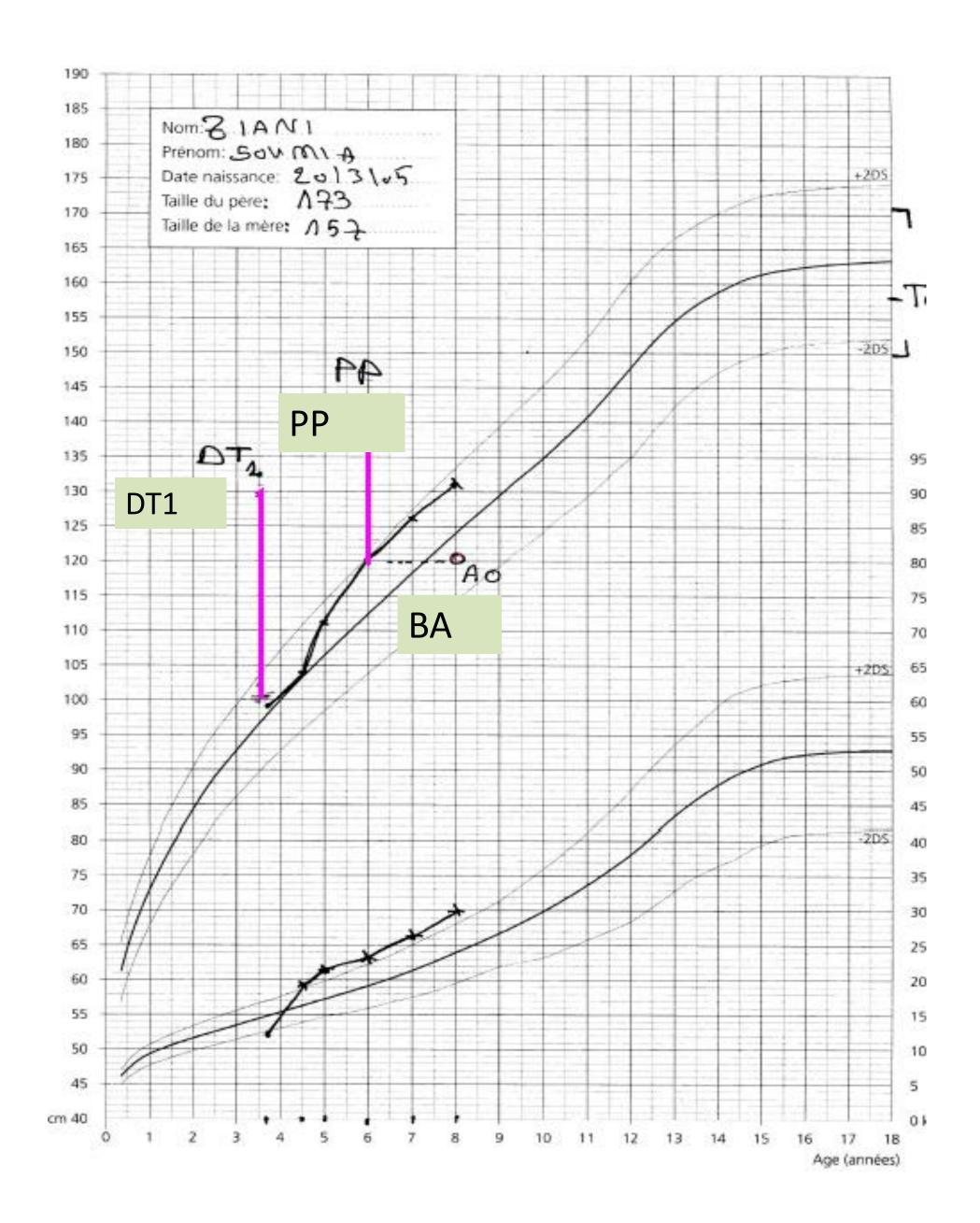
L: 15,9 mm x 11,1 mm R:17,4 mm x 12,3 mm.

- \* bone age: 8 ans,
- \* Chronological age: 6 ans

#### **Evolution**



- We present a girl with type 1 diabetes developed at the age of 3 years, with good glycemic control using insulin.
- at the age of 6 years child had breast enlargement, height increase, and an increase in growth velocity



#### Biochemically and MRI

- GnRH stimulation test: LH =5,8 IU/L
- MRI: NL

### Central precocious puberty idiopathic

Traitement: GnRHa
(DECAPEPTYL®, 1 inj/mois IM

#### Conclusion

- Precocious puberty and type 1 diabetes is a rare association.
- The relationship has not been determined









