

## INTRODUCTION

**Premature adrenarche (PA)**,

- appearance of pubic and/or axillary hair in girls younger than 8 years old
- caused by the rise in adrenal androgen production
- Dehydroepiandrosterone (DHEA)
- DHEA sulfate (DHEAS)
- Androstenedione (A4)

**Biochemical marker of adrenarche:** DHEAS ≥ 400 µg/L

Adrenals also produce

**<u>11-oxygenated C19 androgens:</u>** 

11β-OH androstenedione (110HA4)

11β-OH testosterone (110HT)

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Ethical approval was obtained for this study.

## **CONTACT INFORMATION**

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# Correlation of 11-oxygenated C19 androgens with the clinical and biochemical characteristics

characteristics of PA

A cross-sectional study Quantitation of plasma

- DHEA
- DHEAS
- **A4**
- Androsterone
- 170Hpregnenolone
- **110HA4**
- **110HT**

Age range 3.6-8.5 yrs, girls Control group (n=35)

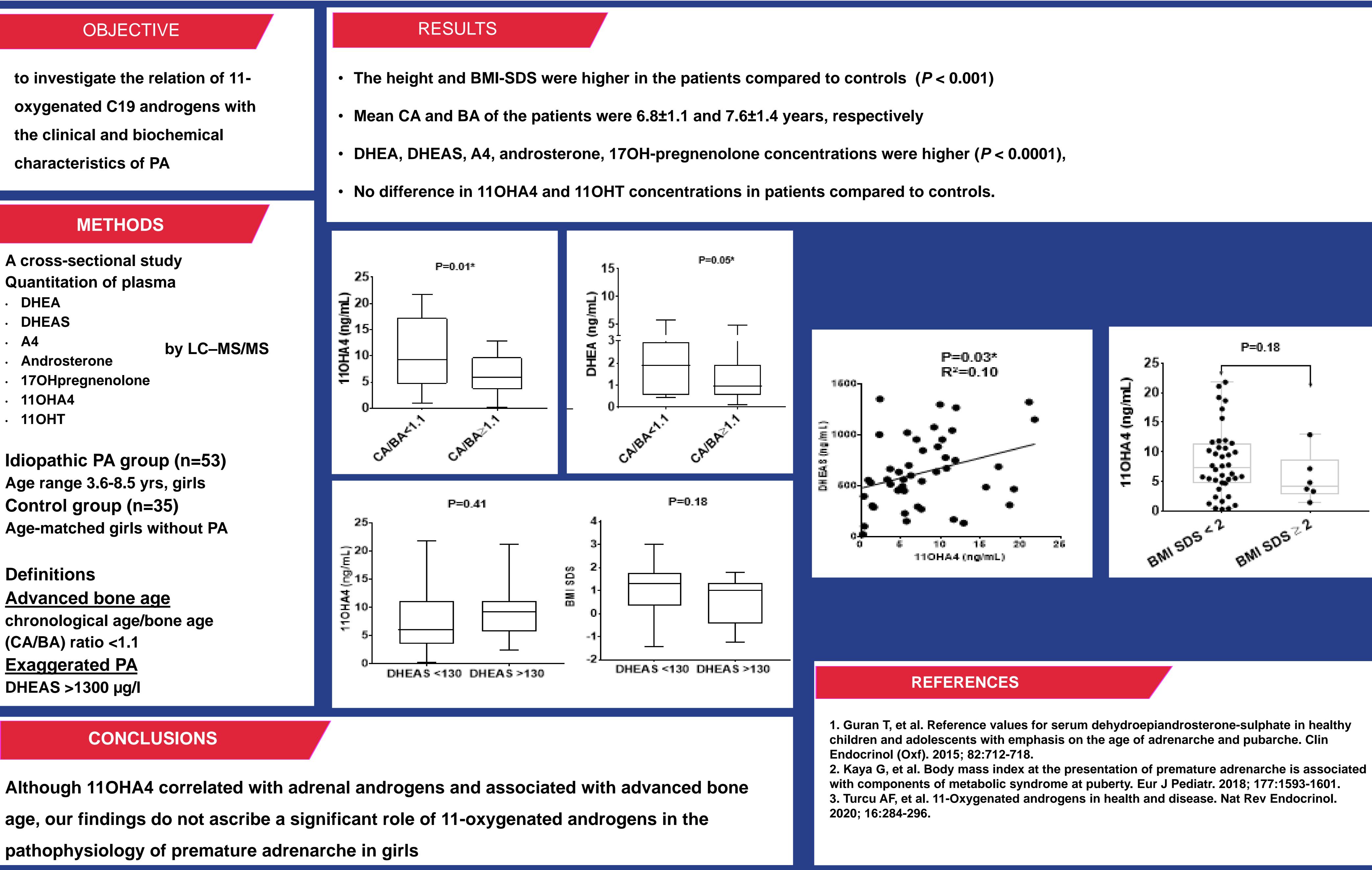
**Definitions** Advanced bone age chronological age/bone age (CA/BA) ratio <1.1 **Exaggerated PA** DHEAS >1300 µg/l

pathophysiology of premature adrenarche in girls

## in premature adrenarche

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