## WHAT IS CPP? FACTS TO KNOW

Central precocious puberty (CPP) is when a child shows signs of puberty sooner than normal.<sup>12</sup>

Before age





Before age

in boys



CPP can be diagnosed in children as young as 2 years old.<sup>3</sup>

CPP is more common

in girls

than boys

Although the exact cause is unknown, CPP results from early release of gonadotro-pin-releasing hormone (GnRH) by a part of the brain called the hypothalamus.<sup>5</sup>



- The early release of GnRH leads to the production of estrogen and testosterone by the ovaries or testicles
- > Estrogen and testosterone cause the physical changes of puberty

Common signs of puberty in girls and boys are:

Girls<sup>6-8</sup>



- Breast development
- Menstrual period
- Pubic or underarm hair
- Oily skin/acne
- Adult body odor
- Sudden growth spurt

**Boys**<sup>7-10</sup>



- Testicle & penis enlargement
- Erections
- Voice change
- Facial hair
- Muscle growth
- Pubic or underarm hair
- Oily skin/acne
- Adult body odor
- Sudden growth spurt

Without treatment, as adults, children with CPP will be shorter in height due to the premature fusion of growth plates.<sup>11</sup> CPP has also been associated with low self-esteem and higher anxiety, irritability or withdrawal.<sup>5,12,13</sup>



GnRH inhibitors are the primary CPP treatment and can help preserve time in childhood.<sup>14</sup>

For more information, please visit www.factsaboutearlypuberty.com

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