



The outward signs of puberty described here are determined by sex-specific sex hormones. During childhood little or no sex hormones are produced by the boy's testicles. But from the eleventh year a certain amount of testosterone production, never small, may be clearly detected in the sex glands. Between the ages of thirteen and sixteen the testicles increase production of male hormones (known as androgens); production peaks at the age of about twenty-five to thirty. While testosterone is being produced in the testicles, another hormone made up of weaker androgens is produced in the cortex of the adrenal gland. The production of estrogen, a general female sex hormone, increases at the same time as the production of androgens in the male organism. Female hormones are also produced in the adrenal glands and testicles. Testosterone is converted into estrogen in the liver, mainly in the male organism is not yet



Signs of puberty appear slightly earlier in girls than in boys, usually at about age ten to eleven. They are also brought about by the combined action of androgens and estrogens.

Unlike the male sex glands, the testicles, which may produce sperm in undiminished quantities from puberty throughout life, the ovaries produce only a finite number of egg cells, right from birth. Approximately 400,000 oocytes, mature egg cells, are present in both ovaries. Only a small fraction of them come to maturity during the woman's reproductive period.

As in a boy, the external changes in a pubescent girl take place in a characteristic order. First the mammary glands swell, then the pubic hair appears gradually, and at the same time the menstrual growth spurt begins. Over the next few years the breasts grow larger. Somewhere between age eleven menstruation (menses) begins. The menstruation may also set in as early as age ten or not until age fifteen or sixteen.



The production of estrogen in the ovaries is influenced by the course of puberty. As the androgens and estrogens, androgens, are produced in the female body, causing the growth of the secondary female pubic hair. These male hormones are secreted partly in the ovaries, and to a lesser extent by the adrenal glands. Towards the end of the menstrual cycle, generally twenty to twenty-five days, a follicle develops. In the first half of the cycle a follicle ripens on the ovary, then it comes to a certain place. In the second phase the follicle degenerates toward the end of the cycle, and a "yellow body" forms from the remains of the follicle as a hormone-secreting organ, thus provoking the menstrual flow. If this process occurs regularly over a long period of time, which a girl may ascertain with the help of a menstruation calendar and by measuring the basal temperature (see Methods of Conception), then puberty is over.

As soon as the first physical signs of puberty appear in their children, parents should prepare to notice further important physical changes. They will soon observe in themselves—in a girl, the first menstrual period, and in a boy, seminal



A mother should understand the changes that are taking place in her child. She should know how to help her child during a period. A girl should wash her genital tract carefully with warm water during menstruation. A mother should understand that the first menstrual period is a healthy sign of physical maturity, and it means that the girl has entered the stage of life known as adolescence.

As a rule it is the father of the child, since his testicles produce sperm cells, puberty will set in first in him. The boy's first seminal emission may come suddenly at night or in the morning. A father or mother may have a few days of a boy's first experience and think he is

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