

Chapter 14: Adolescence: Biosocial Development:

1. Puberty begins: *Puberty* is the time between the first onrush of hormones and full adult physical development. Puberty usually lasts 3-5 years. More years are required to achieve psychosocial maturity. *Menarche* is a girls first menstrual period signaling she has begun ovulation. Pregnancy is biologically possible, ovulation and menstruation is irregular at first. *Spermarche* is a boys first ejaculation of sperm. Erections can occur as early as infancy but ejaculation signals sperm production.
 - A. Unseen Beginnings:
 1. Hormones: organic chemical substance that is produced by one body tissue and conveyed via the bloodstream to another to affect some physiological function.
 2. Pituitary: a gland in the brain that responds to a signal from the hypothalamus by producing many hormones including those that regulate growth and that control other glands among them the sex and adrenal glands.
 3. Adrenal glands: 2 glands located above the kidney that produce hormones (epinephrine, norepinephrine)
 4. HPA (hypothalamus-pituitary adrenal axis): sequence of hormone production originating in the hypothalamus and moving to the pituitary and then to the adrenal glands.
 5. Sex hormones: gonads are paired sex glands that produce hormones and gametes. HPG (hypothalamus-pituitary gonad) axis is an important sequence of hormone production. GnRH increases the production of sex hormones
 - a. Estradiol: sex hormone, the chief estrogen. Females produce more than males do
 - b. Testosterone: a sex hormone secreted in greater quantities by males than females.
 6. Body Rhythms: brain responds to the environment. *Circadian rhythm* is a day-night cycle of biological activity that occurs approx. every 24 hours. The hypothalamus and the pituitary regulate the hormones that affect patterns of stress, appetite, sleep etc. Can cause a phase delay in circadian sleep cycles. Puberty circadian rhythm is delayed. Sleep deprivation is also common.
 - B. Age and Puberty: hormones increase in between age 8 and 14. Possible to predict puberty timing if genes, gender, body fat and stress is known.
 1. Genes and gender: 2/3 of variation in puberty is genetic. Sex chromosomes have an effect too. Height of the girl is 2 years ahead of boys.
 2. Body fat: heavier girls reach menarche earlier. *Secular trend* shows the long-term upward or downward direction of a certain set of statistics. Improved nutrition and medical care children tend to reach adult height earlier. Precocious puberty seems more common but still rare (before age 8).
 3. Hormones: hormones as well as genes affect sex differences, height and weight. All these might in turn affect puberty. The hormone *leptin* is a hormone that affects appetite and is believed to affect the onset of puberty. Leptin levels increase during childhood and peak around age 12. Body fat produces leptin. Precise impact of chemicals is not yet known. Female system is especially sensitive.

Developmental Psychology Chapter 14

Robert E. Schell, Elizabeth Hall



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interrogates the assumptions and practices surrounding the psychology of child development providing a critical evaluation of the role and contribution of developmental psychology within social practice In the decade since the first edition was published there have been many major changes The role accorded childcare experts and the power of the psy complex have if anything intensified This book addresses how shifts in advanced capitalism have produced new understandings of children and a new and more punitive range of institutional responses to children It engages with the paradoxes of childhood in an era when young adults are increasingly economically dependent on their families and in a political context of heightened insecurity The new edition includes an updated review of developments in psychological theory in attachment evolutionary psychology theory of mind cultural historical approaches as well as updating and reflecting upon the changed focus on fathers and fathering It offers new perspectives on the connections between Piaget and Vygotsky and now connects much more closely with discussions from the sociology of childhood and critical educational research Coverage has been expanded to include more material on child rights debates and a new chapter addresses practice dilemmas around child protection which engages even more with the raced and gendered effects of current policies involving children This engaging and accessible text provides key resources to inform better professional practice in social work education and health contexts It offers critical insights into the politics and procedures that have shaped developmental psychological knowledge It will be essential reading for anyone working with children or concerned with policies around children and families It was also be of interest to students at undergraduate and postgraduate levels across a range of professional and practitioner groups as well as parents and policy makers Handbook of Psychology, Developmental Psychology Irving B. Weiner,Donald K.

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