

I'm not robot!



















26-4 2 cm long and 1 cm wide. Their size increases only slightly during the prepubertal years. Adolescents Puberty begins sometime between the ages of 9% and 13%. The first sign is enlargement of the testes. Next, pubic hair appears, and then penis size increases. The stages of development are documented in Tanner's sexual maturity rating (Table 26-1). The complete change in development from preadolescence to an adult takes approximately 3 years, and the normal range is 2 to 5 years (Figure 26-4). The chart shown in Figure 26-4 is useful in teaching a boy the expected sequence of events and in reassuring him about the wide range of ages when these events normally occur. Adults and Older Adults The level of sexual development at the end of puberty remains constant through early and middle adulthood, with no further genital growth and no change in circulating sex hormone. Men do not experience a definite end to fertility, as women do. At approximately age 40 years, the production of sperm begins to decrease, although production continues into the 80s and 90s. After age 55 to 60 years, testosterone production declines very gradually so that resulting physical changes are not evident until later in life. Aging changes also result from decreased muscle tone, decreased subcutaneous fat, and decreased cellular metabolism. In older men, the amount of pubic hair decreases, and the remaining hair turns grey. Penis size decreases. Because of decreased tone of the dartos muscle, the scrotal contents hang lower, the rugae decrease, and the scrotum looks pendulous. The testes decrease in size and are less firm to palpation. Increased connective tissue is present in the tubules, and so these become thickened and produce less sperm. In general, declining testosterone production leaves older men with a slower and less intense sexual response. Although a wide range of individual differences can occur, an older man may find that an erection takes longer to develop and that it is less full or firm. Once obtained, the erection may be maintained for longer periods without ejaculation. Ejaculation is shorter and less forceful, and the volume of seminal fluid is less than when the man was younger. After ejaculation, detumescence (return to the flaccid state) is rapid, especially after 60 years of age. This occurs in a few seconds, in comparison with minutes or hours in a younger man. The refractory state—when the man is physiologically unable to ejaculate—lasts longer (from 12 to 24 hours) than in a younger man (2 minutes). Sexual Expression in Later Life. Chronological age by itself should not halt sexual activity. The aforementioned physical changes need not interfere with libido or pleasure from sexual intercourse. An older man is capable of sexual function as long as he is in reasonably good health and has an interested, willing partner. Even chronic illness does not put a complete end to sexual desire or activity. An older man may misinterpret normal age changes as sexual failure. Once this idea occurs, it may demoralize the man and place undue emphasis on performance rather than on pleasure. In the absence of disease, older men may withdraw from sexual activity for various reasons: loss of spouse; depression; preoccupation with work; marital or family conflict; side effects of medications such as antihypertensives, psychotropics, antidepressants, antispasmodics, sedatives, tranquilizers or narcotics, and estrogens; heavy use of alcohol; lack of privacy (living with adult children or in a nursing home); economic or emotional stress; poor nutrition; or fatigue. CULTURAL AND SOCIAL CONSIDERATIONS On occasion, parents ask about whether to circumcise an infant boy. Common reasons given in favour of circumcision are hygiene, avoidance of a later need for circumcision, medical indications, the father's circumcision status, and religious and cultural values. Since 1975, the policy of the Canadian Paediatric Society is that there is no medical indication for male neonatal circumcision. A statement issued by the Canadian Paediatric Society in 1996 and reaffirmed in 2002 strongly recommended that nontherapeutic neonatal circumcision not be routinely performed, and the procedure is no longer covered by provincial health insurance plans. Neonatal circumcision rates in Canada declined from about 48% in 1970 to about 31.99% in the period 2006 to 2007 (Public Health Agency of Canada, 2009). Research has demonstrated, however, that circumcision reduces acquisition of the human immunodeficiency virus (HIV) in men by 53% to 60% (Gray, Wawer, Serwadda, & Kigozi, 2009; Viscidi & Shah, 2010) and reduces HIV transmission to uninfected female sexual partners (Wawer et al., TABLE 26-1 719 Sexual Maturity Ratings in Boys Developmental Stage Public Hair Penis Scrotum No pubic hair; fine body hair on abdomen (vellus hair) continues over pubic area Preadolescent; size and proportion are the same as during childhood Preadolescent; size and proportion are the same as during childhood Few straight, slightly darker hairs at base of penis are long and downy Little or no enlargement Enlargement of testes and scrotum; scrotal skin reddens and changes in texture Sparse growth over entire pubis; hair is darker, coarser, and curly Enlargement, especially in length Further enlargement Thick growth over pubic area but not on thighs; hair coarse and curly, as in adult Continued enlargement in length and diameter, with development of glands Testes almost fully grown; scrotum darker Growth spread over medial thighs, although not yet up toward umbilicus; after puberty, pubic hair growth continues until the mid-20s, extending up the abdomen toward the umbilicus Adult size and shape Adult size and shape 1 2 3 4 5 Source: Adapted from Tanner, J. M. (1962). Growth at adolescence. Oxford, UK: Blackwell Scientific Publications, 2009). Circumcision also significantly reduces the incidence of herpes simplex virus type 2 (HSV-2) acquisition; the prevalence of human papillomavirus (HPV) (Tobian et al., 2009); and the risk for other sexually transmitted infections (STIs), such as Trichomonas vaginalis and bacterial vaginosis, in women with circumcised partners (Sobngwi-Tambekou et al., 2009). Circumcision carries a very small risk of complications. Most are minor and treatable: pain, bleeding, swelling, or inadequate skin removal. Serious complications are rare and include excess bleeding, wound infections, and Structure & Function CHAPTER 26 Male Genitourinary System Structure & Function Subjective Data 720 UNIT 3 Physical Examination urinary retention (Weiss, Larke, Halperin, & Schenker, 2010). Neonates are capable of perceiving pain; therefore, parents need to be apprised of pain-relief measures for the circumcision procedure, including oral and transdermal pain medication, dorsal penile nerve block, and comfort measures such as sucrose pacifier, stroking the infant, talking, and rocking (Stratman-Lucey & Caldwell, 2006). For an uncircumcised newborn, assess parental knowledge about care of the uncircumcised penis. The infant's penis should be cleaned with soap and water, but the foreskin should not be forcibly retracted. When the foreskin retracts easily, the area under the foreskin should be cleansed occasionally. By the age of 3 or 4 years, a boy can be taught to clean under his foreskin. When a boy reaches puberty, he needs to clean under his foreskin daily. Infection with HPV is common in boys and men, causes most cases of genital warts, and is associated with cancers of the penis, anus, and head and neck. The quadrivalent HPV vaccine previously approved for the prevention of cervical cancer in girls and women (see p. 753) has demonstrated efficacy in preventing HPV infection and diseases in boys and men (Giuliano et al., 2011). The vaccine has been approved for the prevention of genital warts in boys and men aged 9 to 26 in Canada (Public Health Agency of Canada, 2011). SUBJ E C T I V E DATA 1. Frequency, urgency, and nocturia 2. Dysuria 3. Hesitancy and straining 4. Urine colour 5. Past genitourinary history 6. Penis: pain, lesion, discharge 7. Scrotum: self-care behaviours, lump 8. Sexual activity and contraceptive use 9. STI contact HEALTH HISTORY QUESTIONS Examiner Asks 1. Frequency, urgency, and nocturia. Are you urinating more often than usual? • When you need to urinate, do you feel as if you cannot wait? • Do you awaken during the night because you need to urinate? How often? Is this a recent change? 2. Dysuria. Any pain or burning sensation with urinating? 3. Hesitancy and straining. Any trouble starting the urine stream? • Do you need to strain to start or maintain the stream? • Any change in force of stream: narrowing, becoming weaker? • Do you experience dribbling, so that you must stand closer to the toilet? • Afterward, do you still feel you need to urinate? • Have you ever had any urinary tract infections? Rationale The average adult voids five to six times per day; this amount varies with fluid intake, individual habits. Polyuria: excessive quantity Oliguria: diminished quantity, 38°C, change in character of urine (bloody, foul smell, increased sediment), positive dipstick for leukocytes, worsening of mental or functional status. Drainage or excretion of urethral orifice. CRITICAL FINDINGS 26-13 Indwelling urinary catheter. SELF-CARE: TESTICULAR SELF-EXAMINATION The overall incidence is rare, but testicular cancer occurs most commonly in men aged 15 to 49. Other risk factors include elevated descent of the testicles (if not corrected early), family or personal history of testicular cancer, and abnormal development of the testicle. Some men develop testicular cancer without having any of these risk factors. Some authorities consider teaching TSE controversial because the harm of causing anxiety and unwarranted medical costs exceed benefits of detection of a relatively rare lesion (Joffe, 2009). If detected early by palpation and treated, the cure rate is almost 100%. Therefore, all men aged 15 years and older should be aware of how their testicles normally look and feel and should report any of the following changes (Canadian Cancer Society, 2011) to a doctor: • A lump on the testicle • A painful testicle • A feeling of heaviness or dragging in the lower abdomen or scrotum • A dull ache in the lower abdomen and groin • Points to include during health teaching are as follows: • T = timing, once a month • S = showering; warm water relaxes scrotal sac • E = examining, checking for changes, reporting changes immediately Objective Data Decreased urine output may be a sign of renal or systemic problems such as dehydration, renal failure or hypovolemic shock. 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