



Child, 2nd edition

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Every chapter has been extensively revised and updated for the second edition, with new research findings, updated statistics, and expanded coverage of key topics.

Chapter Changes

Chapter 1 Introduction to Child Development

- New section on fields of study in child development
- Expanded description of genetic and environmental influences on development
- Updated statistics on U.S. household composition
- Updated statistics on ethnic minority populations and trends in the United States
- Perspectives on Diversity feature updated with demographic changes, effects of implementation of the Affordable Care Act, and potential changes to health insurance coverage under the new presidential administration
- Added discussion of diversity within ethnic categories and ethnic gloss
- Expanded discussion of active versus passive development and of continuous versus discontinuous development
- Expanded discussion of Erikson's theory of psychosocial development
- Added information about the history of learning theoretical approaches and why they gained prominence in the scientific community
- Expanded description of Pavlov's research

- Added specific examples of classical conditioning, positive and negative reinforcement and punishment, and the use of behavioral modification
- Added critique of learning theories as an overarching framework of development
- Expanded example of the processes of assimilation and accommodation
- Added a specific example of scaffolding
- New discussion of Vygotsky's experimental approach and expanded discussion of his impact on the field
- New example of how quantitative data can be used to infer internal mental processes in information processing research
- Added descriptions of each of Bronfenbrenner's systems, including the microsystem, mesosystem, exosystem, macrosystem, and chronosystem
- Expanded descriptions of evolutionary theory and evolutionary psychology
- New section on quantitative and qualitative research
- Added information on qualitative research methods and goals
- Expanded section on self-report measures
- Added information on observer bias
- Expanded information on pros and cons of case studies
- New example of a spurious correlation
- New material on operational definitions
- New section on random assignment
- Expanded description of field experiments
- New material on the pros and cons of cross-sectional and longitudinal research designs

Chapter 2 Conception, Heredity, and Environment

- Expanded discussion on causes of infertility
- Updated statistics on infertility and the use of artificial reproductive technologies
- Added coverage of the risks of multiple pregnancies and new guidelines for transfer of multiple embryos
- Updated information and statistics on adoption
- Revised discussion of recessive and dominant inheritance patterns
- Expanded discussion of multifactorial transmission and epigenetic changes
- Added material on racial and ethnic variations in prevalence of birth disorders
- Revised discussion of heritability
- Expanded discussion and examples of canalization and range of reaction
- Expanded examples for nonshared environmental influences in the family
- Expanded discussion of, and updated research on, the interaction of genes and environment on obesity, temperament, and schizophrenia

Chapter 3 Pregnancy and Prenatal Development

- Expanded description of the placenta
- Updated and expanded statistics on miscarriage
- Expanded information on pain perception in fetuses
- Updated research on auditory perception and auditory memory in fetuses
- Updated information on weight gain and nutritional recommendations in pregnancy
- Updated global statistics on malnutrition during pregnancy
- Differentiation of malnutrition as a result of calorie deficit versus nutrient deficit
- New information on the effects of Zika exposure during pregnancy
- Updated information on rubella outbreaks in the United States

- Revised section on maternal anxiety and stress
- Updated statistics on maternal age
- Expanded information on the influence of environmental hazards on pregnancy
- New section on the influence of opioid exposure on pregnancy outcomes and neonatal abstinence syndrome
- Expanded information on the transmission of alcohol and drugs through breast milk
- Expanded information on the effects of tobacco smoke on pregnancy
- Updated information on the risks associated with caffeine usage during pregnancy
- Updated information on the effects of marijuana, cocaine, and methamphetamine use during pregnancy
- Updated and expanded information on paternal factors in pregnancy
- Added information on prenatal cell-free DNA scans
- Updated Perspectives in Diversity feature on disparities in prenatal care around the world

Chapter 4 Birth and the Newborn

- Updated statistics on childbirth, birth complications, and maternal mortality in the United States
- New global statistics on childbirth, birth complications, and maternal mortality
- Expanded information and updated research on outcomes associated with the use of doulas during childbirth
- Expanded information on developmental changes and cultural variations in infant sleep patterns
- Updated global and U.S. statistics on low-birth weight babies
- New information on the link between sleep organization and outcomes in preterm infants
- Updated research on low-birth weight babies, including long-term outcomes
- Updated statistics on postmature infants
- Updated statistics and research on stillbirth
- Expanded information on neurological basis of parental bonding and on fathers' involvement in caregiving and play

Chapter 5 Physical Development and Health, 0 to 3

- Expanded information on growth rates in the first three years of life
- Added information on teething
- Updated statistics on U.S. breastfeeding rates
- Expanded information and new research on obesity in infancy
- New section on malnutrition in infancy
- New section on brain cells, including information on integration and differentiation of neurons
- New section on myelination of neural pathways
- Updated research on pain perception in newborns
- Expanded information on the development of smell and taste and adaptive nature of taste preferences
- Updated research on auditory discrimination in infancy
- New information on infant preferences for and ability to discriminate facial stimuli
- Updated research on visually directed reaching in infants and on haptic perception
- New section on cultural influences on motor development
- Updated statistics and information on global and U.S. infant mortality
- Updated statistics on U.S. racial and ethnic disparities in infant mortality rates
- Updated statistics and information on Sudden Infant Death Syndrome (SIDS), child injuries, and child maltreatment rates
- Updated global and U.S. statistics and information on vaccination rates

- Updated research on nonorganic failure to thrive in infancy and toddlerhood
- Updated research on characteristics of abusive parents and household environments
- New information on long-term outcomes of children placed in foster care
- Expanded and updated information on long-term effects of maltreatment

Chapter 6 Cognitive Development, 0 to 3

- Updated research example for the use of conditioning paradigms in infant research
- Expanded discussion of Piaget's sensorimotor substages
- Expanded discussion of the object concept, including new information on the a-not-b error
- New section on imitation, including information on visible imitation, invisible imitation, deferred imitation and preferences in imitation
- New section on symbolic development, pictorial competence and understanding of scale
- New section on perceptual processing abilities
- Expanded and updated information and research on information processing as a predictor of intelligence, on the development of categorization in infancy, and on the development of the understanding of causality
- Expanded and updated discussion of violation-of-expectations research methodology
- Expanded and updated information and research on the development of an understanding of number in infants
- Expanded and updated information and research on the development of neural structures and their link to memory processes
- Expanded discussion of the social constructionist approach and how it applies to early childhood education
- Expanded discussion of the development of infant understanding of phonemic native language patterns
- Updated research on the use of gestures in infants
- Expanded information on language milestones in infancy and on syntactic development
- New section on sign language development in deaf children
- Expanded discussion of characteristics of early speech and language errors
- Expanded discussion of and updated research on the role of social interaction in language development and on child-directed speech

Chapter 7 Psychosocial Development, 0 to 3

- Expanded definition of emotion
- Expanded discussion of and updated research on developmental changes in crying and in smiling and laughter in infancy
- Expanded discussion of and updated research on the development of altruism and empathy, including new information on underlying brain neurology
- Expanded information on the link between collaborative activities and the development of culture
- Expanded discussion and updated research on stability of temperament, with particular attention on developmental changes in relative influence of genes and environment and cultural influences on stability
- Expanded discussion of and updated research on behavioral inhibition
- Expanded description of behaviors of resistantly attached infants
- Expanded discussion on how attachment is established
- Expanded discussion of and updated research on long-term effects of attachment
- New information on physiological and neurological correlates of parental attachment history

- Expanded discussion of mutual regulation, with the addition of new material on interactional synchrony and the role of oxytocin
- Expanded discussion of and updated research on social referencing
- Expanded description on the origins of the self-concept
- Added information on cultural variations in the development of the self
- Expanded discussion on the development of conscience, including new information on receptive cooperation
- Expanded discussion and updated research on factors in the success of socialization
- Expanded discussion and updated research on sex and gender differences in infants and toddlers
- Expanded discussion on sibling influences
- New information included on peer preferences

Chapter 8 Physical Development and Health in Early Childhood

- Updated information on brain changes from 3 to 6 years of age
- Expanded discussion and updated research on sleep disturbances
- Expanded discussion and updated research and statistics on night terrors, sleepwalking, sleeptalking, and nightmares
- Expanded discussion and updated research on the relationship between motor development, sports participation, and risk of overweight or obesity
- Expanded discussion and updated research on the origins of handedness
- Expanded discussion and updated research and statistics on obesity, including both global U.S. data on prevalence, causes, and recommended prevention strategies
- Updated Perspectives on Diversity feature with current global data on prevalence and causes of mortality in the first 5 years of life
- Updated discussion and research on undernutrition
- Updated statistics for allergy prevalence in U.S. children
- Expanded discussion and updated research and recommendations on the use of fluoride for the prevention of dental caries, including a critical analysis of research on fluoride toxicity
- Updated global and U.S. statistics on accidental child injuries and deaths
- Updated statistics and information on access to medical care for children living in poverty
- Updated statistics on the influence of race and ethnicity on children's access to health care
- Updated statistics on the prevalence and causes of homelessness in United States children
- Updated statistics on the children's exposure to environmental contaminants

Chapter 9 Cognitive Development in Early Childhood

- Expanded discussion and updated research on the understanding of causality in children
- Expanded description of the development of the concept of identity in children
- Expanded description of and updated research on animism
- New information on long-term academic correlates of early number sense in children
- Expanded description of irreversibility
- New information on children's early understanding of mental states
- Expanded description of and updated research on false beliefs, including links to other skills, neural correlates, and its relationship to lying
- New section on distinguishing between appearance and reality
- Added information on understanding fantastical elements in story books and the influence religious beliefs play
- Updated information on the benefits of imaginative activities

- Expanded discussion of and updated research on family influences, cultural influences, and neurological correlates of theory of mind development
- New example of encoding
- Expanded description of working memory, including information on the phonological loop, visuospatial sketchpad, and neurological correlation
- Expanded discussion of and updated research on the development of executive control, its relationship to academic performance, and intervention programs for its improvement
- New section on influences on memory retention
- Updated research on the Flynn effect
- Expanded discussion of and updated research on family influences on measured intelligence
- New section on electronic media and cognitive processes
- Expanded discussion of scaffolding and updated research illustrating its use in the classroom
- Expanded discussion of fast mapping with the inclusion of updated research and an illustrative example
- New section on private speech
- Updated research on the development of literacy, including the impact of electronic devices
- Updated research on the impact of compensatory preschool programs on child outcomes
- Updated information on current funding status of universal preschool programs
- Updated statistics on kindergarten attendance in the United States
- Updated discussion of and research on kindergarten readiness and outcomes

Chapter 10 Psychosocial Development in Early Childhood

- Updated research on cultural differences in self-definition
- Expanded description of developmental changes in self-esteem from ages 5 to 7
- Expanded discussion of and updated research on contingent self-esteem
- New information on the differential influence of generic versus targeted praise on task perseverance
- Coverage of understanding and regulating emotions separated out into two distinct sections, expanded, and updated with current research
- New information on cultural differences in the likelihood of feeling guilt, pride, and shame
- Expanded discussion of and updated research on gender differences in children and on biological influences on gender development
- New information on the development of transgender individuals
- Expanded discussion of the consequences of differing reproductive strategies of men and women
- Expanded discussion of the interaction between evolutionary and cultural processes in the determination of human behavior and psychology
- Expanded discussion on Kohlberg's cognitive-developmental theory of gender and on gender schema theory
- Updated research on family, peer, and cultural influences on gender socialization
- Expanded discussion of and updated research on nonsocial play, with new information on reticent play
- Expanded discussion of and updated research on the influence of gender on play styles
- Expanded discussion of and updated research on cultural influences on play
- New section on the adaptive functions of play
- New information on negative outcomes associated with harsh parenting practices
- Expanded discussion of and updated research on outcomes associated with the use of corporal punishment
- New information on the use of and recommendations regarding corporal punishment in the U.S. educational system

- Updated Perspectives on Diversity feature, with new information on U.S. and global prevalence in use of corporal punishment
- Expanded cultural critique of Baumrind's parenting typology
- Expanded discussion of and updated research on gender differences in aggression
- New information on cultural influences on aggressive behavior
- New section on fearfulness

Chapter 11 Physical Development and Health in Middle Childhood

- Updated weight and height statistics for middle childhood in the United States, with new information on racial and ethnic variations
- Updated and expanded statistics and discussion on the prevalence of and treatments for dental caries
- Expanded discussion of and updated research on brain development in middle childhood
- Expanded discussion of and updated research on nutritional needs and challenges in middle childhood, including new information on racial and ethnic differences in food consumption
- Expanded discussion of and updated research on sleep statistics, needs, and problems and middle childhood
- Updated statistics on activity levels in U.S. children
- Expanded discussion of and updated research on the impact of recess
- Updated statistics on participation in organized sports programs
- Updated global and U.S. statistics for overweight and obesity in middle childhood
- Updated research on the causes of obesity
- Updated and expanded discussion on outcomes of childhood overweight and on the prevention and treatment of overweight
- Expanded discussion of and updated research and statistics on childhood asthma, hypertension, and diabetes
- Expanded discussion of and updated research on stuttering, including new information on neurological correlates
- Updated statistics on accidental injuries
- Updated research on childhood predictors of future antisocial behavior
- Updated statistics on the prevalence of childhood depression
- New information on the reasons for the rise of off-label drugs for the treatment of psychiatric conditions in children

Chapter 12 Cognitive Development in Middle Childhood

- New section on developmental changes in the understanding of cause and effect
- Expanded discussion of and updated research on seriation, transitive inferences, and class inclusion
- Expanded discussion of and updated research on deductive reasoning
- Expanded discussion of conservation
- Expanded discussion on the development of an understanding of number and mathematics, including new information on number estimation and cultural context
- New section on neurological development, culture, and schooling
- Expanded discussion of and updated research on developmental influences on executive function
- Expanded discussion of selective attention
- Expanded discussion of and updated research on working memory and on metamemory
- New section on mnemonics

- New information on the Otis-Lennon School Ability Test (OLSAT8)
- Updated research critiquing the meaning of IQ tests
- Expanded discussion and critique of Gardner's theory of multiple intelligences
- Expanded description of Sternberg's Triarchic Abilities Test, including new information on tacit knowledge
- New section on other directions in intelligence testing
- Expanded discussion of and updated research on the relationship between genes and brain development
- Updated research and discussion on the influence of race and ethnicity on IQ
- New section on the influence of schooling in IQ
- Expanded discussion of the development of literacy, including new information on the role of metacognitive processes and technology on emerging literacy
- Updated research on gender differences in academic performance
- Expanded discussion of and updated research on parental and peer influence on academic performance and on the influence of socioeconomic status on academic achievement
- Updated information on educational reform efforts in the United States
- Expanded discussion of and updated research on the impact of class size
- Updated research on charter schools and homeschooling outcomes
- Expanded discussion of and updated research on computer and internet usage in schools
- Updated statistics and information on second-language learning
- Updated statistics on special education services and intellectual disabilities in school-aged children in the United States
- Updated statistics and information on attention deficit/hyperactivity disorder, including diagnosis rates by race/ethnicity
- Expanded description of and updated statistics for giftedness
- Updated research on the causes and correlates of giftedness and creativity

Chapter 13 Psychosocial Development in Middle Childhood

- Expanded discussion of and updated research on emotional growth in middle childhood
- Expanded discussion of and updated research on coregulation, including new information on cultural differences
- Updated statistics and research on maternal employment, child care arrangements, and related outcomes
- Updated statistics on U.S. child and family poverty rates
- Updated research on outcomes related to child poverty
- Updated statistics on family structure in the United States, with new information on the effect of father involvement on child outcomes
- Updated statistics on U.S. divorce rates
- Updated research on child outcomes associated with divorce and family conflict
- Expanded discussion of and updated research on custody, visitation, and co-parenting
- Updated research on long-term effects of divorce on children
- Updated statistics and research on single-parent families, stepfamilies, and gay and lesbian families
- Updated statistics, research, and discussion on cohabitating families
- Expanded discussion of and updated research on adoption and outcomes of United States and foreign-born children
- Expanded discussion of and updated research on sibling relationships, including new information on the influence of gender
- New Perspectives in Diversity feature on bullying across the world

- Expanded discussion of and updated research on peer relations, including new information on discrimination and the influence of group norms
- Expanded discussion of and updated research on gender influences on peer groups
- Expanded description of sociometric methodology
- Expanded discussion of and updated research on correlates and outcomes of popularity, including new information on family and cultural influences
- Expanded discussion of and updated research on friendship
- Updated research on aggression and bullying
- New section on aggression and social information processing
- Expanded discussion of and updated research on the influence of media and electronics on aggression
- Expanded discussion of and updated research on bullies and victims, including new information on cyberbullying

Chapter 14 Physical Development and Health in Adolescence

- Updated and expanded statistics on timing of puberty by race/ethnicity
- Expanded discussion and updated statistics on menarche
- Expanded discussion of and updated research on influences on pubertal timing, with new information on the role of leptin and environmental toxins
- Expanded discussion of and updated research on implications of early and late maturation
- Expanded discussion of and updated research on brain development in adolescence and its consequences
- New information on adolescent global health statistics
- Updated statistics on physical activity in adolescence
- Expanded discussion of and updated research on sleep needs and problems, with new information on racial and ethnic differences in sleep patterns and on negative outcomes associated with sleep deprivation
- New section on prevalence of overweight and obesity, including both global and U.S. data
- New section on causes and consequences of overweight and obesity
- Expanded discussion of and updated research on body image and eating disorders, with new information on racial and ethnic differences in prevalence rates, global variations in prevalence rates, and peer influences
- New information on binge eating disorder
- Updated research on treatment outcomes for eating disorders
- Updated statistics on adolescent trends in drug use and on drug and alcohol treatment rates
- Updated and expanded statistics on global and U.S. trends in adolescent alcohol use
- New information on the effect of alcohol on the developing brain
- Updated statistics on marijuana usage, including new information about the effect of legalization on usage
- Updated and expanded statistics on the use of tobacco products in adolescence
- New section on the initiation of nicotine and alcohol use
- Updated research on depression
- New global statistics on death in adolescence and updated statistics for the United States
- Updated statistics on deaths from motor accidents, with new information on the impact of distracted driving
- Expanded discussion on and updated research for firearm-related deaths
- Updated research and statistics on suicide

Chapter 15 Cognitive Development in Adolescence

- New critique of Elkind's model of adolescent thought
- Added information on the sequence in which various cognitive skills come on line
- Revision of critique of Kohlberg's theory of moral development
- Expanded discussion of and updated research on prosocial behavior and volunteer activity, with new information on cultural and peer influences
- Expanded and updated statistics on U.S. students' academic achievement and graduation rates
- Updated research on student motivation and self-efficacy
- Updated research on adolescent brain differences between girls and boys
- Updated statistics on doctoral degrees awarded by gender in the United States
- Expanded discussion and updated research and statistics on the influence of technology on academic skills, including new information on the impact of multitasking on cognition
- Updated research on the influence of parenting practices and peers on academics
- Updated statistics on high school status dropout rate
- Expanded discussion of and updated research on consequences of dropping out of high school
- Updated research and discussion of the impact of gender on career goals
- Added information on reasons why some students select not to go to college
- Expanded discussion of and updated research on the impact of working during high school on academics

Chapter 16 Psychosocial Development in Adolescence

- Updated research on and expanded discussion and critique of Gilligan's theory of identity development in women
- Expanded discussion of and updated research on ethnic factors in identity development, with new information on the impact of perceived discrimination and cultural socialization
- New self-report data on same-sex experiences and sexual orientation in adolescence
- Expanded discussion of and updated research on the origins of sexual orientation, including new material on the 2D:4D ratio
- Expanded discussion of and updated research on homosexual and bisexual identity development, including new information on the process of coming out
- Updated statistics on U.S. adolescent sexual behavior
- Expanded discussion of and updated research on sexual risk taking, including new information on the influence of religiosity
- Expanded discussion of and updated research on sexting
- Updated statistics and research on the use of contraceptives
- Expanded discussion of and updated research on sex education, including the addition of new information on the impact of media influences
- Added information on global prevalence rates for sexually transmitted infections and updated statistics on U.S. rates
- Expanded discussion of and updated research on human papilloma virus, including new information on vaccine effectiveness and fears of adverse side effects
- Updated statistics for chlamydia, gonorrhea, and genital herpes, and updated statistics and expanded discussion for trichomoniasis
- New information on hepatitis B
- Updated statistics and research on human immunodeficiency virus (HIV)
- Added information on global adolescent pregnancy statistics, and updated research for the United States
- New sections on outcomes of teen pregnancy and on preventing teen pregnancy

- Expanded discussion of and updated research on individuation, with new information on cultural differences
- Expanded discussion and critique of the influence of parenting styles
- Expanded discussion of and updated research on parenting monitoring and self-disclosure, with new information on cultural variations
- Expanded discussion of and updated research on the influence of family structure and atmosphere, with new information on gay and lesbian parents
- Expanded discussion of and updated research on the impact of maternal employment
- Expanded discussion of and updated research on adolescents and siblings
- Updated research on the importance of friends
- Updated statistics, discussion, and research on the social consequences of electronic communication
- Updated research and discussion on romantic relationships, including new information on the impact of technology and electronic media
- Updated research and statistics on dating violence
- Expanded discussion of and updated research on biological influences on antisocial behaviors, including new information on physiological and neurological correlates
- Updated research and discussion on family influences on antisocial behavior
- Expanded discussion of and updated research on environmental influences on antisocial behavior
- New section on long-term prospects for adolescents with antisocial behavior
- Expanded discussion of and updated research on preventing and treating teen delinquency
- Expanded discussion of cultural changes in the United States leading to the new developmental stage of emerging adulthood