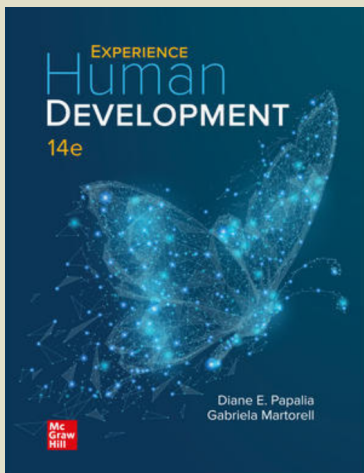


List of Changes



Experience Human Development 14th Edition

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Changes to Papalia: Experience Human Development, 14e

Chapter 1: The Study of Human Development

- Updated example on applied impact of psychological research on lives.
- New metaphor added on how domains of development interact.
- Revised description of nature and nurture.
- Updated statistics on family composition in the United States, global and United States poverty rates, and majority/minority group population projections.
- Revised section on socioeconomic status.
- New research added on risks to children raised in affluent families.
- New concept added: ethnic gloss.
- Updated Window on the World box.
- New Research in Action box on infant-directed speech.

Chapter 2: Theory and Research

- Expanded discussion on why theories are revised when new evidence emerges.
- Expanded discussion on qualitative change and the addition of an example.
- Expanded critique and review of Erikson's theory of psychosocial development and its impact on the field.
- Expanded discussion of, introduction to, and critique of learning perspectives.
- New example added for observational learning.
- Revised introduction to Piaget.
- Expanded description of disequilibrium.
- New example added for scaffolding.
- Revised discussion of evolutionary and sociobiological approaches.
- New key term added: operational definition.
- Inclusion of updated research to illustrate longitudinal design.
- New information added on the reproducibility crisis in the social sciences and the open science movement.

Chapter 3: Forming a New Life

- New research added on the timing of the fertile window of conception.
- Expanded and updated information on the causes and consequences of twins and multiple births in the United States and globally.
- Revised and updated research on sexual differentiation.
- Revised example of dominant/recessive inheritance.
- Revised description and new example of multifactorial transmission of traits.
- Revised and updated explanation of epigenetic processes with new examples.
- Updated statistics on rates of genetic and chromosomal abnormalities in infants born to different racial and ethnic groups and birthrates for children with Down syndrome in the United States.
- Updated research on outcomes for people with Down syndrome.
- New Research in Action box on epigenetics.
- Revised explanation of heritability estimates and canalization.
- Updated obesity statistics and updated genetic and environmental risk factors for obesity.
- Revised and updated research on influences on intelligence.
- Revised section on temperament and updated research on temperament influences.
- Updated research on genetic and environmental risk factors for schizophrenia.
- New key terms added: cephalocaudal and proximodistal principles of development.
- New research added on when fetuses can feel pain.
- Revised and updated research on fetal perceptual and cognitive development.
- Updated information on recommended weight gain and diet during pregnancy.
- New research added on calorie deficits and micronutrient deficiencies during pregnancy.
- New section added on opioid use and abuse during pregnancy and neonatal abstinence syndrome.

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- Updated research on caffeine intake, marijuana, cocaine, and methamphetamine use during pregnancy.
- Updated statistics on the risk of contracting measles and maternal age in the United States.
- Updated research on the influence of environmental hazards and advanced paternal age on pregnancy outcomes.
- Updated information on monitoring pregnancies, including new information on prenatal cell-free DNA scans, embryoscopy, and umbilical cord sampling.
- Updated information on U.S. prenatal care disparities and fetal and infant mortality.
- New Window on the World box on prenatal care around the world.

Chapter 4: Birth and Physical Development during the First Three Years

- Updated global and U.S. statistics on complications of childbirth.
- Updated statistics on cesarean delivery and the use of forceps during delivery in the United States.
- Updated statistics and research on outcomes for women who attempt a vaginal birth after cesarean (VBAC).
- New research added on the use of epidurals for pain relief during delivery.
- Expanded material on doulas, including new research on improved outcomes and economic benefits associated with the use of doulas.
- New research added on developmental changes and cultural differences in sleep patterns, and outcomes associated with poor sleep.
- Updated statistics on the prevalence of low-birth-weight babies.
- Revised and updated research on treatment and immediate and long-term outcomes for preterm infants.
- Updated statistics on the prevalence of postterm delivery and stillbirth in the United States.
- Updated global and U.S. statistics on infant and maternal mortality.
- Updated statistics and research on racial and ethnic disparities in infant mortality in the United States.
- Updated statistics on the prevalence of sudden infant death syndrome (SIDS).
- New information added on the “triple risk” model of SIDS.
- Updated research on genetic and environment triggers for SIDS.
- Updated statistics on infant deaths from unintentional injuries.
- Updated statistics on global and U.S. childhood immunization statistics and research showing no link between vaccines and autism.
- Updated research on eating patterns in infants and toddlers.
- Updated statistics and research on the prevalence of obesity in infants and toddlers and risk factors for obesity.
- New Window on the World box on the effects of malnutrition in the first 1,000 days of life.
- Revised Research in Action feature on autism.
- Revised and updated section on myelination of the brain.
- Expanded section on pain perception in infancy.
- Revised and updated research on the development of smell and taste and visually guided reaching.
- Revised, updated, and expanded research on the development of hearing.
- New research added on infants’ preference for faces.
- Updated and expanded research on haptic perception.

Chapter 5: Cognitive Development during the First Three Years

- Revised and updated research on the use of operant training to test infant memory.
- Updated research on correlates of the Home Observation for Measurement of the Environment (HOME) inventory and outcomes of early intervention programs.
- Revised and updated research on the development of imitative abilities in young children.
- Revised and reorganized research on the object concept.
- New research added on children’s understanding of symbols presented in picture books, e-books, and television.
- Expanded and updated research on auditory discrimination in fetuses and newborns and

developmental processes in attention.

- Updated research on core cognitive domains in infancy associated with later IQ.
- Updated Research in Action box on the effects of television viewing on infants and toddlers.
- New research added on infant categorization of language and music.
- Updated research on the development of an understanding of causality in infants.
- Expanded description of how violation-of expectations research has allowed researchers to investigate naïve principles of physics in infants.
- Revised and updated research on the development of number sense in infants.
- Expanded defense of violation-of-expectations research and the existence of cognitive modules and core systems of knowledge.
- New information added on the application of the Vygotskian approach to early childhood education.
- Expanded definition of phonemes and added new example.
- Revised and updated information and research on the development of phonemic perception and understanding structural features of language.
- Expanded the information and research on symbolic gestures in toddlers.
- Revised and updated research on first words.
- New section added on variations in language development, including new research on deaf and bilingual children.
- Revised and updated research on brain development and language, and the role of social interaction in language development.
- Expanded information and research on child directed speech (CDS) across cultures and the link between CDS and later language development.
- Added new Window on the World box on literacy and children's books.

Chapter 6: Psychosocial Development during the First Three Years

- Revised and expanded discussion of crying, with a greater focus on its functional nature.
- New research added on reciprocal positive exchanges between infants and adults.
- Updated research and theory on the development of altruistic behavior in infants.
- Updated research on mirror neurons and new critique added.
- New section added on the development of collaborative activities and cultural transmission.
- Revised and updated section on the stability of temperament with new research added on cultural differences.
- Revised and updated research on goodness of fit.
- Revised and updated research on behavioral inhibition, with an increased focus on brain areas associated with inhibition and the development of self-regulatory strategies.
- Revised and updated research on gender differences in infants and toddlers, with new research added on differences in social behavior, sex-typed toy preferences, and the role of prenatal androgen exposure.
- Revised and updated research on parental influences on gender, with new research added on implicit messages and expanded research on cultural differences in fathers' interactions.
- New research added on neurological correlates of parental attachment history, and cardiac and hormonal correlates of interactional synchrony in parent-child interactions.
- Revised Research in Action box on postpartum depression.
- Updated and expanded research on the development of self-awareness in the 2nd year of life and successful socialization processes.
- Revised and expanded section on siblings.
- New information added on preschoolers' preferred playmates.
- Updated statistics on maternal labor force participation rates, early child care, child maltreatment in infancy and toddlerhood, and characteristics of abusive and neglectful parents and families.
- New research added on cultural influences on abuse and neglect.
- Revised and updated research on long-term effects of maltreatment

Chapter 7: Physical and Cognitive Development in Early Childhood

- Updated statistics on physical growth norms in children.
- Updated and expanded research and statistics on sleep problems in children.
- New research added on links between sleepwalking, sleepwalking, and night terrors.
- Updated and expanded research on nightmares, enuresis, and handedness.
- New research added on correlates of motor coordination in childhood.
- Updated statistics on global and U.S. childhood obesity prevalence rates.
- Updated research on environmental influences on obesity.
- Updated research and discussion on obesity prevention and intervention programs.
- Revised, updated, and expanded information on undernutrition, including a new focus on the differentiation of stunting and wasting.
- Revised Research in Action box on food insecurity.
- Updated statistics on the prevalence of food allergies in U.S. children.
- Updated research and theory on the causes of food and skin allergies.
- New section added on oral health.
- Updated global and U.S. statistics on deaths and accidental injuries.
- Expanded information on car accidents and young children.
- Updated statistics on health insurance coverage and racial, ethnic and socioeconomic disparities in coverage for U.S. children.
- Updated information on the Affordable Care Act and the repeal of the individual mandate.
- Revised Window on the World box on surviving the first 5 years of life.
- Updated statistics and research on homelessness in U.S. children.
- Updated statistics on U.S. children's exposure to environmental pollutants.
- New research added on children's ability to reason causally, deception, children's ability to lie, the influence of religion on children's understanding of stories, the relationship between imagination and creativity, cultural influences on theory of mind development, and executive function.
- Revised and updated research on animism in children.
- Revised, updated, and expanded research on children's understanding of number.
- New example added to illustrate theory of mind. • Updated research on and revised discussion of theory of mind.
- Updated research on children's knowledge about thinking and mental states.
- New example added to illustrate false beliefs.
- Updated research on children's ability to distinguish between appearance and reality.
- Revised and updated research on individual differences in theory of mind development.
- Revised and updated theory and research on genetic and environmental influences on intelligence, with an enhanced focus on interactions.
- Updated examples of the use of scaffolding in childhood education.
- Revised and updated theory and research on private speech.
- Updated statistics on speech and language disorders in children.
- Revised and updated research and discussion on preparation for literacy.
- Revised, updated, and expanded research on media and cognition.

Chapter 8: Psychosocial Development in Early Childhood

- New section added on cultural differences in self-definition.
- Revised and updated research on contingent self-esteem.
- Revised and updated research on emotion regulation, with added emphasis on cultural differences.
- Revised, updated, and expanded research on understanding emotions and gender differences in cognition.
- New key term added: social emotions.
- Revised and updated research on the influence of prenatal hormone exposure on gender development.

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- New research added on biological influences in transgender gender development.
- Revised discussion of evolutionary influences on gender.
- Expanded and updated critique of Kohlberg's analysis of cognitive influences on gender development.
- Updated critique of theories relating gender schema to gender-typing.
- Revised and updated research on family, peer, and cultural influences on gender-typing in children.
- Revised Research in Action box on the evolutionary significance of play.
- Revised and updated research on the social dimensions of play, and gender and play.
- Revised, updated, and expanded section on culture and play and corporal punishment, with an emphasis on bidirectionality between parent-child interactions and cultural differences.
- Expanded critique of Baumrind's model of parenting styles with a focus on cultural differences.
- Revised and updated research on the development of prosocial behavior.
- New research added on cross-cultural differences in levels of relational aggression.
- Updated statistics on only children in the United States and China.
- New Window on the World box on age segregation and mixed-age play in children.

Chapter 9: Physical and Cognitive Development in Middle Childhood

- Updated statistics on physical growth norms for middle childhood.
- Added new section on tooth development and dental care.
- Revised, updated, and expanded research on nutrition and sleep in middle childhood.
- New research added on outcomes associated with poor sleep quality.
- Revised and updated research on brain development in middle childhood.
- Updated U.S. statistics on physical activity and trends in childhood obesity.
- Revised and updated research on recess and participation in organized sports.
- Updated global and U.S. statistics on childhood overweight and obesity.
- Revised and updated research on the causes and outcomes of obesity.
- Revised Research in Action box on the influence of Barbie dolls on girls' body image.
- Updated research and discussion on childhood obesity prevention and intervention programs.
- Revised and updated research on asthma prevalence rates and causes.
- New section added on childhood hypertension.
- Updated statistics on accidental injuries in middle childhood.
- New section added on the understanding of causality in middle childhood.
- Revised and updated research on the development of categorization, number and mathematics understanding, executive functioning, and the influence of brain development and race/ethnicity on intelligence.
- New research added on the influence of training programs on working memory.
- Revised, updated, and expanded research on the development of metamemory processes and the influence of schooling on IQ scores.
- New Window on the World box on the influence of culture on IQ scores.
- Updated statistics on non-English-speaking children in the United States.
- New research added on the influence of e-books on emerging literacy skills.
- Revised and updated research on the influence of self-efficacy, gender differences, parental involvement, socioeconomic status, and class size on academic achievement.
- Revised, updated, and expanded research on the influence of peer acceptance on academic achievement.
- Updated information on U.S. government regulatory processes and their effects on student academic achievement outcomes.
- Updated statistics on the number of U.S. children being homeschooled and in charter and schools.
- New research and critique added on the efficacy of homeschooling.
- Updated U.S. statistics on media usage in classrooms, media use habits in children, the prevalence of learning disabilities, the use of special education services, and the number of gifted children in the

public school system.

- Updated global and U.S. statistics on the prevalence of attention-deficit/hyperactivity disorder in childhood.

Chapter 10: Psychosocial Development in Middle Childhood

- Revised and updated research on emotional growth and coregulation, with expanded content on cultural differences.
- Updated statistics and research on maternal employment and child care arrangements.
- Updated U.S. statistics on the number of children living in poverty, trends in family structure, divorce rates, and single-parent, cohabitating, and gay/lesbian families.
- Revised and updated research on the effects of poverty and family conflict on children's development, buffers for negative outcomes, and immediate and long-term adjustment to divorce.
- Revised and expanded research on children's adjustment to custody and coparenting and outcomes associated with cohabitating families.
- Revised and updated research on outcomes for children from single-parent families.
- Updated statistics and research on stepfamilies.
- Updated research on the development and outcomes of children from gay and lesbian families.
- Updated statistics on U.S. adoption, including a review of social and economic changes affecting trends in adoption.
- Revised and updated research on the outcomes of adopted children.
- Revised, updated, and expanded research on sibling relationships.
- Revised and updated research on prejudice in the peer group, sociometric popularity and rejection, friendship in middle childhood, physical and relational aggression, and risk factors in bullying.
- New section added on gender and peer groups.
- Updated statistics and research on the influence of media violence on aggression.
- New Window on the World box on bullying around the world.
- Added new statistics and research on cyberbullying.
- Updated statistics on the prevalence of mental health problems in middle childhood.
- Updated and revised statistics and research and disruptive conduct disorders in middle childhood.
- New information added on global rates of child depression and updated statistics on the prevalence of childhood depression in the United States.
- New discussion added on the use of drug therapy to address childhood emotional disorders.

Chapter 11: Physical and Cognitive Development in Adolescence

- Revised and updated research on timing of puberty and ethnicity.
- Updated statistics on the age at menarche in the United States.
- Revised, updated, and expanded research on pubertal timing, with new research added on the role of endocrine-disrupting chemicals.
- New section added on the implications of pubertal timing for physical and psychosocial outcomes.
- Revised, updated, and expanded research on brain changes in adolescence, including new research on neurobehavioral susceptibility to social reward cues.
- New section added on physical activity in adolescence.
- Updated statistics on sleep patterns in adolescence.
- Revised and updated research on sleep deprivation in adolescence.
- Updated global and U.S. statistics on overweight and obesity in adolescence.
- Revised and updated research on the causes, consequences, and interventions to address obesity in adolescence, body image, body satisfaction, and risk factors for unhealthy weight control behaviors in adolescence.
- Updated statistics on the prevalence of anorexia nervosa, bulimia nervosa, and binge eating disorder.
- New key term: binge eating disorder.
- Updated research on the treatment of eating disorders.

Changes to Papalia: Experience Human Development, 14e

- Updated statistics on U.S. drug use and abuse in adolescence, including information on overall trends, dextromethorphan, legal and illegal narcotics, alcohol, marijuana, and cigarettes, with new statistics added on the use of e-cigarettes.
- Updated statistics on global trends in alcohol and tobacco use in adolescence.
- New research added on brain changes in adolescence associated with alcohol use.
- Updated research on correlates of marijuana use.
- Updated statistics on the prevalence of depression in U.S. adolescents.
- Updated research on risk factors and treatment options for depression.
- Updated global and U.S. statistics on adolescent mortality.
- Revised, updated, and expanded research on deaths from accidents and firearms in U.S. adolescents.
- Updated statistics on and research for prevalence rates and risk factors of suicide.
- New section added on immature aspects of adolescent thought.
- New Window on the World box on culture and cognition.
- Expanded critique of Kohlberg's theory of moral reasoning.
- Revised, updated, and expanded research on prosocial development
- Updated statistics on U.S. high school graduation rates and international comparisons.
- Revised and updated research on the influence of motivation and self-efficacy on academic achievement.
- Revised, updated, and expanded research on gender differences in brain structure and organization relevant to academic achievement, the influence of parenting, ethnicity, and peers on academic achievement.
- New statistics added on trends in number of doctoral degrees awarded to men and women in the United States and media use by adolescents and teachers.
- Revised, updated, and expanded research on the influence of media use on cognitive processes.
- Updated statistics on U.S. high school dropout rates, gender and vocational choice, and student employment rates.
- New statistics added on unemployment rates and median income by degree obtained.
- New Research in Action box on teens and media multitasking.

Chapter 12: Psychosocial Development in Adolescence

- Revised and updated research on gender and ethnic differences in identity formation.
- New research added on perceived discrimination.
- Updated statistics on self-reported prevalence of gay, lesbian, and bisexual identity and behaviors in adolescents.
- Revised, updated, and expanded research on the origins of sexual orientation, gender identity development in sexual minority youth, and risk and protective factors for sexual risk-taking in adolescence.
- New research added on the influence of prenatal hormones on sexual orientation.
- New research added on identity development in transgender youth.
- Updated U.S. statistics on sexual behavior, the use of contraceptives, and human papilloma virus (HPV), chlamydia, and gonorrhea infections.
- Updated statistics for global and U.S. rates of adolescent sexually transmitted infections, hepatitis B and human immunodeficiency virus (HIV) infections, pregnancy, miscarriage, and abortion rates.
- New research added on HPV vaccination rates, risks, and benefits in U.S. adolescents.
- Revised and updated research on risk factors for teen pregnancy.
- Revised, updated, and expanded research on the impact of abstinence versus comprehensive sexual education programs, with new information added on recent changes in funding priorities in the United States.
- New Window on the World box on culture and discretionary time in adolescence.
- Revised and updated research on individuation and family conflict.
- New critique added on Baumrind's model of parenting styles.

Changes to Papalia: Experience Human Development, 14e

- Revised and updated research on the influence of cohabitation and same-sex parenting, maternal employment, sibling influences, and friendships in adolescence.
- New section added on social media and electronic interactions.
- New Research in Action box on teen dating and technology.
- Revised and updated research on romantic relationships.
- Updated statistics on teen dating violence.
- Revised, updated, and expanded research on biological influences in juvenile delinquency, with new information added on the influence of arousal and attentional processes and neurobiological differences.
- Revised and updated research on environmental influences in juvenile delinquency, long-term prospects of juvenile delinquents, and the prevention and treatment of juvenile delinquency.

Chapter 13: Physical and Cognitive Development in Emerging and Young Adulthood

- Updated statistics on health status in young adults in the United States.
- New information added on health insurance coverage in the United States, the passage of the Affordable Care Act, and the repeal of the individual mandate.
- Revised and updated research on genetic influences on health with depression as an illustrative example.
- Updated global and U.S. research on diet, nutrition, and obesity and overweight.
- Revised and updated research on the causes and consequences of and treatments for obesity.
- New research added on bariatric surgery.
- Revised and updated research and statistics on physical activity in young adults.
- New Window on the World box on internet use around the world.
- Updated research on stress and coping in young adults.
- Revised and updated research on the effect of sleep deprivation and cognitive and psychosocial functioning.
- Updated global and U.S. statistics on the prevalence of smoking.
- Updated statistics on alcohol use in U.S. college students and young adults.
- Updated research on smoking, smoking cessation programs, alcohol use, risky drinking, and the effects of social integration and social support on health.
- Updated statistics and research on prevalence of and risks associated with substance use disorders.
- New research added on developmental trends in the diagnosis of depression.
- Revised and updated research on sexual behaviors and attitudes in young adulthood.
- Updated global and U.S. statistics for the prevalence of sexually transmitted infection and human immunodeficiency virus (HIV) infection.
- Updated research on HIV prevention and intervention programs.
- Revised and updated research on menstrual disorders.
- Updated global and U.S. statistics on infertility.
- Updated research on causes of infertility.
- New Research in Action box on in vitro fertilization.
- Updated research on emotional intelligence.
- Updated statistics on U.S. college enrollment and graduation rates, with new information added on international college enrollment rates.
- Revised, updated, and expanded research on the influence of gender on occupational success.
- Updated statistics and discussion on the influence of socioeconomic status and race/ ethnicity on college success, income, and college completion, the gender gap in earnings, and working while attending college.
- Revised and updated research on factors related to successful adjustment to college.

Chapter 14: Psychosocial Development in Emerging and Young Adulthood

- New research added on three primary trajectories to adulthood.

Changes to Papalia: Experience Human Development, 14e

- Revised and updated research on ethnic and cultural factors in identity formation, and relationships with parents in young adulthood.
- New U.S. statistics added on failure to launch.
- Revised and updated research on failure to launch in the United States and cross-culturally.
- New research added on gender differences in the development of intimacy.
- Revised and updated research on continuity and change in the five-factor model of personality, evaluations of the five-factor model, ego resiliency, friendships, and romantic relationships.
- New research added on the role of social media in friendships.
- Updated statistics and research on single life in the United States.
- New research added on the “friends-with benefits” relationship pattern.
- Updated information on U.S. and international legality and acceptance of same-sex marriage and activity.
- New research added on the association between political and religious affiliations and acceptance of homosexuality.
- New statistics and research added on same sex marriage in the United States.
- Updated research on relationships in gay and lesbian couples.
- Updated statistics and research on rates and attitudes about cohabitation internationally and in the United States.
- Revised and updated research on cohabitating relationships.
- Updated international and U.S. marriage statistics.
- New research added on the association of marriage and religious beliefs.
- New Window on the World box on cross cultural marriage traditions.
- Revised, updated, and expanded research on infidelity and marital satisfaction.
- New research added on the use of technology for the purposes of extramarital affairs.
- New research added on the role of sexual activity in marital satisfaction.
- Updated U.S. statistics on childbirth and parenthood, women’s labor force participation rates, fathers’ participation in child care activities, dual-income families, remarriage, and step parenthood.
- Updated research on parenthood and marital satisfaction.
- New research added on cultural differences in dual-income families.
- Updated statistics and research on U.S. divorce rates, attitudes, and predictors.
- New research added on gender differences for the relationship between employment and divorce.
- Revised and updated Research in Action box on intimate partner violence.
- Updated research on adjustment to divorce.

Chapter 15: Physical and Cognitive Development in Middle Adulthood

- Updated U.S. statistics on middle-aged adults.
- Revised and updated research on health and psychological status in midlife.
- Updated statistics on visual and hearing problems in midlife.
- New statistics added on global prevalence rates for hearing loss.
- Revised, updated, and extended research on hearing loss in midlife.
- New research added on the loss of smell and taste in midlife.
- Revised and updated research of risk factors for and consequences of the loss of smell and taste.
- Revised, updated, and expanded research on loss of muscle strength and coordination in midlife and the brain at midlife. Updated research for declines in manual dexterity in midlife.
- New research added on the role of education, cognitive stimulation, and physical activity on brain functioning.
- Updated research on systemic changes in midlife.
- Revised, updated, and expanded information on the frequency and consequences of hot flashes and night sweats in menopausal women and the treatment of menopausal symptoms.
- Revised and updated Window on the World box on cultural differences in menopause.

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- New Research in Action box on andropause and testosterone replacement therapy.
- New research added on international prevalence of erectile dysfunction.
- Updated research on causes of and treatments for erectile dysfunction.
- Updated U.S. statistics on sexual activity, health, cancer, heart attacks, and overweight in middle-aged adults.
- Revised and updated research on correlates of sexual activity and sexual satisfaction in middle-aged adults.
- Updated global and U.S. statistics on hypertension, with new information added on recent changes in risk cutoff guidelines.
- Revised and updated research on the association between physical activity, socioeconomic status, gender, and health at midlife.
- New information added on screening guidelines for prostate cancer.
- Revised, updated, and expanded research on bone loss in women at midlife.
- Updated statistics on prevalence rates of breast cancer in globally and in the United States.
- Updated research on risks for and treatment of breast cancer.
- Revised and updated research on and recommendations for the use of hormone therapy.
- Revised and updated research on how stress and emotions affect health.
- Updated statistics on subclinical and behavioral or emotional disorders meeting criteria for diagnosis in American adults at midlife.
- Revised and updated research on developmental trajectories of fluid and crystallized intelligence and characteristics of creative achievers.
- New research added on neurological correlates of creative achievers.
- New research added critiquing prior findings on declines in creative output with age.
- Updated statistics on U.S. participation in adult education programs.
- Updated statistics on global and U.S. literacy rates.

Chapter 16: Psychosocial Development in Middle Adulthood

- New discussion added on recent trends on research on midlife.
- Revised and updated research on trait models of personality in midlife.
- New research added on contextual influences and cultural variations on personality.
- Revised, updated, and expanded research on gender differences in, and expression and consequences of generativity.
- New research added on the subjective sense of aging and outcomes associated with an “off-track” social clock.
- Revised and updated research on midlife crises.
- New Research in Action box on midlife career change.
- Updated research on generativity and positive life outcomes.
- Revised, updated, and expanded research on midlife changes in emotionality and personality and developmental changes in the size of social convoys.
- New research added on international data on well-being.
- New research added on the association of income and exercise with well-being.
- Revised and updated research on Wyff’s well-being scale, the association between relationships and well-being, and changes in marriage satisfaction over time.
- New statistics added on the prevalence of cohabitation in middle-aged American adults.
- Revised and updated research on reasons for and consequences of cohabitation.
- New cross-cultural research added on cohabitation.
- New statistics added on the prevalence of divorce in middle-aged American adults.
- Revised, updated, and expanded research on causes of and outcomes associated with divorce, and the relationship between marriage and well-being and health.
- New cross-cultural research added on marriage and well-being.
- Revised, updated, and expanded research on gay and lesbian relationships.

Changes to Papalia: Experience Human Development, 14e

- New research added on the effects of the legalization of gay marriage in the United States.
- Updated research on the relationship between friendship and well-being.
- Revised and updated research on the relationship between adolescent children and parents, the empty nest, and prolonged parenting.
- Added new statistics on the number of middle-aged American adults caring for aging parents.
- Revised and updated research on strains of caregiving and sibling relationships at midlife.
- New Window on the World box added on the sandwich generation.
- Updated U.S. statistics on grandparenthood, extended family households, and grandparent care.
- Revised and expanded research on grandparent care across cultures.
- New statistics added on grandparent care in other cultures.
- Updated research on grandparent care after divorce and remarriage.
- Updated statistics and research on surrogate parenting by grandparents in the United States.

Chapter 17: Physical and Cognitive Development in Late Adulthood

- Updated global and U.S. statistics on aging population demographics, gender differences in mortality, and mortality and life expectancy rate disparities across countries, racial/ethnic groups, socioeconomic status, and region.
- New Window on the World box on elder care worldwide.
- Revised and updated research on life expectancy, genetic and variable rate programming theories of death, and longevity.
- New research added on mitochondrial theories of aging.
- New research added on the signaling role of free radicals.
- New Research in Action box on the oldest old.
- New research added on morbidity compression.
- Revised and updated research on systemic changes with age.
- Revised, updated, and expanded research on brain changes with age.
- New research added on semanticized cognition.
- Updated U.S. and global statistics on visual impairment, cataracts, glaucoma, and hearing loss.
- Updated research on visual and hearing impairments.
- New research on cataract surgery and mortality risk.
- Updated statistics and research on physical changes and falls.
- New research added on functional fitness intervention programs.
- New key term: functional fitness.
- New research added on the relationship of exercise and cognition.
- Revised, updated, and expanded research on sleep.
- Updated statistics and research on sexual functioning and health status in old age.
- Updated global and U.S. statistics on leading causes of death and prevalence of dementia.
- Updated U.S. statistics on diabetes, hypertension, common chronic conditions, functional impairments, nutrition and periodontal disease, mental and behavioral problems, depression, and memory impairment in old age.
- Updated research on inactivity, diet, and periodontal disease in old age.
- Revised and updated research on depression.
- New statistics added on U.S. prevalence rates of Alzheimer's disease and Parkinson's disease in aged populations.
- Updated research on risk and protective factors for dementia, Alzheimer's disease, and dementia treatment approaches.
- New research added on the role of myelin repair in dementia progression.
- New research added on the use of computer algorithms and biomarkers in dementia diagnosis, and the outcome of early trials on immunotherapy for Alzheimer's disease.
- Revised and updated research on cognitive processes and driving in the elderly, and the relationship

between intelligence and mortality risk.

- New research on the role of socioeconomic status as a mediator between intelligence and health.
- Revised and updated research on neurological changes with age.
- New methodological critique on memory intervention research.

Chapter 18: Psychosocial Development in Late Adulthood

- Revised, updated, and expanded research on personality stability and change in old age and its relationship to health, age differences, and outcomes of coping styles, and the relationship between religion and health.
- New research on the predictive use of personality change in old age.
- New cross-cultural research added on well-being in late adulthood.
- New research added on socioemotional selectivity and well-being.
- Updated U.S. statistics on religion.
- New statistics added on global religious affiliation and belief.
- Updated research on models of successful aging.
- Revised and updated research on productivity and leisure activities in late life, life after retirement, aging-in place, and living alone in old age.
- Updated U.S. statistics on work and retirement, financial health after retirement, sources of income, poverty rates, institutionalization, aging-in-place, living alone, and living with relatives in old age.
- New Window on the World box on global aging stereotypes.
- New resource model of retirement added.
- New research added on the use of technological aids to delay entry into institutionalized care.
- Revised, updated, and expanded research on living with adult children and in institutions.
- New Research in Action box on elder abuse.
- Updated global and U.S. statistics on institutionalization in old age.
- New statistics added on the average cost of assisted living in the United States.
- Revised and updated research on personal relationship in late life and the link between social relationships and health.
- Updated U.S. statistics on multigenerational families, divorce and remarriage, and cohabitation late in life.
- Revised, updated, and expanded research on multigenerational families and cultural variations.
- Revised, updated, and expanded research on marital relationships late in life, widowhood, and cohabitation.
- New research added on marital conflict in older married couples.
- Updated global and U.S. statistics on single life in the elderly, and co-residence with adult children.
- New research added on dating in old age.
- New research added on “living apart together” relationships.
- Updated research on gay and lesbian relationships in late life.
- Revised and updated research on friendship and relationships with adult children later in life.
- New U.S. and international statistics added on the number of childless aging adults.
- New research added on well-being in older adults without children.

Chapter 19: The End of Life

- New Window on the World box on funeral customs across the world.
- Updated research on outcomes associated with hospice and palliative care, changes preceding death, and near-death experiences.
- New research added on neurological correlates of near-death experiences.
- Revised and updated research on patterns of grieving.
- Revised, updated, and expanded research on understanding of death and bereavement in children.
- New research added on the impact of religion on children’s understanding of death.
- New section added on terror management theory.

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- Revised and updated research on surviving a spouse and mourning a miscarriage.
- Revised, updated, and expanded research on losing a parent or child in adulthood.
- Updated global and U.S. statistics on suicide.
- Updated research on risk factors, predictors, and method of suicide.
- Updated U.S. statistics on advance directives, assisted suicide, attitudes about assisted suicide, and utilization of Oregon's Death with Dignity law.
- Revised and updated research on advance directives, palliative services, hospice care, and ethnic and cultural differences in beliefs about end-of-life care.
- New section added on euthanasia.
- New Research in Action box on physician-assisted suicide.
- Updated international data on euthanasia laws.
- Revised and updated research on U.S. and international attitudes about end-of-life options.
- New research added on religious beliefs and attitudes about end-of-life care.

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