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Human Development



00/01



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Human Development 00/01

Twenty-Eighth Edition



EDITOR

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University of Maryland, Baltimore County

Dr. Karen Freiberg has an interdisciplinary educational and employment background in nursing, education, and developmental psychology. She received her B.S. from the State University of New York at Plattsburgh, her M.S. from Cornell University, and her Ph.D. from Syracuse University. Freiberg has worked as a school nurse, a pediatric nurse, a public health nurse for the Navajo Indians, an associate project director for a child development clinic, a researcher in several areas of child development, and a university professor. She is the author of an award-winning textbook, *Human Development: A Life-Span Approach*, which is now in its fourth edition. Dr. Freiberg is currently on the faculty at the University of Maryland, Baltimore County.

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Members of the Advisory Board are instrumental in the final selection of articles for each edition of ANNUAL EDITIONS. Their review of articles for content, level, currentness, and appropriateness provides critical direction to the editor and staff. We think that you will find their careful consideration well reflected in this volume.

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To the Reader Topic Guide © Selected World Wide Web Sites

Overview

A. GENETIC INFLUENCES

 Designer Babies, Sharon Begley, Newsweek, November 9, 1998.

Genetic engineering already enables scientists to place a healthy gene into an organ to repair damage or disease. Soon it may be possible to manipulate a fertilized egg (germline therapy) to remove the threat of a **health problem** (e.g., breast cancer, Alzheimer's) even before birth. **Ethical questions** exist. Will only the wealthy have designer babies? Will scientists know when to stop?

 Nature's Clones, Jim Neimark, Psychology Today, 10 July/August 1997.

Twin research reveals fascinating facts; not all identical twins share all **genetic** traits. **Prenatal development** of twins can be different. An egg can split before it is **fertilized** by two sperm, resulting in one-egg fraternal twins. New genetic discoveries about twinning suggest that the nature-nurture question is still inexplicable and chaotic.

B. PRENATAL INFLUENCES

- 3. The Role of Lifestyle in Preventing Low Birth Weight, Virginia Rall Chomitz, Lilian W. Y. Cheung, and Ellice Lieberman, *The Future of Children*, Spring 1995. Women's **health** during pregnancy has a profound effect on **prenatal development**. Lifestyle changes such as improved **nutrition**, cessation of **drug abuse** (for example, cigarettes, alcohol), and avoidance of **teratogens** can prevent low birth weight.
- 4. A State of the Art Pregnancy, Karen Springen, Newsweek, Special Issue, Spring 1999. Prenatal diagnosis in the twenty-first century will assess the health of unborn babies and predict future physical development very early in pregnancy. Fetal DNA analysis will also allow more fetal surgery to repair malformations. A transmitter in the uterus may prevent preterm deliveries. This article also gives 10 tips to a healthy pregnancy without using technological assistance.
- 5. Fetal Psychology, Janet L. Hopson, *Psychology Today*, September/October 1998.

Two months before birth, the **prenatal** fetus has **emotions and personality** that predict infant behavior. Very active fetuses become irritable babies, while fetuses with high heart rates become unpredictable, inactive babies. A **well-nourished**, **low-stress**, **drug-free** prenatal environment has the best chance of producing a baby with an easy temperament. It also enhances **physical development and cognition.**



Genetic and Prenatal Influences on Development

Seven selections discuss genetic influences on development, cloning, and the role of lifestyle, including the effects of substance abuse, on prenatal development. Content

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The concepts in bold italics are developed in the article. For further expansion please refer to the Topic Guide and the Index.

- 6. Drug-Exposed Infants, Lucy Salcido Carter and Carol S. Larson, The Future of Children, Summer/Fall 1997. Prenatal exposure to drugs of abuse is teratogenic. It affects infant physical, cognitive, and social development and health. Legislative efforts have been directed at detecting the problem mothers and treating, rather than punishing, them.
- 7. Sperm under Siege, Anne Merewood, Health, April 41 1991.

Sperm as well as ova are susceptible to **teratogens.** Carcinogenic chemicals, tobacco, alcohol, and **drug abuse** can damage sperm, which, should they fertilize the ovum, may have devastating **effects on prenatal development.**

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Overview

A. INFANCY

- 8. Temperament and the Reactions to Unfamiliarity, Jerome Kagan, Child Development, February 1997. Jerome Kagan's research demonstrates that infant development is shaped by both genetics and socialization. Babies born with reactive nervous systems may become subdued, fearful children, while those born with relaxed systems may become more sociable and secure. However, predicting future personality from infant reactivity without considering social forces would be a mistake. Biological and psychological explanations are both part of the phenomena of human experiences.
- Baby Talk, Shannon Brownlee, U.S. News & World Report, 53 June 15, 1998.

Linguists are discovering that **infants** too young to use language can discern incorrect use of **language** rules. **Cognitive development** in the brain is literally sculpted and reorganized by language perception. Computer neural networks (artificial intelligence) have yet to come close to the computation powers of babies.

 The Cultural Context of Infant Caregiving, Navaz Peshotan Bhavnagri and Janet Gonzalez-Mena, Childhood Education, Fall 1997.

Recommendations for caregiving in *infancy* should consider beliefs, practices, and goals of the *culture* of the *parents*. The *physical, cognitive, and emotional development* of the baby is enhanced by collaboration and support between parents and child care professionals in infant care settings. Child care courses should teach cultural diversity, not just the American way.

B. EARLY CHILDHOOD

 The Language Explosion, Geoffrey Cowley, 68 Newsweek, Special Issue, Spring/Summer 1997. Most psycholinguists agree that in early childhood the young brain is wired to analyze and learn many aspects of language. This article reviews how children discern sound, meaning, and grammar in all 6,000 language cultures. It recommends ways to use "parentese" to facilitate language and suggests red flags to



Development during Infancy and Early Childhood

Six selections profile the impressive abilities of infants and young children, examine the ways in which children learn, and discuss the development of empathy in early childhood.

watch for that may signal language disabilities.

 Defining the Trait That Makes Us Human, Beth Azar, APA Monitor, November 1997.

The development of **empathy in early childhood** is both a **cognitive** and an **emotional achievement.** While a **genetic** predisposition to empathize exists, **education** is important for shaping empathy. The author cites researchers' opinions on how it can best be taught in **family/parenting** contexts.

 Highlights of the Quality 2000 Initiative: Not by Chance, Sharon L. Kagan and Michelle J. Neuman, Young Children, September 1997.

Early childhood education programs help shape the **physical**, **cognitive**, and **emotional development** of the 13 million American children who attend them. This article describes the recommendations for state-of-the-art programs that use technologies and resources **creatively**, are cost-effective, and will enhance the well-being of our young children.

Overview

A. COGNITION

 The Genetics of Cognitive Abilities and Disabilities, Robert Plomin and John C. DeFries, Scientific American, May 1998.

The authors of this article define heritability and explain how it influences **cognitive development**. They discuss the difficult hunt for specific **genes** for cognitive abilities at the molecular level and give a current status report. **Molecular genetics** may provide important answers to questions of how the environment also shapes the learning process.

15. Basing Teaching on Piaget's Constructivism, Constance Kamii and Janice K. Ewing, *Childhood Education*, Annual Theme Issue, 1996.

Piaget's **cognitive theory** embraces the view that much of learning originates from inside the child. This theory of constructivism is clearly articulated in this article. Constructivism not only explains **how children construct knowledge** but also helps adults plan more sensitive ways to teach them.

16. The First Seven... and the Eighth: A Conversation with Howard Gardner, Kathy Checkley, Educational Leadership, September 1997.

Howard Gardner believes that there are eight **cognitive** abilities that can be used to solve problems or **create** products: eight different kinds of intelligences. In this interview he describes the first seven plus an eighth, the naturalist intelligence. Children should be helped to discover what they are good at, and **educational** situations should nurture and enhance their areas of expertise.

B. SCHOOLING

17. Bell, Book, and Scandal, The Economist, December 101 24, 1994/January 6, 1995.

An overview of **IQ** measurement illustrates the virtues, exaggerations, or vices of Francis Galton, Alfred Binet, Charles Spearmen, L. L. Thurstone, Arthur Jensen, Howard Gardner, and others. *The Bell Curve* by Charles Murray and Richard Herrnstein is critically reviewed. Questions are raised about **cultural determinism**, the relationship of **physical development** to intellect, and the use of IQ tests to order children into differential **educational placements.** 82

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Development during Childhood: Cognition and Schooling

Seven selections examine human development during childhood, paying specific attention to social and emotional development, cognitive and language development, and development problems.

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 The Death of Child Nature: Education in the Postmodern World, David Elkind, Phi Delta Kappan, November 1997.

David Elkind argues that **education** continues to see children as alike and amenable to universal rules even though the postmodern world stresses the importance of differences. **Culture**, race, **gender**, learning styles, and other phenomena have no regularity. Children should not be expected to melt into a common amalgam; as individuals, learning is always a **creative** activity.

- 19. In Search of ... Brain-Based Education, John T. 110 Bruer, Phi Delta Kappan, May 1999. This essay supplies rebuttals to the brain-based literature that advocates changing education to comply with right-left (gender differentiated) brain functions and a sensitive period for cognitive development between ages 4 and 10. Critical evaluation of scientific brain research reveals that neurobiology has not yet revealed answers to questions of how children learn, remember, and think.
- 20. Caution-Praise Can Be Dangerous, Carol S. 117 Dweck, American Educator, Spring 1999. The right kind of praise can boost self-esteem and increase achievement motivation in school. Praise for effort increases the challenge to learn. However, praise of a student's intelligence is dangerous. Students praised as intelligent choose easy tasks to avoid making mistakes and threatening their status. One sentence of praise (right or wrong) is pervasive and powerful.

Overview

A. FAMILY

21. Father Love and Child Development: History and 124 Current Evidence, Ronald P. Rohner, Current Directions in Psychological Science, October 1998.

Parental influence has historically been viewed as mother love as prime mover. New research shows that father love and acceptance is very important to a child's **cognitive** and **emotional development** in both **genders** and in all **cultures.** Ronald Rohner reviews six types of studies that demonstrate the power of father love. **Depression, drug abuse,** and **violence** outcomes, for example, are more linked to father love than to mother love.

22. The Parent Trap, Sharon Begley, *Newsweek,* September **128** 7, 1998.

This article reviews the book by Judith Rich Harris that suggests that **parenting** influences are less important to child outcomes than **genetic predetermination**. Many rebuttals to Harris's the sis are voiced as well as some support. **Personality** traits, **peers'** influence, and **occupational** choices result from the interactive effects of both nature and nurture.

23. Kids Who Don't Fit In, Pat Wingert, Newsweek, March 134 22, 1999.

A child's **emotional intelligence** may have a genetic basis, but **family/parenting** skills can help children fit in better with **peers** and in social situations. This article discusses early signs of emotional disability. **Play and kindness stories in school** and at home can foster more empathy. Social skills therapy may also help both parents and children.



Development during Childhood: Family and Culture

Six selections discuss the impact of home and culture on child rearing and child development. The topics include parenting styles, family structure, and cultural influences. 122

B. CULTURE

24. The Effects of Poverty on Children, Jeanne Brooks- 136 Gunn and Greg J. Duncan, The Future of Children, Summer/ Fall 1997.

This article reviews what poverty does to children's physical development, health, nutrition, cognition, school achivement, and emotional development. Poor children have less access to **peers** and see more **violence**. The authors back up their claims with extensive data.

25. Effects of Maltreatment and Ways to Promote 151 Children's Resiliency, Barbara Lowenthal, Childhood Education, Summer 1999.

Violence (abuse, severe injuries, natural disorders) leaves children at risk for stress disorders, emotional/personality disorders, health problems, cognitive disorders, and depression. Such negative experiences cause abnormal neuronal activity that, in turn, disrupts brain development, creating greater risks to the neurons than in adulthood. Interventions to prevent further maltreatment and to promote resiliency are suggested.

26. Tomorrow's Child, Jerry Adler, Newsweek, November 155 2, 1998.

What will the twenty-first century culture of childhood be like? This article reviews hallmarks of family life in the twentieth century, and predicts landmarks for the future. These include half of the children in the United States being non-Caucasian, having health ensured by DNA manipulations, going to free preschools and health clubs, having computer Internet expertise, and eating genetically engineered foods packed with nutritional supplements.

Overview

A. ADOLESCENCE

27. Growing Up Goes On and On and On, Cynthia 160 Crossen, Wall Street Journal, March 24, 1997. This article suggests that **adolescence** (the time between childhood and adulthood) is the longest it has ever been. Physical changes herald emotional/personality unsteadiness, depres-

sion, and threats to self-esteem that may last through age 21 or beyond. Comparisons are made with adolescence in previous decades.

28. Why the Young Kill, Sharon Begley, Newsweek, May 163 3, 1999.

Quotes from experts on adolescent psychology and neurobiology show that aggression/violence probably requires a particular environment of stress, lack of morality training, and/or negligent parenting imposed on a temperamentally vulnerable child with a genetic predisposition to antisocial personality. Such doubly jeopardized youth lack the skills to restore their sense of self-esteem when faced with perceived injustices.

29. The Secret Life of Teens, John Leland, Newsweek, May 166 10, 1999.

This selection points out the importance of parents entering the secret world of **adolescence**. Parents need to learn the secret language used to communicate about sex and drugs. Television, videos, and computer games present teens with a landscape of aggression/violence and sex/gender fantasies. Parental incursions can help replace poor quality role models with ethics/ morality training.



Development durina Adolescence and Young Adulthood

Seven selections explore a wide range of issues and topics concerning adolescence and early adulthood.

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The concepts in bold italics are developed in the article. For further expansion please refer to the Topic Guide and the Index.

B. YOUNG ADULTHOOD

- 30. Brain Sex and the Language of Love, Robert L. 170 Nadeau, The World & I, November 1997. Young adults show gender differences in intimacy. Male communication emphasizes action and autonomy. Female language promotes sharing and consensus. Women give "lack of communication" as a reason for divorce. Robert Nadeau explains that some of these differences may result from sex-specific brain hemisphere functioning.
- 31. The Infertility Challenge, Annetta Miller and Joan Raymond, Newsweek, Special Issue, Spring 1999. The problem of infertility has not been solved. This article reviews gender-related causes (evenly split between men and women) and new techniques of assisted reproductive technology (ART). The amazing transformations in ART since the first "test tube baby" in 1979 have a dark side. Costs are high and seldom insured, chromosomal abnormalities are four times higher than in unassisted pregnancies, and success is not guaranteed.
- 32. The Science of a Good Marriage, Barbara Kantrowitz and Pat Wingert, Newsweek, April 19, 1999. This article contradicts the Mars-Venus gender difference in emotion/personality as a factor in divorce. Young adults with happy relationships share power. They keep the demons of criticism, contempt, defensiveness, and stonewalling at bay. The birth of a first baby requires extra work in household and child-care roles. Happy marriages have a significant effect on good health.
- **33. The Nature and Uses of Dreaming,** Ernest Hartmann, USA Today Magazine (Society for the Advancement of Education), March 1999.

Young adults' dreams are a window of their **emotional** state and can lead to useful self-knowledge, according to Ernest Hartmann. Stressful events bring dreams of fear, helplessness, guilt, and/or grief. Dreams make connections broadly, but not randomly, in a pictorial **language**. Reading dream language has **creative** as well as therapeutic uses.

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 34. Memory, Geoffrey Cowley and Anne Underwood, 188 Newsweek, June 15, 1998.
 Forgetfulness is America's latest health obsession. What changes in cognition can be wrought with nutrition, stress management, and exercise? Books and seminars on memory retention

ment, and exercise? Books and seminars on memory retention sell quickly to **middle-aged adults**. This article discusses many antidotes for forgetfulness.

35. The Age of Anxiety, Donna Foote and Sam Seibert, 193 Newsweek, Special Issue, Spring/Summer 1999. Middle-aged adults have many stress-related ailments. However, gender differences exist: women have more depression and nutrition disorders; men have more aggression and drugrelated disorders. The physical status of mens' and womens' brains differs at midlife. Women have much less serotonin (a neurotransmitter) while men have less limbic system reactions to stress. Sex hormones are not the only cause of differences between the sexes.



Development during Middle and Late Adulthood

Eight selections review a variety of biological and psychological aspects of aging, questioning the concept of set life stages. 36. Understanding Perimenopause, Sharon Begley, 196 Newsweek, Special Issue, Spring 1999.

Women undergo a few years of perimenopause in *middle adulthood.* It can masquerade as *physical status decline* or *depression*, but it is neither. It can be treated. This article explains the symptoms and the different therapies used for different women. It is not imaginary: It does not begin when menstrual periods end, and each woman experiences it uniquely.

B. LATE ADULTHOOD

37. The Johns Hopkins Prescription for Longevity, The **200** Johns Hopkins Medical Letter Health after 50, December 1998.

Late adulthood can be a healthy time of life. This article reviews lifestyle factors that can make it salubrious. Exercise is the single most recommended anti-aging measure. Other lifestyle choices should include good **nutrition**, avoiding sun exposure, drinking water, reducing **stress**, challenging the mind, and cultivating friendships.

New Nerve Cells for the Adult Brain, Gerd Kempermann and Fred H. Gage, Scientific American, May 1999.

Until recently it was accepted as truth that neurons could not undergo mitosis after birth. Scientists have discovered that neurons in the hippocampus can regenerate. Stem cells in other brain locations may also have this potentiality. If so, many neurological diseases of **late adulthood** may be cured. This article reviews the current knowledge about this startling discovery.

 The Age Boom, Jack Rosenthal, New York Times Magazine, 209 March 9, 1997.

The institutions that are most important for **older adults** are the same as those for others: **family, school, work.** The author discusses raising grandchildren, going back to college after 50, and continuing to work after retirement as phenomena of the **culture** of late adulthood today.

 Emotion in the Second Half of Life, Laura L. Carstensen 213 and Susan Turk Charles, Current Directions in Psychological Science, October 1998.

The authors propose that **late adulthood** is marked by improvement in **emotional regulation**, and that decline sets in only at the very end of life. Social networks grow smaller but social contacts and partners become more significant. Poignancy reigns. Many old people say their lives have never been better. Negative emotions are reduced while positive emotions are maintained.

41. The Centenarians Are Coming!! Cynthia G. Wagner, 218 The Futurist, May 1999. Jeanne Calment lived to be 122 and broke the documented human longevity record. However, late adulthood now has many centenarians. This article analyzes the trend toward longevity. Occupational choices of the future will reflect both longer careers, as well as careers servicing the old-old (home care, prosthetics, etc.). Planning tips and resources for longer living are included.

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This topic guide suggests how the selections and World Wide Web sites found in the next section of this book relate to topics of traditional concern to human development students and professionals. It is useful for locating interrelated articles and Web sites for reading and research. The guide is arranged alphabetically according to topic.

The relevant Web sites, which are numbered and annotated on pages 4 and 5, are easily identified by the Web icon (☉) under the topic articles. By linking the articles and the Web sites by topic, this ANNUAL EDITIONS reader becomes a powerful learning and research tool.

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AE: Human Development

The following World Wide Web sites have been carefully researched and selected to support the articles found in this reader. If you are interested in learning more about specific topics found in this book, these Web sites are a good place to start. The sites are cross-referenced by number and appear in the topic guide on the previous two pages. Also, you can link to these Web sites through our DUSHKIN ONLINE support site at http://www.dushkin.com/online/.

The following sites were available at the time of publication. Visit our Web site—we update DUSHKIN ONLINE regularly to reflect any changes.

General Human Development Issues

1. Association for Moral Education

http://www.wittenberg.edu/ame/index.html This association is dedicated to fostering communication, cooperation, training, curriculum development, and research that links moral theory to educational practices.

2. Behavior Analysis Resources

http://www.coedu.usf.edu/behavior/bares.htm Dedicated to promoting the experimental, theoretical, and applied analysis of behavior, this site encompasses contemporary scientific and social issues, theoretical advances, and the dissemination of professional and public information.

3. Healthfinder

http://www.healthfinder.org/default.htm

Healthfinder is a consumer health site that contains the latest health news, prevention and care choices, and information about every phase of human development.

4. Social Influence

http://www.influenceatwork.com/intro.html Persuasion, compliance, and propaganda are the main focus of this site. It includes practical examples and applications.

Genetic and Prenatal Influences on Development

5. American Academy of Pediatrics (AAP)

http://www.aap.org

AAP provides data for optimal physical, mental, and social health for all children. The site links to professional educational sources and current research.

6. Basic Neural Processes

http://psych.hanover.edu/Krantz/neurotut.html An extensive tutorial on brain structures is provided here.

7. Evolutionary Psychology: A Primer

http://www.psych.ucsb.edu/research/cep/ A link to an evolutionary psychology primer is available on this site. Extensive background information is included.

8. Human Genetics and Human Genome Project http://www.kumc.edu/gec/

The University of Kansas Medical Center provides information on human genetics and the human genome project at this site. Included are a number of links to research areas.

9. Serendip

http://serendip.brynmawr.edu/serendip/

Organized into five subject areas (brain and behavior, complex systems, genes and behavior, science and culture, and science education), this site contains interactive exhibits, articles, links to other resources, and a forum.

Development during Infancy and Early Childhood

10. Aggression and Cooperation: Helping Young Children Develop Constructive Strategies

http://ericps.crc.uiuc.edu/eece/pubs/digests/1992/ jewett92.html

This ERIC Digest report is on helping children deal effectively with aggression. Developing prosocial attitudes and behaviors is its goal.

11. Children's Nutrition Research Center (CNRC)

http://www.bcm.tmc.edu/cnrc/ CNRC is dedicated to defining the nutrient needs of healthy children, from conception through adolescence, and of pregnant and nursing mothers.

12. Early Childhood Care and Development

http://www.ecdgroup.com

Child development theory, programming and parenting data, and research can be found on this site of the Consultative Group. It is dedicated to the improvement of conditions of young children at risk.

13. Society of Pediatric Psychology (SPP)

http://macserv.psy.miami.edu/SPP/

The home page for SPP provides a forum for scientists and professionals who are interested in the health care of children, adolescents, and their families, with links to publications and other sites.

14. Zero to Three: National Center for Infants, Toddlers, and Families

http://www.zerotothree.org

Zero to Three is dedicated solely to infants, toddlers, and their families. Organized by recognized experts in the field, it provides technical assistance to communities, states, and the federal government.

Development during Childhood: Cognition and Schooling

15. Children Now

http://www.childrennow.org

Children Now focuses on improving conditions for children who are poor or at risk. Articles include information on education, the influence of media, health, and security.

16. Council for Exceptional Children

http://www.cec.sped.org

This is the home page of the Council for Exceptional Children, which is dedicated to improving education for exceptional children and the gifted child.

17. Educational Resources Information Center (ERIC)

http://www.ed.gov/pubs/pubdb.html Sponsored by the U.S. Department of Education, this site will lead to numerous documents related to elementary and early childhood education.

18. Federation of Behavioral, Psychological, and Cognitive Science

http://www.am.org/federation/

The Federation's mission is fulfilled through legislative and regulatory advocacy, education, and information dissemination to the scientific community. Hotlink to the National Institutes of Health's Project on the Decade of the Brain.

19. The National Association for the Education of Young Children (NAEYC)

http://www.naeyc.org

The NAEYC is the nation's largest organization of early childhood professionals. It is devoted to improving the quality of early childhood education programs for children from birth through the age of eight.

20. Project Zero

http://pzweb.harvard.edu

Following 30 years of research on the development of learning processes in children and adults, Project Zero is now helping to create communities of reflective, independent learners; to enhance deep understanding within disciplines; and to promote critical and creative thinking.

Development during Childhood: Family and Culture

21. Childhood Injury Prevention Interventions

http://depts.washington.edu/hiprc/

Systematic reviews of childhood injury prevention interventions on such diverse subjects as adolescent suicide, child abuse, accidental injuries, and youth violence are offered on this site.

22. Families and Work Institute

http://www.familiesandworkinst.org

The Families and Work Institute conducts policy research on issues related to the changing workforce, and it operates a national clearinghouse on work and family life.

23. National Committee to Prevent Child Abuse (NCPCA)

http://www.childabuse.org

Dedicated to the NCPCA's child abuse prevention efforts, this site provides statistics, parenting tips, chapter data, and other resources.

24. The National Parent Information Network (NPIN)

http://ericps.crc.uiuc.edu/npin/

NPIN's site contains resources related to many of the controversial issues faced by parents raising children in contemporary society. Discussion groups are also available.

25. Parentsplace.com: Single Parenting

http://www.parentsplace.com/family/singleparent/ This resource focuses on issues concerning single parents and their children. The articles range from parenting children from infancy through adolescence.

Development during Adolescence and Young Adulthood

26. AMA-Adolescent Health On Line

http://www.ama-assn.org/adolhlth/adolhlth.htm This AMA adolescent health initiative describes clinical preventive services that primary care physicians and other health professionals can provide to young people.

27. American Academy of Child and Adolescent Psychiatry

http://www.aacap.org/web/aacap/

Up-to-date data on a host of topics that include facts for families, public health, and clinical practice may be found here.

28. Ask NOAH About: Mental Health

http://www.noah.cuny.edu/illness/mentalhealth/ mental.html

NOAH's Web site contains information about child and adolescent family problems, mental conditions and disorders, suicide prevention, and much more.

29. Biological Changes in Adolescence

http://www.personal.psu.edu/faculty/n/x/nxd10/ biologic2.htm

This site offers a discussion of puberty, sexuality, biological changes, cross-cultural differences, and nutrition for adolescents, including a look at obesity.

Development during Middle and Late Adulthood

30. The Alzheimer Page

http://www.biostat.wustl.edu/ALZHEIMER/ Links to a wide range of sites devoted to Alzheimer's disease and dementia can be found here.

31. American Psychological Association's Division 20, Adult Development and Aging

http://www.iog.wayne.edu/APADIV20/lowdiv20.htm Dedicated to studying the psychology of adult development and aging, this division provides links to research guides, laboratories, instructional resources, and other related areas.

32. Gero Web

http://www.iog.wayne.edu/GeroWebd/GeroWeb.html This virtual library on aging contains information on gerontology, geriatrics, and the process of aging.

33. Grief Net

http://rivendell.org

Produced by a nonprofit group, Rivendell Resources, this site provides many links to the Web on the bereavement process, resources for grievers, and support groups.

34. Huffington Center on Aging

http://www.hcoa.org

The Huffington Center on Aging home page offers links to sites on aging and Alzheimer's disease.

35. National Aging Information Center (NAIC)

http://www.aoa.dhhs.gov/naic/

This service by the Administration on Aging is a central source of data on demographic, health, economic, and social status of older Americans.

36. Rose.Net "For Seniors Only"

http://www.rose.net/seniors.htm

Several sites are listed here that could be of interest to members of the senior community.

We highly recommend that you review our Web site for expanded information and our other product lines. We are continually updating and adding links to our Web site in order to offer you the most usable and useful information that will support and expand the value of your Annual Editions. You can reach us at: http://www.dushkin.com/annualeditions/.

Unit Selections

Genetic Influences

- 1. Designer Babies, Sharon Begley
- Prenatal Influences
- Nature's Clones, Jim Neimark
 The Role of Lifestyle in Preventing Low Birth Weight, Virginia Rall Chomitz,
 - Lilian W. Y. Cheung, and Ellice Lieberman
- 4. A State of the Art Pregnancy, Karen Springen
- 5. Fetal Psychology, Janet L. Hopson
- Drug-Exposed Infants, Lucy Salcido Carter and Carol S. Larson
- 7. Sperm under Siege, Anne Merewood

Key Points to Consider

- Will a complete genetic blueprint of humans allow molecular biologists to alter germ cells (eggs, sperm)? Should this type of gene therapy be ethically acceptable in the twenty-first century? Defend your answer.
- Do studies of identical twins give answers to the age-old nature-nurture questions? What strategies can reduce the numbers of babies born with low birth weight and at risk of developmental disabilities?
- How will technology change the course of pregnancy in the future? Will state-of-the-art gestation include medical care of the fetus? Explain.
- What kind of prenatal nurture produces the most psychologically healthy fetuses?
- What is the status of drug abuse prevention and treatment programs for pregnant women?
- How do sperm contribute to prenatal development?

DUSHKINDNLNE Links

www.dushkin.com/online/

- 5. American Academy of Pediatrics (AAP) http://www.aap.org
- Basic Neural Processes http://psych.hanover.edu/Krantz/neurotut.html
- Evolutionary Psychology: A Primer http://www.psych.ucsb.edu/research/cep/
- 8. Human Genetics and Human Genome Project http://www.kumc.edu/gec/
- Serendip http://serendip.brynmawr.edu/serendip/

These sites are annotated on pages 4 and 5.