Aging and Down Syndrome

Alzheimer's Disease, Down's Syndrome, and Aging: Down's Syndrome as an Accessible Model for Studies in Aging and Senile Dementia Alzheimer Type

This Is Your Brain on Music

Neuropsychological Differences Between Two Down Syndrome Age Groups

Reactive Oxygen Species (ROS) in Living Cells

Dementia, Aging, and Intellectual Disabilities

Aging Effects on Contrast Sensitivity in Adults with Down Syndrome

Physical Therapy for Children - E-Book

Special Report on Aging

Losing a Million Minds

Prenatal Diagnosis and Screening for Down Syndrome

Advances in Research on Down Syndrome

The Future of Disability in America

Geriatric Neurology

Alzheimer's Disease and Dementia in Down Syndrome and Intellectual Disabilities

Nemesis Memory

Aging and Down's Syndrome

Ocular Assessment of the Aging Down's Syndrome Patient

Neurological Perspective on the Aging in Down's Syndrome and Its Relationship to Alzheimer's Disease

Supporting Positive Behavior in Children and Teens With Down Syndrome

Genetics and Etiology of Down Syndrome

Excelling in Life with Down Syndrome

Fasten Your Seatbelt

Down Syndrome

The Brain in Human Aging

Advances in Aging Research

Mental Wellness in Adults with Down Syndrome

Down Syndrome

Dementia, Aging, and Intellectual Disabilities

Aging and Down Syndrome

Prevent Alzheimer's Disease

Establishing the Importance of Education for Families on the Prevalence of Dementia in Persons with Down Syndrome

Brain Transcriptome

The Neurobiology of Aging and Alzheimer Disease in Down Syndrome

The ICD-10 Classification of Mental and Behavioural Disorders

Understanding Healthy Aging in Middle-aged Adults with Down Syndrome

Through Leisure Activity

Down Syndrome Problems in Down Syndrome Adults with Down Syndrome

Mechanisms for Cholinergic Degeneration and Cognitive Impairment in Aging and Alzheimer Disease

This is the first book in the field to address the underlying biological abnormalities of Dementia in Alzheimer’s Disease (DAD) in people with Down syndrome. It brings together research findings relating to the neuropathology, genetics, blood markers and neurophysiology of Alzheimer’s disease in older adults with Down syndrome. Down Syndrome and Alzheimer’s Disease presents vital information to medical professionals who provide clinical care to people with Alzheimer’s disease and Down syndrome. It will also be of great benefit to researchers with an interest in Alzheimer’s disease and Down syndrome and academics researching ageing issues in people with Down Syndrome. It complements Alzheimer’s Disease and Dementia in Down Syndrome and Intellectual Disabilities by the same author. This book provides a concise yet comprehensive source of current information on Down syndrome. Research workers, scientists, medical graduates and paediatricians will find it an excellent source for reference and review. This book has been divided into four sections, beginning with the Genetics and Etiology and ending with Prenatal Diagnosis and Screening. Inside, you will find state-of-the-art information on: 1. Genetics and Etiology 2. Down syndrome Model 3. Neurologic, Urologic, Dental

Published since 1959, International Review of Neurobiology is a well-known series appealing to neuroscientists, clinicians, psychologists, physiologists, and pharmacologists. Led by an internationally renowned editorial board, this important serial publishes both eclectic volumes made up of timely reviews and thematic volumes that focus on recent progress in a specific area of neurobiology research. This volume, concentrates on the brain transcriptome. Brings together cutting-edge research on the brain transcriptome Despite increases in the lifespan of individuals with Down syndrome and the
experience of early aging due to the triplication of chromosome 21, little is known about the daily lives of adults with Down syndrome during middle adulthood, the life stage in which many issues of aging begin to emerge. In the general population, leisure activity is a key aspect of daily life that has been shown to contribute to healthy aging. Thus, the present studies examine the leisure activity of middle-aged adults with Down syndrome to identify factors that promote healthy aging, or optimal outcomes despite early physical aging in this population. The overarching goal was to understand the daily leisure activity of middle-aged adults with Down syndrome and determine potential associations between leisure activity and healthy aging, via measures of psychological well-being and Alzheimer’s disease neuropathology and cognitive functioning. Findings indicated that, on average, middle-aged adults with Down syndrome participated in roughly 35 minutes of physical leisure, 70 minutes of social leisure, and 150 minutes of cognitively stimulating and passive leisure activity each day. Most commonly, middle-aged adults with Down syndrome self-initiated and self-engaged in leisure activity. At a trend-level, greater weekly time spent in leisure activity was associated with higher (as opposed to lower) global subjective quality of life, as reported by middle-aged adults with Down syndrome. Finally, cognitively stimulating and social leisure activity appeared to contribute to healthy aging and protect against the negative effects of Alzheimer’s disease neuropathology on episodic memory. Interventions and services should seek to facilitate and promote the participation of middle-aged adults with Down syndrome in leisure activity, and specifically cognitively stimulating and social leisure activity.

This booklet summarizes what scientists have learned so far and where research is headed. There is no definitive evidence yet about what can prevent Alzheimer’s or age-related cognitive decline. What we do know is that a healthy lifestyle—one that includes a healthy diet, physical activity, appropriate weight, and no smoking—can maintain and improve overall health and well-being. Making healthy choices can also lower the risk of certain chronic diseases, like heart disease and diabetes, and scientists are very interested in the possibility that a healthy lifestyle might have a beneficial effect on Alzheimer’s as well. In the meantime, as research continues to pinpoint what works to prevent Alzheimer’s, people of all ages can benefit from taking positive steps to get and stay healthy. This book provides a concise yet comprehensive source of current information on Down syndrome. It focuses on exciting areas of research on chromosome editing, neurogenomics and diseases associated with Down syndrome. Research workers, scientists, medical graduates and physicians will find this book as an excellent source for consultation and references. Key features of this book are chromosome engineering in Down syndrome, mental retardation and cognitive disability, prenatal diagnosis and diseases associated with Down syndrome. Although aimed primarily for research workers on Down syndrome, we hope that the appeal of this book will extend beyond the narrow confines of academic interest and be exciting to wider audience, especially parents, relatives and health care providers who work with infants and children with Down syndrome.

Prepared at the request of several committees of Congress, this report discusses the medical, social, political, and financial aspects of dementia in the elderly and assesses the impact of these diseases on the Nation. The U.S. Office of Technology Assessment published this first government report on Alzheimer’s disease in 1987. Used as both a core textbook in PT programs and as a clinical reference, Physical Therapy for Children, 4th Edition, provides the essential information needed by PTs, both student and professional, when working with children. Like the previous bestselling editions, the 4th edition follows the practice pattern categories of the Guide to Physical Therapist Practice and uses the IFC model of the disabling process as it presents up-to-date evidence-based coverage of treatment. In this latest edition, Suzann Campbell DeLapp, Robert J. Palisano, and Margo N. Orlin
have added more case studies and video clips, additional chapters and Medline-linked references online, and Evidence to Practice boxes to make it easy to find and remember important information. Provides comprehensive foundational knowledge in decision making, screening, development, motor control, and motor learning, the impairments of body function and structure, and the PT management of pediatric disorders. Reflects a family-centered care model throughout to help you understand how to involve children and their caregivers in developing and implementing intervention plans. Emphasizes an evidence-based approach that incorporates the latest research for the best outcomes. Follows the practice pattern guidelines of the Guide to Physical Therapist Practice, 2nd Edition which sets the standard for physical therapy practice. Features the International Classification of Function, Disability, and Health (ICF) of the World Health Organization (WHO) as the model for the disabling process, emphasizing activity rather than functional limitations and participation rather than disability in keeping with the book’s focus on prevention of disability. Provides extensive case studies that show the practical application of material covered in the text and are often accompanied by online video clips illustrating the condition and its management. Makes it easy to access key information with plenty of tables and boxes that organize and summarize important points. Clearly demonstrates important concepts and clinical conditions you’ll encounter in practice with over 800 illustrations. Takes learning to a deeper level with additional resources on the Evolve website featuring: Over 40 video clips that correspond to case studies and demonstrate conditions found in each chapter Helpful resources, including web links Questions and exercises you’ll find helpful when preparing for the pediatric specialist certification exam Oxygen represents only 20% of the Earth’s atmosphere, yet it is vital for the survival of aerobic organisms. There is a dark part of the use of oxygen that consists in generating reactive species that are potentially harmful to living organisms. Moreover, reactive oxygen species can combine with nitrogen derivatives and generate many other reactive species. Thus, living organisms are continuously assaulted by reactive species from external or internal sources. However, the real danger comes in the case of high concentrations and prolonged exposure to these species. This book presents an image of the mechanisms of action of reactive species and emphasizes their involvement in diseases. Inflammation and cancer are examined to determine when and how reactive species turn the evolution of a benign process to a malignant one. Some answers may come from recent studies indicating that reactive species are responsible for epigenetic changes. A child doesn’t want to leave the toy store, so he stops and flops. Another bolts across a busy parking lot, turns and smiles at his mom. An eighteen-year-old student bursts into tears when asked to change activities at school. Sound familiar? These and other common behavior issues in children with Down syndrome can quickly become engrained and may even persist into adulthood. No parent wants that to happen, and thankfully, help is available! Dr. David Stein, a psychologist and Co-Director of the Down Syndrome Program at Boston Children’s Hospital, shares his approach to behavior management in this new book for parents. Supporting Positive Behavior in Children and Teens with Down Syndrome examines how the brain of a person with Down syndrome works, how those differences impact behavior, and why bad behavior should not be viewed as a willful act. Governed by this new awareness, parents are in a better position to change and manage their child’s behavior using these guiding principles: [[Be proactive, not reactive [[Be consistent [[Use visual schedules & Social Stories to direct behavior [[Develop a token reward chart [[Keep gut reactions in check [[Teach siblings to ignore bad behavior [[Learn effective disciplinary techniques [[Know when professional help is needed Some of these parenting concepts are intuitive, others are not, but when they are followed consistently, children and teens with Down syndrome do their best
behaviorally and the parent-child relationship remains as positive and loving as it should be.Editorial Advisor, Helen Bynum is a freelancer historian and author. --Book Jacket.Winner of the Man Booker International Prize 2011 In the "stifling heat of equatorial Newark," a terrifying epidemic is raging, threatening the children of the New Jersey city with maiming, paralysis, lifelong disability, and even death. This is the startling theme of Philip Roth’s wrenching new book: a wartime polio epidemic in the summer of 1944 and the effect it has on a closely knit, family-oriented Newark community and its children. At the center of Nemesis is a vigorous, dutiful twenty-three-year-old playground director, Bucky Cantor, a javelin thrower and weightlifter, who is devoted to his charges and disappointed with himself because his weak eyes have excluded him from serving in the war alongside his contemporaries. Focusing on Cantor’s dilemmas as polio begins to ravage his playground—and on the everyday realities he faces—Roth leads us through every inch of emotion such a pestilence can breed: the fear, the panic, the anger, the bewilderment, the suffering, and the pain. Moving between the smoldering, malodorous streets of besieged Newark and Indian Hill, a pristine children’s summer camp high in the Poconos—whose "mountain air was purified of all contaminants"—Roth depicts a decent, energetic man with the best intentions struggling in his own private war against the epidemic. Roth is tenderly exact at every point about Cantor’s passage into personal disaster, and no less exact about the condition of childhood. Through this story runs the dark questions that haunt all four of Roth’s late short novels, Everyman, Indignation, The Humbling, and now Nemesis: What kind of accidental choices fatally shape a life? How does the individual withstand the onslaught of circumstance?In this groundbreaking union of art and science, rocker-turned-neuroscientist Daniel J. Levitin explores the connection between music—its performance, its composition, how we listen to it, why we enjoy it—and the human brain. Taking on prominent thinkers who argue that music is nothing more than an evolutionary accident, Levitin poses that music is fundamental to our species, perhaps even more so than language. Drawing on the latest research and on musical examples ranging from Mozart to Duke Ellington to Van Halen, he reveals: • How composers produce some of the most pleasurable effects of listening to music by exploiting the way our brains make sense of the world • Why we are so emotionally attached to the music we listened to as teenagers, whether it was Fleetwood Mac, U2, or Dr. Dre • That practice, rather than talent, is the driving force behind musical expertise • How those insidious little jingles (called earworms) get stuck in our head A Los Angeles Times Book Award finalist, This Is Your Brain on Music will attract readers of Oliver Sacks and David Byrne, as it is an unprecedented, eye-opening investigation into an obsession at the heart of human nature.From the author of A Parents’ Guide to Down Syndrome and Adolescents with Down Syndrome ? a essential new book on adulthood!;The content of "Diagnostic criteria for research" (DCR-10) is derived from chapter V(F), Mental and behavioural disorders, of ICD-10 [International Statistical Classification of Diseases and Related Health Problems, tenth revision]This text assembles together advances in knowledge about dementia, Alzheimers disease and related disorders as they affect persons with intellectual disabilities. Diagnosis, assessment, treatment, management and care practices are detailed in a practical manner for both students and professionals.Geriatric Neurology, Volume 167, serves as an update on the basic biological and behavioral mechanisms underlying the aging process, with an emphasis on neurological aging and state-of-the-art reviews on our understanding of vascular, cognitive, neurodegenerative and neuropsychiatric diseases in the elderly. Developed with an eye to providing both the basic underpinnings of age-related changes and the clinical information necessary to aid in diagnostics and treatment, the book serves as a useful volume for students, basic and translational scientists, and practicing clinicians on how to understand and treat
common neurological disorders in the elderly. Reviews the foundations of geriatric neurology, including the fundamentals of age associated changes in molecular biology, altered pharmacokinetics and psychopharmacology that make drug therapy in the elderly different from younger patients. Contains major advances in our understanding of neurodegenerative diseases. Features contributions from world leaders in geriatric neurology—the broadest, most expert coverage available. The basic aim of this book is to help carers and professionals living or working with adults with intellectual disability to understand further Alzheimer’s disease and other forms of dementia. This book provides a concise yet comprehensive source of current information on Down syndrome. It focuses on exciting areas of research on diseases associated with Down syndrome. Inside, you will find state-of-the-art information on diseases associated with Down syndrome; improvement of cognitive skills in Down syndrome; and research approaches on Down syndrome. Although aimed primarily at research workers on Down syndrome, we hope that the appeal of this book extends beyond the narrow confines of academic interest and reaches a wider audience, especially parents, relatives, and health care providers who work with infants and children with Down syndrome. The future of disability in America will depend on how well the U.S. prepares for and manages the demographic, fiscal, and technological developments that will unfold during the next two to three decades. Building upon two prior studies from the Institute of Medicine (the 1991 Institute of Medicine’s report Disability in America and the 1997 report Enabling America), The Future of Disability in America examines both progress and concerns about continuing barriers that limit the independence, productivity, and participation in community life of people with disabilities. This book offers a comprehensive look at a wide range of issues, including the prevalence of disability across the lifespan; disability trends; the role of assistive technology; barriers posed by health care and other facilities with inaccessible buildings, equipment, and information formats; the needs of young people moving from pediatric to adult health care and of adults experiencing premature aging and secondary health problems; selected issues in health care financing (e.g., risk adjusting payments to health plans, coverage of assistive technology); and the organizing and financing of disability-related research. The Future of Disability in America is an assessment of both principles and scientific evidence for disability policies and services. This book’s recommendations propose steps to eliminate barriers and strengthen the evidence base for future public and private actions to reduce the impact of disability on individuals, families, and society. Cohen (National Institute of Aging) explains the brain’s functioning, its biochemical and behavioral dimensions, and its changes and resiliency with aging. Annotation copyright Book News, Inc. Portland, Or. Down syndrome remains the most common recognisable form of intellectual disability. The challenge for doctors today is how to capture the rapidly expanding body of scientific knowledge and devise models of care to meet the needs of individuals and their families. Down syndrome; Clinical Perspectives provides doctors and other health professionals with the information they need to address the challenges that can present in the management of syndrome. Chapters written by internationally respected paediatricians with a special interest in Down syndrome, cover Down syndrome comorbidities, such hearing problems, gastrointestinal disorders, congenital heart diseases, as well as the underlying biology and new developments in molecular genetics. Contributions from the UK Down Syndrome Association and Down Syndrome Medical Interest Group define how doctors can work effectively with other professionals to improve health care provisions for this group. Each chapter is illustrated by informative case scenarios and answers to FAQs from parents and carers. The Neurobiology of Aging and Alzheimer Disease in Down Syndrome provides a multidisciplinary approach to the understanding of aging and Alzheimer disease in Down
syndrome that is synergistic and focused on efforts to understand the neurobiology as it pertains to interventions that will slow or prevent disease. The book provides detailed knowledge of key molecular aspects of aging and neurodegeneration in Down Syndrome by bringing together different models of the diseases and highlighting multiple techniques. Additionally, it includes case studies and coverage of neuroimaging, neuropathological and biomarker changes associated with these cohorts. This is a must-have resource for researchers who work with or study aging and Alzheimer disease either in the general population or in people with Down syndrome, for academic and general physicians who interact with sporadic dementia patients and need more information about Down syndrome, and for new investigators to the aging and Alzheimer/Down syndrome arena. Discusses the complexities involved with aging and Alzheimer’s disease in Down syndrome Summarizes the neurobiology of aging that requires management in adults with DS and leads to healthier aging and better quality of life into old age. Serves as learning tool to orient researchers to the key challenges and offers insights to help establish critical areas of need for further research. This thoroughly updated second edition of MENTAL WELLNESS IN ADULTS WITH DOWN SYNDROME is upbeat and accessible in tone, yet encyclopedic in scope. The size of the book reflects both the breadth of the authors' knowledge--acquired as cofounders of the first medical clinic dedicated solely to the care of adults with Down syndrome--and the number of psychosocial issues and mental disorders that can affect people with Down syndrome. It's the go-to guide for parents, health practitioners, and caregivers who support teens and adults with Down syndrome. MENTAL WELLNESS emphasizes that understanding and appreciating both the strengths and challenges of people with Down syndrome is the key to promoting good mental health. It shows readers how to distinguish between bona fide mental health issues and common characteristics of Down syndrome--quirks or coping strategies. For example, although talking to oneself can be a sign of psychosis, many adults with Down syndrome use self-talk as an effective problem-solving strategy. The second edition includes new chapters on sensory issues (written by Dr. Katie Frank) and regression, expanded and now separate chapters on communication, concrete thinking, and visual memory, and an extensively updated chapter on Alzheimer’s disease citing abundant new research. Other chapters cover a range of conditions and assessment and treatment options: What Is Normal? Self-Esteem & Self-Image Self-Talk Grooves & Flexibility Life-Span Issues Social Skills Mood & Anxiety Disorders Obsessive-Compulsive Disorder Psychotic Disorders Eating Refusal Challenging Behavior Self-Injurious Behavior Autism Tics, Tourette Syndrome & Stereotypies While it’s not inevitable that people with Down syndrome will experience mental health problems, certain biological differences and environmental stressors can create greater susceptibility. Assessment and treatment options are detailed for each condition. With this guide, caregivers will be able to foster good mental health and troubleshoot challenging mental health issues. Down Syndrome: A Promising Future, Together provides a comprehensive and up-to-date look at life with Down syndrome. Designed to meet the needs of parents and professionals alike, this edited volume addresses a variety of critical medical, developmental, educational, and vocational issues. It discusses current trends and presents the most recent update of the Health Care Guidelines for Individuals with Down Syndrome: Down Syndrome Preventative Medical Check List, which groups by age medical assessments and other important information. Also covered are the controversial and high-profile issues surrounding alternative and nonconventional therapies. The book concludes with the personal stories of young adults with Down syndrome, including an account by Chris Burke of the television series Life Goes On. Filled with practical advice from leading practitioners and advocates in the field, Down Syndrome: A Promising Future, Together is an essential reference for
families of people with Down syndrome, for primary care physicians and other healthcare professionals, and for researchers, educators, social workers, early intervention workers, and students. This book provides a concise yet comprehensive source of current information on Down syndrome. Research workers, scientists, medical graduates and paediatricians will find it an excellent source for reference and review. This book focuses on exciting areas of research on prenatal diagnosis - Down syndrome screening after assisted reproduction techniques, noninvasive techniques, genetic counselling and ethical issues. Whilst aimed primarily at research worker on Down syndrome, we hope that the appeal of this book will extend beyond the narrow confines of academic interest and be of interest to a wider audience, especially parents and relatives of Down syndrome patients. “Life expectancy for adults with Down syndrome has dramatically increased over the last 100 years. Many people with Down syndrome are now living into their 60’s and 70’s. Further, there has been a marked social shift in people with Down syndrome no longer living in large impersonal institutions but now living in the community, often within their family homes or independently. Children are becoming literate and adolescents are acquiring professions and hobbies. This integration into society results in a higher quality of life. Many previously published textbooks have reviewed the medical and psychological conditions associated with Down syndrome. This book aims to highlight the more positive aspects of the life of people with Down syndrome. Fruitful examples, such as the Special Olympics, camping, arts, digital literacy and citizenship actions are included. The book presents early childhood interventions, transition of children to adults, experience with PALS programs, the role of positive behavior support and self-directed support, and finally optimal aging. The aim of this book is primarily to educate families, carers and professionals that people with Down syndrome can achieve excellent well-being in physical, mental and spiritual domains. One’s ability to maximize their own well-being is a human right which also reduces risks and costs associated with mental illness. We hope this book highlights the importance for children and adults with Down syndrome to be seen as valued citizens of their community and allows their voices to be heard”.--Introduces the illness, how it is detected and diagnosed, current treatments, and the daily lives of individuals affected by Down syndrome, with coping advice for siblings. “Individuals with Down syndrome are living longer, healthier lives due to advances and progress being made in medicine and health care. A rising issue is the diagnosis of dementia some aging adults with Down syndrome are receiving. This is a new phenomenon for people with Down syndrome, their families, and the medical and care provider community. This project interviewed eight family members of adults with Down syndrome, with or without a dementia diagnosis who are 35 years of age or older. It examined the prevalence of dementia in persons with Down syndrome and the availability and benefits of educational programs on aging with Down syndrome. The findings show that all participants were interested in education, including education on changes in health and memory, education covering caregiver support, and learning about programs or providers specializing in dual diagnosis. Recommendations to organizations include offering support groups, updating websites or using emails to offer information on dementia in persons with Down syndrome, and educating professionals caring for persons with Down syndrome about dementia.”--leaf iv.

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