

Current Trends in Childhood Obesity Research

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Published online: 23 August 2012
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Abstract Childhood obesity is a global health issue. To identify research trends and gaps of childhood obesity research, we reviewed MEDLINE publications from January 2011 to May 2012 and qualitatively analyzed the major domains and themes of research focus. Major domains are: measurements, obesity correlates, prevention interventions, treatment interventions, and policy issues. Key advances and innovations are highlighted within each domain. Emerging areas include the advancement of measurement methodologies that simultaneously capture individual and contextual information across time, analysis of policy problems, and the development of multilevel, community interventions. However, few effective and sustainable interventions are exemplified; some strategies are promising. Recommendations for future research includes the adoption of a systems approach that integrates individual, environmental, and policy change, the scale up and diffusion of innovations, studies of intended and unintended policy impacts, and the design and testing of effective social marketing strategies.

Keywords Childhood obesity · Children · Overweight · Diet · Physical activity · Prevention

Introduction

Childhood obesity remains persistent in developed countries and continues to increase in developing countries despite

increases in public health research and intervention in the past three decades [1]. In the United States, the rise in childhood obesity began in the early 1980s and tripled in prevalence by 2000 [2]. Recent epidemiologic studies reveal a stabilizing, although persistent, trend in the rate of overweight and obesity in children and adolescents [3, 4]; however, differences between socioeconomic and racial/ethnic groups indicate growing disparities [5]. Moreover, the prevalence of overweight children is spreading worldwide and poses significant risk to public health and economic security [6]. The prevalence of overweight and obese children is greater than 20 % in many countries outside the United States, such as the United Kingdom, Australia, Chile, and Mexico [7]. Fast-developing Asian countries, such as India and Thailand, also are reporting rapidly increasing prevalence of overweight children, at 30 % and 15 %, respectively [8].

The focus of research on childhood obesity has shifted during the past three decades. Research began with mostly medical studies documenting the natural history and physiological sequelae of obesity, followed by individual- and family-based interventions, and, more recently, environmental correlates of and policy approaches to childhood obesity. Although much has been learned about the nature of childhood obesity, the problem remains exceedingly difficult to prevent and treat. By and large, although intensive family-based interventions can be efficacious over the short term, the effect of individual-level approaches alone, including education and skill-based techniques, are difficult to sustain [9]. In recognition of the need for greater and more sustained population-level impact, recent efforts began to identify attributes of the built environment in relation to diet and physical activity as well as to debate the merit of policy interventions, such as menu labeling mandates or soda taxation, to incentivize healthy behaviors and disincentivize unhealthy ones [10].

The purpose of this review is to provide a critical analysis of the state of the science in population-based childhood

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Child Obesity Research Paper

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Child Obesity Research Paper

Energy Balance and Obesity Isabelle Romieu, Laure Dossus, William C. Willett, 2018-01-12 Understanding the relationship between energy balance and obesity is essential to develop effective prevention programs and policies The International Agency for Research on Cancer convened a Working Group of world leading experts in December 2015 to review the evidence regarding energy balance and obesity with a focus on low and middle income countries and to consider the following scientific questions i Are the drivers of the obesity epidemic related only to energy excess and or do specific foods or nutrients play a major role in this epidemic ii What are the factors that modulate these associations iii Which types of data and or studies will further improve our understanding This book provides summaries of the evidence from the literature as well as the Working Group s conclusions and recommendations to tackle the global epidemic of obesity *Preventing Childhood Obesity* Institute of Medicine, Board on Health Promotion and Disease Prevention, Food and Nutrition Board, Committee on Prevention of Obesity in Children and Youth, 2005-01-31 Children s health has made tremendous strides over the past century In general life expectancy has increased by more than thirty years since 1900 and much of this improvement is due to the reduction of infant and early childhood mortality Given this trajectory toward a healthier childhood we begin the 21st century with a shocking development an epidemic of obesity in children and youth The increased number of obese children throughout the U S during the past 25 years has led policymakers to rank it as one of the most critical public health threats of the 21st century *Preventing Childhood Obesity* provides a broad based examination of the nature extent and consequences of obesity in U S children and youth including the social environmental medical and dietary factors responsible for its increased prevalence The book also offers a prevention oriented action plan that identifies the most promising array of short term and longer term interventions as well as recommendations for the roles and responsibilities of numerous stakeholders in various sectors of society to reduce its future occurrence *Preventing Childhood Obesity* explores the underlying causes of this serious health problem and the actions needed to initiate support and sustain the societal and lifestyle changes that can reverse the trend among our children and youth **Obesity and Lipotoxicity** Ayse Basak Engin, Atilla Engin, 2017-06-05 Due to the resultant health consequences and considerable increase in prevalence obesity has become a major worldwide health problem *Obesity and Lipotoxicity* is a comprehensive review of the recent researches to provide a better understanding of the lipotoxicity related mechanisms of obesity and the potential for the development of new treatment strategies This book overviews the biochemical pathways leading to obesity related metabolic disorders that occur subsequent to lipotoxicity Chapters examine the deleterious effects of nutrient excess at molecular level including the cellular and molecular aspects of breast cancer resistance to leptin insulin adiponectin and interconnection between the circadian clock and metabolic pathways during high fat feeding *Lipotoxicity and Obesity* will be a useful resource for

clinicians and basic science researchers such as biochemists toxicologists immunologists nutritionists adult and pediatric endocrinologists cardiologists as well as students who are thought in this field

2000 CDC Growth Charts for the United States, 2002 ABC of Obesity Naveed Sattar, Mike Lean, 2009-04-08 Obesity is a hugely expensive and increasing problem worldwide leading to disability reproductive problems depression and accelerated metabolic and vascular diseases in a large proportion of men women and children The ABC of Obesity is a new guide which will aid its effective management addressing issues such as dieting exercise self esteem drug treatment and surgery Recent evidence is used to highlight frequent problems successful treatment options and the most common causes Written by leading experts this is a widely accessible text and an indispensable guide for all general practitioners junior doctors nurses and other healthcare professionals who are involved in the treatment and research of this common condition

Obesity in Childhood and Adolescence Wieland Kiess, Claude Marcus, Martin Wabitsch, 2004-01-01 Obesity in childhood and adolescence has reached epidemic proportions in all industrialized countries around the world Its impact on individual lives as well as on health economics has to be recognized by physicians and the public alike Among the most common consequences of obesity in the adolescent are hypertension dyslipidemia back pain and psychosocial problems Therapeutic strategies include psychological and family therapy lifestyle behavior modification and nutrition education The role of regular exercise and exercise programs is emphasized Surgical procedures and drugs used in adult obesity are still not generally recommended for obese adolescents This book aims to increase physicians knowledge and understanding of obesity in childhood and adolescence as well as to further public awareness of the health burden and economic dimension of obesity at a young age Several chapters deliver insights into the basic understanding of which factors contribute to or prevent the development of overweight and obesity in young people Other contributions provide tools for the clinician to manage the care of the child and adolescent with overweight obesity In addition knowledge from the latest scientific studies on the molecular biology of obesity is also presented

A Life Course Perspective on Health Trajectories and Transitions Claudine Burton-Jeangros, Stéphane Cullati, Amanda Sacker, David Blane, 2015-08-11 This open access book examines health trajectories and health transitions at different stages of the life course including childhood adulthood and later life It provides findings that assess the role of biological and social transitions on health status over time The essays examine a wide range of health issues including the consequences of military service on body mass index childhood obesity and cardiovascular health socio economic inequalities in preventive health care use depression and anxiety during the child rearing period health trajectories and transitions in people with cystic fibrosis and oral health over the life course The book addresses theoretical empirical and methodological issues as well as examines different national contexts which help to identify factors of vulnerability and potential resources that support resilience available for specific groups and or populations Health reflects the ability of individuals to adapt to their social environment This book analyzes health as a dynamic experience It examines how different aspects of individual

health unfold over time as a result of aging but also in relation to changing socioeconomic conditions It also offers readers potential insights into public policies that affect the health status of a population

Early Childhood Obesity Prevention Policies Institute of Medicine,Committee on Obesity Prevention Policies for Young Children,Early Childhood Obesity Prevention Policies,2011-10-31 Childhood obesity is a serious health problem that has adverse and long lasting consequences for individuals families and communities The magnitude of the problem has increased dramatically during the last three decades and despite some indications of a plateau in this growth the numbers remain stubbornly high Efforts to prevent childhood obesity to date have focused largely on school aged children with relatively little attention to children under age 5 However there is a growing awareness that efforts to prevent childhood obesity must begin before children ever enter the school system Early Childhood Obesity Prevention Policies reviews factors related to overweight and obese children from birth to age 5 with a focus on nutrition physical activity and sedentary behavior and recommends policies that can alter children s environments to promote the maintenance of healthy weight Because the first years of life are important to health and well being throughout the life span preventing obesity in infants and young children can contribute to reversing the epidemic of obesity in children and adults The book recommends that health care providers make parents aware of their child s excess weight early It also suggests that parents and child care providers keep children active throughout the day provide them with healthy diets limit screen time and ensure children get adequate sleep In addition to providing comprehensive solutions to tackle the problem of obesity in infants and young children Early Childhood Obesity Prevention Policies identifies potential actions that could be taken to implement those recommendations The recommendations can inform the decisions of state and local child care regulators child care providers health care providers directors of federal and local child care and nutrition programs and government officials at all levels

Preventing Childhood Obesity Elizabeth Waters,Boyd Swinburn,Jacob Seidell,Ricardo Uauy,2011-08-24 Obesity is one of the biggest public health challenges in the 21st century Devising effective policy and practice to combat childhood obesity is a high priority for many governments and health professionals internationally This book brings together contributors from around the world and showcases the latest evidence based research on community and policy interventions to prevent unhealthy weight gain and improve the health and well being of children The authors highlight from the evidence available what is and what is not effective and provide recommendations on how to implement and evaluate promising interventions for obesity prevention This book is an essential read for all public health practitioners early childhood professionals health care providers and clinicians working to reduce the prevalence of childhood obesity in their communities

Bridging the Evidence Gap in Obesity Prevention Institute of Medicine,Food and Nutrition Board,Committee on an Evidence Framework for Obesity Prevention Decision Making,2010-12-24 To battle the obesity epidemic in America health care professionals and policymakers need relevant useful data on the effectiveness of obesity prevention policies and programs *Bridging the Evidence Gap in Obesity Prevention*

identifies a new approach to decision making and research on obesity prevention to use a systems perspective to gain a broader understanding of the context of obesity and the many factors that influence it *Schools, Corporations, and the War on Childhood Obesity* Darren Powell, 2019-11-26 Challenging the idea that the corporate war against childhood obesity is normal necessary or harmless this book exposes healthy lifestyles education as a form of mis education that shapes how students learn about health corporations and consumption Drawing on ethnographic research and studies from across the globe this book explores how corporations fund devise and implement various programmes in schools as part of the solution to childhood obesity Including perspectives from children teachers school leaders and both public and private external providers on how children s health and healthy consumption is understood and experienced this book is divided into eight accessible chapters which include Schooling the childhood obesity crisis The corporate gift of healthy lifestyles Coming together to solve obesity Learning about health fatness and good choices and Shaping the un healthy child consumer Schools Corporations and the War on Childhood Obesity is the perfect resource for postgraduate students and academics working in the public health or education field or those taking courses on the sociology of education health and physical education curriculum pedagogy ethnography or critical theory who are looking to gain an insight into the current situation surrounding obesity and health in corporations and schools *The New Public Health* Theodore H. Tulchinsky, Elena A. Varavikova, 2014-03-26 The New Public Health has established itself as a solid textbook throughout the world Translated into 7 languages this work distinguishes itself from other public health textbooks which are either highly locally oriented or if international lack the specificity of local issues relevant to students understanding of applied public health in their own setting This 3e provides a unified approach to public health appropriate for all masters level students and practitioners specifically for courses in MPH programs community health and preventive medicine programs community health education programs and community health nursing programs as well as programs for other medical professionals such as pharmacy physiotherapy and other public health courses Changes in infectious and chronic disease epidemiology including vaccines health promotion human resources for health and health technology Lessons from H1N1 pandemic threats disease eradication nutritional health Trends of health systems and reforms and consequences of current economic crisis for health Public health law ethics scientific d health technology advances and assessment Global Health environment Millennium Development Goals and international NGOs *Childhood Obesity* Michael I. Goran, 2016-10-14 Childhood obesity has reached epidemic proportions in the United States and continues to increase in prevalence in almost all countries in which it has been studied including developed and developing countries around the globe The causes of obesity are complex and multi factorial Childhood obesity becomes a life long problem in most cases and is associated with long term chronic disease risk for a variety of diseases including type 2 diabetes cardiovascular disease non alcoholic fatty liver disease as well as psychosocial as issues and obesity seems to affect almost every organ system in the body In recent years there has been

tremendous progress in the understanding of this problem and in strategies for prevention and treatment in the pediatric years Childhood Obesity Causes Consequences and Intervention Approaches presents current reviews on the complex problem of obesity from the multi level causes throughout early life before adulthood and the implications for this for long term disease risk It reviews numerous types of strategies that have been used to address this issue from conventional clinical management to global policy strategies attempting to modify the global landscape of food nutrition and physical activity Each chapter is written by a global authority in his or her respective field with a focus on reviewing the current status and recent developments The book features information on contributing factors to obesity including developmental origins social family birth cohort studies influence of ethnicity and global perspectives It takes a life course approach to the subject matter and includes exhaustive treatment of contributing factors to childhood obesity such as assessment environmental factors nutrition and dietary factors host factors interventions and treatment consequences and further action for future prevention This broad range of topics relevant to the rapidly changing field of childhood obesity is suitable for students health care professionals physicians and researchers

Dr Dhurandhar's Fat-loss Diet Dr Nikhil Dhurandhar,2018-01-10 Local Government Actions to Prevent Childhood Obesity National Research Council,Institute of Medicine,Transportation Research Board,Board on Population Health and Public Health Practice,Board on Children, Youth, and Families,Food and Nutrition Board,Committee on Childhood Obesity Prevention Actions for Local Governments,2010-01-10 The prevalence of childhood obesity is so high in the United States that it may reduce the life expectancy of today s generation of children While parents and other adult caregivers play a fundamental role in teaching children about healthy behaviors even the most positive efforts can be undermined by local environments that are poorly suited to supporting healthy behaviors For example many communities lack ready sources of healthy food choices such as supermarkets and grocery stores Or they may not provide safe places for children to walk or play In such communities even the most motivated child or adolescent may find it difficult to act in healthy ways Local governments with jurisdiction over many aspects of land use food marketing community planning transportation health and nutrition programs and other community issues are ideally positioned to promote behaviors that will help children and adolescents reach and maintain healthy weights Local Government Actions to Prevent Childhood Obesity presents a number of recommendations that touch on the vital role of government actions on all levels federal state and local in childhood obesity prevention The book offers healthy eating and physical activity strategies for local governments to consider making it an excellent resource for mayors managers commissioners council members county board members and administrators

Prevention and Treatment of Childhood Obesity Christine L. Williams,Sue Y. S. Kimm,1993 This volume containing 24 papers and 19 poster papers reviews the etiology and epidemiology of childhood obesity It explores genetic and contributory environmental factors It also describes recent research and educational efforts in prevention of the condition including programmes aimed at high risk minority populations

Food Marketing to Children

and Youth Institute of Medicine, Board on Children, Youth, and Families, Food and Nutrition Board, Committee on Food Marketing and the Diets of Children and Youth, 2006-05-11 Creating an environment in which children in the United States grow up healthy should be a high priority for the nation. Yet the prevailing pattern of food and beverage marketing to children in America represents at best a missed opportunity and at worst a direct threat to the health prospects of the next generation. Children's dietary and related health patterns are shaped by the interplay of many factors: their biologic affinities, their culture and values, their economic status, their physical and social environments, and their commercial media environments, all of which, apart from their genetic predispositions, have undergone significant transformations during the past three decades. Among these environments, none have more rapidly assumed central socializing roles among children and youth than the media. With the growth in the variety and the penetration of the media, there has come a parallel growth in their use for marketing, including the marketing of food and beverage products. What impact has food and beverage marketing had on the dietary patterns and health status of American children? The answer to this question has the potential to shape a generation and is the focus of *Food Marketing to Children and Youth*. This book will be of interest to parents, federal and state government agencies, educators, and schools, health care professionals, industry companies, industry trade groups, media, and those involved in community and consumer advocacy.

Primary and Secondary Preventive Nutrition Adrienne Bendich, Richard J. Deckelbaum, 2000-11-29 The Nutrition and Health series has been very fortunate to have each of the volumes recognized by rating services such as Doody's as valuable contributions for health professionals and individuals interested in the most up-to-date and balanced information from the experts in nutrition. These independent accolades may have occurred because the Nutrition and Health series has as its overriding mission to provide health professionals with texts that are considered essential because each book includes: 1 a synthesis of the state of the science; 2 timely in-depth reviews by the leading researchers in their respective fields; 3 extensive up-to-date fully annotated reference lists; 4 a detailed index; 5 relevant tables and figures; 6 identification of paradigm shifts and the consequences; 7 virtually no overlap of information between chapters but targeted inter-chapter referrals; 8 suggestions of areas for future research; and 9 balanced data-driven answers to patient questions which are based upon the totality of evidence rather than the findings of any single study. The series volumes are not the outcome of a symposium. Rather, each editor has the potential to examine a chosen area with a broad perspective both in subject matter as well as in the choice of chapter authors. The international perspective, especially with regard to public health initiatives, is emphasized where appropriate.

Caloric Intake from Fast Food Among Adults Cheryl D. Fryar, R. Bethene Ervin, 2013
Obesogenic Environments Amelia Lake, Tim G. Townshend, Seraphim Alvanides, 2011-06-09 In a world where obesity has now reached epidemic proportions, a thorough understanding of the underlying causes of the problem is essential if society, public health initiatives, and government policies are to successfully address the issue. The obesogenic environment describes all the possible influences that our environment presents which

encourage overweight and obesity in individuals and populations Beginning with an overarching introduction to obesity and its implications for health and wellbeing the book will move on to consider such crucial areas as eating behaviours and food environments physical activity and the environment the urban environment methods policy and future research directions Brings together expertise from across a range of disciplines Written by a truly multidisciplinary team of international authors Presents some of the most innovative thinking in the battle against obesity This groundbreaking book brings together for the first time the knowledge of experts with backgrounds in nutrition and dietetics policy epidemiology environmental sciences medical sciences town planning and urban design transport geography and physical activity in order to offer a multidisciplinary approach to public health suggesting new and exciting ways to shape our environment to better support healthful decisions

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