



REVIEW

# Ultra-Processed Food Addiction: A Research Update

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## Abstract

**Purpose of Review** Detail recent advancements in the science on ultra-processed food (UPF) addiction, focusing on estimated prevalence rates and emerging health disparities; progress towards identifying biological underpinnings and behavioral mechanisms; and implications for weight management.

**Recent Findings** Notable developments in the field have included: (1) estimating the global prevalence of UPF addiction at 14% of adults and 15% of youths; (2) revealing health disparities for persons of color and those with food insecurity; (3) observing altered functioning across the brain-gut-microbiome axis; (4) providing early evidence for UPF withdrawal; and (5) elucidating poorer weight management outcomes among persons with UPF addiction.

**Summary** The breadth of recent work on UPF addiction illustrates continued scientific and public interest in the construct and its implications for understanding and treating overeating behaviors and obesity. One pressing gap is the lack of targeted interventions for UPF addiction, which may result in more optimal clinical outcomes for this underserved population.

**Keywords** Ultra-processed foods · Ultra-processed food addiction · Compulsive overeating · Obesity treatment outcomes

## Introduction

Over the past 40 years, global rates of overweight and obesity have increased substantially [1], leading researchers to explore contributing mechanisms. While numerous biological (e.g., genetic, hormonal) and behavioral (e.g., sedentary lifestyle) factors are known to be associated with obesity [2], one of the key systemic changes in our environment that has paralleled the timeline of rising obesity rates has been the exponential increase of ultra-processed foods (UPFs) in

our food system since the 1980s [3, 4]. UPFs are not found in nature and have been intentionally created to be hyper-palatable through the addition of added fats, refined carbohydrates (e.g., white flour, sugar), and/or salt [5, 6]. Examples of UPFs include pastries, candy, packaged snacks, fast foods, and sugar-sweetened beverages [6]. Rigorous, epidemiological research has soundly implicated UPFs in not only obesity but also in an array of physical health conditions. As detailed in a recent review [7], four prospective cohort studies ( $n = 11,898$ –44,551; mean follow-up = 6.6–19 years) have consistently observed that persons reporting the highest versus lowest quartile of UPF intake at baseline had a 25–62% increased hazard for all-cause mortality, and, relatedly, numerous prospective and cross-sectional studies have linked increased UPF intake with elevated rates and/or complications of diet-related conditions (e.g., cardiovascular disease, type 2 diabetes).

While it has long been possible to create homemade versions of popular UPFs (e.g., homemade chocolate chip cookies), some researchers have noted that the uptick in rates of obesity and diet-related diseases have occurred on a similar timeline as industry-driven changes in the global food system [8]. One such change was the increased development and distribution of UPFs that followed after Kraft Foods and General Foods were acquired by Phillip Morris – one of

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# Research In Addiction An Update

**Mark Edmund Rose, Cheryl J. Cherpitel**



## **Research In Addiction An Update:**

*Research in Addiction* Hanns Hippus,Dieter Naber,1995 Papers from a September 1993 symposium held in Prien Germany review the state of the art in addiction research Topics include neurobiological behavioral neuroanatomical and neurochemical aspects of opiate tolerance and dependence comparison of epidemiological approaches to alcohol and illicit drugs psychiatric comorbidity in substance abuse factors affecting degree of dependence and development of medications for the treatment of substance abuse No index Annotation copyright by Book News Inc Portland OR *Research Issues Update, 1978* Gregory A. Austin,Mary A. Macari,Dan J. Lettieri,1978 A Counterdrug Research and Development Blueprint Update

Counterdrug Technology Assessment Center (U.S.),1995

## **Handbook of Research on Updating and Innovating**

**Health Professions Education: Post-Pandemic Perspectives** Ford, Channing R.,Garza, Kimberly B.,2021-10-08 The outbreak of the Coronavirus in early 2020 resulted in unprecedented changes to health professions education The pervasive stay at home orders resulted in faculty who were trained for preparing the next generation of health professionals in a traditional learning environment throwing out their lesson plans and starting anew New approaches to teaching and learning were created quickly and without the typical extensive planning which introduced several challenges However lessons learned from these approaches have also resulted in increased technology adoption innovative assessment strategies and increased creativity in the learning environment The Handbook of Research on Updating and Innovating Health Professions Education Post Pandemic Perspectives explores the various teaching and learning strategies utilized during the pandemic and the innovative approaches implemented to evaluate student learning outcomes and best practices in non traditional academic situations and environments The chapters focus specifically on lessons learned and best practices in health professions education and the innovative and exciting changes that occurred particularly with the adoption and implementation of technology It provides resources and strategies that can be implemented into the current educational environments and into the future This book is ideal for inservice and preservice teachers administrators teacher educators practitioners medical trainers medical professionals researchers academicians and students interested in curriculum course design development of policies and procedures within academic programs and the identification of best practices in health professions education **Counterdrug Research and Development Blueprint Update** ,1995 **Drug Addiction**

**Research and the Health of Women** Cora Lee Wetherington,Adele B. Roman,1998 **Substance Abuse and Addiction:**

**Breakthroughs in Research and Practice** Management Association, Information Resources,2019-01-04 Addiction is a powerful and destructive condition impacting large portions of the population around the world Addiction takes many forms and has the potential to impact individuals of all ages socio economic statuses and ethnic backgrounds Substance Abuse and Addiction Breakthroughs in Research and Practice is an authoritative resource that comprehensively examines the prevalence assessment causes and impacts of substance abuse and addiction from cultural legal psychosocial theoretical and

medical viewpoints Highlighting a range of pertinent topics such as technological addictions drug treatment and addictive behaviors this publication is an ideal reference source for psychologists researchers mental health professionals clinicians academicians and graduate level students seeking current research on the prevention assessment and rehabilitation of substance abuse and addiction **Deep Brain Stimulation Think Tank: Updates in Neurotechnology and Neuromodulation Research** Michael S. Okun,James J. Giordano,Adolfo Ramirez-Zamora,Casey Halpern,2021-12-02 **Research Update** California. Office of Criminal Justice Planning,1987 *Internet and Technology Addiction: Breakthroughs in Research and Practice* Management Association, Information Resources,2019-06-07 Addiction is a powerful and destructive condition impacting large portions of the population around the world and because of ubiquitous technology social networking and internet addiction have become a concern in recent years With all ages affected by the fear of missing out which forces them to stay continually connected in order to stay up to date on what others are doing new research is needed to prevent and treat anxieties caused by internet use Internet and Technology Addiction Breakthroughs in Research and Practice is an authoritative resource for the latest research on the social and psychological implications of internet and social networking addiction in addition to ways to manage and treat this unique form of addiction Highlighting a range of pertinent topics such as digital addiction social isolation and technology servitude this publication is an ideal reference source for psychologists cyberpsychologists cybersociologists counselors therapists public administrators academicians and researchers interested in psychology and technology use **Reproductive Life: Advances in Research in Psychosomatic Obstetrics and Gynaecology** K. Wijma,B. von Schou,1992-05-15 **Research Issues Update, 1978** Documentation Associates Information Services Incorporated,1979 **NIDA Research Monograph** ,1976 *Addiction Psychiatry: Challenges and Recent Advances, An Issue of Psychiatric Clinics of North America, E-Book* George Kolodner,Sunil Khushalani,Christopher Welsh,2022-09-05 In this issue guest editors bring their considerable expertise to this important topic Provides in depth reviews on the latest updates in the field providing actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create these timely topic based reviews *The Bedford Researcher with 2009 MLA and 2010 APA Updates* Mike Palmquist,2010-03-31 Click here to find out more about the 2009 MLA Updates and the 2010 APA Updates Tech savvy and student friendly The Bedford Researcher addresses the kinds of writing students actually do and the kinds of sources they actually use It follows real student writers from their initial research questions all the way to designing their final essays integrating electronic sources and tools into each stage of the process Clearly organized and readable The Bedford Researcher strips away the complexities of research writing and empowers students to write with confidence **Alcohol** Mark Edmund Rose,Cheryl J. Cherpitel,2011 Alcohol [New York Court of Appeals. Records and Briefs.](#) New York (State)., *National Institute of Justice Research in Action* ,1987 **Nutrition Disorders—Advances in Research**

**and Treatment: 2013 Edition** ,2013-06-21 Nutrition Disorders Advances in Research and Treatment 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Overnutrition The editors have built Nutrition Disorders Advances in Research and Treatment 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Overnutrition in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Nutrition Disorders Advances in Research and Treatment 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Handbook of Research on Teaching With Virtual Environments and AI* Panconesi, Gianni,Guida, Maria,2021-02-19 The increasingly pervasive use of digital technology has catapulted society into an interconnected world where the natural boundaries between humankind and machine virtual and real individual and community have become less perceptible As individuals interact with different digital technologies they must build a digital intelligence which must be further cultivated as it is a key competency for the future of school and work Digital intelligence includes understanding the mutual strengths between people and technology as well as developing an awareness in the use of digital tools in order to avoid common threats such as cyberbullying addiction to video games techno stress and more As adolescents continue to engage with virtual reality and 3D virtual worlds where the online and offline overlap and coincide it is important to build this intelligence as well as utilize these technologies to promote successful learning The Handbook of Research on Teaching With Virtual Environments and AI explores the new personalized educational opportunities that are available with digital technology and virtual environments that can be used within education This book focuses on the use of these tools and how to navigate the use of new technologies such as AI and virtual environments for educational practices While highlighting topics such as virtual worlds game based learning intelligent tutoring augmented reality and more this book is ideal for teachers administrators technologists educational software developers IT specialists practitioners researchers academicians and students interested in how virtual environments and AI are being implemented in teaching practices

Research In Addiction An Update: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. Research In Addiction An Update : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Research In Addiction An Update : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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