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Exploring the interplay between posttraumatic stress disorder, gut microbiota, and inflammatory biomarkers: a comprehensive meta-analysis

Pavio Petakh^{1,3}, Valentyn Oksenych¹, Iryna Kamyshna⁴, Iryna Boisak¹, Katerina Lyubomirskaya⁶ and Oleksandr Kamyshnyi be

Department of Biochemistry and Pharmacology, Ushhorod National University, Ushhorod, Ukraine. *Department of Microbiology, Virology, and Immunology: 1. Horbachevilly Temopii National Hedical University: Terricoil, Ukraine, "Broegelmann Research Laboratory, Department of Clinical Science. University of Bergen, Bergen, Norway, "Department of Medical Rehabilitation, I. Horbachevsky Terropit National Medical University: Terropit, Utraine, "Department of Childhood Diseases, Uphhorod National University, Uphhorod, Ukrane, "Department of Distetrics and Gynecologic Zaponimithia State Medical and Pharimaceubicats University, Zaponishinka, Ukraine

Introduction: Posttraumatic stress disorder (PTSD) is the most common mental health disorder to develop following exposure to trauma. Studies have reported conflicting results regarding changes in immune biomarkers and alterations in the abundance of bacterial taxa and microbial diversity in patients with PTSD.

Aim: The purpose of this meta-analysis is to summarize existing studies examining gut microbiota characteristics and changes in immune biomarkers in patients with PTSD.

Methods: Relevant studies were systematically searched in PubMed. Scoous, and Embase, published in English between January 1, 1960, and December 1, 2023. The outcomes included changes in abundance and diversity in gut microbiota (gut microbiota part) and changes in immune biomarkers (immune part).

Results: The meta-analysis included a total of 15 studies, with 9 focusing on changes in inflammatory biomarkers and 6 focusing on changes in gut microbiota composition in patients with PTSD. No differences were observed between groups for all inflammatory biomarkers (P>0.05). Two of the six studies found that people with PTSD had less alpha diversity. However, the overall Standardized Mean Difference (SMD) for the Shannon Diversity Index was not significant (SMD 0.27, 95% CI -0.62-0.609, p = 0.110). Regarding changes in abundance, in two of the studies, a significant decrease in Lachnospiraceae bacteria was observed.

Posttraumatic Stress Disorder A Comprehensive Text

Jennifer J. Vasterling, Chris Brewin

Posttraumatic Stress Disorder A Comprehensive Text:

Posttraumatic Stress Disorder Philip A. Saigh, J. Douglas Bremner, 1999 Through their extensive theoretical and clinical experiences they have prepared exceptionally thorough and authoritative analyses that provide significant insights Posttraumatic Stress Disorder J. Douglas Bremner, 2016-04-18 about the material reviewed BOOK JACKET POSTTRAUMATIC STRESS DISORDER Posttraumatic Stress Disorder From Neurobiology to Treatment presents a comprehensive look at this key neuropsychiatric disorder. The text examines the neurobiological basis of posttraumatic stress and how our understanding of the basic elements of the disease has informed and been translated into new and existing treatment options The book begins with a section on animal models in posttraumatic stress disorder research which have served as the basis of much of our neurobiological information Chapters then delve into applications of the clinical neuroscience of posttraumatic stress disorder The final part of the book explores treatments and the way in which our basic and clinical research is now being converted into treatment methods Taking a unique basic science to translational intervention approach Posttraumatic Stress Disorder From Neurobiology to Treatment is an invaluable resource for researchers students and clinicians dealing with this complex disorder Comprehensive coverage of this key neuropsychiatric disorder Chapters written by a global team of experts on basic and clinical aspects of posttraumatic stress disorder Takes a translational approach moving from basic research to clinical interventions Posttraumatic Stress Disorder Julian D. Ford, 2009-06-25 This authored text reference will be the first comprehensive text in the rapidly growing field of psychological trauma and posttraumatic stress disorder According to the NIMH approximately 5 2 million American adults already suffer from post traumatic stress disorder Caused by everything from combat experience to violent personal assaults to natural disasters and accidents the incidence of PTSD has already reached epidemic proportions. The profound impact of psychological trauma and the need for proactive and scientifically based approaches to timely prevention and evidence based treatment is unarguable and mental health programs are seeing a significant rise in the number of PTSD courses offered and services required As a result scholars researchers educators clinicians and trainees in the health care and human and social services need a concise and comprehensive source of authoritative information on psychological trauma and posttraumatic stress This volume will offer a foundational understanding of the field as well cover key controversies the influence of culture and gender and describe state of the art research and clinical methodologies in down to earth terms Clinical case studies will be used liberally Concise but comprehensive coverage of biological clinical and social issues surrounding PTSD Thoroughly covers evidence based treatments enabling the reader to translate current research into effective practice Exemplifies practical application through case studies **Posttraumatic Stress Disorder** Chris R. Brewin, 2007-01-01 Building on this analysis Brewin provides valuable information on who will be vulnerable to traumatic stress how to tell whether someone is likely to be suffering from PTSD why some interventions work and others are ineffective and what could and should be done

to help survivors Tacket Gender and PTSD Rachel Kimerling, Paige Ouimette, Jessica Wolfe, 2002-08-19 Current research and clinical observations suggest pronounced gender based differences in the ways people respond to traumatic events Most notably women evidence twice the rate of PTSD as men following traumatic exposure This important volume brings together leading clinical scientists to analyze the current state of knowledge on gender and PTSD Cogent findings are presented on gender based differences and influences in such areas as trauma exposure risk factors cognitive and physiological processes comorbidity and treatment response Going beyond simply cataloging gender related data the book explores how the research can guide us in developing more effective clinical services for both women and men Incorporating cognitive biological physiological and sociocultural perspectives this is an essential sourcebook and text Neuropsychology of PTSD Jennifer J. Vasterling, Chris Brewin, 2005-05-20 The emotional and behavioral symptoms associated with PTSD have been widely studied but until recently much less was known about neuropsychological aspects of the disorder This volume brings together leading experts to synthesize current knowledge on how trauma affects the brain Integrating compelling insights from neurobiology with clinical and cognitive perspectives the book presents cutting edge theoretical advances with major implications for assessment and treatment Clearly written and well documented the volume explores the emergence of neuropsychological dysfunction in specific trauma populations children adults older adults and victims of closed head injury Coverage encompasses a range of chronic problems with memory attention and information processing including biases in the ways that PTSD sufferers attend to and remember emotionally relevant information as well as how they encode and retrieve trauma related memories Throughout authors back up their arguments with salient empirical research highlighting key findings from functional neuroimaging and electrophysiology Methodological dilemmas and controversies are also addressed such as the challenges of studying a disorder with frequent psychiatric and medical comorbidities Timely and authoritative this comprehensive work provides vital knowledge for trauma specialists and other researchers and clinicians including neuropsychologists clinical psychologists and psychiatrists It will also be of interest to advanced students in these Recovering from Workplace PTSD Kevin William Grant, 2019-12-03 Second Edition updated revised and expanded areas Stress anxiety depression trauma bullying and burnout have all become accepted realities of the modern workplace This book will unpack contemporary workplace realities educate you about PTSD and help you build your personalized recovery plan for transformation and recovery This recovery program begins by validating your experiences and breaking through any denial you may be experiencing by examining all the ways you could be traumatized at work Once you understand how you ve been traumatized you ll learn about how PTSD develops and how to break through the defences that protect you from the painful experiences you re facing Armed with a deeper understanding of what PTSD is how it develops and how you react to trauma you will be able to identify the support you ll need to heal and recover **Assessing Psychological Trauma and PTSD** John Preston Wilson, Terence Martin Keane, 2004-07-12 This comprehensive authoritative volume meets a key need for

anyone providing treatment services or conducting research in the area of trauma and PTSD including psychiatrists clinical psychologists clinical social workers and students in these fields It is an invaluable text for courses in stress and trauma abuse and victimization or abnormal psychology as well as clinical psychology practica **Recovering from Workplace PTSD Audiobook Companion Guide** Kevin Grant, 2019-08-13 This volume is the companion guide for the Recovering From Workplace PTSD Audiobook available in September 2019 This guide supplements the audiobook with additional context and detail The Recovering from Workplace PTSD Audiobook paired with this Companion Guide will unpack contemporary workplace realities educate you about PTSD and help you build your personalized recovery plan for transformation and recovery The core purposes of this recovery program are to 1 Validate your current situation 2 Identify your realities 3 Understand workplace PTSD 4 Build your recovery team and developing your action plan 5 Grieve mourn and let go 6 Maintain your recovery Broken Spirits John P. Wilson, Boris Drozdek, 2004-10-01 Mental health problems among asylum seekers and refugees are becoming a public issue but awareness of this problem among the mental health community is relatively low Although advances have been made in the provision of innovative mental health services for asylum seekers and refuges with PTSD they are not systemized and not widely known to professionals in the field A publication offering practical guidelines for the treatment of torture victims and political refugees does not exist Broken Spirits aims to bring together the works of the most respected mental health professionals from the U S and abroad and make available the most current knowledge on complex PTSD forced migration and cultural sensitivity in diagnosis and treatment Psychiatric and Mental Health Nursing for Canadian Practice Wendy Austin, Mary Ann Boyd, 2010-01-01 Rev ed of Psychiatric nursing for Canadian practice Wendy Austin Mary Ann Boyd Phobic and Anxiety Disorders in Children and Adolescents Thomas H. Ollendick, John S. March, 2004-01-15 This comprehensive interdisciplinary guidebook is designed for the mental health practitioner seeking to utilize proven and effective interventions with children and adolescents suffering from significant anxiety and phobic disorders Each chapter is co authored by a clinical child psychologist and a child psychiatrist framing the volume s unique and balanced perspective In addition each chapter presents state of the art assessment and treatment strategies for a panoply of phobic and anxiety disorders including both psychosocial and pharmacological interventions Moreover the volume addresses important conceptual epidemiological and ethical issues in working with children and adolescents All in all this guide will help address the wide chasm between clinical research and clinical practice uniting the forces intrinsic to child psychiatry and clinical child psychology Clinical Assessment and Diagnosis in Social Work Practice Jacqueline Corcoran, Joseph Walsh, 2010-03-01 This revolutionary user friendly textbook not only guides social workers in developing competence in the DSM system of diagnosis it also assists them in staying attuned during client assessment to social work values and principles a focus on client strengths concern for the worth and dignity of individuals appreciation of environmental influences on behavior and commitment to evidence informed practice. The authors seasoned

practitioner scholars provide an in depth exploration of fourteen major mental disorders that social workers commonly see in practice including anxiety disorders depression bipolar disorder and schizophrenia They skillfully integrate several perspectives in order to help practitioners meet the challenges they will face in client assessment A risk and resilience framework helps social workers understand environmental influences on the emergence of mental disorders and the strengths that clients already possess Social workers will also learn to apply critical thinking to the DSM when it is inconsistent with social work values and principles Finally the authors catalog the latest evidence based assessment instruments and treatments for each disorder so that social workers can intervene efficiently and effectively using the best resources available Students and practitioners alike will appreciate the wealth of case examples evidence based assessment instruments treatment plans and new social diversity sections that make this an essential guide to the assessment and diagnostic processes in social work practice Handbook of Complex Occupational Disability Claims Izabela Z. Schultz, Robert J. Gatchel, 2006-06-14 Chronic back and neck pain Whiplash Fibromyalgia Carpal tunnel syndrome Intractable headaches Depression Anxiety and posttraumatic stress Concussion More than ever the term workplace disabilities is synonymous with greater clinical and case management complexity and escalating personal social occupational and economic cost Complex illnesses and injuries that defy a traditional medical management model continue to baffle medical mental health rehabilitation compensation corporate and legal professionals despite new advances in diagnosis prevention and rehabilitation The Handbook of Complex Occupational Disability Claims Early Risk Identification Intervention and Prevention cuts through the confusion by integrating current theories and findings into a state of the art tool for critical thinking decision making and effective practice A book that synthesizes so many diverse viewpoints has the potential to influence both policy and practice across disciplines and cut through politicization of these still poorly understood conditions with evidence The Handbook is important reading for all clinicians professionals and members of rehabilitation and disability management teams across healthcare occupational and compensation settings Mental Health Treatment for Children and Adolescents Jacqueline Corcoran, 2011 Mental health problems disrupt the lives of many young people and their families putting them at risk for instability as adults This is particularly true for children from vulnerable populations such as those in the child welfare or juvenile justice systems With the prospect of potentially dire outcomes it is essential that professionals be well equipped to understand and treat mental health disorders early and effectively Mental Health Treatment for Children and Adolescents offers a sweeping synthesis of the research on treatment of DSM defined mental disorders in youth appraising the state of the available evidence and examining how evidence based treatments address the biological psychological and social variables that contribute to the development of disorders and the potential for recovery Each chapter focuses on a different diagnosis covering ADHD oppositional defiant disorder conduct disorder substance use disorders depressive disorders eating disorders anxiety disorders and post traumatic stress disorder Each one contains a critical review of the

state of knowledge about a disorder a summary of empirically supported psychosocial and pharmacological treatments a case study and a recommended research agenda In addition each is thoroughly grounded in a risk and resilience framework and focuses on the contextual factors that influence not only the development of a disorder but the implementation and adaptation of evidence based practices in the real world Mental Health Treatment for Children and Adolescents is a valuable resource for students researchers and clinicians both for its presentation of cutting edge data and its emphasis on implications for social workers in training practice and research Psychological Assessment in Clinical Practice Michel Hersen, 2005-07-05 There have been numerous books published that have dealt with psychological assessment These books have ranged from the theoretical to the clinical However most of the pragmatics involved in the day to day activities of the psychological assessor often have been neglected in the press In light of the above the primary objective of Psychological Assessment in Clinical Practice is to provide the reader students and practitioners alike with the realities of conducting psychological assessment in clinical settings where there is not the availability of a plethora of research assistants and staff Indeed most individuals end up being solo practitioners or at best work in settings where they must conduct assessment themselves This multi authored book then details the specifics as to how this is done *Neurobiology of Psychiatric* Disorders Thomas E Schlaepfer, Charles B. Nemeroff, 2012-09-01 This new volume in the Handbook of Clinical Neurology presents a comprehensive review of the fundamental science and clinical treatment of psychiatric disorders Advances in neuroscience have allowed for dramatic advances in the understanding of psychiatric disorders and treatment Brain disorders such as depression and schizophrenia are the leading cause of disability worldwide It is estimated that over 25% of the adult population in North America are diagnosed yearly with at least one mental disorder and similar results hold for Europe Now that neurology and psychiatry agree that all mental disorders are in fact brain diseases this volume provides a foundational introduction to the science defining these disorders and details best practices for psychiatric treatment Provides a comprehensive review of the scientific foundations of psychiatric disorders and psychiatric treatment Includes detailed results from genetics molecular biology brain imaging and neuropathological immunological epidemiological metabolic therapeutic and historical aspects of the major psychiatric disorders A must have reference and resource for neuroscientists neurologists psychiatrists and clinical psychologists as well as all research scientists investigating disorders of the brain

Advances in the Treatment of Posttraumatic Stress Disorder Steven Taylor,2004-07-23 Are behavioral and cognitive behavioral therapies sufficiently broad in their effects on trauma related psychopathology and related factors This volume considers many of the complexities in treating PTSD and emphasizes evidence based approaches to treatment A useful resource for clinicians trainees as well as investigators doing research into the treatment of PTSD *Psychiatry* Allan Tasman, Jerald Kay, Jeffrey A. Lieberman, Michael B. First, Mario Maj, 2011-10-11 Extensively revised and updated this edition reflects the progress and developments in the field With 127 chapters and over 400 contributors this book is a truly

comprehensive exposition of the specialty of psychiatry Written by well known and highly regarded experts from around the world it takes a patient centered approach making it an indispensable resource for all those involved in the care of patients with psychiatric disorders For this new edition the section on the Neuroscientific Foundations of Psychiatry has been completely revised with a new author team recruited by Section Editors Jonathan Polan and Eric Kandel The final section Special Populations and Clinical Settings features important new chapters on today s most urgent topics including the homeless restraint and geriatric psychiatry Key features include Coverage of the entire field of psychiatry from psychoanalysis to pharmacology and brain imaging including family relations cultural influence and change epidemiology genetics and behavioral medicine Clinical vignettes describing current clinical practice in an attractive design Numerous figures and tables that facilitate learning and comprehension appear throughout the text Clear comparisons of the DSM IV TR and ICD 10 criteria for easy understanding in a global context Diagnostic and treatment decision trees to help both the novice and experienced reader The chapter on Cognitive Behavioral Therapies by Edward Friedman Michael Thase and Jesse Wright is freely available Please click on Read Excerpt 2 above to read this superb exposition of these important therapies

Recovering from Workplace PTSD Workbook (Second Edition) Kevin William Grant, 2021-02-01 Stress anxiety depression trauma bullying and burnout have all become accepted realities of the modern workplace. This recovery workbook will help you unpack your workplace realities educate you about PTSD and help you build your personalized transformation and recovery plan Each exercise in the workbook walks you through a process of self reflection and self discovery to help you understand and make sense of your situation Recovering from PTSD is a step by step process Whether you want to make a change in the next couple of months or the next few years this workbook is designed to help you achieve the following Open your mind to explore your PTSD recovery options creatively Identify and understand the triggered emotions that surface with your PTSD symptoms Deepen your approach to life and your lifestyle needs Define what you need in your work environment to feel healthy and happy Outline your recovery action plan and personal recovery steps Transform your passions and interests into a viable recovery plan Systematically walk you through how to research and contact local support professionals so you can achieve your recovery goals This recovery program has six core purposes Validate your current situation This recovery program begins by validating your experiences and breaking through any denial you may be experiencing by examining all the ways you could be traumatized at work Identify your realities Once you understand how you ve been traumatized you ll learn about how PTSD develops and how to break through the defenses that protect you from the painful experiences you re facing Understand workplace PTSD Armed with a deeper understanding of what PTSD is how it develops and how you react to trauma you will be able to identify the support you ll need to heal and recover Build your recovery team and develop your action plan Useful tools and techniques will help you connect with and build your team of support professionals and advocates Once you begin working with your team you ll start the recovery process by acquiring a set of

skills and techniques to help you weather the storm and begin healing Grieve mourn and let go Recovery will take you on a journey of grieving mourning and letting go which will transport you to a new sense of calm and acceptance I ll break down this journey into the stages you ll travel through to get to the other side Maintain your recovery Finally I ll share helpful ways to maintain your recovery manage setbacks with compassion and track your progress so you can proactively navigate the inevitably choppy waters as you continue your healthy and productive recovery

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Posttraumatic Stress Disorder A Comprehensive Text Introduction

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