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The path linking disease severity and cognitive function with quality of life in Parkinson's disease: the mediating effect of activities of daily living and depression

Yao He¹, Yuling Tian², Hongjuan Han³, Jing Cui², Xiaoyan Ge¹, Yao Qin¹, Yanhong Luo¹, Wentin Bai¹ and Hongmei Yu^{1,✉}

Abstract

Background: Research on quality of life (QOL) with Parkinson's disease (PD) has examined direct influencing factors, not mediators. The study aim was to explore whether PD severity and poor cognitive function may decrease physical and mental QOL by reducing activities of daily living (ADL) and increasing depression in sequence.

Methods: We conducted a cross-sectional questionnaire study of 150 PD hospital patients in China. PD severity, cognitive function, ADL, depression, and QOL were evaluated. We used structural equation modeling to analyze the mediating effects of ADL and depression on the association between PD severity/cognition and the physical health and mental health component summary scores measured by the SF36 quality of life instrument.

Results: There was a significant mediating effect of PD severity on physical health via ADL and depression (95% CI: -0.5669, -0.0266), and a significant direct effect ($p < 0.001$). The mediating effect of PD severity on mental health via ADL and depression was significant (95% CI: -2.135, -0.726), but there was no direct effect ($p = 0.548$). There was a significant mediating effect of cognitive function on physical health via ADL and depression (95% CI: 0.025, 0.219) and a significant direct effect ($p < 0.001$). The mediating effect of cognitive function on mental health via ADL and depression was significant (95% CI: 0.256, 0.645), but there was no direct effect ($p = 0.313$). The physical health models showed a partial mediation, and the mental health models showed a complete mediation, of ADL and depression.

Conclusions: PD severity and cognitive function increase depression by reducing ADL, leading to lower QOL, and directly or indirectly affect physical health and mental health through different pathways.

Keywords: Parkinson's disease, Multiple mediation model, Activities of daily living, Depression, Quality of life

Introduction

Parkinson's disease (PD) is a chronic progressive neurodegenerative disorder that affects middle-aged and older people [1]. Non-motor PD symptoms, such as cognitive impairment and depression, have attracted increasing attention and may exacerbate disability, affect quality of life (QOL), and shorten life expectancy [2]. The American economist Galbraith first proposed the concept of QOL in 1958 and it has been widely used

[✉]Correspondence: yuhongmei@zjmu.edu.cn

¹Shanxi Provincial Key Laboratory of Major Diseases Risk Assessment, Department of Health Economics, School of Public Health, Shanxi Medical University, 546 South XinJian Road, Taiyuan 030001, People's Republic of China

Full list of author information is available at the end of the article



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Parkinsons Disease And Quality Of Life

Irene Litvan

Parkinson's Disease And Quality Of Life:

Parkinson's Disease and Quality of Life Lucien Cote,Lola L. Sprinzeles,Robin Elliott,Austin H. Kutscher,2014-01-21 Learn to handle the problems that Parkinson's patients face Through Parkinson's Disease and Quality of Life you will discover common problem areas seen in patients with Parkinson's disease This book explores problems that interfere with functional independence of patients and gives examples of occupational therapy intervention and treatment techniques Parkinson's Disease and Quality of Life boldly deals with many seldom talked about real life issues facing people with Parkinson's disease including continued sexual intimacy and urinary incontinence Although these issues may not be curable this book provides you with effective treatments through data and case studies Parkinson's Disease and Quality of Life offers caregivers a step by step plan to get organized It includes a plan to put together a workbook of all relevant information as well as tips on how to safeguard every room for a Parkinson's disease patient This book helps remind you that the families of the patient must not be forgotten and that they can get the help they need through support groups community resources and from professional staffing such as nurses and aides Parkinson's Disease and Quality of Life will assist you in helping your patients by using music therapy to help calm patients realizing the legal impact of Parkinson's disease by discussing living wills health care proxies durable power of attorney and revocable and irrevocable trusts with your clients discovering that cognitive changes dementia and depression can complicate the treatment of the disease and be more disabling than the loss of motor function exploring the nursing home as a viable options for clients as well as their families Parkinson's Disease and Quality of Life also brings to light the important subject of knowing the patients insurance policies and working out contingency plans like living wills before they are needed This book gives you much needed information on accessing benefits for Parkinson's patients including medicare social security Veteran's benefits and much more Parkinson's Disease and Quality of Life is full of methods and ideas to improve the lives of the Parkinson's patient as well as their families

Deep Brain Stimulation for Parkinson's Disease Gordon H. Baltuch,Matthew B. Stern,2007-03-19 Considered the largest breakthrough in the treatment of Parkinson's disease in the past 40 years Deep Brain Stimulation DBS is a pioneering procedure of neurology and functional neurosurgery forging enormous change and growth within the field The first comprehensive text devoted to this surgical therapy Deep Brain Stimulation for Parkinson's

Parkinson's Disease Stewart Factor,William J. Weiner,2007-12-15 Parkinson's disease PD is the second most common neurodegenerative disease in the world Still the only major text on the subject the completely revised and updated second edition of Parkinson's Disease Diagnosis and Clinical Management comes at a time when specialists have made important advances in our understanding of the etiology pathogenesis investigation and management of Parkinson's disease The book includes 23 completely new chapters and has updated information on Genetics Pathology Biomarkers Pathogenesis Impulse control disorders in Parkinson's disease Updated outcome measures Complementary and alternative medicine for the treatment of Parkinson's disease Together the chapters form a

comprehensive review of the many issues facing PD physicians today Lucid and easily readable from beginning to end each chapter may also stand on its own as a scholarly review of the individual subject Each one is concisely written and heavily referenced for this purpose The second edition of Parkinson's Disease Diagnosis and Clinical Management provides a state of the art review of where we've been where we are now and where we are going in treating this disease

Non-Motor Symptoms of Parkinson's Disease

K Ray Chaudhuri, 2009-06-04 Patients with Parkinson's disease are known to suffer from motor symptoms of the disease but they also experience non-motor symptoms that have a significant impact on patient quality of life and mortality Edited by members of the UK Parkinson's Disease Non-Motor Group this book is the most comprehensive text to date in this area

Atypical Parkinsonian Disorders Irene Litvan, 2005-03-02 A comprehensive review of what is known not only about the cause and treatment of atypical parkinsonian disorders but also the issues that clinicians researchers patients and caregivers face in dealing with them The authors cover the basic science history epidemiology genetics pathology nosology computer modeling and animal models detailed clinical and laboratory assessments and available diagnostic tools including neuropsychiatric neurologic neuropsychologic speech electrophysiologic and imaging evaluations Current and future therapeutic approaches are also detailed along with extensive discussions about future research directions

Health Related Quality of Life in Parkinson's Disease

Kantha Niranjan, Age Concern Institute of Gerontology, 1995

Parkinson Disease Wayne Martin, Oksana Suchowersky, Katharina Kovacs Burns, Egon Jonsson, 2010-02-16 Part of the successful Institute of Health Economics IHE book series this handbook and ready reference adopts a unique approach in combining policy recommendations with specific treatment options for Parkinson patients The first part of the book deals with the clinical medical social and economical aspects of Parkinson Disease These ten chapters include the latest diagnosis and treatment options for patients the economical consequences social and ethical implications and end of life issues The second part of the book essentially covers a large scale case study on Parkinson in Alberta Canada since most of the issues discussed are relevant in all developed countries With its strong focus on correct diagnosis and early intervention this is an invaluable guide for clinicians and policymakers dealing with this devastating disease

Navigating Life with Parkinson's Disease

Sotirios Parashos, Rosemary Wichman, 2012-12-06 Navigating Life with Parkinson's Disease is a guide for anyone affected by Parkinson's patients family members friends and caregivers Containing the most up to date information on the disease one of the most common nervous system diseases it also discusses the available treatments and provides practical advice on how to manage the disease in the long term Emphasizing life style adjustments that will provide a better quality of life and moderate the burden for patients and their loved ones Navigating Life with Parkinson's Disease empowers patients and their families with the necessary information to take charge of their health care

Assessing Health-related Quality of Life for Patients with Parkinson's Disease and Atypical Parkinsonian Disorders

Kindra Kaye Noe, 2009 Advances in the treatment of Parkinson's disease PD and atypical Parkinsonian disorders APD have made it

easier for physicians to treat the physical aspects of these diseases. However, it is becoming increasingly evident that more than just the physical symptoms need to be treated in order to improve overall quality of life (QoL) among PD and APD patients. This study assesses the key factors that influence health related QoL for both PD and APD patients and compares across the two disease groups as well as among the APD group. Three hundred and fifty three patients were used in this study and diagnosed with having PD 187, PSP 50, MSA 65, DLB 34, or CBD 17. Each patient completed the short form 12 SF 12, Beck's Depression Inventory, BDI, Unified Parkinson's Disease Rating Scale, UPDRS, Mini Mental State Examination, MMSE, Schwab and England SE, and the Hoehn and Yahr rating scale HY, which measured for QoL, depression, mood, behavior, motor functioning, activities of daily living, cognitive function, and disease severity. We also looked at age and gender identification. After analyzing the results, APD patients were found to have overall lower health related QoL than PD patients in earlier age groups when comparing SF 12 PCS scores. MCS scores between PD and APD were not significantly different. In addition, no significant differences were found between SF 12 scores when comparing PSP, MSA, CBD, and DLB. Depression was found to be the main determinant of health related QoL among all disease groups and was a stronger predictor of QoL for PD than APD. Mood, behavior, and mentation were predictors of QoL for PD and DLB. Motor functioning, age, and gender were significant determinants of QoL only for PD while disease severity was a determining factor for MSA and CBD patients. In addition, activities of daily living was a predictor of QoL for PD, DLB, and PSP. This study shows that various factors affect health related QoL differently among different disease groups and should be taken into consideration by physicians in order to provide the best medical care possible.

Quality of Life and Caregiver Burden in Parkinson's Disease

Sarah Elizabeth Simms, Noelle Robertson, 2012. Parkinson's disease is common in older adult populations with an increasing prevalence with age. Many psychosocial factors have been shown to be associated with quality of life; however, there has been limited research investigating the role of illness appraisals despite this existing for other chronic health conditions. The literature review examined experiences of caring for a spouse with Parkinson's disease. A critical thematic synthesis of qualitative research was conducted with rigorous quality appraisal. Negative consequences to caring were evident with social restrictions and loss of previous identities and a shared future identified. However, a sense of resilience emanated throughout the studies. Ambivalence was an emergent theme with spouses reporting a need for increased professional support but stated difficulties discussing issues particularly those regarding end of life. Increased community support and resource is required with a dyadic focus including both spouse and patient. The empirical study focussed on quality of life and caregiver burden in Parkinson's disease and the role of patients and carers' illness appraisals. A cross sectional self report design was utilised. Illness appraisals were demonstrated to be key predictors of quality of life and burden after controlling for biomedical variables and the importance of consideration of both patient and carer appraisals for these outcome measures was highlighted. Clinical implications of the findings are discussed with suggestions for future research. The critical appraisal

discussed reflections on the research process addressing key areas including origins of the project and development of research ideas ethical submission data collection and analyses whilst making reference to specific learning points **The Neuroscience of Parkinson's Disease** Colin R Martin, Victor R Preedy, 2020-12-21 The Neuroscience of Parkinson's Disease two volume set provides a single source of material covering different scientific domains of neuropathology underlying this condition The book covers a wide range of subjects and unravels the complex relationships between genetics molecular biology pharmaceutical chemistry neurobiology imaging assessments and treatment regimens The book also fills a much needed gap as a one stop synopsis of everything to do with the neurology and neuroscience related to Parkinson's disease from chemicals and cells to individuals It is an invaluable resource for neuroscientists neurologists and anyone in the field Offers the most comprehensive coverage of a broad range of topics related to Parkinson's disease Serves as a foundational collection for neuroscientists and neurologists on the biology of disease and brain dysfunction Contains in each chapter an abstract key facts mini dictionary of terms and summary points to aid in understanding Features preclinical and clinical studies to help researchers map out key areas for research and further clinical recommendations Serves as a one stop source for everything you need to know about Parkinson's disease Compendium of Quality of Life Instruments, 1998

Handbook of Non-Motor Symptoms in Parkinson's Disease K Ray Chaudhuri, Pablo Martinez-Martin, Per Odin, Angelo Antonini, 2012-12-27 Handbook of Non Motor Symptoms in Parkinson's Disease is designed to provide practical tips and emphasize key priorities for treatment of non motor aspects of the disorder The quick reference handbook format with key points highlighted by the use of figures and tables will provide the reader with high value practical information

Assessing Health Related Quality of Life and Distress in People with Parkinson's Disease Bronagh Reynolds, 2021

Diagnosis and Management in Parkinson's Disease Colin R Martin, Victor R Preedy, 2020-08-13 Diagnosis and Management in Parkinson's Disease The Neuroscience of Parkinson's Disease Volume 1 provides a single source of material covering different scientific domains of neuropathology underlying this condition The book covers a wide range of subjects and unravels the complex relationships between genetics molecular biology pharmaceutical chemistry neurobiology imaging assessments and treatment regimens It fills a much needed gap as a one stop synopsis of everything concerning the neurology and neuroscience related to Parkinson's disease from chemicals and cells to individuals The book is an invaluable resource for neuroscientists neurologists and anyone in the field Offers the most comprehensive coverage of a broad range of topics related to Parkinson's disease Serves as a foundational collection for neuroscientists and neurologists on the biology of disease and brain dysfunction Contains in each chapter an abstract key facts mini dictionary of terms and summary points to aid in understanding Features preclinical and clinical studies to help researchers map out key areas for research and further clinical recommendations Serves as a one stop source for everything you need to know about Parkinson's disease

Health-related Quality of Life in Individuals with Parkinson's Disease Clare Friedlander, 2018 Motor impairment cognitive

decline and speech disruption are prevalent consequences of Parkinson's disease PD and have been shown to impact quality of life. However, the relative influence of each of these domains on quality of life is unknown. This study is designed to assess the determinants of health related quality of life HRQoL in individuals with PD. Metrics examined participant's cognitive, motor and speech impairment as well as their perception of how the deficits impacted their HRQoL. Results revealed meaningful significant predictive relationships when considering severity of motor symptoms and communication participation. Overall, these results indicate a combination of speech and motor deficits may be the best predictor of overall quality of life.

Living with Parkinson's Disease David Belgum, 2008. *Living with Parkinson's Disease* explores the disease from a professional point of view and includes short pieces written primarily by Parkinson's patients about what it is like to experience the disease. Some of these short pieces are poems and short essays but all are poignant and of extraordinary use to doctors, patients, researchers and coping family members. This work also includes more general articles Trust, Distrust and The Meaning of Suffering which relate to a wider perspective than the description of Parkinson's. The two introductory articles are written by doctors and cover the basic description of Parkinson's Disease. This book is a practical reference for all who come in contact with this debilitating and tragic condition.

Book jacket *Social Behavior, Gender, and Quality of Life in Parkinson's Disease* Pai-Chuan Huang, 2009. Abstract: Recent studies have found that women and men have different experiences living with Parkinson's disease PD and create different impressions when they have reduced facial expressivity. Previous research also suggests that reduced facial expressiveness called facial masking is a common symptom in people with PD. Because social relations typically are facilitated through facial expressiveness, masking may create negative interpersonal impressions. This study examined the following questions: 1. Are there gender differences in quality of life in people with PD? 2. Are there associations between facial expressiveness and capacity to show rapport in people with PD? 3. Are there associations between social behavior, facial expressiveness and rapport and social well-being? 4. Is there a moderating role of gender? Videotaped interview and data of 104 participants (31 women) were analyzed. Our findings showed that women reported more problems in stigmatization and men reported more problems in activities of daily life. Both women and men who showed less facial expressiveness were less likely to show rapport during the interview. Women's higher levels of facial expressivity and rapport behavior would occur with fewer problems in social support and communication. These associations remained significant after controlling for covariates including age, living status, marital status, PD duration, PD stage, cognitive status, depression symptoms and extraversion. The magnitudes of zero order correlations were generally greater in women compared to men. However, the gender differences that existed in zero order correlations were not supported when controlling for the covariates. The findings demonstrate the need to broaden our knowledge on how certain symptoms may relate to people's social roles. The possible moderation of gender should be explored in future studies. Health care providers should be aware of the potential relationship between facial expressiveness and rapport and the implications for family.

community and therapeutic relationships

Parkinson's Disease Geoffrey Leader, Lucille Leader, 2006 This groundbreaking book offers a powerful blending of nutritional and pharmaceutical benefits. In user friendly style it aims to reduce distressing symptoms improve general functional health and promote well being in people with Parkinson's disease. It clearly explains the effects of nutrition and medication on brain and general metabolism thereby empowering the reader to plan a more predictable and personalised management approach. The authors are recognized internationally as pioneers in the field of nutritional management of Parkinson's Disease and have received a Quality of Life in Parkinson's Award in the United States. This innovative book is aimed at all people affected by the disease being suitable for Healthcare Professionals Parkinson's Sufferers and Caregivers alike. It is also an easy to follow guide on this complex subject for students of medicine nutrition and dietetics. This timely volume provides an easily accessible and scientifically referenced source of information on the diverse aspects of drugs and nutrition. Professor Leslie Findley Medical Advisor to The European Parkinson's Disease Association To me nutrition is now the most important method of managing my health. It forms the platform for drug therapy and other contributory factors to my well being. To anyone with or touched by Parkinson's I commend this book to you. It is an indispensable tool to help you to help yourself. Read on and reap the benefits. Tom Isaacs Co Founder The Cure Parkinson's Trust UK. In timing the L-dopa as the book says I feel much better. V R PD Person Southampton UK. Above all you have given us hope help and a means to manage this disease. R McNally County Dublin Ireland. The many topics presented in this book include Interaction between L-dopa and food best combinations for effectiveness reducing dyskinesia. Smoothing out the on off period. Individualising drug dosage and intervals between administrations with special monitoring charts. Specific nutritional recommendations to improve bowel function weight control and energy. Biochemical tests to establish deficiencies excesses at the cellular level. Nutritional supplements and diet for cellular deficiencies or excesses demonstrated. Cooking methods diet antioxidants and environmental awareness to reduce harmful free radicals. Simple delicious recipes suitable for L-dopa users with family and friends. Solutions for problems of chewing swallowing and malabsorption. Sexuality and Sleep practical and nutritional considerations. Stress management and the dopamine connection practical and nutritional considerations. Optimum recovery from surgery peri operative nutrition. After antibiotics restoring intestinal immunity with probiotics

Parkinson's Disease in Focus Charles Tugwell, 2008 Discusses the signs symptoms diagnosis of the disease and the management monitoring treatment and care of patients. This text enables readers to improve the quality of care provided to patients suffering with Parkinson's Disease by increasing their knowledge and understanding of the clinical management of this condition.

Parkinsons Disease And Quality Of Life: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels entralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. Parkinsons Disease And Quality Of Life : Colleen Hoovers "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. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing 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 popular 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 captivating 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 brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Parkinsons Disease And Quality Of Life Introduction

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