

# Diabetes-Related Emotional Distress in Dutch and U.S. Diabetic Patients

## Cross-cultural validity of the Problem Areas in Diabetes Scale

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**OBJECTIVE** — To examine the cross-cultural validity of the Problem Areas in Diabetes Scale (PAID) in Dutch and U.S. diabetic patients.

**RESEARCH DESIGN AND METHODS** — A total of 1,472 Dutch people with diabetes completed the PAID along with other self-report measures of affect. Statistics covered Cronbach's  $\alpha$ , exploratory factor analysis (EFA), and confirmatory factor analysis (CFA), Pearson's product-moment correlation, and *t* tests. Psychometric properties of PAID were compared for Dutch and U.S. diabetic patients.

**RESULTS** — Internal consistency of the Dutch PAID was high and stable across sex and type of diabetes. Test-retest reliability was high. Principal component analyses confirmed 1 general 20-item factor, whereas EFA identified 4 new subdimensions: negative emotions, treatment problems, food-related problems, and lack of social support. These dimensions were confirmed with CFA and were replicated in the U.S. sample. The PAID and its subscales demonstrated moderate to high associations in the expected direction with other measures of affect. Dutch and U.S. subjects reported having the same problem areas, with U.S. patients reporting higher emotional distress levels both in type 1 and type 2 diabetes.

**CONCLUSIONS** — The Dutch and U.S. 20-item PAID appeared to be psychometrically equivalent, which allowed for cross-cultural comparisons.

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Diabetes is a demanding disease with a major effect on the quality of life of patients and their families (1,2). Research has suggested that psychological distress frequently occurs in people with diabetes and is often related to difficulties in coping with the daily regimen and worries about developing late complications (3,4). Psychological distress is not only burdensome itself, but also it can impede the self-care behaviors of the patients, thereby

compromising glycemic control (5–7). To quantify levels of emotional distress in people with diabetes, various measures have been developed in the U.K., Germany, Canada, and U.S. (8–11). As Glasgow et al. (12) recently showed, research must establish the relative strengths and weaknesses of the various diabetes-specific instruments, particularly their sensitivity to detect changes and intervention effects (12). We further emphasize the importance of cross-

cultural validation of such questionnaires. Psychosocial research in diabetes could benefit significantly from standardization of instruments to allow for international comparison of results (13).

The Problem Areas in Diabetes Scale (PAID) is a brief self-report measure of diabetes-related distress that has been found to be valid and clinically useful in U.S. type 1 and type 2 diabetic patients (14–16). PAID scores have been found to show positive associations with HbA<sub>1c</sub> and are a major predictor of poor adherence to treatment not involving general emotional distress. The PAID seems to be a good candidate for the measurement of diabetes-related distress across countries, but its cross-cultural validity has yet to be established. Ishii et al. (17) found evidence to support the clinical utility of a Japanese version of the PAID in a sample of predominantly type 2 diabetic patients. In this article, we report on the validation of the Dutch version of the PAID by comparing PAID scores across samples of Dutch and U.S. diabetic patients.

## RESEARCH DESIGN AND METHODS

### Subjects

As part of a large survey (18), 3,000 randomly selected patients of the 40,000 members of the Dutch Diabetes Association were mailed a booklet of self-report questionnaires, including the PAID. To determine test-retest reliability, a random sample of 250 patients from the total group was invited for a second assessment ~2 months later. PAID data from a U.S. sample of 256 type 1 and type 2 diabetic patients at the Joslin Diabetes Center (Boston, MA) (15) were reanalyzed and compared with the Dutch sample.

### Measures

Self-reported demographic and clinical characteristics of the subjects included age, sex, marital status, monthly income, years of education, age at onset of diabetes, treatment regimen, number of complications, most recent HbA<sub>1c</sub> level, comorbidity, fre-

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**Abbreviations:** CFA, confirmatory factor analysis; CFI\*, robust comparative fit index; DKA, diabetic ketoacidosis; EFA, exploratory factor analysis; ENE, Energy subscale; HPS, Hypoglycemia Fear Survey; NWBL, Negative Well-Being subscale; PAID, Problem Areas in Diabetes Scale; PWBL, Positive Well-Being subscale; SMBG, self-monitoring of blood glucose; STAI, State Trait Anxiety Inventory; WRQ-12, 12-item Well-Being Questionnaire.

A table elsewhere in this issue shows conventional and Système International (SI) units and conversion factors for many substances.

# Diabetes Related Emotional Distress In Dutch And U S

**Anthony S. Fauci**



## **Diabetes Related Emotional Distress In Dutch And U S:**

**Screening for Depression and Other Psychological Problems in Diabetes** Cathy E. Lloyd, Frans Pouwer, Norbert Hermanns, 2012-08-12 This book is divided into two main sections and covers a broad range of issues important for health practitioners to be aware of when caring for people with co morbid diabetes and depression Section One of the book contains the overall ideas and the more recent developments in measuring psychological morbidity in people with diabetes When attempting to identify people with depression or other psychological problems it is important for practitioners to recognize the limitations of screening as well as its utility Issues such as the basic principles regarding when and when not to screen the cultural applicability of tools different questionnaire formats and key concepts such as sensitivity and specificity of tools and their positive and negative predictive value will be considered In particular there has been increased interest in the concept of diabetes related distress and several tools have been developed to measure this There are broad based measures of distress such as the Problem Areas in Diabetes PAID scale the Diabetes Adjustment Scale DAS The Diabetes Health Profile The Fear of Hypoglycemia Scale etc There are also a range of generic quality of life tools which have been used effectively in people with diabetes for example the Medical Outcomes Survey Short Forms SF36 SF12 the World Health Organisation Well being questionnaire WHO 5 and the EQ5 D These tools are important because they measure aspects of psychological well being that are specifically associated with the experience of having a long term conditions and so have important implications for both self care and health care practice The potential overlap of symptoms of depression and symptoms of diabetes related distress are considered in this section and the implications for practice discussed Section Two covers the most commonly used tools that have been used to screen for depression For each tool considered some information which is easily referred to by the reader is set out in a table which includes details of the authors time of first use country where it was first developed some examples of the questions used the languages it is available in data on sensitivity specificity Each instrument will then be discussed in terms of its use in research as well as practice and its applicability in different patient groups different cultural settings and so on Guidance on the practical use of each tool is included and the most popular depression screening tools are focussed on

### **Depression - What Is New and What Is Old in Human Existence**

Federico Durbano, Floriana Irtelli, Barbara Marchesi, 2024-03-20 This book addresses some issues related to depression In particular the edited chapters examine aspects related to culture and trauma as pathoplastic elements innovative treatment aspects such as acupuncture or animal assisted treatment correlations between depression and some somatic aspects The volume is useful in renewing interest in a pathology that represents one of the most widespread mental illnesses that is also one of the least treated according to scientific evidence

### **Mental Health, Diabetes and Endocrinology**

Anne M. Doherty, Aoife M. Egan, Sean Dinneen, 2021-10-28 Mental Health Diabetes and Endocrinology examines key areas of clinical overlap between endocrinology and mental health Written for clinicians it draws together developments from literature and

clinical practice with a focus on clinical conundrums and treatment challenges which arise across endocrinology psychiatry psychology and primary care

**Depression and Type 2 Diabetes** Khalida Ismail, Andreas Barthel, Stefan R. Bornstein, Julio Licinio, 2018-08-22 Type 2 diabetes is a major global health concern and is predicted to affect between 10% to 25% of the world's population in the next 20 years. This epidemic is mostly attributed to ageing populations and unhealthy lifestyles. Thusly understanding how the mind interacts with the body is essential in unlocking the psychological, biological, and sociocultural processes that increase the risk of type 2 diabetes and make it such a difficult condition to treat. Depression is a common co-morbid condition, and when both conditions are present, this poses a significant challenge to patients, clinicians, and health care systems globally. *Depression and Type 2 Diabetes* is a unique resource offering a fresh scientific approach to this frequent co-morbidity. Using the latest research and guidelines, this resource provides readers with a comprehensive overview of the subject at the different stages of human lifespan, from the uterine environment where the metabolic thermostat is first set, to growing old with diabetes. Written and edited by international experts in diabetes and depression, *Depression and Type 2 Diabetes* reviews, critiques, and advances the latest research on the prevalent and complex relationship between depression and type 2 diabetes.

*Behavioral Diabetes* Alan M. Delamater, David G. Marrero, 2020-01-16 This book presents an up-to-date review of behavioral factors in diabetes management across the lifespan, an update on medical management, epidemiology, and prognosis, and utilizes an ecological framework to address various aspects of diabetes management for children and adults on the individual, social, community, and medical system, and policy levels. The individual level examines biobehavioral and neuroendocrine factors for their role in the etiology of diabetes, as well as various demographic factors involved in health disparities and specific psychological issues including distress and quality of life, depression, and anxiety, eating disorders, and intervention approaches. Zooming out, the social level addresses the role of social support and family influences, as well as group and family interventions to promote more effective diabetes management. The community level addresses medical system factors including the patient-physician relationship and transition programs, as well as community and school-based prevention programs. Finally, chapters also address how the policy level impacts diabetes management, considering the role of health care insurance and school and workplace policy. Topics featured in this book include neuroendocrine and biobehavioral influences on diabetes, eating disorders in individuals with diabetes, family influences and family therapies for children and adults with diabetes, depression and anxiety in children and adults with diabetes. *Behavioral Diabetes* is a must-have resource for researchers, graduate students, and fellows, as well as clinicians, therapists, and other practitioners involved in diabetes management across the lifespan. A secondary audience comprises individuals working in the community and policy levels, including but not limited to health care and medical systems administrators, as well as school and workplace policymakers. This book is a comprehensive overview of the extremely important topic of behavioral diabetes. The issues encompassed in this book have evolved greatly over the last few

decades and the editors have done a spectacular job in having the key experts on each of the many topics review the literature while at the same time keeping it practical for both clinicians and researchers Irl B Hirsch MD University of Washington Seattle

**Psychology in Diabetes Care** Frank J. Snoek, T. Chas Skinner, 2007-06-29 Psychosocial issues have long been acknowledged to have a crucial role in the successful treatment of people with diabetes An understanding of these issues can enable health care professionals to assist their patients effectively The second edition of the acclaimed title *Psychology in Diabetes Care* gives background information and practical guidelines needed by healthcare professionals to address the cognitive emotional and behavioural issues surrounding diabetes management The book bridges the gap between psychological research on self care and management of diabetes and the delivery of care and services provided by the diabetes care team Written jointly by psychologists active in diabetes research and practising clinicians *Psychology in Diabetes Care Second Edition* provides a practical evidence based approach to intervention in diabetes care

**Coping with Chronic Illness and Disability** Erin Martz, Hanoeh Livneh, 2007-09-23 This book synthesizes the expanding literature on coping styles and strategies by analyzing how individuals with CID face challenges find and use their strengths and alter their environment to fit their life changing realities The book includes up to date information on coping with high profile conditions such as cancer heart disease diabetes arthritis spinal cord injuries and traumatic brain injury in depth coverage of HIV AIDS chronic pain and severe mental illness and more

**Type 2 Diabetes** Barry J. Goldstein, Dirk Mueller-Wieland, 2016-04-19 The incidence and prevalence of type 2 diabetes mellitus have increased dramatically in modernized and developing nations over the past few decades Thoroughly revised and expanded this Second Edition responds to the epidemic and supplies a current overview and guide to the management of diabetes in the modern healthcare environment This Second Edition

**Type 2 Diabetes** Kazuko Masuo, 2013-06-26 Type 2 diabetes is now a global serious health problem Patients with type 2 diabetes have 2 4 times higher risk of cardiovascular and renal complications morbidity and mortality This book *Type 2 Diabetes* is a unique book covering the topics including pathophysiology complications and prevention and treatments Understanding the etiology of the onset and development of type 2 diabetes is important to prevent type 2 diabetes complications and delay the progress The Pathophysiology section covers a wide range of mechanisms and characteristics from the micro molecular to the macro neurohormonal mechanisms and the beta cell function in the pancreas The Complications section includes renal complications sympathetic nervous system imbalance atherosclerosis and foot ulcers which are frequently observed in diabetic patients Finally the Prevention and Treatments section consists of non pharmacological treatments bariatric surgery pharmacological therapy and insulin therapy The editor hopes that this book is helpful for your clinical practice and research and this book facilitates the reduction of global burden of type 2 diabetes

**Occupational Health Psychology: From Burnout to Well-being at Work** Sónia P. Gonçalves, Joana Vieira Dos Santos, Hugo Figueiredo-Ferraz, Pedro R. Gil-Monte, Mary Sandra Carlotto, 2022-06-28

**Type 1 Diabetes**

Chih-Pin Liu,2011-11-21 This book is intended as an overview of recent progress in type 1 diabetes research worldwide with a focus on different research areas relevant to this disease These include diabetes mellitus and complications psychological aspects of diabetes perspectives of diabetes pathogenesis identification and monitoring of diabetes mellitus and alternative treatments for diabetes In preparing this book leading investigators from several countries in these five different categories were invited to contribute a chapter to this book We have striven for a coherent presentation of concepts based on experiments and observation from the authors own research and from existing published reports Therefore the materials presented in this book are expected to be up to date in each research area While there is no doubt that this book may have omitted some important findings in diabetes field we hope the information included in this book will be useful for both basic science and clinical investigators We also hope that diabetes patients and their family will benefit from reading the chapters in this book

**Psychosocial Repercussions of the Covid-19 Pandemic for People Living with or Supporting Others with Diabetes** Emma Berry,Andreia S. Mocan,Rossella Messina,Lene Eide Joensen,Mark Davies,2022-12-19

Hypoglycaemia in Clinical Diabetes Brian M. Frier,Simon Heller,Rory McCrimmon,2014-01-28 Hypoglycaemia in Clinical Diabetes Hypoglycaemia in Clinical Diabetes Third Edition If you regularly see patients with diabetes who experience hypoglycaemia and need expert guidance then this is the book for you Hypoglycaemia in Clinical Diabetes Third Edition once again provides health professionals involved in the management of people with diabetes with an expertly written comprehensive guide to hypoglycaemia the most common and feared side effect of insulin treatment for diabetes With reference to ADA and EASD guidelines throughout topics covered include the physiology of hypoglycaemia and the body s response to low blood glucose its presentation and clinical features potential morbidity and optimal clinical management in order to achieve and maintain good glycaemic control Particular attention is paid to the way hypoglycaemia is managed in different groups of patients such as the elderly in children or during pregnancy New chapters in this edition include Psychological effects of hypoglycaemia Technology for hypoglycaemia CSII and CGM Exercise management and hypoglycaemia in type 1 diabetes Neurological sequelae of hypoglycaemia Valuable for diabetologists endocrinologists non specialist physicians and general practitioners Hypoglycaemia in Clinical Diabetes Third Edition provides expert clinical guidance to this extremely common and potentially serious complication associated with diabetic management Titles of related interest Diabetes Chronic Complications 3rd edition Shaw ISBN 9780470656181 Diabetes Emergencies Diagnosis and Clinical Management Katsilambros ISBN 9780470655917

**Managing Preexisting Diabetes and Pregnancy** John L. Kitzmiller,Lois Jovanovic,Florence Brown,Donald Coustan,Diane M. Reader,2008-06-16 Managing Preexisting Diabetes and Pregnancy is the American Diabetes Association s comprehensive guideline for this complex subject It is an in depth exploration of problems linked to pregnancy in diabetic women as well as the heightened importance of blood glucose management during pregnancy With contributions from some of the top professionals in the fields of diabetes and obstetric

research this guide is comprised of four sections that focus on managing diabetes before during and after pregnancy as well as any potential complications Loaded with the latest information regarding diabetes and pregnancy Managing Preexisting Diabetes and Pregnancy serves as the essential guideline for the interested researcher physician or clinician

*Measurement Tools in Patient Education* ,2003      **Psychology in Diabetes Care and Practice** Val Wilson,2022-02-27

This is an indispensable guide to diabetes care and practice providing a thorough overview of the main issues that health professionals should keep in mind when treating someone with the condition and how psychology plays a key role in diabetes self management Based on the latest research evidence along with numerous patient perspectives the book looks at a wide range of topics in diabetes health psychology from mental health conditions to theories of behaviour change with a focus on comorbidities Chapters describe the emotional impact of a diabetes diagnosis the psychosocial issues surrounding living with diabetes theories of behaviour applied to diabetes self management the impact of diabetes and depression diabetes and eating disorders the psychological impact of diabetes complications and potential stigma associated with having Type 2 diabetes including the psychological impact of weight loss surgery Psychology in Diabetes Care and Practice enables the provision of support to reduce psychological distress and improve diabetes self management It helps patients to learn more about how best to manage their condition as well as health professionals wanting to find appropriate ways to facilitate self management

**Patient-Reported Outcomes in Endocrine Diseases, An Issue of Endocrinology and Metabolism Clinics of North America, E-Book** Eliza B. Geer,2022-10-20 In this issue of Endocrinology and Metabolism Clinics guest editor Eliza B Geer brings her considerable expertise to the topic of Patient Reported Outcomes in Endocrine Diseases Provides in depth reviews on the latest updates in Patient Reported Outcomes in Endocrine Diseases 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      *Index Medicus* ,2001      **Indian Journal of Medical Research** ,2007      **Psychodiabetologie** Frank Petrak,Stephan Herpertz,2013-09-18 Die Diagnose Diabetes mellitus hat weitreichende Konsequenzen f r das Leben der Betroffenen Pl tzlich ver ndert sich der bisherige Alltag ganz erheblich nicht nur Essverhalten und Blutzuckerkontrollen bestimmen nun das Leben sondern auch viele psychosoziale Aspekte erhalten eine ganz andere Gewichtung Was bedeutet die Diagnose zum Beispiel f r Kinder und ihren weiteren Lebensweg Was wenn es irgendwann zum Diabetes Burnout kommt oder wenn eine Depression entsteht Wie gehen die Patienten mit dem lterwerden und der Bedrohung durch Sp tsch den um In diesem Buch besch ftigen sich die Autoren umfassend mit dieser Problematik Neben den medizinischen Grundlagen liegt der Schwerpunkt auf den psychischen und psychosozialen Aspekten der Erkrankung Erg nzend werden umfassende Online Materialien zur Verf gung gestellt die f r rzte Diabetesberater und Psychotherapeuten eine praxisnahe Unterst tzung der Behandlung darstellen

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