



## Do we recognize facial expressions of emotions from persons with schizophrenia?

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### ABSTRACT

**Objectives:** Impaired facial emotion expression is central to schizophrenia. Extensive work has quantified these differences, but it remains unclear how patient expressions are perceived by their healthy peers and other non-trained individuals. This study examined how static facial expressions of posed and evoked emotions of patients and controls are recognized by naïve observers.

**Methods:** Facial photographs of 6 persons with stable schizophrenia and 6 matched healthy controls expressing five universal emotions (happy, sad, anger, fear, and disgust) and neutral were selected from a previous data set. Untrained raters ( $N=420$ ) viewed each photo and identified the expressed emotion. Repeated measures ANOVAs were used to assess differences in accuracy and error patterns between patient and control expressions.

**Results:** Expressions from healthy individuals were more accurately identified than those from schizophrenia patients across all conditions, except for posed sadness and evoked neutral faces, in which groups did not differ, and posed fear, in which patient expressions were more accurately identified than control expressions. Analysis of incorrect responses revealed misidentifications at neutral were most common across both groups but significantly more likely among patients.

**Conclusions:** Present findings demonstrate that patient expressions of emotion are poorly perceived by naïve observers and support the concept of affective flattening in schizophrenia. These results highlight the real world implications of impairments in emotion expression and may shed light on potential mechanisms of impaired social functioning in schizophrenia.

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### 1. Introduction

Impaired facial expressions of emotion represent an area of behavioral dysfunction that is central to the illness of schizophrenia and indicates both current functioning and future outcome (Gur et al., 2006). Much of our knowledge on affective flattening in schizophrenia has been based on clinical rating scales of global affect during psychiatric interviews, but

the reliability of ratings of affective flattening and other negative symptoms can be problematic (Andreasen, 1997). Over the past 20 years, efforts beyond global ratings of facial expressions by a single trained or experienced rater have attempted to apply standardized procedures to examine specific face regions based on facial muscles, and quantify the degree and time course of emotional expressions. Several groups have utilized paradigms based on the Facial Action Coding System (Ekman and Friesen, 1978) to demonstrate generalized and emotion specific deficits in posed and evoked facial expressions. Findings suggested that patients do not engage the same facial muscles as controls (Aggaveili et al., 2003; Berenbaum and Oltmanns, 1992; Blanchard et al., 1994; Gaebel and Wohwer, 2004; Kohler et al., 2008b; Kring et al., 1993;

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# Persons With Schizophrenia Expression Emotion Report

**T. Steckler, N. H. Kalin, J. M. H. M. Reul**



## **Persons With Schizophrenia Expression Emotion Report:**

**Schizophrenia Bulletin** ,2013      **Understanding Emotions** Dacher Keltner,Keith Oatley,Jennifer M.

Jenkins,2018-11-29 Emotions are an inescapable part of the human experience They motivate actions and reactions guide our interpersonal and business relationships inspire political and societal trends and influence our sense of self and well being Emphasizing the broad practical reach of this field of study Understanding Emotions draws from neuroscience psychiatry biology genetics the humanities economics and more to provide a strong foundation in core concepts An easy to follow narrative arc encompasses the entire life span while representative studies provide immediate insight into the real world implications of important findings This new Fourth Edition continues to provide clear and concise guidance toward the factors that drive emotion with new revised and expanded discussions that reflect the current state of the field Detailed coverage of social and anti social motivations moral judgment empathy psychological disorders the physiological components of emotion and many more equip students with the conceptual tools to probe deeper into the material and apply methods and techniques to their own personal lives      Translating Behavioral Science Into Action United States. National Advisory

Mental Health Council. Behavioral Science Workgroup,2000      **Understanding Schizophrenia** Richard Keefe,Philip D.

Harvey,2010-06-15 Two leading schizophrenia researchers present an accessible and comprehensive guide to dealing with the disease They provide key information on the integration of drugs and psychological treatments and discuss how family members can be a helpful part of the treatment process      **Community Series In Mental-Health-Related Stigma and**

**Discrimination: Prevention, Role, and Management Strategies, volume II** Renato de Filippis,Mohammadreza Shalbafan,Samer El Hayek,2024-03-06 This Research Topic is the second volume of the Community Series In Mental Health Related Stigma and Discrimination Prevention Role and Management Strategies Please see the first volume here Despite the tremendous progress and successes achieved in diagnostics therapy and rehabilitation in psychiatry over the past few decades the stigma towards mental health patients their relatives and caregivers and healthcare professionals is still present Social stigma in particular represents a major obstacle to maintaining adequate mental health care This increases reluctance to seek help delays patients diagnosis and limits their compliance and adherence to treatment In the long term this reduces psychiatric rehabilitation effectiveness and causes a burden to healthcare providers and society alike The main goal of this Research Topic is to evaluate the impact and role of stigma in all its forms on individuals with psychiatric disorders their caregivers and mental health providers      *Working with People at High Risk of Developing Psychosis* Jean Addington,Shona

Francey,Anthony P. Morrison,2006-06-14 A timely overview of new psychological interventions in this exciting and emerging field Working with People at High Risk of Developing Psychosis A Treatment Handbook presents the most up to date progress in the identification of individuals who are at ultra high risk of developing a psychotic illness The book focuses on a range of psychological interventions that are currently being developed tested and used in order to alleviate these early

symptoms and attempt to delay or even prevent the onset of a psychotic illness Even for those who will not go on to develop an illness such interventions are helpful in the alleviation of their presenting symptoms This practical treatment handbook addresses a wide range of issues presented by at risk clients Specific chapters written by experts in that particular area cover stress management co morbidity substance misuse family work and group therapy **Schizophrenia Bulletin** ,1997

The Science and Treatment of Psychological Disorders, with eBook Access Code Ann M. Kring, Sheri L.

Johnson, 2024-10-01 The Science and Treatment of Psychological Disorders blends theory and research with practice and clinical application to provide learners with a solid foundation in psychological disorders and develop their understanding with up to date and relevant research examples and contexts From its first edition the focus of this book has always been on balancing contemporary research and clinical application while involving the learner in the problem solving engaged in by clinicians and scientists It continues to emphasize an integrative approach showing how psychopathology is best understood by considering multiple perspectives genetic neuroscientific cognitive behavioral and sociocultural and how these varying perspectives produce the clearest accounting of the causes of these disorders as well as provide insights into the best possible treatments With this new sixteenth edition Abnormal Psychology is dropped from the title The importance of stigma and mental illness is discussed throughout never is this more important than now when many social ills such as gun violence are too easily blamed on mental illness while we continue to warehouse people with psychological disorders in jails at an astonishing rate AN INTERACTIVE MULTIMEDIA LEARNING EXPERIENCE This textbook includes access to an interactive multimedia e text Icons throughout the print book signal corresponding digital content in the e text Case Study Videos and Pause and Ponder Activities A collection of fourteen 7 to 10 minute Case Study Videos presents an encompassing view of a variety of psychological disorders featuring people experiencing these disorders and their families describing symptoms from their own perspective In addition each video provides concise information about the available treatment options and commentary from a mental health professional Each video is presented in the context of a Pause and Ponder activity with the following elements Part I Pause Readers are asked to read several short examples of everyday life situations facing a person or people with a particular disorder and assess their own ability to empathize Part II Learn Readers are directed to view the Case Study Video and answer a series of questions with interactive self scoring Part III Ponder Finally readers are asked to respond to one or more open ended questions and to reassess their ability to empathize Interactive Figures Charts Tables Appearing throughout the enhanced e text interactive figures process diagrams and tables facilitate the study of complex concepts and processes and help students retain important information Even many of the simplest figures are interactive to encourage online readers to pause and absorb the information they present before scrolling on to additional reading Interactive Self Scoring Check Your Knowledge Questions and Practice Quizzes Students can check their answers to the Check Your Knowledge questions at the end of each major chapter section instantly and each chapter includes a self scoring

Practice Quiz to help prepare for graded assignments and exams      **Psychopathology, Print and Interactive E-Text** Ann M. Kring, Sheri L. Johnson, 2023-09-15      Epidemiology and Prevention John Yarnell, 2007 This book takes a unique systems based approach allowing students to visualise the overall systemic effects of the disease process in its entirety      The Recognition and Management of Early Psychosis Henry J. Jackson, Patrick D. McGorry, 2009-02-19 This new edition describes a stage specific model highlighting the risk the clinical and biological factors present during the development of psychotic illness and the best treatments available for each of these stages Guides practitioners and researchers in the adoption of carefully planned management strategies fully integrating treatment with prevention      **Eating Disorders and Expressed Emotion** Renee Rienecke, Daniel Le Grange, 2020-08-06 The first to synthesize the exponentially growing research on expressed emotion EE and eating disorders and apply it to treatment interventions and other scenarios this unique text provides unprecedented guidance to students clinicians and researchers in the field of eating disorders This book explores the components of relatives attitudes and behaviors toward an ill family member and discusses a modifiable treatment target that could improve outcomes for patients through interventions treatment plans and future directions in research Chapters bring together contributions from eminent scientists and clinicians in the fields of families eating disorders and treatment to contribute to the clinical and scholarly understanding of expressed emotion and eating disorders Mental health professionals studying and treating eating disorders will find this text to be a valuable reference guide and will be inspired to further explore this rich and promising area of study      *Handbook of Stress and the Brain Part 2: Stress: Integrative and Clinical Aspects* Thomas Steckler, N.H. Kalin, J.M.H.M. Reul, 2005-02-25 The Handbook of Stress and the Brain focuses on the impact of stressful events on the functioning of the central nervous system how stress affects molecular and cellular processes in the brain and in turn how these brain processes determine our perception of and reactivity to stressful challenges acutely and in the long run Written for a broad scientific audience the Handbook comprehensively reviews key principles and facts to provide a clear overview of the interdisciplinary field of stress The work aims to bring together the disciplines of neurobiology physiology immunology psychology and psychiatry to provide a reference source for both the non clinical and clinical expert as well as serving as an introductory text for novices in this field of scientific inquiry Part 2 treats the complexity of short term and long term regulation of stress responsivity the role of stress in psychiatric disorders as based on both preclinical and clinical evidence and the current status with regard to new therapeutic strategies targetting stress related disorders      **Handbook of Stress and the Brain** T. Steckler, N. H. Kalin, J. M. H. M. Reul, 2005 The Handbook of Stress and the Brain focuses on the impact of stressful events on the functioning of the central nervous system how stress affects molecular and cellular processes in the brain and in turn how these brain processes determine our perception of and reactivity to stressful challenges acutely and in the long run Written for a broad scientific audience the Handbook comprehensively reviews key principles and facts to provide a clear overview of the interdisciplinary field of stress The work

aims to bring together the disciplines of neurobiology physiology immunology psychology and psychiatry to provide a reference source for both the non clinical and clinical expert as well as serving as an introductory text for novices in this field of scientific inquiry Part 1 addresses basic aspects of the neurobiology of the stress response including the involvement of neuropeptide neuroendocrine and neurotransmitter systems and its corollaries regarding gene expression and behavioural processes such as cognition motivation and emotionality Part 2 treats the complexity of short term and long term regulation of stress responsivity the role of stress in psychiatric disorders as based on both preclinical and clinical evidence and the current status with regard to new therapeutic strategies targetting stress related disorders Provides an overview of recent advances made in stress research Includes timely discussion of stress and its effect on the immune system Presents novel treatment strategies targeting brain processes involved in stress processing and coping mechanisms Clinical Topics in Cultural Psychiatry Rahul Bhattacharya, Sean Cross, Dinesh Bhugra, 2010-05 This book offers practical advice on the role that cultural factors play in the way psychiatric symptoms are presented to clinicians *Working Alongside People with Long Term Mental Health Problems* Rachel Perkins, Julie Repper, 1999 This book places emphasis on understanding the experience of mental health problems the effects and the ways to provide effective support **Cumulated Index Medicus** ,1994

Emotions in Psychopathology William F. Flack, James D. Laird, 1998 In recent years there has been a groundswell of significant and exciting new work being done in research on emotions and psychopathology This new volume in the Series in Affective Science examines the relationship between emotions and psychopathology by bringing together current theory and research and the perspectives of leading figures in the field Each part addresses general issues in the field and contains reports of research focused on emotions in specific psychological disorders such as schizophrenia depression anxiety disorders and personality disorders Chapters written by outstanding figures from a number of professional disciplines including psychiatry psychology and cognitive science represent the diversity of informed opinion and methods of investigation in research on emotion and psychopathology **A Biocultural Perspective on Schizophrenic**

**Communication in New Zealand and Papua New Guinea** Karen Lynne Schmidt, 1997 **Encyclopedia of Human Behavior** ,2012-01-31 The Encyclopedia of Human Behavior Second Edition Three Volume Set is an award winning three volume reference on human action and reaction and the thoughts feelings and physiological functions behind those actions Presented alphabetically by title 300 articles probe both enduring and exciting new topics in physiological psychology perception personality abnormal and clinical psychology cognition and learning social psychology developmental psychology language and applied contexts Written by leading scientists in these disciplines every article has been peer reviewed to establish clarity accuracy and comprehensiveness The most comprehensive reference source to provide both depth and breadth to the study of human behavior the encyclopedia will again be a much used reference source This set appeals to public corporate university and college libraries libraries in two year colleges and some secondary schools Carefully crafted

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