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Integrating exploration and prediction in computational psychotherapy science: proof of concept

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Introduction: Psychotherapy research has long preferred explanatory over predictive models. As a result, psychotherapy research is currently limited in the variability that can be accounted for in the process and outcome of treatment. The present study is a proof-of-concept approach to psychotherapy science that uses a datadriven approach to achieve robust predictions of the process and outcome of treatment.

Methods: A trial including 65 therapeutic dyads was designed to enable an adequate level of variability in therapist characteristics, overcoming the common problem of restricted range. A mixed-model, data-driven approach with crossvalidation machine learning algorithms was used to predict treatment outcome and alliance (within- and between-clients; client- and therapist-rated alliance).

Results and discussion: Based on baseline predictors only, the models explained 52.6% of the variance for out-of-sample prediction in treatment outcome, and 241-52.8% in therapeutic alliance. The identified predictors were consistent with previous findings and point to directions for future investigation. Although limited by its sample size, this study serves as proof of the great potential of the presented approach to produce robust predictions regarding the process and outcome of treatment, offering a potential solution to problems such as p-hacking and lack of replicability. Findings should be replicated using larger samples and distinct populations and settings.

psychotherapy process and outcome, predictive models, explanatory models, machine learning, alliance, data-driven approach

1 Introduction

Traditionally, statistical goals can be divided into two categories: explanation-oriented models, in which researchers are interested in testing an a priori hypothesized relationship between two or more variables, and prediction-oriented models, in which researchers are interested in finding an algorithm capable of recognizing which set of variables yields the best predictions about new observations (1, 2). For many years, psychotherapy research focused mainly on models aimed at understanding and explaining associations between variables (3). Many hundreds of studies testing predictors, moderators, and mediators have contributed greatly to our understanding of the process and outcome of psychotherapy (2). For instance, research has shown that the therapeutic alliance is strongly related to improved treatment

Prediction In Psychotherapy Research A M

Michael Barkham, Wolfgang Lutz, Louis G. Castonguay

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Prediction in Psychotherapy Research Bernard Landis, Fred Schwartz, Peter H. Schiller, 1968 Prediction in Psychotherapy Research ,1959 Theorie und Praxis der Gruppenpsychotherapie Irvin D. Yalom, 2024-05-18 DAS Standardwerk in berarbeiteter Neuauflage ber 30 000 verkaufte Exemplare Komplett berarbeitet mit einem neuen Kapitel zu Online Gruppentherapie und weiteren innovativen Ans tzen Die Neuausgabe enth lt alle signifikanten Innovationen die sich seit der letzten Revision vor 15 Jahren in Forschung und Praxis der Gruppenpsychotherapie entwickelt haben In dem Ma e wie neue psychologische Syndrome Settings und theoretische Ans tze entstanden sind haben sich auch entsprechende Varianten der Gruppentherapie etabliert Dem tr gt das Buch ebenso Rechnung wie der Tatsache dass Therapie heute verst rkt mit unterschiedlichen ethnokulturellen Hintergr nden bei den Patient innen umgehen muss Auch dass Gruppentherapie heute h ufig online angeboten wird schafft neue M glichkeiten aber auch Herausforderungen fr die in dieser Ausgabe Hilfestellungen geboten werden Nicht mehr so relevante Inhalte wurden herausgenommen viele neue Themen und Materialien sind dazugekommen Damit ist das Praxishandbuch wieder hochaktuell Wieder einmal haben Yalom und Leszcz einen Volltreffer gelandet Die Breite und Tiefe der behandelten Forschung ist wirklich beeindruckend Es ist jedoch der bemerkenswert fesselnde Schreibstil der diese empirisch fundierten Prinzipien der Gruppenpsychotherapie nahtlos in einen zwischenmenschlichen Rahmen einbettet der dieses Buch zu einem einzigartigen Klassiker macht Die lehrreichen und berzeugenden klinischen Beispiele unterst tzen angehende Therapeuten w hrend die zeitgem en Gruppeninterventionen den erfahrenen Gruppenleiter dazu einladen Neuland zu betreten Gary Burlingame Professor und Lehrstuhlinhaber fr Psychologie Brigham Young University **Psychodynamic Psychotherapy Research** Raymond A. Levy, J. Stuart Ablon, Horst Kächele, 2011-12-27 Psychodynamic Psychotherapy Research Evidence Based Practice and Practice Based Evidence continues the important work of the first book published in 2009 by Humana Press Handbook of Evidence Based Psychodynamic Psychotherapy Bridging the Gap Between Science and Practice This landmark title presents in one volume significant developments in research including neuroscience research in psychodynamic psychotherapy by a team of renowned clinician researchers. The demand for ongoing research initiatives in psychodynamic psychotherapy from both internal and external sources has increased markedly in recent years and this volume continues to demonstrate the efficacy and effectiveness of a psychodynamic approach to psychotherapeutic interventions in the treatment of psychological problems The work in this volume is presented in the spirit of ongoing discussion between researchers and clinicians about the value of specific approaches to specific patients with specific psychiatric and psychological problems Multiple forms of treatment interventions have been developed over the past fifty years and this volume makes clear with firm evidence the authors support for the current emphasis on personalized medicine Groundbreaking and a major contribution to the psychiatric and psychologic literature Psychodynamic Psychotherapy Research Evidence Based Practice and Practice Based

Evidence provides firm grounding for advancing psychodynamic psychotherapy as a treatment paradigm *Psychotherapy* Research Omar C.G. Gelo, Alfred Pritz, Bernd Rieken, 2014-12-24 This book provides readers with essential information on the foundations of psychotherapy research and on its applications to the study of both psychotherapy process and outcome The aim is to stimulate a reflection on these issues in a way that will benefit researchers and clinicians as well as undergraduate and graduate students at different levels and from different perspectives Accordingly the book presents a balanced mix of chapters summarizing the state of the art in the field from different viewpoints and covering innovative topics and perspectives reflecting some of the most established traditions and at the same time emerging approaches in the field in several countries The contributors who were invited from among the experts in our national and international professional networks also represent a healthy mix of leading figures and young researchers. The first part of the book addresses a number of fundamental issues in psychotherapy research at a historical philosophical and theoretical level The second part of the book is concerned with research on psychotherapy processes in this regard both quantitative and qualitative approaches are given equal consideration in order to reflect the growing relevance of the latter The book s third and last part examines research on psychotherapy outcomes primarily focusing on quantitative approaches Offering a balanced mix of perspectives approaches and topics the book represents a valuable tool for anyone interested in psychotherapy research Health, Epidemiology and Machine Learning Marcos Del Pozo Banos, Robert Stewart, Ann John, 2025-01-23 Mental health disorders are underlain by a wide diversity of influencing factors and they exert their impact across multiple domains in a patient's life As such mental health research has greatly benefited from the proliferation of large and diverse databanks with many and new types of data often covering a large sample of or even whole populations However traditional epidemiological and statistical techniques have proven to be insufficient to tackle the complexity of mental illness While such data have spurred important advances in the area of mental health they have also introduced new limitations that risk stalling progress In this context machine learning provides in theory novel opportunities to leverage the potential of databanks and propel population mental health research forward Indeed after a slower introduction compared to other health specialties the popularity of machine learning in this field has soared in recent years Unfortunately on many occasions the use of machine learning has overshadowed epidemiological practice thus limiting the production of results that have genuine clinical relevance Without careful integration there is a real risk of losing the trust and confidence that machine learning has slowly gained within the clinical field Prediction in Psychotherapy Research, 1968 Prediction in Psychotherapy Research Helen Durham Sargent, 1968 Bergin and Garfield's Handbook of Psychotherapy and Behavior Change Michael Barkham, Wolfgang Lutz, Louis G. Castonguay, 2021-10-05 Celebrating the 50th anniversary of a best selling and renowned reference in psychotherapy research and practice Now celebrating its 50th anniversary and in its seventh edition Bergin and Garfield's Handbook of Psychotherapy and Behavior Change maintains its position as the essential reference volume for

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