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Analysis of the therapeutic interaction provided by a humanoid robot serving stroke survivors as a therapeutic assistant for arm rehabilitation

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Objective: To characterize a socially active humanoid robot's therapeutic interaction as a therapeutic assistant when providing arm rehabilitation (i.e., arm basis training (ABT) for moderate-to-severe arm paresis or arm ability training (AAT) for mild arm paresis) to stroke survivors when using the digital therapeutic system Evidence-Based Robot-Assistant in Neurorehabilitation (E-BRAIN) and to compare it to human therapists' interaction.

Methods: Participants and therapy: Seventeen stroke survivors receiving arm rehabilitation (i.e., ABT [$n = 9$] or AAT [$n = 8$]) using E-BRAIN over a course of nine sessions and twenty-one other stroke survivors receiving arm rehabilitation sessions (i.e., ABT [$n = 6$] or AAT [$n = 15$]) in a conventional 1:1 therapist-patient setting. Analysis of the therapeutic interaction: Therapy sessions were videotaped, and all therapeutic interactions (information provision, feedback, and bond-related interaction) were documented offline both in terms of their frequency of occurrence and time used for the respective type of interaction using the instrument THER-I-ACT. Statistical analyses: The therapeutic interaction of the humanoid robot, supervising staff/therapists, and helpers on day 1 is reported as mean across subjects for each type of therapy (i.e., ABT and AAT) as descriptive statistics. Effects of time (day 1 vs. day 9) on the humanoid robot interaction were analyzed by repeated-measures analysis of variance (rmANOVA) together with the between-subject factor type of therapy (ABT vs. AAT). The between-subject effect of the agent (humanoid robot vs. human therapist; day 1) was analyzed together with the factor therapy (ABT vs. AAT) by ANOVA.

Main results and interpretation: The overall pattern of the therapeutic interaction by the humanoid robot was comprehensive and varied considerably with the type of therapy (as clinically indicated and intended), largely comparable to human therapists' interaction, and adapted according to needs for interaction over time. Even substantially long robot-assisted therapy sessions seemed acceptable to stroke survivors and promoted engaged patients' training behavior.

Conclusion: Humanoid robot interaction as implemented in the digital system E-BRAIN matches the human therapeutic interaction and its modification across therapies well and promotes engaged training behavior by patients. These

Therapeutic Interaction Volume 2

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The Therapeutic Interaction Robert Langs,1976 **The Therapeutic Interaction** Robert Langs,1976

Encyclopedia of Counseling Frederick T. Leong,2008-04-25 Selected as an Outstanding Academic Title by Choice Magazine January 2010 From the depressed and lonely college student to the business executive at midlife experiencing decreasing levels of career satisfaction to the couple where one partner has been unfaithful in the relationship counselling is the intervention that numerous individuals turn to each year as the challenges and stress of daily living exceed their normal coping abilities Counselling is practised by counsellors social workers psychiatric nurses psychologists and psychiatrists Counseling is to be differentiated from psychotherapy in that the latter deals more with mental illnesses and psychological disorders while the former is more concerned with normative stresses adjustment difficulties and life transitions e g adjusting to unemployment or going through a divorce The Encyclopedia of Counseling will be the definitive resource for members of the public who are interested in learning about the science and practice of counselling It will also be a useful resource for undergraduate and graduate students as well as professionals from other specialties Covering all of the major theories approaches and contemporary issues in counselling the set includes over 600 entries The Encyclopedia will consist of four volumes a changes and challenges facing counseling b personal counseling for mental health problems c career counseling and d cross cultural counseling Each volume is organized alphabetically and will contain a comprehensive index and cross referencing system to entries in other volumes Volume One Changes and Challenges for Counseling in the 21st Century History of Counseling Definition of Counseling Professional Associations Licensure Accreditation Managed Care Marriage Counseling Family Counseling Ethical Codes Volume Two Personal Counseling and Mental Health Problems Alcoholism Psychodynamic Theories of Counseling Cognitive Behavioral Approaches to Counseling Depression Suicide Eating Disorders Bereavement Counseling Volume Three Career and Vocational Counseling Career Assessment Instruments Holland s Model of Career Intervention Strong Interest Inventory Guidance and Career Counseling in Schools Career Counseling for Midlife Transitions Career Resources on the Web Violence in the Workplace Volume Four Cross Cultural Counseling Acculturation Cultural Identity Counseling African Americans Counseling Hispanic Americans Counseling Refugees Counseling Sojourners and International Students Cross Cultural Counseling Competencies **Hidden Conversations** David Livingstone Smith,2018-05-08 Hidden Conversations introduces Robert Langs radical reinterpretation of psychoanalysis by presenting and expanding his ideas in new and accessible ways It is the first clear account of the theories underlying Langs approach placing them within the context of the history of psychoanalysis and showing for example that Freud nearly discovered the communicative approach in the late 1890s and that in the 1930s Ferenczi also anticipated the method David Livingstone Smith illustrates this communicative approach with a wealth of practical detail and clinical examples including verbatim accounts of communicative psychoanalytical sessions with a commentary on the unconscious

processes underlying them

Antimicrobial Drug Resistance Douglas Mayers, 2009-07-06 This first edition of Antimicrobial Drug Resistance grew out of a desire by the editors and authors to have a comprehensive resource of information on antimicrobial drug resistance that encompassed the current information available for bacteria fungi protozoa and viruses We believe that this information will be of value to clinicians epidemiologists microbiologists virologists parasitologists public health authorities medical students and fellows in training We have endeavored to provide this information in a style which would be accessible to the broad community of persons who are concerned with the impact of drug resistance in our clinics and across the broader global communities Antimicrobial Drug Resistance is divided into Volume 1 which has sections covering a general overview of drug resistance and mechanisms of drug resistance first for classes of drugs and then by individual microbial agents including bacteria fungi protozoa and viruses Volume 2 addresses clinical epidemiologic and public health aspects of drug resistance along with an overview of the conduct and interpretation of specific drug resistance assays Together these two volumes offer a comprehensive source of information on drug resistance issues by the experts in each topic

101 More Interventions in Family Therapy Thorana S Nelson, Terry S Trepper, 2014-07-16 Inside 101 More Interventions in Family Therapy you will discover many revolutionary and flexible strategies for family counseling intervention that you can tailor amend and apply in your own practice Designed to appeal to professionals of beginning intermediate or advanced level status 101 More Interventions in Family Therapy caters to an even broader range of ethnic racial gender and class contexts than did its well received predecessor 101 Interventions in Family Therapy You will also find that this volume encompasses a wider variety of family therapy orientations including strategic behavioral family of origin solution focused and narrative In 101 More Interventions in Family Therapy you will have at your fingertips a collection of favorite tried and true interventions compiled revised and delivered to you by the professionals who use them the clinicians themselves You will gain valuable insight into effective and useful assessment strategies therapy that addresses school and career problems questions to use in solution focused therapy questions to use in narrative therapy ideas for resolving intergenerational issues Too often the in the trenches accounts you need to help add variety and a high success rate to your own practice come to you piecemeal in journals or newsletters But in 101 More Interventions in Family Therapy you will find 101 handy easy to read and fun ways to modify your own therapeutic styles for a truly diverse variety of clientele and settings right where you want them in one volume in one place Even after a few chapters you will discover 101 reasons to be happy with the prospect of improving your practice Specifically some of the interesting tips and techniques you will read about include applying theater techniques to family therapy using an alarm clock and rubber band as props in clinical practice with children couples and families utilizing the play baby intervention to coach parents on ways to address their children's concerns adopting a Columbo therapy approach one in which the therapist acts confused and asks questions out of a genuine curiosity about the client's experience to take a one down position with clients creating a safe space in therapy

and helping clients transfer it into their lives using homework to increase the likelihood of producing desired therapeutic outcomes

The Therapeutic Relationship Petruska Clarkson,2003-11-07 This text provides coverage of the uses and abuses of the therapeutic relationship in counselling psychology psychotherapy and related fields It provides a framework for integration pluralism or deepening singularity with reference to five kinds of therapeutic relationship potentially available in every kind of counselling or psychodynamic work The work incorporates training and supervision perspectives and examples of course design uses in assessment and applications to group and couples as well as to organizations Dealing with an issue of increasing complexity the book should be of value and significance to psychotherapists psychoanalysts clinical and counselling psychologists and other professionals working in the field of helping human relationships such as doctors social workers teachers and counsellors

An Introduction to the Therapeutic Relationship in Counselling and Psychotherapy Stephen Paul,Divine Charura,2014-10-16 The therapeutic relationship is considered to be the most significant factor in achieving positive therapeutic change As such it is essential that trainee and practising therapists are able to facilitate a strong working alliance with each of their clients This book will help them do just that by offering a practical and evidence based guide to all aspects of the therapeutic relationship in counselling and psychotherapy Cross modal in its approach this book examines the issues impacting on the therapeutic relationship true to all models of practice Content covered includes The history of the therapeutic relationship The place of the therapeutic relationship in a range of therapy settings including IAPT Concepts and practical skills essential for establishing and maintaining a successful working alliance The application of the therapeutic relationship to a variety of professional roles in health and social care Practice issues including potential challenges to the therapeutic relationship working with diversity and personal and professional development Research and new developments Using examples points for reflection and chapter aims and summaries to help consolidate learning the authors break down the complex and often daunting topic of the therapeutic relationship making this essential reading for trainee and practising therapists as well as those working in a wider range of health social care and helping relationships

Handbook of Psychological Assessment, Case Conceptualization, and Treatment, Volume 2 Michel Hersen,David Reitman,2007-11-02 Edited by recognized experts Michel Hersen and David Reitman Handbook of Psychological Assessment Case Conceptualization and Treatment Volume 2 Children and Adolescents is a thorough and practical reference for those working with children and adolescents Bringing together the most current theories and evidence based applications chapters address issues of importance including depressive disorders substance use disorders and childhood psychosis Each chapter follows a structured format opening with an overview of assessment followed by case conceptualization and finally recommended treatment

The Nurse-patient Relationship in Psychiatric Nursing Janet A. Simmons,1969

Harrison's Principles of Internal Medicine 19/E (Vol.1 & Vol.2) (ebook) Dennis L. Kasper,Anthony S. Fauci,Stephen L. Hauser,Dan L. Longo,J. Larry Jameson,Joseph Loscalzo,2015-04-17 The landmark guide to internal medicine

updated and streamlined for today's students and clinicians. The only place you can get ALL the great content found in the two print volumes AND the acclaimed DVD in one convenient resource. Through six decades, no resource has matched the authority, esteemed scholarship, and scientific rigor of Harrison's Principles of Internal Medicine. Capturing the countless advances and developments across the full span of medicine, the new 19th edition of Harrison's provides a complete update of essential content related to disease pathogenesis, clinical trials, current diagnostic methods, and imaging approaches; evidence-based practice guidelines; and established and newly approved treatment methods. Here are just a few of the outstanding features of the new Nineteenth Edition: Content is practically organized around two basic themes: education and clinical practice. The teaching and learning sections cover foundational principles, cardinal manifestations of disease, and approach to differential diagnosis; the content devoted to clinical practice focuses on disease pathogenesis and treatment. NEW chapters on important topics such as Men's Health, The Impact of Global Warming on Infectious Diseases, Fatigue, and many more. Critical updates in management and therapeutics in Hepatitis, Coronary Artery Disease, Ebola Virus Disease, Multiple Sclerosis, Diabetes, Hypertension, Deep Vein Thrombosis and Pulmonary Embolism, Acute and Chronic Kidney Disease, Inflammatory Bowel Disease, Lipoprotein Disorders, HIV and AIDS, and more. Increased number of the popular Harrison's clinical algorithms, clinically relevant radiographic examples spanning hundreds of diseases, clinical pathological images in full color, crystal clear full color drawings and illustrations, and helpful tables and summary lists that make clinical application of the content faster than ever. Outstanding multi-media resources including practical videos demonstrating essential bedside procedures, physical examination techniques, endoscopic findings, cardiovascular findings, are available for easy download. Supporting the renowned coverage are supplemental resources that reflect and assist modern medical practice: more than 1,000 full color photographs to aid visual recognition skills; hundreds of state-of-the-art radiographs from plain film to 3D CT to PET Scans; beautiful illustrations that bring applied anatomy and processes to life; the renowned Harrison's patient care algorithms; essential summary tables; and practical demonstrative videos. In addition, several digital atlases highlight noninvasive imaging, percutaneous revascularization, gastrointestinal endoscopy, diagnosis and management of vasculitis, and numerous other issues commonly encountered in clinical practice. Acclaim for Harrison's: Covering nearly every possible topic in the field of medicine, the book begins with a phenomenal overview of clinical medicine, discussing important topics such as global medicine, decision making in clinical practice, the concepts of disease screening and prevention, as well as the importance of medical disorders in specific groups, e.g., women, surgical patients, end of life. The extensive chapters that follow focus on a symptom-based presentation of disease and then illness organized by organ system. Numerous tables, graphs, and figures add further clarity to the text. Written by experts in the field, this book is updated with the latest advances in pathophysiology and treatment. It is organized in a way that makes reading from beginning to end a logical journey, yet each chapter can stand alone as a quick reference on a particular topic. Doody's Review Service reviewing the previous edition of

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Table of Contents Therapeutic Interaction Volume 2

1. Understanding the eBook Therapeutic Interaction Volume 2
 - The Rise of Digital Reading Therapeutic Interaction Volume 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Therapeutic Interaction Volume 2
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Therapeutic Interaction Volume 2
 - Personalized Recommendations
 - Therapeutic Interaction Volume 2 User Reviews and Ratings

- Therapeutic Interaction Volume 2 and Bestseller Lists
- 5. Accessing Therapeutic Interaction Volume 2 Free and Paid eBooks
 - Therapeutic Interaction Volume 2 Public Domain eBooks
 - Therapeutic Interaction Volume 2 eBook Subscription Services
 - Therapeutic Interaction Volume 2 Budget-Friendly Options
- 6. Navigating Therapeutic Interaction Volume 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Therapeutic Interaction Volume 2 Compatibility with Devices
 - Therapeutic Interaction Volume 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Therapeutic Interaction Volume 2
 - Highlighting and Note-Taking Therapeutic Interaction Volume 2
 - Interactive Elements Therapeutic Interaction Volume 2
- 8. Staying Engaged with Therapeutic Interaction Volume 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Therapeutic Interaction Volume 2
- 9. Balancing eBooks and Physical Books Therapeutic Interaction Volume 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Therapeutic Interaction Volume 2
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Therapeutic Interaction Volume 2
 - Setting Reading Goals Therapeutic Interaction Volume 2
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Therapeutic Interaction Volume 2
 - Fact-Checking eBook Content of Therapeutic Interaction Volume 2
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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