2002

Comparison of Self- and Significant Other-rated Expression of Anger Using the MAD-AS and the SO-MAD-AS

Donna Marie Martin
Philadelphia College of Osteopathic Medicine, dmartin1954@comcast.net

Follow this and additional works at: http://digitalcommons.pcom.edu/psychology_dissertations

Part of the Clinical Psychology Commons

Recommended Citation

This Dissertation is brought to you for free and open access by the Student Dissertations, Theses and Papers at DigitalCommons@PCOM. It has been accepted for inclusion in PCOM Psychology Dissertations by an authorized administrator of DigitalCommons@PCOM. For more information, please contact library@pcom.edu.
Philadelphia College of Osteopathic Medicine
Department of Psychology

A COMPARISON OF SELF- AND SIGNIFICANT OTHER-RATED
EXPRESSION OF ANGER USING THE
MAD-AS AND THE SO-MAD-AS

By Donna Marie Martin

Submitted in Partial Fulfillment
of the Requirements for the Degree of
Doctor of Psychology
August 2002
Self- and other-rated anger

PHILADELPHIA COLLEGE OF OSTEOPATHIC MEDICINE

DEPARTMENT OF PSYCHOLOGY

Dissertation Approval

This is to certify that the dissertation presented to us by Donna Marie Martin on the 13th day of June, 2002, in partial fulfillment of the requirements for the degree of Doctor of Psychology, has been examined and is accepted in both scholarship and literary quality.

Committee Members’ signatures:

Committee Members’ Signatures:

Robert A. DiTomasso, Ph.D., ABPP, Chairperson

Bruce S. Zahn, Ed.D, ABPP

Arthur Eisenbuch, Ph.D.

Arthur Freeman, Ed.D., ABPP, Chair, Department of Psychology
Abstract

The present study proposed to advance the treatment of anger disorders by exploring the psychometric properties of the MAD-AS scale, an anger assessment tool. Research sought to build on prior investigation of the reliability, validity, and factor structure of the MAD-AS in an inpatient setting by examining this measure using outpatient subjects. Several important findings were obtained in this study. Research results suggest that the MAD-AS represents a significant improvement over some existing anger measures in terms of its brevity, ease of administration, and standardization of scoring. The MAD-AS appears to possess sound psychometric properties in terms of its reliability and validity. Findings indicate that the MAD-AS scales reflect the multidimensional quality of anger, measuring anger's cognitive, physiological, and behavioral components. These characteristics suggest its potential usefulness in diverse settings. The MAD-AS may function in research contexts as a valuable aid in the screening of participants. In clinical work, the MAD-AS can assist in identifying symptoms, choosing interventions, monitoring treatment, and evaluating outcomes.
TABLE OF CONTENTS

LIST OF TABLES viii

CHAPTER

1. INTRODUCTION 1
   The Context of Anger 1
   Research and Assessment of Anger 3
   Theoretical Perspectives on Anger 5
   Models of Anger 14
   The Measurement of Anger 22
   Research Issues 32

2. METHODOLOGY 36
   Subjects 36
   Design 37
   Description of Measures 37
   Mahan and DiTomasso Anger Scale 38
   State Trait Anger Expression Inventory-2 38
   The Beck Anxiety Inventory 39
   The Beck Depression Inventory 39
   Procedure 40
   Statistical Analysis 42

3. RESULTS 44
   Factor Analysis of the MAD-AS 50
   Coefficient Alpha & Test-Retest Reliability of the MAD-AS 53
   Correlation of the MAD-AS Factor Scores 55
   Correlation of the MAD-AS with the BDI, BAI, and STAXI-2 56
   Comparison of Research Groups on the MAD-AS 57
   Multivariate Analysis of Variance 59

4. DISCUSSION 65
   The MAD-AS Factor Structure 66
   The MAD-AS and Group Comparisons 70
   Construct Validity of the MAD-AS 72
   The MAD-AS and Other Assessment Instruments 75
   Discriminative Validity of the MAD-AS 78
   Reliability of the MAD-AS 82
   Limitations of the Study 83
   Summary 85

REFERENCES 88
APPENDICES

Sample Title Page
General Instructions
Letter of Introduction, Control Group
Letter of Introduction, Outpatient Groups
Instructions to Participating Therapists
# LIST OF TABLES

<table>
<thead>
<tr>
<th>Table</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Frequency Distribution for Research Groups: Age</td>
<td>45</td>
</tr>
<tr>
<td>2. Frequency Distribution for Research Groups: Race</td>
<td>46</td>
</tr>
<tr>
<td>3. Frequency Distribution for Research Groups: Education</td>
<td>47</td>
</tr>
<tr>
<td>4. MAD-AS Raw Scores, Frequency Distributions, and Percentile Ranks</td>
<td>48</td>
</tr>
<tr>
<td>5. Factor Loadings of the Principal Components Varimax Rotated Factor Analyses of the MAD-AS</td>
<td>52</td>
</tr>
<tr>
<td>6. Internal Consistency Coefficients for the MAD-AS</td>
<td>53</td>
</tr>
<tr>
<td>7. Test-Retest Reliability Coefficients for the MAD-AS</td>
<td>54</td>
</tr>
<tr>
<td>8. Pearson Inter-correlations of Factors on the MAD-AS</td>
<td>55</td>
</tr>
<tr>
<td>9. Correlations of the MAD-AS, BAI, and BDI</td>
<td>56</td>
</tr>
<tr>
<td>10. Correlations of the MAD-AS and STAXI-2</td>
<td>56</td>
</tr>
<tr>
<td>11. Descriptive Statistics for Total MAD-AS Scores</td>
<td>57</td>
</tr>
<tr>
<td>12. ANOVA for Total MAD-AS Scores for All Groups</td>
<td>58</td>
</tr>
<tr>
<td>13. ANOVA for Total MAD-AS Scores for Outpatient Groups</td>
<td>58</td>
</tr>
<tr>
<td>14. Post-hoc Scheffe' Test Comparing Groups on Total MAD-AS Scores</td>
<td>59</td>
</tr>
<tr>
<td>15. Box Test and Wilks' Lambda for All Groups</td>
<td>60</td>
</tr>
<tr>
<td>16. Box Test and Wilks' Lambda for Outpatient Groups</td>
<td>60</td>
</tr>
<tr>
<td>17. Post-hoc Games-Howell Group Comparison on MAD-AS Factors</td>
<td>63</td>
</tr>
</tbody>
</table>