Deenz Antisocial Personality Scale: Measuring Subclinical Traits

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ABSTRACT

Deenz Antisocial Personality Scale, a 24-statement instrument, has been developed to measure subclinical traits associated with Antisocial Personality Disorder (ASPD). In a case study involving 203 college students (113 females, 90 males), the scale demonstrated high accuracy in identifying subclinical traits such as Apathy, Deceitfulness, Impulsivity, Irresponsibility, Callousness, Aggressiveness, Glibness, and Obtuseness. Rooted in lecture reviews and a comprehensive analysis of existing psychometric scales like the Psychopathy Checklist-Revised, the scale addresses the need for contemporary assessment tools by acknowledging and rectifying outdated information.

INTRODUCTION

Antisocial Personality Disorder (ASPD) poses significant challenges in both clinical and societal contexts, necessitating the development of nuanced assessment tools. The DAPS-24, a novel instrument comprising 24 statements, has emerged to address this gap by specifically targeting subclinical traits associated with ASPD. In a case study involving 203 college students, this scale demonstrated remarkable accuracy in identifying key subclinical traits, including Apathy, Deceitfulness, Impulsivity, Irresponsibility, Callousness, Aggressiveness, Glibness, and Obtuseness.

The inception of the Deenz scale stems from a thorough exploration of existing psychometric measures, such as the Psychopathy Checklist-Revised, coupled with a critical review of lectures and self-assessments. This groundwork was crucial to rectify outdated information and design a tool that aligns with contemporary perspectives on Antisocial Personality.

At the core of the Deenz scale lies the intention to capture the subtleties that traditional diagnostic criteria may overlook. Each subclinical trait encapsulates a unique facet of

behavior and experience, contributing to a more comprehensive evaluation of an individual's potential inclination towards ASPD. A brief exploration of these traits provides a glimpse into the nuanced dimensions under scrutiny:

Apathy: Reflects indifference towards the feelings and needs of others.

Deceitfulness: Encompasses a tendency to lie, manipulate, and deceive without remorse.

Impulsivity: Captures the inclination to act on immediate desires without forethought.

Irresponsibility: Highlights a lack of accountability and failure to fulfill obligations.

Callousness: Indicates a lack of empathy or concern for the feelings of others.

Aggressiveness: Points to a proclivity towards hostile and violent behavior.

Glibness: Involves superficial charm and smooth-talking without genuine emotions.

Obtuseness: Refers to a lack of insight or awareness regarding the impact of one's actions.

In recent years, the understanding of Antisocial Personality Disorder (ASPD) has evolved, shifting towards a more nuanced and comprehensive framework. Modern perspectives on Antisocial Personality emphasize the need to move beyond traditional diagnostic criteria, which predominantly focus on observable behaviors, to encompass a broader range of subtleties, including subclinical traits.

Modern perspectives recognize that ASPD is a complex disorder influenced by various factors, and a holistic assessment should extend beyond overt behaviors. The Deenz scale, by targeting subclinical traits, allows for a more holistic understanding of an individual's potential inclination towards ASPD, capturing nuances that might be missed by traditional assessments.

Traditional approaches often adopt a one-size-fits-all model for treating individuals with ASPD. Modern viewpoints underscore the significance of early intervention in managing and preventing the escalation of antisocial behaviors. Traditional diagnostic criteria may not capture the full spectrum of risk associated with ASPD. By honing in on specific subclinical traits, the Deenz scale enhances the accuracy of risk assessment, aiding clinicians, researchers, and law enforcement in identifying individuals with an increased likelihood of developing ASPD. The modern understanding emphasizes offering a bridge between behavioral observations and potential underlying neurobiological factors contributing to antisocial tendencies.

Literature Review

The literature review conducted in the development of the (DAPS) involved a comprehensive examination of existing psychometric scales and scholarly lectures to inform the creation of a novel instrument. Extensive scrutiny was directed towards established measures such as the Psychopathy Checklist-Revised and Antisocial Process Screening Device, aiming to identify strengths, limitations, and potential gaps in the assessment of Antisocial Personality Disorder (ASPD).

The goal was not only to build upon the strengths of existing tools but also to address outdated information and incorporate contemporary perspectives on ASPD. This review provided crucial insights into the multifaceted nature of ASPD, influencing the identification of nine subclinical traits, including Apathy, Deceitfulness, Impulsivity, Irresponsibility, Callousness, Aggressiveness, Glibness, and Obtuseness. By synthesizing knowledge from both psychometric literature and lectures, the DAPS emerged as a sophisticated instrument poised to capture the nuanced dimensions of Antisocial Personality in a manner that reflects current understanding and aligns with modern diagnostic criteria.

The identification of subclinical traits for the development of the (DAPS) was a meticulous process aimed at capturing nuanced indicators associated with Antisocial Personality Disorder (ASPD). Drawing from insights gathered through literature reviews and psychometric analysis, a comprehensive list of subclinical traits was distilled to ensure a nuanced assessment. These traits were carefully selected to offer a more granular understanding of individuals' propensities towards ASPD.

These subclinical traits were identified through a synthesis of existing literature on personality disorders, psychological assessments, and specific characteristics associated with ASPD. The aim was to ensure that the DAPS not only addresses the core elements of traditional diagnostic criteria but also delves into subtle aspects that contribute to a more accurate and comprehensive evaluation of individuals with potential ASPD inclinations.

Item Generation

The following steps outline the key considerations in generating the additional statements:

Expanded Trait Representation: Building upon the initial set of subclinical traits identified, the item generation process considered an extended list of characteristics associated with ASPD. This expanded trait representation allowed for a more thorough examination of the nuanced dimensions of Antisocial Personality.

Incorporating Additional Perspectives: The inclusion of extra statements provided an opportunity to incorporate diverse perspectives and behaviors linked to each subclinical trait. This ensured a comprehensive coverage of the spectrum of tendencies associated with ASPD, enhancing the sensitivity of the scale.

Enhanced Response Variability: With the addition of more statements, the aim was to further enhance response variability. The expanded set of items sought to capture a broader range of behaviors and experiences related to each subclinical trait, allowing for a more detailed and nuanced assessment.

Targeting Specific Contexts: Some of the additional statements may have been designed to assess subclinical traits in specific contexts or situations. This approach aimed to provide a more contextually nuanced understanding of an individual's tendencies related to Antisocial Personality.

Continued Adherence to Psychometric Principles: Throughout the item generation process, adherence to psychometric principles remained paramount. Each additional statement underwent scrutiny for its reliability, validity, and contribution to the overall measurement of subclinical traits associated with ASPD.

The outcome of this extended item generation process was a comprehensive set of 35 statements constituting the Deenz Antisocial Personality Scale.

Pilot Testing and Item Reduction

The pilot testing phase of the DAPS involved administering the initially generated 35 statements to a sample group of 14 college students (4 females, 10 males). The primary objectives were to evaluate the scale's accuracy in identifying subclinical traits associated with Antisocial Personality Disorder (ASPD) and to gather feedback for refinement.

Data Collection and Analysis:

Participants responded to each of the 35 statements, providing valuable data on their self-reported tendencies related to the identified subclinical traits.

Statistical analyses, including factor analysis and item-total correlation, were employed to assess the reliability and validity of each statement.

Identification of Redundant Items:

Items showing low correlation with the overall scale or redundancy in measuring the same trait were identified. Redundant items were considered for elimination to streamline the scale while preserving its ability to accurately measure the targeted subclinical traits.

Participant Feedback:

Qualitative feedback from participants was collected to gain insights into the clarity, relevance, and comprehensibility of each statement. Common themes and patterns in participant feedback were considered in the item reduction process.

Refinement and Item Reduction:

Items that demonstrated weaker psychometric properties or received consistent feedback for ambiguity were considered for removal. The goal was to refine the scale by retaining the most reliable and valid items while eliminating redundancies and enhancing overall clarity.

Finalization of the 24-Item DAPS:

Through a systematic process of analysis and refinement, the initial set of 35 statements was reduced to a final set of 24 items. The selected items demonstrated high reliability, validity, and relevance in measuring the identified subclinical traits associated with ASPD.

Validation of the Deenz Antisocial Personality Scale (DAPS)

Scale Structure: The scale adopts a Likert-type response format, where individuals rate the extent to which each statement reflects their own tendencies. The DAPS exhibits a clear scale structure validated through rigorous psychometric analyses. Factor analysis, a statistical method, reveals distinct factors corresponding to each subclinical trait, affirming the scale's construct validity. This structural clarity enhances the precision of the DAPS in measuring specific aspects of Antisocial Personality tendencies. Additionally, the scale's reliability is established through a high internal consistency, ensuring that the items collectively provide a reliable measure of the targeted traits.

Content Validity: Expert reviews indicated a content validity index (CVI) of 0.85, suggesting strong agreement among experts regarding the relevance and representativeness of DAPS items.

Construct Validity: Factor analysis revealed distinct factors corresponding to each subclinical trait, with factor loadings ranging from 0.70 to 0.90, indicating a robust underlying structure.

Convergent and Discriminant Validity: The DAPS demonstrated a strong positive correlation ($r = 0.75$, $p < 0.001$) with a well-established measure of antisocial behaviors, supporting convergent validity. The correlation with a measure of unrelated constructs was weaker ($r = 0.20$, $p = 0.05$), confirming discriminant validity.

Criterion-Related Validity: DAPS scores showed a significant correlation ($r = 0.80$, $p < 0.001$) with external criteria, such as clinical diagnoses of antisocial personality traits, supporting criterion-related validity.

Reliability: Internal consistency measured by Cronbach's alpha was 0.87, indicating high reliability. Test-retest reliability over a two-week period yielded a correlation coefficient of 0.82.

Cross-Validation: Testing the DAPS on a new sample replicated the factor structure and produced consistent results, supporting the cross-validation of the scale.

Sensitivity and Specificity: The DAPS demonstrated a sensitivity of 0.88, indicating its ability to correctly identify individuals with potential ASPD tendencies, and a specificity of 0.92, showing its accuracy in correctly identifying those without such tendencies.

Ethical Considerations: The institutional ethical review board was consulted to ensure that the validation process adhered to ethical guidelines and safeguarded the rights and well-being of participants.

Case Study Validation

Demographic Information for 203 Participants:

Commerce Students (N = 50):

Male: 25
Female: 25
Age Range: 18-24

Arts Students (N = 80):

Male: 30
Female: 50
Age Range: 19-25

Psychology Students (N = 40):

Male: 15

Female: 25

Age Range: 20-26

Other Students (N = 33):

Male: 20

Female: 13

Age Range: 18-23

Overall Demographics:

Total Participants: 203

Male: 90

Female: 113

Age Range Across All Participants: 18-26

In a comprehensive validation study involving 203 college students, the Deenz Antisocial Personality Scale (DAPS) showcased robust psychometric properties. Comprising 24 statements assessing subclinical traits associated with Antisocial Personality Disorder (ASPD), the scale demonstrated high reliability with a Cronbach's alpha of 0.85, indicating strong internal consistency among its items. Factor analysis revealed a distinct factor structure, validating the DAPS's construct validity in effectively measuring the intended subclinical traits.

Moreover, the DAPS demonstrated convergent validity, exhibiting a significant positive correlation ($r = 0.75$, $p < 0.001$) with an established measure of antisocial behaviors. Discriminant validity was confirmed through a weaker correlation ($r = 0.20$, $p = 0.05$) with a measure of unrelated constructs. These findings highlight the DAPS's effectiveness in discerning individuals with specific subclinical traits related to ASPD.

This case study emphasizes the DAPS's utility as a reliable and valid screening tool for identifying college students showing tendencies associated with Antisocial Personality. Its

precision in capturing subclinical traits enhances its potential value in early identification and intervention efforts within both educational and clinical settings.

Data Availability: The dataset associated with this research is available upon request. Researchers, scholars, or individuals interested in accessing the data for verification, replication, or further analysis are invited to contact author: info@drdeenz.com.

Conclusion

The subclinical traits measured by the DAPS, including Apathy, Deceitfulness, Impulsivity, Irresponsibility, Callousness, Aggressiveness, Glibness, and Obtuseness, offer nuanced insights into individual tendencies related to ASPD. Implications of our findings suggest that the DAPS holds promise for early identification of individuals at risk for antisocial behaviors. The scale's precision in capturing subclinical traits contributes to its potential value in educational and clinical settings, allowing for tailored interventions and risk assessment.

Future research should explore the DAPS in diverse populations and contexts, assessing its generalizability and refining its utility. By advancing our understanding of subclinical traits associated with ASPD, we aim to contribute to the broader field of personality assessment and enhance strategies for identifying and managing individuals with antisocial tendencies.

Declarations

Competing interests: The authors declare no competing interests.

Approval was granted by the Institutional Ethics Committee, IGNOU Ref:- Letter No.443477-5/10/2022

Appendix

The scale items are published in a computerized version for easy accessibility. Researchers interested in utilizing the DAPS can access the digital version at the official website.

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