Limitations of Extending Juvenile Psychopathy Research Assessment Tools and Methods to Forensic Settings

Abstract
Numerous studies have demonstrated significant associations between psychopathic-like characteristics in youths, which include affective, interpersonal, and behavioral dimensions, and severe and persisting conduct problems, violence, aggression, and antisocial behavior. The results of such studies have had practical considerations in the area of assessment with respect to the added specifier, “with limited prosocial emotions”, for the diagnosis of conduct disorder, and to the inclusion of features that have been described as callous-unemotional (CU) traits on empirically supported juvenile risk assessment instruments. However, it is questionable whether findings obtained through research which provides anonymity and/or confidentiality to research participants are comparable across research and applied settings, and whether self-report youth psychopathy or CU questionnaire measures, which are vulnerable to deception, can effectively measure the same latent constructs in applied contexts. Forensic mental health evaluators attempt to obtain optimally consistent and reliable information through the use of multiple sources of information and through multiple assessment methods. Current practices of forensic mental health evaluators with regard to risk assessment and assessment of juvenile psychopathy are referenced. Some observations and suggestions are made to help meet the challenge of bridging the gap between research that utilizes self-report measures and applied forensic contexts.

Opinion
Psychopathic or psychopathic-like characteristics in youths have been studied extensively over the past two decades across community, clinic-referred and adjudicated samples [1-4]. Frick and White [2] asserted that a review of the literature provides “compelling evidence” of an association between psychopathic traits and severe conduct problems, violence, aggression, and delinquency across samples of youths. In more recent years specific dimensions of psychopathy, especially callous-unemotional (CU) traits, which reflect affective features of psychopathy, have become the focus of numerous studies [5]. An accumulation of empirical evidence strongly suggests that youths with high levels of CU traits represent a subgroup of antisocial youth who display more severe and persistent aggression and violence, especially including both instrumental and reactive aggression, and a general lack of empathy and guilt [1-4,6-7]. A recent comprehensive review of the literature by Frick, et al. [4] on the role of CU traits in understanding severe conduct problems included 269 studies published after 1990, 191 of which were published in 2007 or later. The review concluded that the research seems to indicate that “…children and adolescents with severe conduct problems and elevated CU traits show distinct genetic, cognitive, emotional, biological, environmental, and personality characteristics that seem to implicate different etiological factors underlying their behavior problems relative to other youths with severe conduct problems”. Measures of CU traits have shown stability across childhood and adolescence at levels that are comparable to those reported for other problem areas studied in child and adolescent psychopathology [8]; and see Frick, et al. [3] for a review. Still, despite finding moderate stability of psychopathy from early adolescence into young adulthood, Lynam, et al. [8] also found that “most individuals identified as psychopaths at age 13 will not receive such a diagnosis at age 24”. Additionally, decreases in CU traits for some youths, and decreases associated with family based interventions in particular, suggest that such traits are malleable and may be positively altered in association with certain features of the child’s psychosocial environment [2,9].

Relevance of Assessing Juvenile Psychopathy Like Traits in Clinical and Forensic Contexts
The study of particular traits or dimensions of psychopathy in youths (including affective, interpersonal, and behavioral dimensions, as illustrated, for example, by callous lack of empathy, shallow emotions, egocentricity, lying/deceitfulness, manipulation/exploitation of others, narcissism, impulsivity, and anti-social behavior) has already led to practical considerations in the realms of clinical diagnostic assessment, assessment of risk for delinquent recidivism, and assessment of psychopathic characteristics in adolescents. The diagnostic criteria for Conduct Disorder in the American Psychiatric Association (2013) Diagnostic and Statistical Manual of Mental Disorders (5th edn, DSM-5) [10] include the specifier “with limited prosocial emotions”, indicating a pattern of interpersonal and emotional functioning characterized by a lack of remorse or guilt, deficient or shallow affect, callous lack of empathy, and a lack of concern about performance at school, work, or other important activities (two or more of the four traits must be present over a period of 12 months and observed in more than one relationship or setting, requiring multiple sources of information about the youth). Also, impaired capacity for, or inadequate development of remorse,
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The voluminous body of research that has been accumulating in the study of psychopathic and CU traits in youths has depended primarily on methodology that provides research participants, including those in juvenile justice settings, with anonymity and/or confidentiality. Such conditions may facilitate optimal cooperation and openness on the part of study participants who are assured that their responses will have no external consequences. Also, this research has been advanced to a notable degree through the utilization of structured, questionnaire format self-report and/or other informant (usually parent) report measures of these traits, in conjunction with, or as an alternative to use of the PCL:YV. The PCL:YV requires extensive training of raters and takes approximately two hours to complete [16]. Whereas some researchers regard the PCL:YV as the most reliable and valid measure of psychopathic traits, particularly for incarcerated adolescents [24], it also has been asserted that there is no "gold standard" measure of juvenile psychopathy [25-26], and no gold standard measure of CU traits in particular [27]. Skeem & Cauffman [26] found both the Youth Psychopathic Traits Inventory (YPI) [28], a self-report measure, and the PCL:YV to be reliable measures that were significantly predictive of short-term antisocial behavior in incarcerated juvenile offenders, despite the finding of only moderate association between the two measures. Skeem & Cauffman [26] suggested that the YPI may be considered as a complementary method to the PCL:YV for the understanding and assessment of the juvenile psychopathy construct, with one measure not necessarily being more valid than the other. Among other empirically supported measures of psychopathy dimensions or the affective/CU dimension specifically are the Antisocial Process Screening Device (APS-D) [29], which, like the PCL:YV, is a downward extension of the Hare Psychopathy Checklist- Revisited (PCL-R) [30], and the Inventory of Callous- Unemotional Traits (ICU) [31], which was derived from the APS-D and designed as a more comprehensive CU measure. Both of these measures have informant (i.e., parent, teacher) and self-report forms. Also, both the APS-D and the ICU were used in developing criteria for the DSM-5 conduct disorder specifier "with limited prosocial emotions".

Psychometrically reliable and valid questionnaire measures offer certain advantages when compared to labor intensive measures that are dependent on lengthy interview and file review. Validated self-report measures may provide a distinct sampling of psychological constructs under standardized administration and scoring procedures, thus controlling for some sources of error variance. Typically, narrow-band psychological measures that assess limited variables also are brief in length and time saving, which is advantageous for studies involving large numbers of participants and multiple variables of interest. However, advantages gained by the use of brief, self-report measures may be compromised by response styles that affect the accuracy of self-report. In forensic settings, youths may attempt...
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to present a positive impression (impression management) by denying, minimizing, or otherwise underreporting problematic, dysfunctional behavior, attitudes, and emotions [32-38]. At the same time, they may present a socially desirable response style in which they portray themselves as virtuous, problem-free, and well-adjusted. Denial of problematic behaviors, such as aggressive, antisocial, disruptive behaviors, is not unexpected in the evaluation of youths in a juvenile justice context where the evaluation might have bearing on legal decisions with potential for restriction of freedom [35,37,39-40]. Murrie & Cornell [34], Penney & Skilling [35], and Finsonoulet [41], among others, suggest that in forensic settings one may encounter a higher base rate of youths who exhibit psychopathic personality traits, such as dishonesty, superficiality, deceptive self-presentation, and who may produce greater response biases on self-report measures of psychopathology. Indeed, level of psychopathic traits and level of socially desirable response were found to moderate the degree of discrepancy between youth and parent reports in youths who were court-ordered to undergo mental health evaluations [35]. Kahn et al. [42] found that youths high on CU traits (primary psychopathy variant) as measured by the APSD had significantly poorer credibility ratings than those in the secondary cluster or the anxious-conduct cluster. They speculated that youths in the primary psychopathy group were more likely to underreport problems relative to the report of their parents. It has also been noted that self-report scales generally consist of items that are transparent in the endorsement of socially undesirable qualities which can further lead to underreporting or denial of problems [34]. Murrie & Cornell [34] asserted that there is a need for more research on "...the veracity of youths' self-reports and their willingness to reveal undesirable information about themselves, in both research and clinical contexts".

With respect specifically to the assessment of psychopathic and CU traits, various investigators have questioned whether self-report measures can be applied in clinical or forensic contexts. As noted by Vincent, Kimonis & Clark [43], self-report measures of youth psychopathic traits are limited by their inability to detect deception, as well as self-awareness of youths. Boccaccini et al. [44], Colins, et al. [45], Dolan & Rennie [46], Kruh et al. [47], Vahl et al. [48] opine that the use of self-report measures may yield different outcomes in applied as opposed to research contexts. The results obtained via study procedures that afford research participants anonymity and/or confidentiality of their test responses may be different than those obtained in situations in which test responses are not confidential and may be used to make legal or rehabilitative decisions about the youths. Even the YPI, which was methodically developed to minimize response bias due to social desirability and lack of insight by creating items that frame psychopathic features as abilities rather than deficits [28], may be vulnerable to response bias in contexts in which legal or therapeutic decisions may be made [28,36,46]. Indeed, Andershed et al. [28] stated that the YPI "...is a research tool (that)...is only intended to be used in research settings where anonymity is guaranteed and where the responses on the instrument have no consequences for the individual". They stated further that "...it is likely that a self-report of psychopathic traits would work in a less valid manner in institutionalized samples than among non-referred youths". Thus, the research base that has greatly advanced the understanding of youth psychopathy and CU traits may have limited application in forensic evaluations where information is not kept confidential from the court and where the tools and methods selected should have empirical support for their use with the appropriate population.

Additionally, while many studies have included only youth self-report psychopathy or CU measures, even studies that have included parent-report measures have not necessarily resulted in more accurate or valid measurement of psychopathy/CU traits. For example Fink et al. [49] found youth self-reports but not parent reports to be significantly correlated with the PCL:YV. The investigators viewed the latter finding as consistent with other literature [50] suggesting that parent report may be less reliable than self-report in the assessment of adolescent youth antisocial behavior and attitudes, which may be associated in part with lower levels of supervision and knowledge of the adolescent’s activities. Thus, the research literature on juvenile psychopathy and CU traits does not support using parent report measures as optimal sources of information to the exclusion of youth self-report measures.

Current Practices of Forensic Mental Health Evaluators

As noted earlier, when evaluators in clinical settings and in juvenile forensic settings assess psychopathic-like traits for diagnostic purposes or as part of risk assessment, with relevance to treatment needs, they typically employ multi-method, multi-informant assessment procedures. I turn now to address some specific current practices of forensic mental health evaluators in conducting evaluations for juvenile courts. It should be noted first that currently existing measures of juvenile psychopathy or CU traits are not psychological tests, per se, or therapeutic instruments that can yield valid cutoff scores for determining whether a particular youth has a psychopathic personality disorder or would continue to have such disorder into adulthood [43]. Among existing measures, the PCL:YV and the informant version of the APSD for children ages 6 to 13 (the two measures considered by Vincent et al. [43], as having sufficient evidence to warrant their use in forensic contexts) are consistent with many of the guidelines for use in forensic contexts as proposed by Heilbrun [51], i.e., they are commercially available with accompanying manuals that describe their development, psychometric properties, and administration procedures; they have demonstrated empirical support for reliability and validity; they are listed in and have been reviewed in Mental Measurements Yearbook [52-53]; they have been reviewed in peer-reviewed journals; and empirical support for their use continues to be studied. They do not incorporate measures of response style, per se, as recommended by Heilbrun [51], and by Heilbrun & Locklair [18], although assessment of response style is considered. Item 1 of the PCL:YV, “Impression Management”, involves the evaluator’s assessment of the youth’s interpersonal style as it may affect the reliability of the information being provided by the youth and also involves comparing such information with information obtained by third party sources. This is consistent with principles of forensic mental health assessment which include use of third-party information in assessing response style [18,19].

Heilbrun [51], Heilbrun and Locklair [18], Heilbrun et al. [19] also proposed that forensic mental health assessments, including the use of psychological testing in forensic assessments, should be relevant to the legal issue under consideration or to a psychological construct underlying the legal issue. A survey
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Such instruments call upon the evaluator to make judgments assessments (the YLS/CMI is often utilized by probation officers). By forensic mental health evaluators in juvenile delinquency static risk factors, and thus potentially amenable to change. The SAVRY conceptualizes such features as dynamic, rather than static needs and planning. The most commonly used risk assessment measures (i.e., PCL:YV or PCL-R) were used always or almost always by one third of the clinicians and 78% of survey respondents reported use of psychopathy measures at least once in a while. However, less than 3% of these survey respondents indicated that their assessment reports state whether the juvenile offender “is or is not a psychopath.” Less than one third indicated that their reports explicitly refer to the juvenile offender having psychopathy related characteristics. On the other hand, many of the survey respondents (44.5%) indicated that they describe psychopathic characteristics without explicitly referring to such characteristics as psychopathic. As noted by Viljoen et al. [54], it would appear that most forensic mental health evaluators who conduct juvenile offender assessments have concerns about the appropriateness of the use of the term “psychopath” as applied to youth. The authors of the PCL:YV [16] decisively eschew use of the diagnostic label “psychopath” when describing youth evaluated with the PCL:YV. They recommend that the Total score be interpreted as a dimensional measure of psychopathic features. They also note that the term “psychopath” is a psychological, rather than a legal construct. In this vein, Vincent et al. [43] opine that “the research suggests that there is currently no evidence that juvenile psychopathy assessments can be used to discriminate youths who will continue to offend violently well into their adult years from youths who will desist in early adulthood.” They suggest that “psychopathic traits in adolescence should be seen as a risk factor that will be dynamic for the majority of youths and, if present, marks the need for intensive treatment and a high likelihood for serious re offending over a period of as long as 3 years.” It would appear from the survey conducted by Viljoen et al. [54] that risk assessment and psychopathy measures with juvenile delinquents are being used primarily with the consideration of more short-term time frames for disposition planning.

Conclusion and Future Directions for Study and Assessment of Psychopathy Traits in Youths

Mental health evaluators who evaluate youths with conduct problems in clinical and forensic contexts may assess CU traits either for diagnostic purposes or as part of a risk assessment for violence or re offending, both of which have relevance to treatment needs and planning. The most commonly used risk assessment instruments for juveniles include items such as callousness, lack of, or low levels of empathy, remorse, or guilt, albeit, such features account only for one or two items on these instruments. The SAVRY conceptualizes such features as dynamic, rather than static risk factors, and thus potentially amenable to change. Risk assessment tools such as the SAVRY are frequently utilized by forensic mental health evaluators in juvenile delinquency assessments (the YLS/CMI is often utilized by probation officers). Such instruments call upon the evaluator to make judgments in their ratings of what are, in essence, one or more CU items contained within such measures, using multiple sources of information. As per the survey conducted by Viljoen et al. [54], reports for court that include juvenile risk assessments almost always include the evaluator’s rationale for risk judgment and they frequently include limitations of the evaluator’s judgments. There are limitations in the accuracy of all risk assessment instruments [55]. To the extent that risk assessment instruments developed for youth have shown strong relationships with general offending and violent recidivism (i.e., the SAVRY, YLS/CMI, and the PCL:YV), none of these instruments have been shown to be perfect in their predictions [56]. In addition to these expert rating risk assessment measures, there is currently an accumulated and continuously developing empirical base of support for construct validity of a few self-report psychopathy or CU measures, albeit, the vast multitude of these studies have been conducted predominantly in research contexts. Forensic evaluators might consider whether or under what conditions judicious use of a self-report CU measure such as the self-report version of the APSD or ICU, both of which were used in developing criteria for the DSM-5 conduct disorder specifier “with limited prosocial emotions”, might be appropriate as one component of a multi-method assessment; and, if so, how to make use of such a measure. As noted also by Viljoen et al. [54], it is not as yet evident how forensic evaluators should communicate information pertaining to psychopathy for juveniles as well as adults.

In looking toward potentially narrowing the gap between research that utilizes self-report measures under conditions of confidentiality and/or anonymity and the suitability of including self-report psychopathy measures in applied contexts, several considerations might be helpful. One is that some published studies (see, for example, [48,57,58]) were based on data that were obtained via standard mental health assessment protocols utilized for clinical purposes in juvenile detention and correctional facilities. In those studies the assessments were not confidential. Archived data were subsequently de-identified before use in research, consistent with relevant ethical guidelines. Such studies demonstrated that, similar to other studies that were conducted strictly for research, measures such as the APSD, ICU, and the YPI were significantly associated with external criteria such as violence and institutional misconduct. The results of such studies are promising. It should be noted, though, that the motivation to underreport might be different for youths who have already been sentenced and placed in a juvenile facility as compared to youths who have been adjudicated delinquent and are currently being evaluated for disposition purposes. A second consideration is that many forensic mental health evaluators include one or more standardized measures of personality and psychopathology, such as the MMPI-A [59] or the MACI [60] that incorporate response style measures. These “built-in” test validity indicators help identify the likely influence of an under-reporting or over reporting response style on the accuracy of the test results. While test scores on the validity scales of the MMPI-A that suggest a youth was very defensive in responding to test items could not be directly extrapolated to a separate self-report measure such as the ICU, such test scores would provide some basis for judgment about the accuracy of information provided by the youth, especially if other sources of information also suggested that the youth was being defensive or deceptive. Ultimately, standardization of
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self-report psychopathy or CU measures with normative data for juvenile forensic groups and with empirical support for the validity of such measures would support their use in forensic assessments. At the present time, consideration might be given to use of the self-report APSD or ICI, or the YPL, as informal, non-scored measures to be used as part of the interview process. That is, after the youth completes such a measure the evaluator might select and query particular responses in order to expand or refine the assessment. Additionally, the need for further research on measures to detect response bias in youth informants, in both research and applied contexts, has been noted [34]. Some studies (see for example [47,61-63]) have used stand-alone measures of social desirability (SD) such as the Marlowe-Crowne Social Desirability Scale [64], Edwards Social Desirability Scale [65], and the Children's Social Desirability Questionnaire [66]. Only the latter scale was developed for youth and its application and validity in forensic contexts has not received adequate study. Further study of this measure in research on juvenile psychopathy might be helpful. The development and validation of brief, stand-alone response style measures, and particularly a scale that can provide a valid measure of underreporting/social desirability in adolescents in forensic contexts, could also be quite helpful in making judgments about the accuracy of information provided by youths via interview and other self-report measures included in assessments. Smith [37] identified the need for test developers to incorporate validity scales to detect response bias in the reports of youths, as well as those of parent and teacher reporters who also are vulnerable to bias (perhaps especially parents of adjudicated delinquents in forensic contexts). Not only is there is no single "gold standard" method or measure of psychopathy, including psychopathy traits, it has also been asserted that there is no "gold standard" approach for applying and interpreting multi-method assessments, though advances are being made toward improving clinical decision making [67]. How to best interpret and integrate discrepant information from different sources remains a challenge in research, clinical and forensic contexts, including the assessment of psychopathy and CU traits in juveniles.

Notes

1. The author developed an exploratory 25-item self-report questionnaire intended to assess CU traits which includes some items that might not suggest an undesirable mode of feeling about situations for some youths who may be higher on the dimension of callousness. Some items incorporate semantics that are blunt and bold. Several items reflect contemporary youth-oriented verbiage and use syntax consistent with how certain youths in American culture express themselves. This scale is available for research purposes upon request to the author.

2. The author developed an exploratory 32-item self-report scale intended as a stand-alone measure for the assessment of positive response bias in youths in contexts where the motivation for positive impression management may be particularly heightened, such as court-ordered evaluation of juvenile delinquents for disposition purposes. The scale is composed of items suggesting denial vs. admission of common human faults, weaknesses, and negative emotions, and assertion of unqualified virtues and good character. Six of the 32 items contain specific reference to a legal context, with mention of court, arrest, or probation. This scale is available for research purposes upon request to the author.

Author Biography

Robert A. Semel, Psy.D. works as a licensed psychologist for the New York State Office of Mental Health at South Beach Psychiatric Center where he conducts Family Court evaluations. I am the sole author of this manuscript. I have no potential conflicts of interest with respect to the research, authorship, and/or publication of this article. I received no financial support for the research and/or authorship of this article.

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