## Child and Adolescent Needs and Strengths (CANS) for Tennessee’s Juvenile Justice Population

***Reform Goals***

The Juvenile Justice Reform legislation adds two new requirements:

1. The use of validated risk and needs assessment in making decisions and recommendations regarding programming and treatment; and
2. The risk and needs assessment tool must periodically undergo a validation study to ensure that the risk and needs assessment is predictive of the risk of reoffending of the population on which the tool is being administered.

***The CANS***

The Tennessee Administrative Office of the Courts (AOC), the Department of Mental Health and Substance Abuse Services (TDMHSAS), and the Department of Children’s Services (DCS) are recommending the Juvenile Justice Child and Adolescent Needs and Strengths (JJ-CANS 2.0) instrument. The Child and Adolescent Needs and Strengths (CANS) instrument was developed to support decision making, including service planning and level of care, as well as to facilitate quality improvement initiatives and to allow for the monitoring of outcomes1. Versions of the CANS are currently being used statewide in 39 states, and at the organizational-level or higher in all 50 states, with applications in child welfare, mental health, juvenile justice, and early intervention2. The JJ-CANS 2.0 assesses child and adolescent functioning in 5 major life domains: strengths, emotional and behavioral needs, risk behaviors, juvenile justice, and trauma experiences.

***Reliability of the CANS***

The CANS has demonstrated reliability. Several roles including clinicians, researchers, and caseworkers have been trained to reliably use the CANS3. The average inter-rater reliability of the CANS is 0.75 with vignettes; the reliability is higher (0.84) with case records and can be above 0.90 with live cases4. Domains within the comprehensive CANS have shown good internal consistency5. The CANS is auditable and audit reliabilities demonstrate that the CANS is reliable at the item level3,4,6.

***Validity of the CANS***

CANS dimension scores have been shown to be valid outcome measures in residential treatment, intensive community treatment, foster care and treatment foster care, community mental health, and juvenile justice programs4. Studies have demonstrated the CANS validity, or the ability to measure youth and their caregiver’s needs and strengths7The CANS assessment has also been used to distinguish needs of youth engaged by juvenile justice and in urban and rural settings8,9.

Validation studies on the development of the CANS has established its ability to predict a number of important outcomes for youth, including:

1. Re-arrest & school suspension8
2. Placement disruption10
3. Psychiatric hospitalization9 & psychiatric rehospitalization11
4. Psychotropic medication use12

***Periodic Evaluation***

The Administrative Office of the Courts and TN’s Dept of Mental Health and Substance Abuse services has partnered with the Vanderbilt Center of Excellence and Vanderbilt University researchers to conduct an ongoing evaluation on the use of the JJ CANS among juvenile justice involved youth. Studies will be conducted to assess the predictive validity specifically with respect to youth recidivism in Tennessee, along with ongoing training of all Court staff to ensure interrater reliability.

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