

Our Mission

The Tourette Association of America is dedicated to making life better for all people affected by Tourette Syndrome and Tic Disorders through efforts that raise AWARENESS; advance RESEARCH and understanding; and provide SUPPORT.



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Tourette Association of America



Resource Development What is Tourette Syndrome? Comprehensive Behavioral Intervention for Tics (CBIT) Tool kits Patient Provider

- Educator
- Law Enforcement
- Children
- Young Adult
- Comic Book Series: Exploring Life with Tourette

These resources are available in pdf on our website, <u>www.tourette.org</u>, and in print form. To have them mailed to you, please email <u>support@Tourette.org</u>!













Types of Tic Disorders

Provision Tic Disorder:

- Formerly known as Transient Tic Disorder
- Presence of motor or vocal tics for less than a year
- ▶ Common in children → ~10-20% prevalence
- Tics resolve within 1 year
- > ~1% of those individuals will have persistent tics for greater than 1 year

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Considerations in Treatment of Tourette Syndrome and Other Tic Disorders

- Most important question is whether to treat!
 - Consider impact of tics on activities, school, social interactions, self-esteem, etc.
- Education is often sufficient
- If treating, goal is tolerable suppression, not elimination of symptoms
- Treatment of tics to appease parents is not recommended
- Treat the most bothersome symptoms first
- Other considerations:
 - Tics wax and wane
 - Any new life event can be associated with worsening of tics
 - Tics typically improve with age



Comprehensive Behavioral Intervention for Empirical Support for CBIT Tics (CBIT) RCT of 126 children ages 9-17 with TS or CTD > Considered first line treatment intervention for bothersome tics ▶ 8 sessions of CBIT during 10 weeks of behavior therapy (n=61) or a control treatment consisting of supportive therapy and education (n=65) A form of Habit Reversal Therapy (HRT) Behavioral intervention with CBIT led to significantly greater decrease in Yale Global Tic Severity Methodology: Scale (24.7 to 17.1) compared with control treatment (24.6 to 21.1); p<0.001 Trains patients to be aware of tics > Significantly more children receiving behavioral intervention compared with those in the control > Trains patients to develop a "competing motor response" when they feel the urge related to group were rated as very much or much improved on the Clinical Global Impressions-Improvement scale (52.5% vs 18.5%, respectively; p<0.001) the bothersome tic Make changes to day to day activities in ways that can be helpful in reducing tics Drop out rate was low at 9.5% (12/126) > Typically offered by psychologists, neuropsychologists, occupational therapists > Treatment gains were durable, with 87% available responders to behavioral therapy exhibiting continued benefit 6 months post treatment > Tourette Association of America has training program for providers Typically one session per week for 8 weeks Piacentini, J., Woods, D.W., Scahill L., Wilhelm, S., Peterson, A.L., Chang, S., Ginsburg, G.S., Deckersbach, T., Dziura, J., Levi-Pearl, S., Walkup J.T., 2010, Behavior Therapy for Children with Tourette Disorder: A Randomized Controlled Trial. Journal of the American Medical Association, 303:1929

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Medical Marijuana – Study #1

- Muller-Vahl KR, Schneider U, Koblenz A, et al (Class II Study):
 - Randomized, double-blinded, cross over study of 12 adults with TS in 2002
 - Single dose THC (5, 7.5mg, or 10mg) vs placebo
 - Tic severity rated over a single day, and cross-over to alternate treatment occurred 4 weeks later
 - Tic severity assed using a self-rating scale (Tourette Syndrome Symptom List) and examiner rating scale (i.e. Yale Global Tic Severity Scale)
 - No significant differences between treatments and clinician-rated measure on the Yale Global Tic Severity Scale (YGTSS)

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Medical Marijuana – AAN Summary and Recommendations

- Cannabis based medications should be avoided in children and adolescents, not only due to the paucity of evidence, but due to the association between cannabis exposure in adolescence and potentially harmful cognitive and affective outcomes in adulthood.
- Compared to placebo, cannabis-based medications are associated with increased risk of short term adverse events → dizziness, dry mouth, fatigue.
- There is limited evidence that THC, dronabinol, is possibly more likely than placebo to reduce tic severity in adults with TS

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