

Early Identification Program for Autism Spectrum Disorder (ASD) in Immigrant and Refugee Children: A Low-Cost Generalizable Model Including Community Providers



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Background

- The RITA-T (Rapid Interactive Screening Test for Autism in Toddlers) is an interactive ASD level II screening test.
- Easy to learn and to administer reliably; it can be completed in less than 10 minutes, and has demonstrable clinical validity.
- Clear cut off scores: <11: low risk; 12-16: medium risk and >16 high risk for ASD.
- Does not rely on language.
- Its kit includes pictures to represent all children and racial ethnicities.

Autism Diagnosis in Toddlers

- Diagnosis of ASD still closer to age 4 years and later in minorities, but signs can be seen as early as 12 months.
- Shortage of diagnosticians: need other systems to improve access.
- There is a need to find generalizable tools and resources for Early Screening for Culturally Diverse and Immigrant children and families.

- The RITA-T has excellent correlation with a diagnosis of ASD.
- It has/is being translated into Arabic, Turkish, Hindi, French, Portuguese, and Spanish.
- Pediatricians, Pediatric Residents, Nurses within practices and at UMass Pediatrics have trained on the RITA-T.
- We have developed workshops, intake forms, and RITA-T fast track clinics.
- With COVID: telehealth RITA-T, modified from RITA-T: maximum score of 20 (vs. 30 for the RITA-T). Clinician directs parents to perform prompts and scores test. Telehealth RITA-T correlates very well with in-person RITA-T.
- A Telehealth version of the RITA-T addresses barriers to access in screening, and allows for a more viable option for many families in the community to seek services.



Objectives

- Our goal is to present on models that are culturally appropriate and scientifically valid.
- Discuss easily integratable models within community settings, while strengthening community systems, partnerships, and trust within families.
- Reduce disparities and improve early identification of ASD by training Community Providers on the RITA-T.

Methods

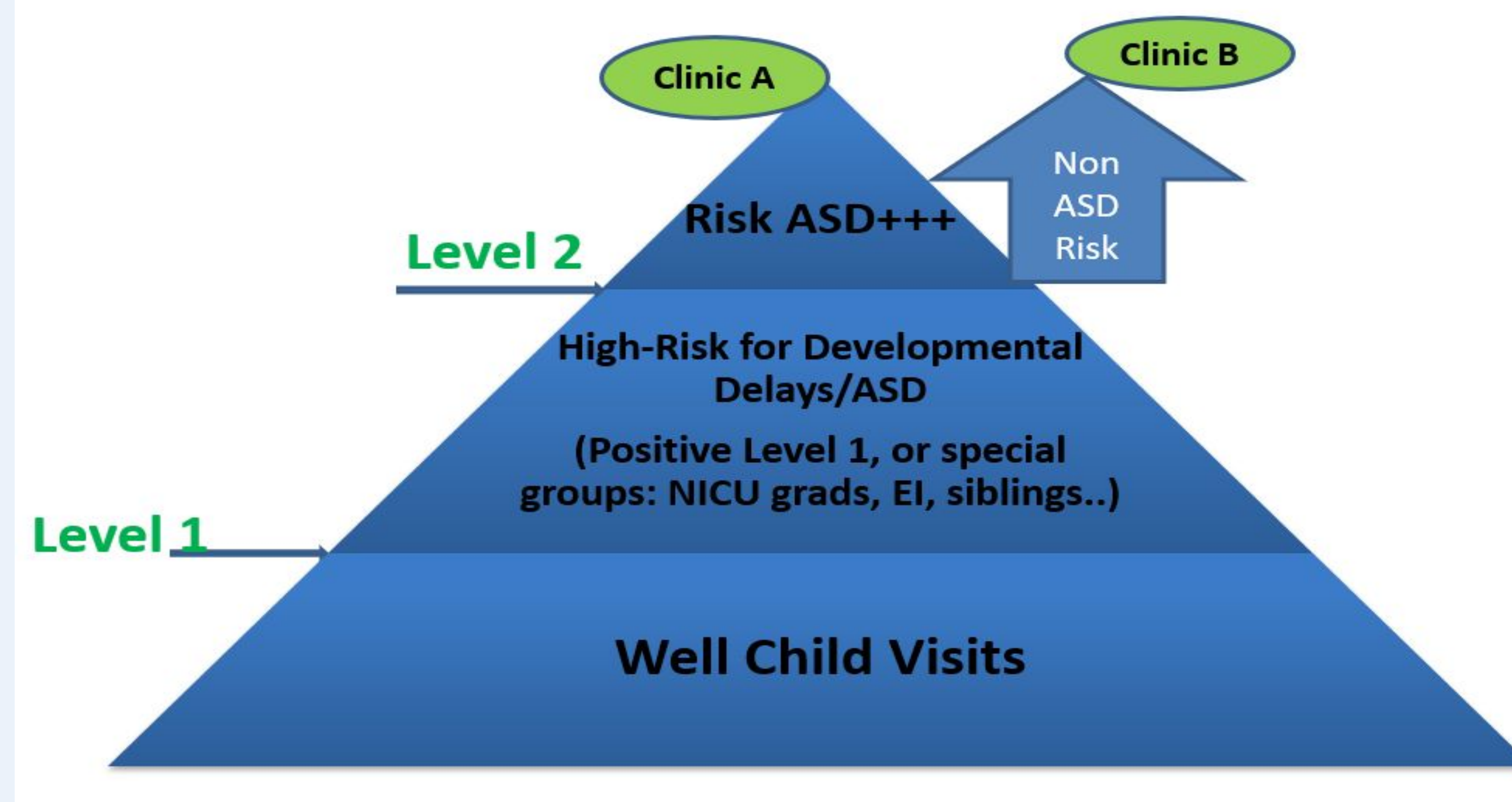
- We present a program that we have been developing over the last 3 years, in collaboration with community early childhood providers in Worcester, Massachusetts (MA).
- We trained providers in Early Intervention (EI) programs on the RITA-T. When a child is suspected to have ASD, they administer the RITA-T, discuss concerns with families, and bring them to be evaluated.
- We have developed a free Toolkit to train on cultural perceptions of ASD and immigration trauma: Project A.N.C.H.O.R (Autism.Network.Culture.Healthy Outcomes. Resilience).

All authors have declared no conflict of interest.
RC is PI on RITA-T but receives no royalties from online training or kits sales.

Diagnostic RITA-T Clinics (Same model by telehealth)

- **Diagnostic evaluation : 1 hour**
 - Family sent intake to bring with them
 - ASD diagnosis has already been discussed with the family
 - EI Provider comes with family most often
 - In Person Interpreter arranged
 - Visits interdisciplinary:
 - DBP and/or Child Psychologist
- **Focused:**
 - History of current concerns
 - Developmental and Medical Hx
 - Observation of play and behavior
 - Autism Testing
 - Counseling about diagnosis
 - Letter for services
 - Medical referrals
 - Follow-up within 1-2 months with Social Work

Two-Level ASD Screening Model:



Culture and Demographics

- Approximately 35% of families in Worcester speak a language other than English, and close to 40% are non-White, with a range of Immigrants and refugees from South America, Nepal, Vietnam, Ghana, Nigeria, and Iraq.
- 22% of residents live below poverty level (MA state: 9.3%).
- Most common languages spoken in the community are Spanish, and African languages.

Project Autism. Network. Culture. Healthy Outcomes. Resilience. (A.N.C.H.O.R) - Toolkit/Content Manual



Toolkit developed by Project A.N.C.H.O.R Team

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Results

- In 3 years, 367 toddlers were evaluated through this program. Almost half were non-White and a third required language interpreters.
- Wait times through this program varied between 2-4 months. We have significantly reduced wait times and disparities in access through these models.

Dissemination and Increasing Collaborations

- Developed material for remote evaluations (on website and free to download): Early Autism Screening Inventory (EASI).
- Developing videos of administration/examples of Telehealth RITA-T, similar to in-person RITA-T course.
- Manual and scoring sheet completed with multiple translations.
- Ongoing trainings with EI, early childhood centers, and primary care.
- Other ways to disseminate further.

Conclusions

- It is essential to find culturally appropriate ways to approach concerns of ASD with families
- Improve generalization to low resources communities, ASD screening tools have to be validated, low cost or free, easy to train and integrate into different settings.
- **To be successful, any such models must collaborate with community-based early childhood workers.**
- We continue to study RITA-T method and collaborate for further generalization. Check us out:
 - <https://www.umassmed.edu/AutismRITA-T/>
 - <https://www.umassmed.edu/DBP-ANCHOR>