

Do I need to establish research reliability on the ADOS-2?

If you plan to use the ADOS-2 for research purposes, you will need to establish reliability on the instrument **before you begin collecting data**. Establishing and maintaining reliability is crucial to maintaining consistency and comparability across research studies on ASD. If you plan to use the ADOS-2 for clinical purposes only, you are welcome, but not required, to establish research reliability on the instrument.

What is the process for establishing reliability on the ADOS-2?

To obtain reliability on the ADOS-2, you must first complete both the Introductory/Clinical training and the Advanced/Research training. Once you have completed the ADOS-2 Advanced/Research Training, you must establish reliability on the instrument **before you begin any data collection for a research project**.

There are two factors in establishing your reliability: 1) showing that you have learned the standardized administration procedures, and 2) showing that you understand coding rules and have achieved at least 80% agreement on the protocol and the algorithm with the STAR Center or an independent trainer. This is accomplished through the following:

1) Demonstrate standardized administration procedures

You must demonstrate your understanding of standardized administration procedures on three separate administrations each for Modules T/1/2 and Modules 3/4. Demonstrations of administration procedures can include:

- Two video recordings of yourself administering two different ADOS-2 modules that you bring to the training workshop for review and feedback
- Administrations of the ADOS-2 you do during the Advanced/Research Training workshop
- Your post-course taped ADOS-2 administrations submitted to us for reliability scoring

2) Establish reliability in coding the ADOS-2

You must reach 80% agreement with the STAR Center or an independent trainer on three administrations of the ADOS-2 Modules T/1/2 and three administrations of ADOS-2 Modules 3/4. Agreement is calculated separately for the diagnostic algorithm and for the protocol in total, and you must achieve 80% agreement on both. If you are working with the STAR Center or an independent trainer to establish reliability, administrations can include:

- Administrations of the ADOS-2 during the Advanced/Research Training
- Your scoring of the administrations on the post-course tape we send home with you after the Advanced/Research Training
- Your post-course taped ADOS-2 administrations submitted to us for reliability scoring

You also may establish reliability with another reliable coder who works with you at your work site, provided you see them on a daily basis. See below for details.

Can I establish reliability on the ADOS-2 with someone in my lab (instead of with the STAR Center or an independent trainer)?

If you work with someone who has previously established reliability on the ADOS-2 with the STAR center or an independent trainer, you can complete the steps of establishing reliability with that person, as long as you are working at the same physical site and have

frequent (i.e., daily) contact to talk about coding and administration issues. To establish reliability with someone at your site, you must achieve 80% agreement in coding with the ADOS-2 reliable examiner on both the protocol and the algorithm across three consecutive administrations of Modules 1/2 and three consecutive administrations of Modules 3/4.

Within these six administrations, all four modules must be represented. Your ADOS-2 reliable examiner also must see you administer all four modules at some point during the reliability process. You and the reliable examiner must double-score administrations (that is, code an administration independently, then check your reliability with one another) until you have established 80% agreement among yourselves on three independently scored administrations of the ADOS.

I am already research reliable on Modules 1-4 of the ADOS. Do I have to re-establish research reliability on Modules 1-4 of the ADOS-2?

Individuals who previously established research reliability on Modules 1-4 of the ADOS are considered to be research reliable on Modules 1-4 of the ADOS-2. However, these individuals are responsible for updating their training on the ADOS-2 through careful review of the new manual and protocols, consensus scoring with other ADOS-2 research reliable examiners, and/or attendance at ADOS-2 trainings and/or booster trainings.

I am already research reliable on Modules 1-4 of the ADOS. How do I establish research reliability on Module T?

Individuals who previously established research reliability on Modules 1-4 of the ADOS can “extend” their research reliability to the new Toddler Module (Module T). This is done by:

- 1) Carefully reviewing all administration and coding procedures in the Module T section of the ADOS-2 manual
- 2) Attending a one-day Clinical/Introductory Module T Training (offered at the STAR Center or by an independent trainer with extensive Module T experience) *AND/OR* studying the Module T video and guidebook available through WPS in the ADOS-2 Training Upgrade Package
- 3) Practicing administration and coding with several toddlers and consensus coding with other research reliable examiners

These steps should all be completed BEFORE using Module T for research purposes.

Once I am research reliable on the ADOS-2, how do I maintain my reliability?

It is essential in any research project to establish procedures for maintenance of reliability. We recommend that you double-score and reassess reliability with other reliable coders for approximately one of every 5-10 administrations of the ADOS-2, depending on how frequently you administer the instrument. It is easy for even very skilled clinicians to "drift" in scoring if there is not frequent discussion and a chance to compare independently made scores. Attendance at "booster trainings" is also helpful in ensuring continued reliability over time.

Once I have completed ADOS-2 Introductory/Clinical Training, can I train someone else?

No. The Introductory/Clinical Training is designed to provide training to individual users only. Completion does not provide the additional materials and experiences required for the skills needed to train others. Further training through the Advanced/Research Training and subsequent reliability process is required before others may be trained (see below).

Once I have established research reliability on the ADOS-2, can I train other people at my site?

After you are reliable with the STAR Center or another independent trainer, you can then train other research group members to reliability who are in the same physical location as you are. Collaborators must be **physically** at the same site. For example, although UCSF and Stanford University may collaborate on projects, they are **not** in the same location. Even though the University of Chicago and Northwestern University are in the same city, they are not the same site. We recommend that, with colleagues at your site, you double-score administrations (that is, code an administration independently, then check your reliability with one another) until you have established 80% agreement amongst yourselves on three independently scored administrations of the ADOS-2. This can include the tapes we have given you. We request that you only train people who are in your immediate research group (who are at the same site as you are and whom you see on a daily basis).

If you choose to establish reliability with someone in your lab as opposed to establishing reliability with the STAR Center or an independent trainer, you are not permitted to then train other people in your lab. Thus, if you need to be able to train other people in your lab, you must complete the research reliability process with the STAR Center or an independent trainer.

Can I train people at *other* sites on the ADOS-2?

If you need to be able to train others outside your lab, you must complete the requirements for becoming a certified independent trainer. Becoming a trainer involves first getting reliable with us, then coming to another training session as a group leader and completing additional reliability tapes. This procedure is relevant both for researchers and for clinicians who would like to lead training workshops. Then we will provide you, at cost, with training materials to train others.

How do I become a trainer on the ADOS-2?

After completing the Introductory/Clinical and the Advanced/Research Trainings for the ADOS-2, and establishing reliability with the STAR Center or an independent trainer on Modules T-4, you may want to complete the additional training to be able to train others at different sites. This involves attending the ADOS-2 Advanced/Research Training again as a Trainer-in-Training. Trainers-in-Training help lead small groups in administering and scoring the ADOS-2 during the training workshop. Trainers-in-Training must also confirm reliability with us on another set of reliability tapes.

Please note that there are very few slots for Trainers-in-Training each year, and we cannot guarantee acceptance into the Trainer- in-Training program. We require that Trainers-in-Training hold a doctoral degree (e.g., PhD, MD) or be in a graduate program moving toward such. We give priority to people who have extensive experience both in administration of the ADOS-2, as well as in assessment of ASD in general. In addition, in order to become a Trainer-in-Training, you must have attended (as a trainee) an Advanced/Research Training hosted by the STAR Center or another designated ADOS-2 Advanced/Research Training site (contact us for more details).