

Supplemental Materials. Sample Cases and Interobserver Agreement

Interobserver Agreement for Cases

*Agreement is based on the proportion of raters who had the same score within 1 point of the median

Case 1, Part 1 (CGI-S)	Rater 1	Rater 2	Rater 3	Rater 4	Rater 5	Agreement*
CGI-A	3	6	4	4	4	80%
CGI-B	1	1	1	1	1	100%
CGI-C	1	1	1	1	1	100%
CGI-D	7	7	7	6	7	100%
CGI-E	5	6	6	6	6	100%
CGI-F	6	5	6	6	6	100%
CGI-G	6	6	6	6	6	100%
Case 1, Part 2 (CGI-I)						
CGI-A	4	3	4	3	4	100%
CGI-B	4	4	4	4	4	100%
CGI-C	4	4	4	4	4	100%
CGI-D	2	2	2	3	2	100%
CGI-E	2	3	3	3	3	100%
CGI-F	2	3	2	3	2	100%
CGI-G	2	2	2	3	2	100%
Case 2, Part 1 (CGI-S)						
CGI-A	4	5	6	4	4	80%
CGI-B	5	5	7	6	5	80%
CGI-C	4	4	6	3	4	80%
CGI-D	5	6	5	6	5	100%
CGI-E	6	6	6	7	6	100%
CGI-F	6	6	6	6	6	100%
CGI-G	7	6	6	6	6	100%
Case 2, Part 2 (CGI-I)						
CGI-A	4	2	4	3	4	80%
CGI-B	4	2	3	3	3	80%
CGI-C	1	2	3	2	1	80%
CGI-D	2	2	3	2	2	100%
CGI-E	2	3	3	3	3	100%
CGI-F	2	2	4	3	2	80%
CGI-G	2	2	3	3	2	100%

Case 1, Part 1 (CGI-S)

Ethan's mom's biggest concern about sleep is that he wakes up every night, in the middle of the night (around midnight to 2 am).

Goes to bed at 7 pm on school nights and non-school nights, and falls asleep in 15 minutes. He rests quietly after he gets in bed, before he falls asleep. Awakens at 6 am.

He sleeps in his mother's bed (dad is in a different country) and grandmother lives in the home as well. Mom states that he takes up a lot of the bed and she can't relax.

When he awakens, he runs around the house, waking up everyone and it usually takes him many hours for him to fall back to sleep. He makes noises and turns on the lights whenever he wakes up.

Mom major concerns about her son's sleep problems is that Ethan won't do well at school as he has a poor attention span. She states that Ethan's sleep problems are very disruptive to her and her mother.

Case 1, Part 2 (CGI-I)

Ethan's mom states that he is having improved night wakings. She has been pushing his bedtime later, until 8-9 pm. He still falls asleep within 15 minutes, resting quietly before falling asleep, and is still sleeping in mom's bed.

He is waking up on average 2 nights a week, once per night, around 1:30 am - he will still stay up all night and wants to turn on the lights and play.

Night wakings are still disruptive to the family but to a lesser extent. Ethan still has a poor attention span at school but is noted to be "much calmer."

Case 2, Part 1 (CGI-S)

Erica's mom's biggest concern about her sleep is that she engages in self-injurious behavior during the day when she doesn't sleep well.

Erica goes to bed around 8 pm and usually takes an hour to fall asleep but may sometimes be awake until 10 pm. She struggles to fall asleep, pulling on hair, kicking feet, pushing her feet in and out against the bed. She falls asleep in her own bed -- her mother has put a mattress next to her bed to lie down in while Erica is falling asleep (side-by-side).

Erica wakes up every night, about 1-3 times per night, around 2-4 am. She is awake for 15-60 minutes on average. She will sob and scream if parents are not in the room and if her parents are in the room, she will come to her parents. Her mom will respond by having Erica roll into her own bed and fall asleep.

Mom is very concerned about the "emotional aspects" of Erica's sleep as she feels they are contributing to her self-injurious behavior. She states that Erica's waking up is very disruptive to the family (wakes up mom, dad, and sister).

Case 2, Part 2 (CGI-I)

Mom's biggest concern about sleep is night wakings, which she states are better but still present. Erica is going to bed at 8 pm ("if do routine right") and it takes her 20 minutes to fall asleep. She is restless, banging feet, twirling hair, and flipping over in bed while settling to go to sleep. Erica still sleeps in her own bed with mother in a mattress next to her bed to lie down in while Erica is falling asleep (side-by-side).

She wakes about 5 times a week, 1 time average per night, around 1-3 am. She will stay awake a variable amount of time- depends on how quickly mom arrives. Ranges from 3-30 minutes most nights. During this time she will cry, fuss, kick, and move around. Mom is present but tries to give her minimal attention.

Mom is still concerned about Erica's self-injurious behavior but feels that autism is contributing. She states Erica's waking up is better but still disruptive.