



The INTERGROWTH-21st Project Neurodevelopment Assessment

The INTER-NDA

Name of child: _____

Date of birth: __/__/____

Date of assessment: __/__/____

Name of assessor: _____

No.	Item	Observed Performance				
1	Builds a tower of 5 cubes <i>(trials=3, demonstration=3)</i>	5 cubes	3-4 cubes	2 cubes	No attempt	Unable to assess
2	Names 4 colours when asked to do so <i>(trials=1, demonstration=0)</i>	Names 4 colours	Names 3 colours	Names 1 or 2 colours	Does not name any colour	Unable to assess
3	Matches 3 cubes of same colours when requested to do so <i>(trials=1, demonstration=1 of one colour)</i>	Matches 3 colours	Matches 2 colours	Matches 1 colour	Does not match any colour	Unable to assess
4	Hands the examiner one cube when asked to do so (Examiner says "Please give me one cube" & keeps palm open for 5 seconds after child has handed over 1 cube) <i>(trials=1, demonstration=0)</i>	Hands only one block within 5 seconds	Hands only one block in more than 5 seconds	Hands two or more blocks	Does not hand any block / No attempt	Unable to assess
5	Puts the spoon in the cup when asked to do so <i>(trials=5, demonstration=0)</i>	Puts the spoon in cup in ≤ 3 trials	Puts the spoon in cup in 4-5 trials	Takes the spoon or the cup but does not complete action	No attempt	Unable to assess
6	Matches shapes on board <i>(trials=5, demonstration=partial – removal only)</i>	All shapes in ≤ 3 trials	All shapes with repeated demonstration i.e. 4-5 trials	One or two shapes in 4-5 trials	No attempt	Unable to assess
7	Matches shapes on rotated board <i>(trials=5, demonstration=partial – removal only)</i>	All shapes in ≤ 3 trials	All shapes with repeated demonstration i.e. 4-5 trials	One or two shapes in 4-5 trials	No attempt	Unable to assess

8	Points correctly when asked “Where is the door/entrance to the room?” <i>(trials=5, demonstration=0)</i>	Identifies door correctly in ≤ 3 trials	Identifies door correctly in 4-5 trials	Attempts, but does not identify door	No attempt	Unable to assess
9	Puts a raisin precisely inside a small opening in a bottle <i>(trials=1, demonstration=1, test both hands)</i>	Precise release of raisin into bottle with each hand	Clumsy release, raisin falls out of bottle with one or more hand	Attempts but unsuccessful release with one or more hand	No attempt	Unable to assess
10	Drinks water from cup/bottle/sippy cup when placed in front of child <i>(trials=1, demonstration=0; maternal recall if observation not possible)</i>	Drinks water from cup/sippy cup without spilling	Drinks clumsily & spills	Attempts but unsuccessful	No attempt	Unable to assess
11	Looks towards an object located across the room when pointed at by the examiner <i>(trials=5)</i>	Looks or points at object in ≤ 3 trials	Looks or points at object in 4-5 trials	Looks at the wrong object, or attempts but cannot identify object	No attempt	Unable to assess
12	Pretends to drink from a toy cup when placed in front of him/her <i>(trials=2, demonstration=1 if not spontaneous on first attempt)</i>	Spontaneously	After 1 demonstration	Partial attempt after 1 demonstration	No attempt	Unable to assess
13	Able to make a cup of tea with the toy tea set when requested by examiner (Examiner says “Can you make a cup of tea?”) <i>(trials=2, demonstration=1 if not spontaneous on first attempt)</i>	Spontaneously, with pouring motion	After 1 demonstration	Partial attempt after 1 demonstration	No attempt	Unable to assess
14	Feeds doll when requested to (Examiner says “Can you give the dolly some tea?”) <i>(trials=2, demonstration=1 if not spontaneous on first attempt)</i>	Spontaneously	After 1 demonstration	Partial attempt after 1 demonstration	No attempt	Unable to assess
15	Imitates straight horizontal scribble <i>(trials=5, demonstration=5)</i>	≤ 3 trials	4-5 trials; with difficulty	Attempts (hold crayon)	Cannot hold crayon	Unable to assess
16	Identifies glitter bracelet under correct washcloth <i>(trials=5, demonstration=0, test both sides)</i>	Finds bracelet correctly in ≤ 2 trials on both sides	Find bracelet correctly in 3 trials or on one side only	Find bracelet correctly in 4-5 trials or on one side only	Does not find bracelet or no attempt	Unable to assess
17	Correctly identifies object groups using plurals <i>(concurrent observation)</i>	Uses 5 plurals	Uses 3-4 plurals	Uses 1-2 plurals	Does not use any plurals	Unable to assess

18	Asks for toilet by gesture or verbally (<i>maternal recall</i>)	Always	Occasionally	Partial (only for bowel movement)	Never	Unable to assess
19	Runs (<i>maternal recall</i>)	Runs steadily	Attempts	Walks only	Walks with support	Unable to assess
20	Throws a ball very near (<i>trials=1, demonstration=1; test both hands</i>)	Good release	Unsteady release	Attempts	No attempt	Unable to assess
21	Kicks ball (<i>maternal recall</i>)	Kicks ball with knee flexed	Runs after ball & attempts kicking it	Walks and touches ball with foot	No attempt	Unable to assess
22	Climbs upstairs holding rail, 2 feet/stair or in adult fashion (<i>maternal recall</i>)	Climbs stairs alone steadily	Climbs stairs alone unsteadily	Climbs stairs with help (uses railing, holds adult's hand)	No attempt	Unable to assess
23	Uses 2-4 syllable babble such as dada, mama but not specifically to anything or any person (<i>concurrent observation</i>)	Spontaneously	Mimics	1 syllable babble e.g. ba, ma, da	None	Unable to assess
24	Use two words together (<i>concurrent observation</i>)	Two words, appropriate use	Two words, inappropriate use	One word, appropriate use	No attempt	Unable to assess
25	Indicates by gesture to say no (<i>concurrent observation or maternal recall</i>)	Indicates verbally or by definite gesture all the time	Indicates verbally or by definite gesture some of the time	Attempts, but incomplete indication	No attempt	Unable to assess
26	Use of a pronoun e.g. me, my, she, he, it, I (<i>concurrent observation</i>)	≥1 pronoun in correct context	≥1 pronoun, incorrect use	Use of proper names but not pronouns	No use	Unable to assess
27	How many words does the child use during the assessment other than mama/dada (<i>concurrent observation</i>)	≥8 words	6-7 words	4-5 words	≤3 words	Unable to assess
28	How many sentences of 3 words or more does the child use during the assessment? (<i>concurrent observation</i>)	≥2	1	≥1 two word utterance	None	Unable to assess
29	In how many instances does the child follow on a topic of conversation providing new information? (<i>concurrent observation</i>)	At least one, using ≥ 2 words, providing correct information	At least one, uses single words, provides correct information	Uses any number of words, provides incorrect information	Does not follow up on conversations	Unable to assess

30	Combines word and gesture when asked <i>(Do not demonstrate, trials=3, use different example if mother says child does not know the one you are asking)</i>	Combines word and gesture completely and appropriately	Combines word and gesture completely but inappropriately	Combines word and gesture incompletely and inappropriately	Does not combine a word and gesture	Unable to assess
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What is the child's native (first) language? _____

What is the language in which the assessment is being conducted in? _____

Does the child speak/understand any languages other than his/her native (first) language? _____

How often were the following behaviours in the child during the assessment?				
31	Positive Affect	Never or rarely	Some of the time	Most of the time
32	Exploration	Never or rarely	Some of the time	Most of the time
33	Ease of engagement	Never or rarely	Some of the time	Most of the time
34	Cooperativeness	Never or rarely	Some of the time	Most of the time
35	Adaptability to change	Never or rarely	Some of the time	Most of the time
36	Distractibility	Never or rarely	Some of the time	Most of the time
37	Negative Affect	Never or rarely	Some of the time	Most of the time

Additional information:

Child behaviour Questionnaire:

Instructions to the caregiver: Please fill out this form to reflect *your* view of your child's behaviour, even if other people might not agree. Feel free to write additional comments beside each items. Please answer all questions.

38	Likes playing with other children	Not true	Sometimes true	Often true
39	Can't concentrate, can't pay attention for long	Not true	Sometimes true	Often true
40	Can't sit still, restless or hyperactive	Not true	Sometimes true	Often true
41	Disturbed by any change in routine	Not true	Sometimes true	Often true
42	Nervous movements or twitching	Not true	Sometimes true	Often true
43	Shows panic for no good reason	Not true	Sometimes true	Often true
44	Poorly coordinated or clumsy	Not true	Sometimes true	Often true
45	Quickly shifts from one activity to another	Not true	Sometimes true	Often true
46	Rapidly shifts between sadness and excitement	Not true	Sometimes true	Often true
47	Sudden changes in mood or feelings	Not true	Sometimes true	Often true
48	Sulks a lot	Not true	Sometimes true	Often true
49	Upset by new people or situations	Not true	Sometimes true	Often true
50	Wanders away	Not true	Sometimes true	Often true
51	Whining	Not true	Sometimes true	Often true
52	Worries	Not true	Sometimes true	Often true
53	Responds well to affection	Not true	Sometimes true	Often true