

**Data Set Name:** Autism Spectrum Disorder Screening Data for Toddlers in Saudi Arabia

**Date:** July, 16, 2022.

This data set contains screening data of toddlers (aged 12-36 months) living in Saudi Arabia regions who have and do not have Autism. We collected the data using Online Questionnaire by Google Forms. The Questionnaire consists of an Arabic translation of Q-CHAT-10 Questions and other characteristics of individuals completing the test, such as age, gender, region, and whether there is a family member with ASD history. In addition to, who is conducting the test.

**Quantitative Checklist for Autism in Toddlers (Q-CHAT-10):**

	Questions	A	B	C	D	E
1	Does your child look at you when you call his/her name?	Always	Usually	Sometime	Rarely	Never
2	How easy is it for you to get eye contact with your child?	Very easy	Quite easy	Quite difficult	Very difficult	Impossible
3	Does your child point to indicate that she/he wants something ? (e.g. toy that is out of reach)	Many times a day	Few times a day	Few times a week	Less than once a week	Never
4	Does your child point to share interest with you ? (e.g. pointing at an interesting sight )	Many times a day	Few times a day	Few times a week	Less than once a week	Never
5	Does your child pretend ? (e.g. care for dolls, talks on a toy phone)	Many times a day	Few times a day	Few times a week	Less than once a week	Never
6	Does your child follow where you are looking ?	Many times a day	Few times a day	Few times a week	Less than once a week	Never
7	If you or someone else in the family is visibly upset, does your child show signs of wanting to comfort them? (e.g. stroking hair, hugging them)	Always	Usually	Sometime	Rarely	Never
8	Would you describe your child's first word as :	Very typical	Quite typical	Slightly unusual	Very unusual	My child doesn't speak
9	Does your child use simple gestures ? (e.g. wave goodbye)	Many times a day	Few times a day	Few times a week	Less than once a week	Never
10	Does your child stare at nothing with no apparent purpose ?	Many times a day	Few times a day	Few times a week	Less than once a week	Never

**Q-CHAT-10 Scoring:**

- In (A1-A9), if the answer was in in columns C, D or E for questions 1-9 answers in Q-CHAT-10, the question is given the number "1".
- In (A10), on the other hand, receives a "1" if the answer is in columns A, B or C.
- If the child scores more than 3 points of the ten questions, the child has potential ASD traits; otherwise, no ASD traits.

### Features collected and their descriptions:

Feature	Type	Description
A1: Question 1 Answer	Binary (0, 1)	The answer code of the question based on the screening method used
A2: Question 2 Answer	Binary (0, 1)	The answer code of the question based on the screening method used
A3: Question 3 Answer	Binary (0, 1)	The answer code of the question based on the screening method used
A4: Question 4 Answer	Binary (0, 1)	The answer code of the question based on the screening method used
A5: Question 5 Answer	Binary (0, 1)	The answer code of the question based on the screening method used
A6: A6: Question 6 Answer	Binary (0, 1)	The answer code of the question based on the screening method used
A7: Question 7 Answer	Binary (0, 1)	The answer code of the question based on the screening method used
A8: Question 8 Answer	Binary (0, 1)	The answer code of the question based on the screening method used
A9: Question 9 Answer	Binary (0, 1)	The answer code of the question based on the screening method used
A10: Question 10 Answer	Binary (0, 1)	The answer code of the question based on the screening method used
Region	String	List of Saudi regions
Age	Number	Toddlers (months)
Gender	String	Male or Female
Screening Score	Number	1-10 (the final score obtained based on the scoring algorithm of the screening method used. Less than or equal 3 no ASD traits; > 3 ASD traits)
Family member with ASD history	Boolean (yes or no)	Whether any immediate family member has a ASD
Who is completing the test	String	Parent, other
Class	Number	0 or 1 (0 : no ASD traits, 1: ASD traits)