

Professional survey - final

Identification, diagnosis and early intervention for young children with autism spectrum disorder (ASD)

A survey study to improve support for young children with ASD

Before you respond to the survey, we want to explain the reason for this research and what it will mean for you. Please take the time to read this information carefully. For more information, do not hesitate to contact Ricardo Canal (rcanal@usal.es).

This survey is designed to collect information from people who have or have recently had any direct involvement with screening, diagnosis or treatment services for young children under 6 years of age with ASD. Direct involvement means you are a professional who currently works, or has worked in recent years, in the field of autism and knows firsthand the kind of services provided to children under 6 years of age in their community.

The objective of the survey is to assess the opinion of each of the respondents about the clinical services for early detection, diagnosis and treatment for children with ASD under 6 years of age. More specifically, the aim is to gather information about the personal experiences that the respondents have had in relation to these issues, including age of identification and diagnosis; demographic characteristics of respondents; opinions on the organization of services for young children with ASD; and suggestions on ways to improve these type of services.

Ethics approval has been given by the University of Salamanca. Copies of the ethics approval letter are available if you wish to see them.

If you provide personal information this will only be used to contact you in case we need more detailed information or a clarification. Completing the survey will take approximately 15 minutes.

Thank you for taking the time to read this Information. If you wish to complete this survey, please check all the following items

Please check all the following items:

I have read and understood the survey information sheet
I understand that all data collected from this survey will be anonymously coded and stored confidentially and securely
I am willing to take part in this survey

If you wish to complete this survey, please click "I agree to participate" to continue

Ιa	gree to participate
0	Yes
O	No



BACKGROUND INFORMATION The questions in this initial section will ask you about your gender, where you work, your age, your job, and two more questions about your experience with children with autism.

1. How old are you?
2. GenderO MaleO Female
• Female
3. What country and city do you work in?
Country
City
4. How many people live in the municipality where you reside?
O Less than 10.000.
O Between 10.001 to 50.000.
O Between 50.001 to 150.000.
O Between 150.001 to 1.000.000.
O More than 1.000.000.
5. What job or career title fits you best? (Select only one, whichever is your main job)
O Counsellor
O Department head or chief
O Director of an organization
O General practitioner
O Psychiatrist
O Nurse
O Other medical professional, please specify
O Psychologist
O Social worker
O Teacher
O Teaching assistant
O Mental health therapist
O Physical or occupational therapist
O Other, please specify
6. Do you work or have you worked in recent years with children with ASD under six
years?
O Yes
O No



 7. How many years in total have you been working in jobs that brought you into contact with young children with autism (younger than 6 years old)? Q < 1 year D 1 - 3 years D 3 - 5 years D > 5 years
DETECTION In this section you are going to answer questions about the process of detecting the child's difficulties with ASD before knowing the diagnosis. After this segment, there will be another one specific for the diagnostic process.
 8. Do you participate or have participated in the last 6 years in an ASD early detection program? Yes No
We would like to contact you directly so that you can describe the program in detail. Can you provide us with an email address?
We would like to contact someone directly involved in the ASD early detection program. Could you provide us with an email address to get more details on how the detection is carried out in your organization?
 9. Does the centre / institution where you work provide any specific services for early detection of children with ASD? Yes No
Please specify (You can select more than one option): Training for awareness raising for families Awareness aimed at professionals Developmental surveillance Search for early signs during routine consultations Application of a standardized questionnaire. Name of the questionnaire
Other, please specify
10. Does the centre/organization provide information about early ASD signs and/or early detection programs running in the area or region where your centre provides services?YesNo



Please specify (select at least one from each row)

Target audience	☐ Families	□ Professionals	☐ Media	□ Other				
Promoting institutions	Educational services	☐ Health services	☐ Social services	☐ Other				
Resources	Written material	Meetings and seminars	□ Posters / brochures	☐ Other				
Most used media for disseminating information	☐ Email / website	☐ Post mail	☐ Phone	☐ Other				
Frequency	☐ Only once	☐ Seasonal (campaigns)	□ Permanently	☐ Other				
If you have selected other target audience, please, specify If you have selected other promoting institutions, please, specify If you have selected other resources, please, specify								
If you have seled	cted other media fo	or disseminating the	information, please	, specify				
If you have selec	cted other frequenc	cy, please, specify						
11. Does your centre/organization collaborate with any other agencies/institutions in your region or country of residence to improve ASD early detection?YesNo								
•	t an appointment a month r more	asses, on average, f at your centre/servic	•	st concerns				



your institution usually identify ASD early signs in the population area where you are
attending?
O Less than 12 months
O 13-18 months
O 19-24 months
O 25-32 months
O 33-39 months
O 40-46 months
O 47-53 months
O 54-60 months
O 61 months or more
O I do not know
14. Does your region or country have any practice guidelines to serve people with autism in the detection and identification phase?YesNo
15. Which professionals (most frequently) assist the children during the process of identifying the first signs in your service/institution? You can select more than one option Paediatrician Psychologist Psychiatrist Nurse Neuropediatrician Kindergarten/school teacher Other. Please specify:
16. In the absence of an ASD screening program in your region or country: please
describe briefly how early ASD signs are detected in young children

13. Do you have information on the average age at which you or other professionals in



17. How adequate do you consider the detection process?

	Extremely adequate	Moderately adequate	Slightly adequate	Neither adequate nor inadequate	Slightly inadequate	Moderately inadequate	Extremely inadequate
Detection process followed by the diagnostic evaluation	O	•	•	•	•	•	•
The staff's qualifications who attend the child during the detection process	0	•	•	•	•	•	•
The degree to which professionals involved in the process listen and take into account the concerns of parents	0	•	•	•	•	•	•

18. If you have any suggestions about the detection process of early ASD signs, please specify

DIAGNOSIS In this section you will be asked questions about the diagnostic process of ASD. We are interested in your perception of the centers or institutions that have cared for the child during the diagnostic process. The questions incorporated in this section refer to all professionals and institutions that have been directly involved in the diagnostic process of children with ASD.

19.	Are you directly involved or have you been involved in the last 6 years in
cor	nducting diagnostic processes for children with ASD?
O	Yes
O	No

We would like to contact you directly for more details on how the diagnostic process is carried out in your organization. Can you provide us with an email address?



We would like to contact someone directly involved in the diagnostic process. Could you provide us with an email address to get more details on how the diagnostic process is carried out in your organization?

20. What are the institutions/services that most frequently provide diagnoses of ASD in your country?

	Psychiatry	Pediatrics	Neurology	Psychology	Other
Public Hospital/Centre		_			
Private Hospital		٥		٥	
Local/regional parent organization					<u> </u>
Private consultation with a specialist					
Other. Please, specify		٥			

	1 7							
	Conduct diag Refer clients	entre/service (Y nostic assessn to other service luations conduc	nents es to make a d	iagnosis	•			
aut	ism to your se The pediatric The pediatric Teachers or s	rvice/institutior ians or nurses ians or nurses	n? You can sel from public he from private he	ect more than a alth services ealth services	ge with autism one option:			
	school, etc.) Teacher or school staff from private education services (nursery, kindergarten, school, etc.) Prefessionals from public again, services (agancies or other)							
	Professionals from public social services (agencies or other) Professionals from private social services (agencies or other) Other. Please, specify							
dia	gnosis? You o Paediatrician Psychologist Psychiatrist Nurse Neuropediatr	can select more	than one opti	on:	during the prod	ess of		



	nust take part in es	have a specific red the diagnostic pro	•			
□ Pa □ Ps □ No □ No □ Kir	e, specify. You onediatrician sychlogist sychiatrist urse europediatrician hdergarten/schoher. Please, spe	ool teacher	an one option			
proces O Ye O No	ss? es	require that any sp can select more th		t be used durin	g the diagnostic	
Autism Symptomatology	☐ Autism Diagnost ic Observat ion Schedul e (ADOS- 2)	☐ Social Communic ation Questionna ire (SCQ)	☐ Autism Spectrum Quotient (AQ)	□ Autism Diagnost ic Interview Revised (ADI-R)	□ Social Responsive ness Scale (SRS)	☐ Other
IQ measures	Wechsler Prescho ol & Primary Scale of Intelligen ce (WPPSI- R)	☐ Mullen Scales of Early Learning (MSEL)	☐ Merrill- Palmer- Revised Scales of Developm ent (MP- R)	☐ Leiter Internati onal Perform ance Scale- R (Leiter- R)	☐ Bayley Scales of Infant Developmen t (BSID-II/III)	□ Other
	☐ Vineland		Ctrongths			

■ Strengths

&

Difficulties

Questionn

aire

(SDQ)

☐ Conners'

Rating

Scale

(CRS)

□ Other

□ Other

If you have selected other instrument for autism symptomatology, please specify

☐ Child

Behaviour

Checklist

(CBCL)

Adaptive

Behavio

ur

Scales

(VABS-

II)

Behaviour &

Comorbid traits



If you have selected other instrument for IQ measures, please specify

If you have selected other instrument for behaviour & comorbid traits, please specify

26. Do you know the average age of the children to whom a diagnosis of ASD occurs in
your centre / service?
O Less than 12 months
O 13-18 months
O 19-24 months
O 25-32 months
O 33-39 months
O 40-46 months
O 47-53 months
O 54-60 months
O 61 months or more
O I do not know
27. Do you know how much time passes, on average, from the first meeting with the specialist on ASD detection until the child receives a diagnosis of ASD?
O Less than 1 month
O 1-2 months
O 3-4 months
O 5-6 months
O 7-8 months
O 9-10 months
O 11 months or more
O I do not know
28. Does your centre/service give information to the family after the ASD diagnosis? O Yes
O No
Please, specify. Check the box of the aspects on which parents usually receive appropiate or sufficient information. You can select more than one option Medical needs (specialists, medicine, genetic counselling) Educational needs (centres, support) Social needs (organizations, family support) Materials (bibliography, agencies, web pages) Other. Please specify
29. Do you follow a classification of mental disorders manual for the diagnosis of children with ASD?Yes
O No



30. How adequate do you consider the diagnostic process?							
	Extremely adequate	Moderately adequate	Slightly adequate	Neither adequate nor inadequate	Slightly inadequate	Moderately inadequate	Extremely inadequate
The time passed since the first suspicion of developmental problems until the confirming diagnosis	0	•	0	0	0	0	•
The staff's qualifications who attend							

O

O

O

0

O

0

O

O

Please, specify. You can select more than one option

O

0

☐ Other. Please specify _____

□ DSM-IV-TR□ DSM-5□ ICD-10

the children

during the diagnostic process The evaluation

process and diagnosis

O

O

31. If you have any suggestions for the diagnostic programs, please specify

0

0

BIOMARKERS Biomarkers in the process of detection and diagnosis



32. Do you think it is feasible?

02. Bo you min	Yes, we Yes, but this Yes, but I No, but I No,				
	already do this	is currently not common practice	don't think this would be useful	believe this would be useful	don't think this would be useful
To use EEG in the early detection of ASD?	O	O	O O	O	O O
To use MRI (under sedation) in the early detection of ASD?	0	•	•	•	•
To use blood assessment (e.g. to test for immune system parameters, hormone levels) in the early detection of ASD?	•	O		•	•
To use urine samples (e.g. to assess metabolic parameters) in the early detection of ASD?	0	•	•	•	•
To use a neonatal blood draw for bilirubin testing in the early detection of ASD?	•	•	•	•	•
To use eye tracking (e.g. to assess attention) in the early detection of ASD?	0	•	•	•	•
To use a motor assessment in the early	O	0	0	0	0



detection of ASD?					
To use questionnaires to assess temperament characteristics in the early detection of ASD?	0	•	•	•	•

Please provide your personal email if you want to contact us for further information

EARLY INTERVENTION In this section of the survey you will be asked about the type and quantity of Early Intervention services in your region / country

	Are there any regional / national reference service or specialized centres for ASD ly intervention in your region or country? You can select more than one option
O	Yes. Please, specify
	No. This type of services are carried out by general early intervention teams for all types of children with developmental difficulties
O	There are no early intervention services for ASD
inte	Are you a member or have you been a member in the last 6 years of an early ervention team that serves children with ASD? Yes No

We would like to contact you directly so that you can describe the early intervention program you are conducting for children with ASD in detail. Can you provide us with an email address?

We would like to contact someone directly involved in the ASD early intervention program. Could you provide us with an email address to get more details on how the intervention is carried out in your organization?



35. Please indicate some of the fundamental principles your early intervention model for children with ASD is based on (e.g., parent involvement, based on natural contexts, using behavioral methods, individualized objetives, etc.)?
1 2 3 4 5 6 7
36. What is the average age at which your centre often stars early intervention for children with ASD? O Less than 12 months O 13-18 months O 19-24 months O 25-32 months O 33-39 months O 40-46 months O 47-53 months O 54-60 months O 61 months or more O I do not know
 37. Do you know how much time passes from the children's diagnosis until the intervention program starts? Q Less than 1 month Q 1-2 months Q 3-4 months Q 5-6 months or more Q I do not know
38. Would you recommend any particular treatment methods for individuals with autism? O Yes. Please specify O No
Please, specify the reason (You can select more than one option) Because in our team we are trained in that model of intervention Because it is based on the evidence Because we consider it appropriate for children with ASD Because it is the most used in our region / country Other reasons (specify)
39. How many intervention sessions and time could the children receive weekly in your

service / centre?



 40. How are the intervention sessions in your service / centre? (You can select more than one option) In group Individual Other. Please, specify
 41. What is the level of parent participation in the intervention programs in your service / centre? Very active Active Occasional participation Parents hardly participate
Please, explain why
42. Does your service / centre give information to the family about the ASD intervention program?YesNo
Please, specify the type of information (You can select more than one option) Information on evidence of program results Information on the suitability of the program to the characteristics of the child Information on the economic cost of the program Information about how parents will be involved Information about the child's progress Other. Please, specify
 □ Information on the economic cost of the program □ Information about how parents will be involved □ Information about the child's progress



43. How adequate do you consider the intervention process?

	Extremely adequate	Moderately adequate	Slightly adequate	Neither adequate nor inadequate	Slightly inadequate	Moderately inadequate	Extremely inadequate
The number of sessions that the child receives	0	0	0	•	•	•	•
The level of parents' participation in the intervention sessions	0	•	•	•	•	•	•
The information that the parents received about the intervention programs	•	•	•	•	•	•	•

44. If you have any suggestions for early intervention programs, please specify