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An EU Strategy for Autism to leave No One Behind

Introduction to the ASDEU programme and preliminary results of studies into prevalence and cost

Manuel Posada on behalf the ASDEU network European Parliament

Brussels, September 25th, 2018











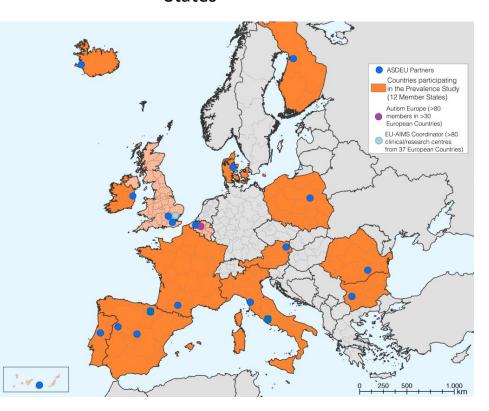
Participant organization name	ACRONYM
Medical University of Vienna (Austria)	MUW
Ghent University (Belgium)	UGent
Bulgarian Association for Promotion of Education and Science (Bulgaria)	BAPES
University of Toulouse 2 Jean Jaurés UT2J (France)	UTM
Aarhus University (Denmark)	AU
Dublin City University, School of Nursing and Human Sciences (Ireland)	DCU
The State Diagnostic and Counselling Centre (Iceland)	SDCC
The IRCCS Stella Maris Foundation (Italy)	SMF
University of Oulu (Finland)	OULU
University of Warsaw (Poland)	UW
National Health Institute Doutor Ricardo Jorge (Portugal)	INSA
Victor Babes National Institute of Pathology (Romania)	INCDVB
Universidad de Salamanca (Spain)	USAL
Instituto de Investigación de Enfermedades Raras, Instituto de Salud Carlos III (Spain)	ISCIII
Fundación Española para la Cooperación Internacional, Salud y Política Social (Spain)	FCSAI
Fundación Bio-Advance (Spain)	Bio-Advance
Autism Europe	AE
King's Colleague of London (United Kingdom)	KCL
National Autistic Society (United Kingdom)	NAS
The London School of Economics and Political Science (United Kingdom)	LSE
Policlinica Gipuzkoa	PG
Instituto Superior de Sanita, Italy	ISS





ASDEU CONSORTIUM

22 partners 14 European Member States





Framework for action: clinical practice and European advocacy

Human framework underlying :"ASD: Ten Tips to Support Me" (Fuentes, 2014)

Overall strategic objective: to improve the quality of life of individuals and families affected by ASDs

ASD is an emerging public health issue

- United Nations
 http://www.un.org/ga/search/view_doc.asp?symbol=A/RES/62/139
 - WHO
 http://www.who.int/mental_health/evidence/m
 hGAP_intervention_guide/en/index.html

-CLINICAL PERSPECTIVES

Autism Spectrum Disorders: Ten Tips to Support Me

Joaqu in Fuentes,

In Parameter for the Assessment and Trainment Collabor and Adoptions With Assessment and Collabor and Adoptions With Assessment Collabor and Adoptions With Assessment Collaboration and Adoptions and Adoptions and Adoptions with Assessment Collaboration and Collaboration according to the Colla

AUTISM SPECTRUM DISORDERS: 10 TO

 I am not "autistic." I am first, foremost, an always a person, a student, a child, and I hav

JOSENS OF THE AMERICAN ACCOUNT OF CHIE & ASSESSED FINE VOLUME SS. NUMBER 11. NOVEMBER 2014 autim. Do not confuse me with my condition. And, please, do not use the term in a negative or inconsiderate way. I deserve to be respected.

I am an individual. Having autism does not

I aim an individual. Having autism does not make me the same as other people with autism. Make an effort to know me as an individual, to understand my strengths, my weaknesses, and me. Aak me—and my friends and my family, if I cannot reply about my dreams. I doeseve services, just like all children. Ser-

vion for me login antly. Autismis—or it will be, when ecopytic—a public haulth issue in many countries of the world. There are instruments to scene it. They should be applied in the framework of screening for other developmental disabilities. If you start soon, my life will be different And remember that about one quarter of my abbings will have autism or other problems. High them they are an important part of my life.

they are an important part of my life. I belong in the health care system, just like all childran. Include me in regular health care. The health care system should adapt to me, limiting waiting times and ensuring that I understand what is to be done, by using, for example, easy-bor-and materials, prictograms, technologic means, and so forth. Other materials are will honefit:

3. Todoing with other chalcens. Lie for separate me from them because you must be treat me. and the me them them to require schools and I abould, be placed in regular schools and guester should be provided to me in those places. I have executing to take other dul-data and something to learn from them. The schools and something to learn from them. The school is the school of the school of

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Major dimensions. Transition to policies

- Estimation of the prevalence and its relation with both the social and economic burden;
- Early detection of ASDs in children and adequate interventions & biomarkers;
- A comprehensive framework for adult autistic treatment and care

ASD Policies



Work packages

WP nº	WP Title	Lead Partner
WP1	Prevalence of ASDs and related social and economic costs	ISCIII
WP2	Early detection, diagnosis and evidence-based intervention	USAL
WP3	Adults Treatment and Care	AU
WP4	ASD policies in the EU	AE
WP5	Impact & dissemination	ISCIII & NAS
WP6	Evaluation	BAPES
WP7	Co-ordination of activities with the FP7 EU-AIMS consortium	KCL
WP8	Coordination and Management	ISCIII



Some Figures

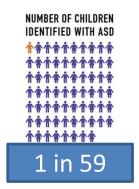
- Twelve prevalence studies in 23 different geographical areas - it has supposed 23 prevalence field studies
- More than 600,000 children involved
- More than 2,700 teachers
- More than 700 schools
- 139 new ASD diagnoses who had been not detected previously
- 29 focus groups, 226 involved from 10 European countries
- 3 systematic reviews

- 10 different surveys
- Translation into more than 10 different languages, depending of the type of survey
- Near to 6,000 people involved in the different surveys
- Dozens of regulations and laws revised
- The main European and national ASD organizations engaged
- and also Newsletters, three big meetings and several working meetings at national level, documents addressed to local authorities and committees, the website, scientific papers, tools



Prevalence Methods

Population-based (4 countries)

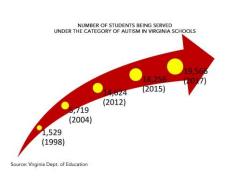


Cross-sectional prevalence studies (8 countries)



- Method 1: Screening in two phases TNF & SCQ (7 countries)
- Method 2: Screening using the SCQ (3 countries)
- Validation of the Teacher Nomination Form

Methods to measure prevalence in a population

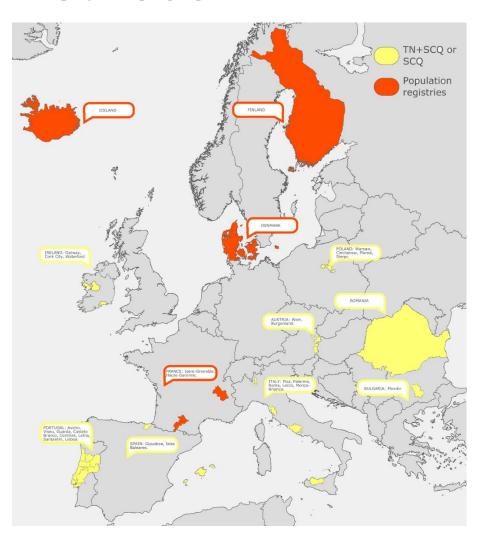




Prevalence Methods -II

Prevalence – Populationbased

- Denmark, France, Iceland, Finland
- 2 National ASD registries
- 2 Regional ASD registries
- 1 National Surveillance program
- 542,235 children
- Prevalence by year (Cumulative incidence)
- Prevalence by birth year (Cumulative incidence)



Prevalence Methods –III Cross-sectional prevalence studies

Method 1: Screening in two phases TNF & SCQ

- 7 countries: Spain (1), Portugal (1),
 Poland (4), Romania (WC), Bulgaria
 (1), Ireland (2) and Italy (1)
- 138,483 children (population)
- 56,582 children Range 1,401-13,690
- 702/923 schools Range 15- 687
- 200 SEN
- 2,734 teachers Range 54-788
- 2,142 SCQ received Range 20 -1,401
- 212 SCQ >15 Range 10-46
- 1,358 children nominated Range 43-342
- 61 New ASD cases/1,779 known ASD

Method 2: Screening using the SCQ

- 3 countries: Ireland (3), Austria (1) and Italy (3)
- 95,886 children (population)
- 32,802 children Range 5,526-16,298
- 212/533 schools Range 32 51
- 13 SEN
- 21,154 SCQ received Range 1,017-6,882
- 698 SCQ >15 Range 70-230
- 39 ASD new cases/238 known ASD





Results

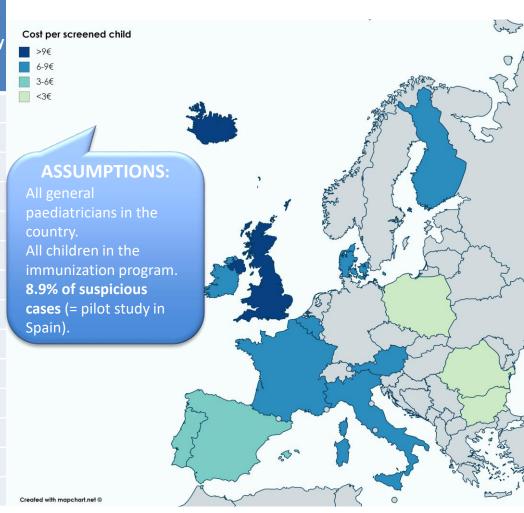
Type of study design	Country	Prevalence estimation cases x 1,000	CI95% x 1,000
	DENMARK*	12.4	11.9-12.9
Damalatian Davistoisa	FINLAND	7.7	7.4-8.1
Population Registries	ICELAND	26.8	24.2-29.6
	FRANCE**	5.4	5.0-5.9
Range	4	5.4-26.8	N/A
	AUSTRIA	13.8	8.2-23.0
	ITALY-LECCO	15,4	12.7-18.5
	ITALY-ROME	12.7	9.9-16.2
SCQ Screening	ITLAY- PALERMO	12.2	9.4-15.9
	ITALY-ALL	13.5	11.5-15.5
	IRELAND	17.9	14.7-21.8
Range	3	12.7-17.9	N/A
	POLAND	6.9	5.5-8.6
TNF+SCQ Screening	BULGARIA	2.7	1.8-3.9
	PORTUGAL	5.0	2.9-6.7
	SPAIN	4.8	3.8-6.1
	ITALY	11.5	8.3-14.6
	ROMANIA	7.2	5.3-9.7
Range 6		5.0-11.5	N/A
TNF vs SCQ	IRELAND	15.0	9.8-22.8
Range	1	15.0	9.8-22.8
TOTAL RANGE	14	4.8-26.8	N/A

ASD Costs

- Intellectual disability is a very important driver of the costs of autism
- There are differences between countries in the availability of some services
- We observed differences in the frequency/duration of visits to some (apparently similar type of) services across countries
- Some services are paid directly by patients in some countries

Screening Costs

Country	Cost per 1 child	Cost per 1 suspicious case	Annual budget impact per country
	screened	detected	(2018)
Austria	8.8€	102.62 €	784,765 €
Belgium	7.9 €	87.06 €	935,054 €
Bulgaria	1.0 €	11.63€	64,568 €
Denmark	7.8 €	79.70€	410,809 €
Finland	7.3 €	81.28€	370,597 €
France	6.9 €	72.91€	5,047,750 €
Iceland	13.2 €	72.40 €	391,148 €
Ireland	7.0 €	129.47 €	42,761 €
Italy	6.8 €	99.62€	3,903,753 €
Poland	2.6 €	29.26€	975,665 €
Portugal	4.7 €	57.38€	436,057 €
Romania	1.4 €	15.10€	248,104 €
Spain	5.0 €	65.08€	2,284,293 €
UK	9.1 €	100.72 €	6,668,059 €





Main Recomendations

- To improve the ASD registration in Europe
- To set up /define ASD geographical units to improve the surveillance of the prevalence
- To study the cost-effectiveness of the screening programs or experiences implemented in Europe.
- We should have effective services to satisfy the different needs of people with autism depending on their age, type of ASD and intellectual capacities.



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