

## Distribution of ASD survey

### Pilot Results

**Table S1: Survey Respondents Membership of an Autism Support Group or Organization**

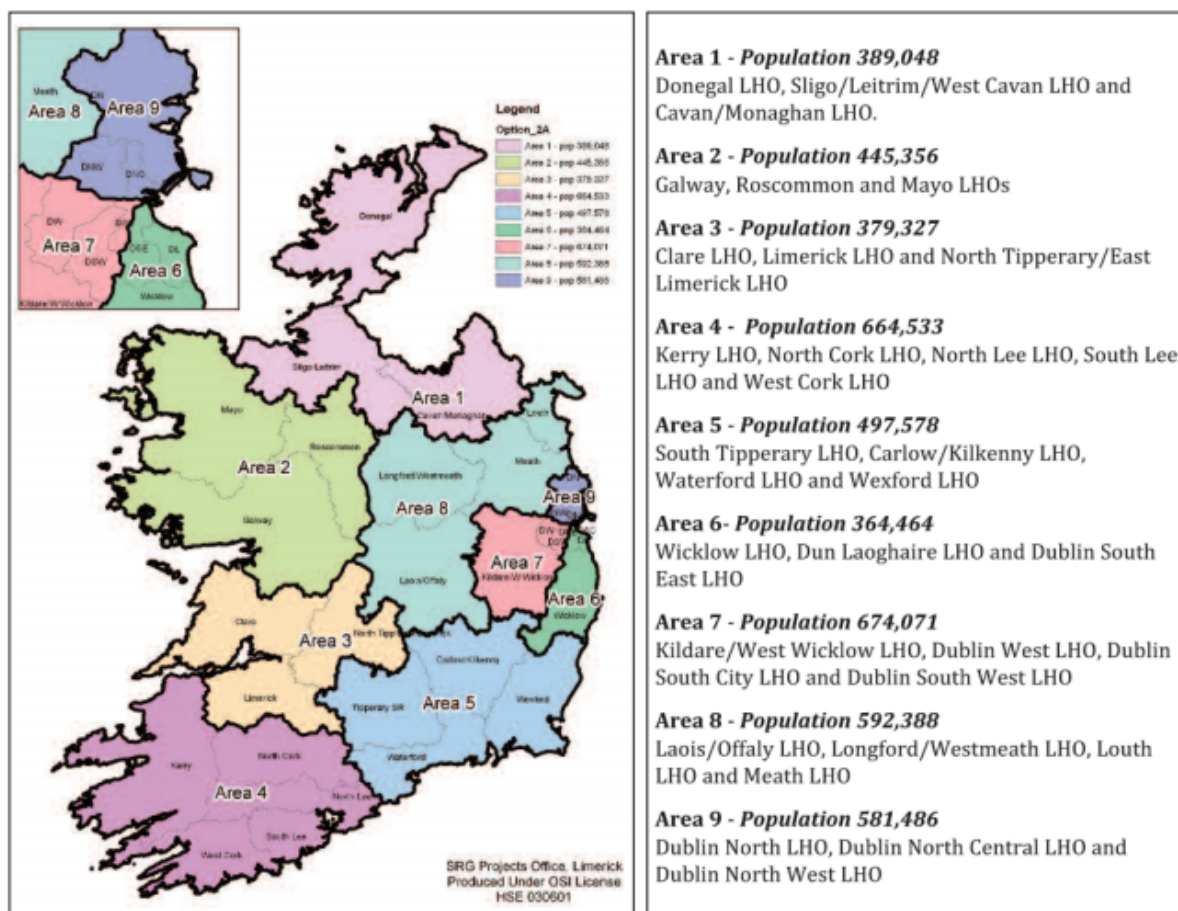
<b>Families membership</b>	<b>N</b>	<b>%</b>	<b>Mean expenditure</b>	<b>Range</b>
Yes	19	(67.9)	€7143.29	€240-19,053.52
No	9	(32.1)	€6730.42	€480-14,760

### Mann Whitney Test Results

In order to see if there is a difference in total out-of-pocket expenditure between families who are members of an autism support group organization and those who are not, a Mann Whitney test is applied. The results suggest that there is no statistical difference in total out-of-pocket expenditure for group one, those who are not members of an ASD support group or organization and group two, those who are members ( $z = -0.025$ ;  $p = 0.9804$ ). This finding is important in terms of planning the distribution of the main national survey through autism groups and reducing possible sources of bias such as different expenditure patterns depending on whether a family is affiliated with an autism group or not.

**Figure S1: Health care services are delivered across 9 Community Healthcare Organisations in the Republic of Ireland**

**The nine Community Healthcare Organisations are outlined below:**



Source: HSE, (2014:17) *Community Healthcare Organisations – Report and Recommendations of the Integrated Service Area Review Group*  
Available from : <https://www.hse.ie/eng/services/publications/corporate/choreport.html>  
>accessed 11th June, 2018 (Internet)

**Table S2: Distribution of ASD survey**

CHO area	County	ASD prevalence for 2-18 years based on Census 2011 <sup>a</sup>	No. of surveys to be distributed randomly by Autism organizations	No. of children aged 2-18 years registered with autism organization <sup>b</sup>	Recruitment method of surveys returned				Total number of surveys returned
					Distributed randomly by autism organizations	Parent requested a postal /PDF survey	Parent downloaded survey online	Parent took a survey at Autism Expo	
1	Cavan	186 (1.7%)	17	46	2	1	0	1	4
1	Monaghan	148 (1.4%)	14	35	1	4	0	0	5
1	Donegal	414 (3.9%)	39	107	3	2	0	1	6
1	Sligo	146 (1.4%)	14	22	1	0	0	0	1
1	Leitrim	74 (0.7%)	7	8	1	1	0	0	2
2	Galway	569 (5.4%)	54	72	6	9	0	0	15
2	Mayo	305 (2.9%)	29	44	3	7	0	0	10
2	Roscommon	149 (1.4%)	14	23	1	1	0	0	2
3	Clare	251 (2.4%)	24	69	5	1	0	0	6
3	Limerick	430 (4%)	40	N/A	7	4	0	0	11
3	North Tipperary	170 (1.6%)	16	42*	3	3	0	0	6

Table S2: continued

CHO Area	County	ASD Prevalence For 2-18 years based on Census 2011 <sup>a</sup>	No. of Surveys to be distributed randomly	No. of children aged 2-18 years registered with autism organization <sup>b</sup>	Recruitment method of parental surveys returned				Total number of surveys returned
					Distributed randomly by autism organizations	Requested a postal /PDF survey	Downloaded survey online	Parent took a survey at Autism Expo	
4	Kerry	326 (3.1%)	31	N/A	2	5	1	0	8
4	Cork	1187 (11.2%)	112	N/A	8	6	3	0	17
5	Carlow	131 (1.2%)	12	84	1	1	0	0	2
5	Kilkenny	232 (2.2%)	22	39	2	2	0	0	4
5	Waterford	304 (2.9%)	29	N/A	0	0	1	0	1
5	Wexford	361 (3.4%)	34	145	4	4	2	0	10
5	South Tipperary	224 (2.1%)	21	42*	1	1	0	0	2
6	Dublin South East	204 (1.9%)	19	976*	1	0	0	0	1
6	Dun Laoighaire	271 (2.5%)	25	976*	3	1	0	0	4
6	Wicklow	288 (2.7%)	27	126*	2	2	1	0	5
7	Dublin South City	217 (2%)	20	976*	5	1	0	0	6
7	Dublin South West	349 (3.3%)	33	976*	2	4	0	0	6

Table S2: Continued

CHO Area	County	ASD Prevalence for 2-18 years based on Census 2011 <sup>a</sup>	No. of Surveys to be distributed randomly	Number of children aged 2-18 years registered with autism organization <sup>b</sup>	Recruitment method of surveys returned				Total number of surveys returned
					Distributed randomly by autism organizations	Parent requested a postal /PDF survey	Parent downloaded survey online	Parent took a survey at Autism Expo	
7	Dublin West	353 (3.3%)	33	976*	0	1	0	0	1
7	Kildare/West Wicklow	592 (5.6%)	56	202*	5 (4/1)	4	2	1	12 (11/1)
8	Laois	207 (1.9%)	19	52	3	0	0	0	3
8	Offaly	196 (1.8%)	18	89	2	2	0	0	4
8	Longford	98 (0.9%)	9	17	2	1	0	0	3
8	Westmeath	213 (2%)	20	71	3	0	0	1	4
8	Louth	304 (2.9%)	29	72	5	1	0	0	6
8	Meath	495 (4.7%)	47	193	4	3	2	0	9
9	Dublin North	578 (5.4%)	54	976*	5	7	0	0	12
9	Dublin NC	230 (2.2%)	22	976*	3	0	0	0	3
9	Dublin NW	430 (4%)	40	976*	3	1	0	0	4
<b>Total</b>	-	10,632	1,000	N/A	99	80	12	4	195

Note: Dochas randomly distributed the surveys in County Limerick, while Shine Ireland randomly distributed them in Cork, Kerry and Waterford because they had larger membership in those counties than the IAA. The IAA randomly distributed the surveys in all the remaining counties.

<sup>a</sup> Column 3 shows ASD prevalence calculated based on the assumption of 1 in 100 (Boilson et al., 2016). Results in parenthesis show the percentage of children with an ASD in each county/LHO with respect to the total population of children with an ASD.

<sup>b</sup> Column 5 presents information with regard to the number of children aged between 2 to 18 years of age registered with the three autism organizations based on the respective counties they distributed surveys to. In relation to the IAA, for the three counties divided between community health organization (CHO) areas i.e. Wicklow, Dublin and Tipperary the IAA provided the first author with the number of children per county. However, random distribution in these counties was broken down into the subsets listed i.e. Dublin North. N/A means the information was not available to the first author.

**Table S3: Descriptive Statistics of the Child and Adolescent Sample (n= 222) Stratified by Recruitment method**

Characteristics	Recruitment method of surveys returned			
	Distributed randomly by autism organizations N=113	Parent requested a postal/PDF survey N=90	Parent downloaded survey online N=15	Parent took a survey at Autism Expo N=4
<b>Age</b>	9.327 (2-18)	8.863(3-18)	9.13(4-16)	8 (3-14)
<b>Gender</b>				
Male	94 (83%)	73 (81%)	10 (67%)	2 (50%)
Female	19 (17%)	17 (19%)	5 (33%)	2 (50%)
<b>Diagnosis</b>				
Autism Disorder	84 (74%)	72 (80%)	11 (73%)	4 (100%)
Asperger's Disorder	24 (21%)	14 (16%)	3 (20%)	0
Childhood Disintegrative Disorder	-	-	-	-
Pervasive Developmental Disorder	3 (3%)	3 (3%)	1 (7%)	-
Retts Syndrome	-	-	-	-
Not sure	1 (1%)	1 (1%)	-	-
Not answered	1 (1%)	-	-	-
<b>ASD Severity</b>				
Level 3 (Severe)	15 (13%)	11 (12%)	2 (13.3%)	0
Level 2 (Moderate)	53 (47%)	25 (28%)	5 (33.3%)	1 (25%)
Level 1 (Mild)	44 (39%)	32 (36%)	8 (53.3%)	-
Not sure	-	9 (10%)	-	2 (50%)
N/A	-	2 (2%)	-	-
Not answered	1 (1%)	11 (12%)	-	1 (25%)
<b>Child Verbal</b>				
Yes	88 (78%)	67 (74%)	11 (73%)	-
No	25 (22%)	18 (20%)	3 (20%)	-
N/A	-	5 (6%)	-	4 (100%)
Not answered	-	-	1 (7%)	-
<b>Intellectual Disability</b>				
Yes	63 (56%)	46 (51%)	6 (40%)	3 (75%)
No	50 (44%)	43 (48%)	9 (60%)	-
Don't know	-	1 (1%)	-	1 (25%)
<b>Intellectual Disability Severity</b>				
Mild	22 (35%)	23 (49%)	4 (67%)	-
Moderate	30 (48%)	17 (36%)	2 (33%)	3 (75%)
Severe	10 (16%)	6 (13%)	-	-
Profound	1 (2%)	-	-	-
Not Sure	-	1 (2%)	-	1 (25%)
<b>Comorbidities</b>				
Yes	85 (75%)	27 (30%)	7 (47%)	1 (25%)
No	25 (22%)	55 (61%)	7 (47%)	2 (50%)
Refusal	3 (3%)	7 (8%)	1 (6%)	1 (25%)
Not sure	-	1 (1%)	-	-
<b>Medical Card</b>				
Yes	58 (51%)	47 (52%)	6 (40%)	1 (25%)
No	42 (37%)	35 (40%)	8 (53%)	2 (50%)
N/A	1 (1%)	4 (4%)	-	-
Refusal	12 (11%)	4 (4%)	1 (7%)	1 (25%)

Note: No age was provided for 2 of the children. However, both were attending schools that taught children within the age range for the study, so they were included. Discrepancies exist in the figures for "Diagnosis" and "ASD Severity" based on when the child was diagnosed and whether they had received an updated diagnosis of their severity level since DSM-5 diagnostic criteria was introduced.

**Table S4: Descriptive Statistics of the Parents' Sample (n=195)**

Characteristics	Recruitment method of surveys returned			
	Distributed randomly by autism organizations (N=99)	Parent requested a postal/PDF survey (N=80)	Parent downloaded survey online (N=12)	Parent took a survey at Autism Expo (N=4)
<b>Mothers Age<sup>a</sup></b>	42.33 (94)	41.46 (79)	40.25 (12)	37.5 (2)
<b>Mothers Age Range</b>	22-57	24-54	32-56	34-41
<b>Fathers Age*</b>	44.41 (79)	45.04 (69)	44.18 (11)	35 (2)
<b>Fathers Age Range</b>	24-64	32-66	34-69	31-39
<b>Marital Status</b>				
Married	77 (77.7%)	64 (80%)	10 (83.3%)	3 (75%)
Partner	3 (3%)	5 (6%)	1 (8.33%)	1 (25%)
Single	11 (11.1%)	8 (10%)	-	-
Widow	-	-	-	-
Separated	7 (7.1%)	2 (3%)	1 (8.33%)	-
Divorced	1 (1%)	1 (1%)	-	-
<b>Mothers Education Completed</b>				
Primary school	2 (2%)	-	-	-
Junior Cert or Equivalent	7 (7.1%)	4 (5%)	-	-
Leaving Cert or Equivalent	24 (24.3%)	18 (23%)	1 (8%)	-
Third Level	43 (43.4%)	33 (41%)	4 (33%)	4 (100%)
Postgraduate	22 (22.2%)	18 (23%)	5 (42%)	-
Other	1 (1%)	7 (8%)	2 (17%)	-
<b>Fathers Education Completed</b>				
Primary school	2 (2%)	-	-	-
Junior Cert or Equivalent	16 (16.2%)	11 (13.8%)	5 (42%)	-
Leaving Cert or Equivalent	13 (13.1%)	16 (20%)	2 (17%)	25%
Third Level	29 (29.3%)	27 (33.7%)	2 (17%)	50%
Postgraduate	18 (18.2%)	11 (13.7%)	1 (8%)	25%
Other	2 (2%)	3 (3.7%)	1 (8%)	-
N/A	17 (17.2%)	1 (1.3%)	-	-
Refusal	2 (2%)	11 (13.8%)	1 (8%)	-
<b>Mothers Current Work Status</b>				
Working Full-time	17 (17.2%)	10 (12.5%)	4 (33%)	1 (25%)
Working Part-time	17 (17.2%)	12 (15%)	2 (17%)	-
Unemployed	3 (3%)	2 (2.5%)	-	-
Home Duties/ Looking After Home or Family	8 (8.1%)	10 (12.5%)	1 (8%)	-
Long-term sickness or disability	2 (2%)	1 (1.2%)	-	-
Full-time student	1 (1%)	1 (1.2%)	-	-
Full-time Carer to Child/Children with an ASD	49 (49.5%)	44 (55%)	5 (42%)	3 (75%)
Full-time carer to someone other than your child with an ASD	1 (1%)	-	-	-
Other	1 (1%)	-	-	-

Table S4: Continued

Characteristics	Recruitment method of surveys returned			
	Distributed randomly by autism organizations (N=99)	Parent requested a postal/PDF survey (N=80)	Parent downloaded survey online (N=12)	Parent took a survey at Autism Expo (N=4)
<b>Fathers Current Work Status</b>				
Working Full-time	58 (59%)	51 (64%)	8 (67%)	4 (100%)
Working Part-time	6 (6%)	4 (5%)	-	-
Unemployed	2 (2%)	8 (10%)	-	-
Home Duties/ Looking After Home or Family	1 (1%)	-	-	-
Long-term sickness or disability	3 (3%)	1 (1%)	-	-
Full-time student	-	-	-	-
Full-time Carer to Child/Children with an ASD	4 (4%)	2 (2.5%)	2 (17%)	-
Full-time carer to someone other than your child with an ASD	1 (1%)	-	-	-
Other	5 (5%)	4 (5%)	1 (8%)	-
N/A	17 (17%)	-	-	-
Refusal	2 (2%)	10 (12.5%)	1 (8%)	-
<b>Household number</b>	4.35 (2-11)	4.24 (2-10)	4.42 (3-7)	4.5 (4-5)
<b>Household Income<sup>b</sup></b>	44,911.31(66)	46,277.42 (52)	52,831.80 (10)	39,790 (2)
<b>Household Income Ranges</b>	8,000-100,000	6,000 – 100,000	35,456-103,000	16,900-62,680

<sup>a</sup> 8 mothers refused to report their age. The figures in parenthesis represent the number who reported their age.

<sup>b</sup> Only 130 out of 195 families reported their household income



**Table S5: Out-Of-Pocket Expenditure Reported Per Family Stratified by Recruitment Method For the Past 12 Months Due to Having a Child or Children with an Autism Spectrum Disorder, N=195**

Type of Expenses	Recruitment method of surveys returned							
	Distributed randomly by autism organizations (N=99)		Parent requested a postal/PDF survey (N=80)		Parent downloaded survey online (N=12)		Parent took a survey at Autism Expo (N=4)	
	Mean Cost	Median Cost	Mean Cost	Median Cost	Mean Cost	Median Cost	Mean Cost	Median Cost
<b>Living Costs</b>	€3,481.90	€2,000	€2,015.75	€1,470	€2,957.17	€1,590	€925.62	€402
	€0- 23,920		€0-13,000		€150-12,320		€0-2,898.47	
Special diet	€ 1,012.93	€520	€668.66	€0	€1,910	€780	€ 594.62	€0
	€0-11,440		€0-3,840		€0- 7,800		€0- 2,378.47	
Special clothing	€300.56	€0	€ 150.31	€0	€ 116.67	€0	€0	€0
	€0-2400		€0-1,560		€0-1,200		€0	
Continence care e.g. nappies	€162.97	€0	€145.60	€0	€138	€0	€186	€0
	€0-1200		€0-1,680		€0-936		€0-744	
Replacing/repairing damage	€725.91	€240	€327.3	€0	€249.17	€75	€15	€0
	€0-10,400		€0-3000		€0-1,000		€0-60	
Extra heat	€342.42	€0	€170.95	€0	€108.33	€0	€0	€0
	€0- 3,640		€0-1,560		€0- 600		€0	
Extra electricity	€428.16	€0	€225.2	€0	€ 111.67	€0	€ 130	€0
	€0- 3,640		€0-1560		€0- 600		€0-520	
Laundry	€247.43	€0	€211.1	€0	€121.67	€0	€0	€0
	€0-2600		€0-2,600		€0- 720		€0	
Telephone	€ 261.52	€0	€116.63	€0	€201.67	€0	€0	€0
	€0-2,600		€0- 1,680		€0- 720		€0	
<b>Care and Assistance</b>	€1,918.03	€3504.11	€ 1,123.90	€0	€ 1700.83	€200	€1,200	€0
	€0-15,600		€0- 23,400		€0-10,700		€0-4,800	
Childcare/carers during the school term	€1245.14	€0	€ 744.2	€0	€ 1,016.67	€0	€ 1200	€0
	€0- 11,100		€0- 15,750		€0- 5,600		€0- 4,800	
Childcare/carers during the holidays	€573.37	€0	€306.7	€0	€659.17	€0	€0	€0
	€0- 4,500		€0- 7,650		€0- 5,100		€0	
Respite care	€99.52	€0	€73	€0	€25	€0	€0	€0
	€0- 2400		€0- 4800		€0-300		€0	

Table S5: Continued

Type of Expenses	Recruitment method of surveys returned							
	Distributed randomly by autism organizations (N=99)		Parent requested a postal/PDF survey (N=80)		Parent downloaded survey online (N=12)		Parent took a survey at Autism Expo (N=4)	
	Mean Cost	Median Cost	Mean Cost	Median Cost	Mean Cost	Median Cost	Mean Cost	Median Cost
<b>Special Activities</b>								
Autism friendly activities	€999.72 €0-10,400	€780	€578.64 €0- 2880	€360	€ 446.67 €0-1,500	€300	€240 €0-720	€120
<b>Educational Costs</b>	€974.83 €0-8,320	€500	€ 986.54 €0-6,200	€680	€1,469.5 €0- 7,040	€650	€ 2,625.19 €0-10,438.75	€31
Specialised education	€ 220.81 €0- 7,800	€0	€ 247.2 €0- 4,750	€0	€866.67 €0- 6,240	€0	€ 648 €0-2,592	€0
Therapeutic toys & sensory equipment	€370.40 €0- 5,200	€200	€ 332.42 €0-2000	€200	€ 259.58 €0- 685	€175	€1977.19 €0-7,846.75	€31
Electronic items e.g. iPad	€383.62 €0- 4,500	€260	€ 406.93 €0- 3,450	€279.50	€343.25 €0-1,000	€230	€0 €0	€0
<b>Medical Costs</b>	€2,113.60 €0- 17,140	€1,180	€1,380.19 €0-9,152	€820	€2,715.42 €270- 8,085	€905	€1,442.08 €0-5,000	€384.15
Out-of-pocket expenses for GP visit	€169.39 €0- 2,880	€0	€107.78 €0-750	€0	€103.75 €0-495	€0	€0 €0	€0
Out-of-pocket for specialists	€525.28 €0- 10,400	€0	€ 220.33 €0- 2,250	€0	€280 €0- 1,890	€150	€1,152.5 €0-4,000	€305
Out-of-pocket expenses for medication/supplements	€297.71 €0-7,200	€0	€278.07 €0-3000	€55	€ 675.83 €0- 5,750	€60	€ 14.58 €0- 58.30	€0
Out-of-pocket expenses for private therapeutic interventions & assessment	€1,047.17 €0- 14,400	€500	€754.01 € 0-8,320	€20	€ 1,655.83 €0- 5,700	€240	€250 €0- 1,000	€0
Out-of-pocket expenses for hospital patient fee	€74.04 €0- 3,000	€0	€20 €0-300	€0	€0 €0	€0	€25 €0-100	€0

Table: S5 Continued

Type of Expenses	Recruitment method of surveys returned							
	Distributed randomly by autism organizations (N=99)		Parent requested a postal/PDF survey (N=80)		Parent downloaded survey online (N=12)		Parent took a survey at Autism Expo (N=4)	
	Mean Cost	Median Cost	Mean Cost	Median Cost	Mean Cost	Median Cost	Mean Cost	Median Cost
<b>Travel Costs</b>	€995.72	€520	€586.94	€100	€1,845.33	€1,730	€687.50	€75
	€0-4,800		€0-4,680		€0-4,524		€0-2,600	
Fuel/transport/parking costs	€957.84	€500	€555.06	€100	€1,812	€1,530	€687.5	€75
	€0-4,800		€0-4,680		€0-4,524		€0-2,600	
Accommodation	€37.88	€0	€31.88	€0	€33.33	€0	€0	€0
	€0-1,200		€0-1,700		€0-300		€0	
<b>Training/Support Costs</b>	€408.59	€0	€198.81	€0	€128.33	€0	€12.5	€0
	€0-9,600		€0-2,400		€0-1,440		€0-50	
Skills training course(s)/workshops	€238.28	€0	€139.19	€0	€8.33	€0	€12.5	€0
	€0-9,600		€0-1,440		€0-100		€0-50	
Counselling	€170.30	€0	€59.63	€0	€120	€0	€0	€0
	€0-4,320		€0-2,400		€0-1,440		€0	
<b>Autism Assistance Dog</b>								
Training/veterinary bills/feeding	€124.75	€0	€157.5	€0	€20	€0	€567	€0
	€0-6,700		€0-2,700		€0-240		€0-2,268	
<b>Other</b>	€260.30	€0	€66.63	€0	€18.17	€0	€0	€0
	€0-4,800		€0-1,560		€0-218		€0	
<b>Total Out-Pocket Expenditure</b>	€11,277.42	€8,636	€7,094.89	€5,020	€11,301.42	€9,500	€7,699.88	€5,753
	€600-56,160		€0-41,756		€2,226-25,811		€240-19,053.52	

**Table S6: Out-Of-Pocket Expenditure Reported Per Child Stratified by Recruitment Method For the Past 12 Months Due to Having a Child or Children with an Autism Spectrum Disorder, N=222**

Type of Expenses	Recruitment method of surveys returned							
	Distributed randomly by autism organizations (N=113)		Parent requested a postal/PDF survey (N=90)		Parent downloaded survey online (N=15)		Parent took a survey at Autism Expo (N=4)	
	Mean Cost	Median Cost	Mean Cost	Median Cost	Mean Cost	Median Cost	Mean Cost	Median Cost
<b>Living Costs</b>	€4,125.58	€2,560	€2,322.78	€1,620	€4,456.4	€2,900	€925.62	€402
	€0- 23,920		€0-13,000		€150-12,320		€0- 2,898.47	
Special diet	€839.65	€520	€577.37	€97.50	€1,528	€1,560	€594.62	€0
	€0-4,800		€0-3,840		€0-3,000		€0-2,378.47	
Special clothing	€260.66	€0	€133.61	€0	€93.33	€0	€0	€0
	€0- 2,400		€0-1,200		€0-400		€0	
Continence care e.g. nappies	€142.78	€0	€129.42	€0	€110.4	€0	€186	€0
	€0-1,200		€0- 1,300		€0-936		€0-744	
Replacing/repairing damage	€ 568.27	€240	€280.49	€0	€199.33	€150	€15	€0
	€0- 10,400		€0-3000		€0-600		€0- 60	
Extra heat	€289.38	€0	€151.96	€0	€86.67	€0	€0	€0
	€0-3,640		€0-1,560		€0-600		€0	
Extra electricity	€360.25	€200	€200.18	€0	€89.33	€0	€130	€0
	€0-3,640		€0-1,440		€0-600		€0-520	
Laundry	€206.16	€0	€187.64	€0	€97.33	€0	€0	€0
	€0-1,500		€0- 2,600		€0-720		€0	
Telephone	€221.95	€0	€103.67	€0	€161.33	€0	€0	€0
	€0-2,600		€0-1300		€0-720		€0	
<b>Care and Assistance</b>	€1,593.32	€0	€999.02	€0	€1,360.67	€133.33	€1,200	€0
	€0-15,600		€0- 23,400		€0- 10,700		€0- 4,800	
Childcare/carers during the school term	€1,028.49	€0	€661.51	€0	€813.33	€0	€1,200	€0
	€0-11,100		€0-15,750		€0-5,600		€0-4,800	
Childcare/carers during the holidays	€486.85	€0	€272.62	€0	€527.33	€133.33	€0	€0
	€0-4,500		€0-7,650		€0-5,100		€0	
Respite care	€77.98	€0	€64.89	€0	€20	€0	€0	€0
	€0-2,400		€0- 2,400		€0-150		€0	

Table S6: Continued

Type of Expenses	Recruitment method of surveys returned							
	Distributed randomly by autism organizations (N=113)		Parent requested a postal/PDF survey (N=90)		Parent downloaded survey online (N=15)		Parent took a survey at Autism Expo (N=4)	
	Mean Cost	Median Cost	Mean Cost	Median Cost	Mean Cost	Median Cost	Mean Cost	Median Cost
<b>Special Activities</b>								
Autism friendly activities	€ 870.55 €0- 10,400	€600	€514.34 €0- 2,640	€347.5	€357.33 €0-1,240	€300	€240 €0-720	€120
<b>Educational Costs</b>	€842.28 €0- 6,100	€480	€863.59 €0- 4,750	€700	€1,175.6 €0- 7,040	€900	€2,625.19 €0-10,438.75	€31
Specialised education	€193.45 €0- 3,900	€0	€219.73 €0- 4,750	€0	€693.33 €0- 6,240	€300	€648 €0-2,592	€0
Therapeutic toys & sensory equipment	€313.89 €0-5,200	€130	€282.15 €0- 1,800	€200	€207.67 €0-600	€200	€1,977.19 €0- 7,846.75	€31
Electronic items e.g. iPad	€334.94 €0- 4,500	€250	€361.71 €0- 3,450	€300	€274.6 €0-900	€244.5	€0 €0	€0
<b>Medical Costs</b>	€1,834.74 €0- 14,800	€930	€1222.72 €0-9,152	€668	€2,172.33 €183.33-6,950	€770	€1,442.08 €0- 5,000	€384.15
Out-of-pocket expenses for GP visit	€148.41 €0-2,880	€0	€94.47 €0-750	€0	€83 €0-400	€0	€0 €0	€0
Out-of-pocket for specialists	€460.20 €0-10,400	€0	€199.18 €0- 2,250	€0	€224 €0-945	€83.33	€1,152.5 €0-4,000	€305
Out-of-pocket expenses for medication/supplements	€254.45 €0- 7,200	€40	€245.51 €0-3,000	€40	€540.67 €0-5,750	€100	€14.58 €0-58.3	€0
Out-of-pocket expenses for private therapeutic interventions & assessment	€906.81 €0-7,500	€150	€666.34 €0- 8,320	€159	€1,324.67 €0-5,500	€150	€250 €0-1000	€0
Out-of-pocket expenses for hospital patient fee	€64.87 €0- 3,000	€0	€17.22 €0- 300	€0	€0 €0	€0	€25 €0-100	€0

Table S6: Continued

Type of Expenses	Recruitment method of surveys returned							
	Distributed randomly by autism organizations (N=113)		Parent requested a postal/PDF survey (N=90)		Parent downloaded survey online (N=15)		Parent took a survey at Autism Expo (N=4)	
	Mean Cost	Median Cost	Mean Cost	Median Cost	Mean Cost	Median Cost	Mean Cost	Median Cost
<b>Travel Costs</b>	€867.75	€520	€521.72	€150	€1,476.27	€1,000	€687.5	€75
	€0-4,800		€0-3,995		€0-4320		€0-2,600	
Fuel/transport/parking costs	€834.57	€500	€493.39	€135	€1,449.6	€1,000	€687.5	€75
	€0-4,800		€0- 3,845		€0- 4,320		€0-2,600	
Accommodation	€33.19	€0	€28.33	€0	€26.67	€0	€0	€0
	€0-1,200		€0- 1,700		€0- 300		€0	
<b>Training/Support Costs</b>	€384.87	€0	€176.72	€0	€102.67	€0	€12.5	€0
	€0- 9,600		€0- 2,400		€0-720		€0- 50	
Skills training course(s)/workshops	€235.66	€0	€123.72	€0	€6.67	€0	€12.5	€0
	€0-9,600		€0- 1,400		€0-100		€0-50	
Counselling	€149.20	€0	€53	€0	€96	€0	€0	€0
	€0-4,320		€0-2,400		€0-720		€0	
<b>Autism Assistance Dog</b>								
Training/veterinary bills/feeding	€109.29	€0	€140	€0	€16	€0	€567	€0
	€0- 6,700		€0-2,700		€0-240		€0-2,268	
<b>Other</b>	€228.05	€0	€59.22	€0	€14.53	€0	€0	€0
	€0- 4,680		€0- 1,450		€0-109		€0	
<b>Total Out-Pocket Expenditure</b>	€ 12,539.57	€9,080	€8,218.53	€5,408	€13,664.53	€12,180	€7,699.88	€5,753
	€270- 56,160		€0- 41,756		€2,226-25,811		€ 240-19,053.52	

**Table S7: Utilization of State Provided Public Health Services Per Child Used in the Past 12 Months**

	Recruitment method of surveys returned							
Resources	Distributed randomly by autism organizations (N=113)		Parent requested a postal/PDF survey (N=90)		Parent downloaded survey online (N=15)		Parent took a survey at Autism Expo (N=4)	
	No. of Children	Mean (range) number of contacts	No. of Children	Mean (range) number of contacts	No. of Children	Mean (range) number of contacts	No. of Children	Mean (range) number of contacts
<b>Dentist</b>	54	4.7 (1-12)	37	3 (1-5)	8	2.5 (1-4)	3	2.5 (1-4)
<b>GP</b>	56	14.2 (1-50)	29	6.2 (1-13)	8	16.3 (1-40)	2	1.5 (1-2)
<b>Practice Nurse</b>	9	12.6 (1-52)	3	3.3 (1-6)	1	4 (4)	0	-
<b>Optician</b>	19	4.8 (1-12)	16	1.5 (1-2)	5	1 (1)	0	-
<b>Dietician</b>	9	3.3 (1-6)	8	1.5 (1-2)	1	4(4)	1	1(1)
<b>Speech &amp; Language therapist</b>	38	8.9 (1-30)	37	6.6 (1-14)	2	1.5 (1-2)	2	6 (2-10)
<b>Occupational therapist</b>	43	8.1 (1-24)	28	4.1 (1-8)	3	3.3 (1-6)	1	2 (2)
<b>Physiotherapist</b>	23	7.4 (1-24)	11	3 (1-5)	1	18 (18)	0	-
<b>ABA</b>	6	8 (1-24)	2	(5-150)	0	-	0	-
<b>Sensory integration therapy</b>	2	2 (1-3)	1	1 (1)	1	1 (1)	0	-
<b>CBT</b>	3	11.3 (2-24)	1	12 (12)	0	-	0	-
<b>Play therapy</b>	2	3.5 (1-6)	0	-	0	-	0	-
<b>Psychiatrist</b>	21	7.1 (1-20)	12	7.4 (1-25)	0	-	0	-
<b>Psychologist</b>	25	4.9 (1-10)	14	4.7 (1-12)	3	10.7 (4-17)	0	-
<b>Social worker</b>	15	(1-9)	7	(1-2)	1	8 (8)	1	1 (1)

Table S7: Continued

	Recruitment method of surveys returned							
Resources	Distributed randomly by autism organizations (N=113)		Parent requested a postal/PDF survey (N=90)		Parent downloaded survey online (N=15)		Parent took a survey at Autism Expo (N=4)	
	No. of Children	Mean (range) number of contacts	No. of Children	Mean (range) number of contacts	No. of Children	Mean (range) number of contacts	No. of Children	Mean (range) number of contacts
Behavioural therapist	4	9.7 (1-24)	2	3 (2-4)	0	-	0	-
Neurologist	8	7.7 (1-20)	3	1.5 (1-2)	3	2 (1-3)	0	-
Gastroenterologist	5	7 (1-20)	1	1 (1)	1	1 (1)	0	-
Accident & Emergency	10	4.9 (1-10)	10	2 (1-3)	5	5.3 (1-10)	0	-
Social skills training/group	7	13.8 (2-40)	5	4.4 (2-8)	0	-	0	-
Paediatrician	3	1.5 (1-2)	4	2.3 (1-4)	0	-	0	-
Hanen Programme	0	-	1	4 (4)	0	-	0	-
Childcare worker	0	-	1	6 (6)	0	-	0	-
Podiatrist	0	-	1	1 (1)	0	-	0	-
Development clinic	0	-	0	-	1	3 (3)	0	-
Maxifacial OPD	1	2 (2)	0	-	0	-	0	-
Urologist	0	-	1	1 (1)	0	-	0	-
Ophthalmology	0	-	1	1 (1)	0	-	0	-



**Table S8: State Educational Costs Stratified by Recruitment Method**

	Recruitment method of surveys returned											
Type of Expenses	Distributed randomly by autism organizations (N=113)			Parent requested a postal/PDF survey (N=90)			Parent downloaded survey online (N=15)			Parent took a survey at Autism Expo (N=4)		
	N	Unit Cost	Mean Cost	N	Unit Cost	Mean Cost	N	Unit Cost	Mean Cost	N	Unit Cost	Mean Cost
Capitation Fees based on Type of School & ASD Unit Grant	113	-	€490.84	90	-	€515.35	15	-	€818.22	4	-	€756.92
Pre-school/crèche	8	No extra cost		5	No extra cost		0	N/A		0	N/A	
Special pre-school	4	No extra cost		5	No extra cost		0	N/A		0	N/A	
Mainstream primary	40	No extra cost		30	No extra cost		4	No extra cost		0	N/A	
Special needs school	15	Depends on number of teachers in school		11	Depends on number of teachers in school		0	N/A		1	Depends on number of teachers in school	
ASD unit	26	Primary school - €1,753.33 Secondary school - €1,274.33		27	Primary school - €1,753.33 Secondary school - €1,274.33		7	Primary school - €1,753.33 Secondary school - €1,274.33		2	Primary school - €1,753.33 Secondary school - €1,274.33	
Mainstream secondary	6	No extra cost		6	No extra cost		4	No extra cost		0	N/A	
Home educated by parents	1	No extra cost		1	No extra cost		0	N/A		0	N/A	
Private school	0	N/A		1	No extra cost		0	N/A		0	N/A	
Day Centre	0	N/A		1	N/A		0	N/A		0	N/A	
Not attending anywhere	1	N/A		0	N/A		0	N/A		1	N/A	
Mainstream primary & special needs school	0	N/A		1	No extra cost		0	N/A		0	N/A	
Pre-school/crèche & Special pre-school	2	No extra cost		0	No extra cost		0	N/A		0	N/A	
Pre-school/crèche & ASD unit	1	Primary school - €670		0	N/A		0	N/A		0	N/A	
Mainstream primary & Special needs school	1	No extra cost		0	N/A		0	N/A		0	N/A	

Table S8: Continued

Type of Expenses	Recruitment method of surveys returned											
	Distributed randomly by autism organizations (N=113)			Parent requested a postal/PDF survey (N=90)			Parent downloaded survey online (N=15)			Parent took a survey at Autism Expo (N=4)		
	N	Unit Cost	Mean Cost	N	Unit Cost	Mean Cost	N	Unit Cost	Mean Cost	N	Unit Cost	Mean Cost
<b>Capitation Fees based on Type of School &amp; ASD Unit Grant</b>												
Mainstream primary & ASD unit	5	Primary school - €1,753.33		0	N/A		0	N/A		0	N/A	
ASD unit & Home educated by parents	1	Primary school - €1,753.33		0	N/A		0	N/A		0	N/A	
Mainstream secondary & Home educated by parents	0	N/A		1	No extra cost		0	N/A		0	N/A	
N/A	1			0			0			0		
Refusal	1			1			0			0		
<b>Special Needs Assistant</b>	80	€18.40 pH	€12,162.90	60	€18.40 pH	€11,709.24	11	€18.40 pH	€10,067.44	3	€18.40 pH	€21,408.4
<b>Resource hours</b>	1	Primary School - €34.50 pH Post Primary - €41.65 pH	€26.78	2	Primary School - €34.50 pH Post Primary - €41.65 pH	€62.56	-	N/A	-	-	N/A	-
<b>Home Tuition Grant</b>	4	€36.03 pH	€790.43	4	€1,007.24	-	-	-	-	-	N/A	-
<b>July Provision Grant (home based only)</b>	50	€36.03 pH	€637.70	25	€36.03 pH	€376.31	5	€36.03 pH	€480.40	-	N/A	-
<b>Special Assistive Technology</b>	6		€32.76	4		€29.33	1		€44.00	-	N/A	-
<b>Educational Psychologist</b>	2	€47.97 pH	€2.12	1	€47.97 pH	€1.07	-	N/A	-	-	N/A	-
<b>Total State Educational Expenditure</b>	101		€13,107.56	71		€12,521.75	14		€10,397.3	3		€21,408.40

*Note:* In order to calculate the extra cost of educating a child with an ASD, the mainstream capitation grant of €170 paid for every child regardless of having special needs, was deducted from the €840 grant received from the State per child attending an ASD unit in a Primary school. Furthermore, the calculations include a once-off ASD unit set up grant worth €6,500 allocated towards the cost of furniture and general equipment. 6 children with an ASD are allocated per ASD unit class, therefore the cost per child amounts to €1,083.33. The State pays a capitation grant of €191 for each adolescent attending an ASD unit in post-primary Schools. This does not include the mainstream grant. Similarly, a once-off ASD unit set up grant of €6,500 is paid to post-primary schools. All educational unit costs were obtained from the Special Education Section in the Department of Education and Skills (Mulkerrins J, 23 August 2017, personal communication) apart from Special assistive technology costs sourced from Currys (2017a), Currys (2017b), and Dell (2017).

**Table S9: Average Indirect Costs for Parents in Paid Employment Per Household (N=195)**

	Recruitment method of surveys returned											
	Distributed randomly by autism organizations (N=113)			Parent requested a postal/PDF survey (N=90)			Parent downloaded survey online (N=15)			Parent took a survey at Autism Expo (N=4)		
	N	Mean	Range	N	Mean	Range	N	Mean	Range	N	Mean	Range
<i>Mothers still in paid employment</i>												
<b>Had to Take Time Off Work Because of Their Child's Condition</b>												
Yes	30			19			1			1		
No	3			3			4			0		
Refusal	1			0			1			0		
<b>Number of Days Taken Off From Paid Work In the Past 12 Months</b>	27	24	(1-104)	17	33.65	1-114	4	57	(2-104)	1	7	7
<b>Reported Estimated Loss in Income from Taking Time Off Work Or Working Reduced Hours Because of Their Child's Condition</b>	20	€4,063.53	€0-60,000	14	€3,876.36	€0-20,800	3	€5,333.33	€0-20,000	0	€0	€0
<b>Had to Turn Down Work Opportunities or a Promotion Because of Their Child's Condition (<i>All Mothers</i>)</b>												
Yes	61			55			8			1		
No	17			12			0			1		
N/A	4			6			1			0		
Refusal	17			7			3			2		

Table S9: Continued

	Recruitment method of surveys returned											
	Distributed randomly by autism organizations (N=113)			Parent requested a postal/PDF survey (N=90)			Parent downloaded survey online (N=15)			Parent took a survey at Autism Expo (N=4)		
	N	Mean	Range	N	Mean	Range	N	Mean	Range	N	Mean	Range
<i>Fathers still in paid employment</i>												
<b>Had to Take Time Off Work Because of Their Child's Condition</b>												
Yes	39			34			5			3		
No	21			18			2			1		
N/A	0			0			1			0		
Refusal	4			3			0			0		
<b>Number of Days Taken Off From Paid Work In the Past 12 Months</b>	36	13.03	2-100	33	8.91	2-52	3	21.33	14-30	2	4.5	3-6
<b>Reported Estimated Loss in Income from Taking Time Off Work Or Working Reduced Hours Because of Their Child's Condition</b>	23	€1,746.31	€0-40,000	19	€913.82	€0-15,000	4	€1,375	€0- 3,000	1	€60	€0-240
<b>Had to Turn Down Work Opportunities or a Promotion Because of Their Child's Condition (All Fathers)</b>												
Yes	26			19			3			0		
No	24			33			5			2		
N/A	18			3			1			0		
Refusal	31			25			3			2		

*Note:* The estimates for reported loss in income are based on parents who are still in paid employment, but had to take some days off. They do not include the loss of income for full-time carers who had to give up paid employment to care for their child's special needs. Mean and ranges are based on the sub-sample effected.

**Table S10: Average Indirect Costs for Parents in Paid Employment Per Child**

	Recruitment method of surveys returned											
	Distributed randomly by autism organizations (N=113)			Parent requested a postal/PDF survey (N=90)			Parent downloaded survey online (N=15)			Parent took a survey at Autism Expo (N=4)		
	N	Mean	Range	N	Mean	Range	N	Mean	Range	N	Mean	Range
<i>Mothers still in paid employment</i>												
<b>Reported Estimated Loss in Income from Taking Time Off Work Or Working Reduced Hours Because of Their Child's Condition</b>	22	€3,635.79	€0-60,000	15	€3,707.83	€0-20,800	3	€5,333.33	€0-20,000	0	0	0
<i>Fathers still in paid employment</i>												
<b>Reported Estimated Loss in Income from Taking Time Off Work Or Working Reduced Hours Because of Their Child's Condition</b>	27	€1490.19	€0-40,000	21	€851.86	€0-15,000	6	€1,000	€0-3,000	1	€60	€0-240

Note: 68 children had mothers in paid employment and 149 children had fathers in paid employment. Mean costs and ranges are based on the sub-sample of parents in paid employment. Mother's mean loss in income on a per child basis is €1,150.63 and Father's mean loss in income on a per child basis is €780.47

**Table S11: Informal care provided by parents who are full-time carers based on a typical 24 hour day/night N= 128 children**

<b>Caregiver activity</b>			
<b>Caregiver activity</b>	<b>N</b>	<b>Mean hours mins</b>	<b>Range</b>
<b>Personal Care</b>			
Feeding	87	1.47	2.4 – 24.00
Dressing	103	0.55	4.2-24.00
Personal hygiene	106	1.01	2.4-24.00
Administrating medication	55	44.4	0.01-24.00
Attend to your child/children with an ASD at night	90	2.17	.10-12.00
Practical help	85	4.02	.10-24.00
<b>Communicating/Therapies</b>			
Social & life skills e.g. helping your child to get used of new situations	71	4.14	0.07-24.00
Speech and occupational therapy	68	1.39	0.15-12.00
iPad interaction	75	1.28	0.05-12.00
Play therapy	59	1.41	0.06-12.00
Applied behavioural analysis techniques	31	6.01	0.05-24.00
Music therapy	23	1.47	0.10-24.00
<b>Helping with homework</b>	62	1.05	0.07-3.00
<b>Behavioural management</b>	32	6.43	0.15-24.00
Dealing with meltdowns	86	3.14	0.04-24.00
Anxiety issues	80	3.16	0.08-24.00
<b>Supervision</b>			
Making sure your child/children with an ASD are safe	113	13.03	0.15-24.00
Keeping company	86	7.52	0.20-24.00
<b>Appointments</b>			
Bringing your child to appointments	62	1.19	0.10-6.00
Bringing your child to ASD friendly activities	59	1.25	0.07-5.00
<b>Transportation</b>			
The amount of time spent bringing	56	1.22	0.15-9.00
<b>Other</b>			
Physio activities	1	0.22	0.22
Sensory integration therapy activities	2	2.53	0.45-5.00
Anti-stress exercises	1	0.30	0.30
Autism studies	1	4.00	4.00
Dressing wounds from picking skin	1	0.45	0.45
Re-directing obsessional behaviour	1	14.00	14.00

**Table S12: Informal Care Costs for Child who are full-time carers**

<b>Mothers</b> 101 mothers of 120 children are full-time carers)	Industrial wage per hour (CSO, 2014) €17.76 Assuming an 8 hour day, 5 days a week
Annual mean cost per child for sub-sample of 120 children	€30,937.92
Annual mean cost per child for 222 children	€16,723.2
<b>Fathers</b> (13 children children have fathers full-time carers)	Industrial wage per hour (CSO, 2014) €21.69
Annual mean cost per child for sub-sample of 120 children	€2,7763.2
Annual mean cost per child for 222 children	€1,625.77

*Note:* Measuring the informal care costs of children with an ASD presents many challenges. Most parents stated in their survey responses that they spent 24 hours per day supervising and keeping their ASD child safe given the nature of the condition and the need for parents to be extra vigilant and ready for action when situations arise. While parents of children with an ASD have considerable time costs associated with caring for their child's extra needs, it can be difficult to measure informal care hours as parents have a duty of care towards typically developing children based on their needs and safety. Therefore, it was considered appropriate to assume 8 hours of informal care per day was provided by all parents who reported they were full-time carers for their child/children with an ASD.

**Table S13: Comorbidity Count for ASD Sample (N=222)**

Comorbidity Count	N	%
0	33	14.86
1	65	29.28
2	52	23.42
3	40	18.02
4	15	6.76
5	8	3.60
6	4	1.80
7	3	1.35
8	-	-
9	2	0.90

**Table S14: Prevalence of Comorbidities within ASD Sample (N=222)**

Type of Comorbidity	N	%	Type of Comorbidity	N	%
Allergies	9	4.05	Hypotonia	4	1.80
Anorectal malformation	1	0.45	Incontinence	1	0.45
Anxiety	52	23.42	Intellectual disability		
Asthma	11	4.95	Juvenile arthritis	2	0.90
Attention deficit disorder	2	0.90	Learning difficulty/disability	3	1.35
Attention deficit hyperactivity disorder	33	14.86	Liver transplant	1	0.45
Bronchiolitis	1	0.45	Muscular pains	1	0.45
Cerebral palsy	2	0.90	Neurofibromatosis type I	3	1.35
Chiari malformation	1	0.45	Obsessive-compulsive disorder	6	2.70
Coeliac	1	0.45	Oculofaciocardiodental syndrome	1	0.45
Congenital hypothyroidism	1	0.45	Oppositional defiant disorder	13	5.86
Cranial surgery	1	0.45	Pathological demand avoidance	1	0.45
Crohn's disease	1	0.45	Peg fed	1	0.45
Depression	3	1.35	Petit Mal Epilepsy	2	0.90
Diabetes (Type 1)	1	0.45	Reflux	2	0.90
Down syndrome	3	1.35	Respiratory	1	0.45
Duodenal ulcer	1	0.45	Restless leg syndrome	1	0.45
Dyscalculia	2	0.90	Rhinitis	1	0.45
Dyslexia	7	3.15	Sensory problems	5	2.25
Dyspraxia	13	5.86	Sensory Processing Disorder	11	4.95
Eczema	6	2.70	Skin picking disorder	1	0.45
Emotional & behavioural disorders	1	0.45	Skin rashes	2	0.90
Eneuresis	2	0.90	Sleep apnea	2	0.90
Eosinophilic esophagitis	1	0.45	Sleep problems/disorders	38	17.12
Epilepsy	6	2.70	Specific speech & language impairment	2	0.90
Febrile convulsions	1	0.45	Spinal curvature	1	0.45
Feeding difficulty	2	0.90	Tumours	1	0.45
Finger deformity	1	0.45	Vision problem	1	0.45
Food sensitivity/intolerance	3	1.35	Vitamin deficiency	1	0.45
Fragile X syndrome	1	0.45			
Gastrointestinal issues	38	17.12			
Glaucoma	1	0.45			
Global development delay	3	1.35			
Hayfever	1	0.45			
Hearing problem	1	0.45			
Heart problem	3	1.35			
Hemiparesis	1	0.45			
Hernia	1	0.45			
Hypermobility	7	3.15			

*Note:* The comorbidity list is based on Question 4, Section of the national ASD survey “Does your child also have another medical condition(s) e.g. epilepsy, ADHD, anxiety disorders, sleep disorders, gastrointestinal problems: Yes/No. If Yes, please specify.



**Table S15: Average Marginal Effects of GLM Out-of-Pocket Expenditure Per Child and State health expenditure (Without Equivalised Household Income)**

<b>Coefficients</b>	<b>Model 1 (Out-of-pocket expenditure)</b>	<b>Model 2 (State health expenditure)</b>
<b>Severity of ASD</b>		
Level 1 Mild	REF	REF
Level 2 Moderate	2398.489** (1001.102)	-541.40** (261.28)
Level 3 Severe	3697.211* (2111.826)	7.64 (547.65)
<b>Intellectual disability</b>	-1533.72 (1092.07)	15.44 (258.80)
<b>Gender (Male)</b>	-159.5263 (1332.828)	-490.04 (379.03)
<b>Medical card</b>	-2564.409** (1019.512)	650.93** (271.19)
<b>Comorbidity count</b>	1066.856*** (365.5952)	287.71*** (110.98)
<b>Mother – third level education or higher</b>	1504.411 (1117.138)	-291.43 (244.98)
<b>Rural</b>	1944.752* (1025.552)	686.77** (287.64)
AIC	20.08563	16.10531
BIC	-791.3697	-697.6285
Log Pseudo likelihood	-1798.706481	-1440.477597
N	180	180

\*\*\*denotes significant at 1%, \*\* denotes significant at 5%, \* denotes significant at 10%

### *Sensitivity Analysis*

Outliner expenditure for GP services and Practice Nurse was excluded in the State health expenditure model, resulting in the variable for mothers who have a third level education or higher variable becoming statistically significant at a 5% level.

**Table S16: Average Marginal Effects of GLM Out-of-Pocket Expenditure Per Child and State health expenditure (Sensitivity Analysis)**

<b>Coefficients</b>	<b>Model 1 (Out-of-pocket expenditure)</b>	<b>Model 2 (State health expenditure)<sup>a</sup></b>
<b>Severity of ASD</b>		
Level 1 Mild	REF	REF
Level 2 Moderate	3134.69** (1383.07)	-199.95 (204.12)
Level 3 Severe	4170.22 (2993.39)	810.80 (823.05)
<b>Intellectual disability</b>	-412.64 (1494.99)	-244.45 (221.39)
<b>Gender (Male)</b>	-1759.65 (2036.77)	-129.67 (285.51)
<b>Medical card</b>	-2895.61* (1577.57)	425.90* (254.19)
<b>Equivalised disposable HH income</b>	0.075 (0.113)	0.00036 (0.018)
<b>Comorbidity count</b>	1286.59*** (462.42)	108.98** 54.256
<b>Mother – third level education or higher</b>	1920.917 (1613.796)	-675.30** (285.48)
<b>Rural</b>	1147.00 (1393.82)	583.47** (252.81)
AIC	20.45876	15.59762
BIC	-432.2919	-380.1333
Log Pseudo likelihood	-1145.91982	-855.6676486
N	113	111

\*\*\*denotes significant at 1%, \*\* denotes significant at 5%, \* denotes significant at 10%

<sup>a</sup> Model based on the exclusion of observations that GP service utilization of 25 visits or higher and one observation which had 52 visits to a Practice nurse in the previous year.



