



# The Prevalence of Autism (including Asperger Syndrome) in School Age Children in Northern Ireland 2019



# Reader Information

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Target Audience	Social Services Directors, Directors of Children's Services, Chief Executives of HSC Board and Trusts in Northern Ireland, health care professionals, academics and social care stakeholders.
Main uses of document	Data from this publication is used to monitor the delivery of social care services to children, to help assess Health and Social Care (HSC) Trust performance, corporate monitoring, to inform and monitor related policy, and to respond to parliamentary/assembly questions. The bulletin is also used by academics/ researchers, the voluntary sector and those with an interest in the Autism Strategy and Action Plan.
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- to disseminate findings widely with a view to stimulating debate, promoting effective decisionmaking and improvement in service provision; and
- *be an expert voice on social care information.*

www.health-ni.gov.uk/topics/dhsspsstatistics-and-research-social-services/socialcare-statistics Statistics and research for the **Department of Health** is provided by the Information and Analysis Directorate (IAD). It comprises four statistical sections: Hospital Information, Community Information, Public Health Information & Research and Project Support Analysis.

IAD is responsible for compiling, processing, analysing, interpreting and disseminating a wide range of statistics covering health and social care.

The statisticians within IAD are out posted from the Northern Ireland Statistics & Research Agency (NISRA) and our statistics are produced in accordance with the principles and protocols set out in the Code of Practice for Statistics.

#### **About Community Information Branch**

The purpose of Community Information Branch (CIB) is to promote effective decision making in children and adult social services by providing quality information and analysis.

We collect, analyse, and publish a wide range of community information that is used to help monitor the delivery of personal social services policy. Information collected by CIB is used to assess HSC Trust performance, for corporate monitoring, policy evaluation, and to respond to parliamentary/assembly questions.

Information is widely disseminated through a number of regular key statistical publications and ad hoc reports details of which are available online.

We gratefully acknowledge the assistance of colleagues working within the Department of Education, Demographic Statistics Branch (NISRA) and Public Health Information and Research Branch (Department of Health) in producing this publication.

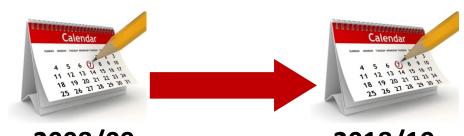
#### Introduction

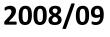
Autism is a developmental disability that influences a person's ability to communicate and relate to other people, as well as affecting how they make sense of the world. It is a spectrum condition, meaning that while all people with autism will have similar problems, overall their condition will impact them in different ways. Some people may be able to lead independent lives while others will require a lifetime of specialist support. Asperger Syndrome is a similar condition to autism; however these children do not generally experience the same language and learning disabilities associated with autism. They are more likely to have difficulties in the areas of social imagination, communication and interaction.

The need to develop and improve health and social care services for people of all ages who are affected by autism (including Asperger Syndrome) has been apparent for some time. In order to provide effective services, knowing the incidence and prevalence of this condition is clearly important. This report aims to show the prevalence of autism amongst children of compulsory school age (4–15 year olds at the start of the school year), as it is clear that autism persists and that children with autism become adults with autism, each with their own particular needs.

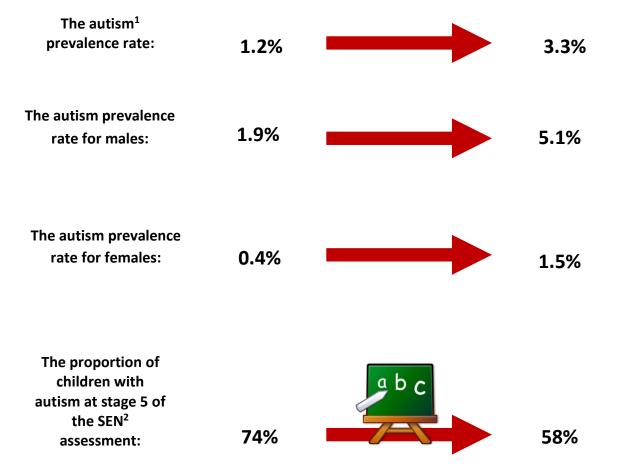
The introduction of the Autism Act (Northern Ireland) 2011 and the accompanying increase in awareness via campaigns and consciousness raising events, may well contribute to a rise in the number of assessments carried out and positive diagnoses processing through the system. The Health and Social Care Board have developed a routine monitoring process which identifies those children who have undergone an assessment for autism and those who have received a positive diagnosis. These figures are reported quarterly by the Department and can be found at the following link: <u>https://www.healthni.gov.uk/articles/autism-statistics</u>

For the purposes of this paper children identified as having Asperger Syndrome are included in all calculations of autism prevalence











The inequality gap continues to be prominent, with autism levels 58% higher in the most deprived decile compared to the Northern Ireland average during 2018/19

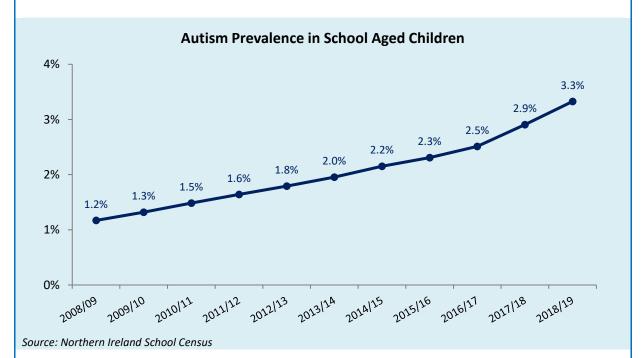
<sup>&</sup>lt;sup>1</sup> Refers to all children of compulsory school age (4 – 15 years old)

<sup>&</sup>lt;sup>2</sup> Special Educational Needs

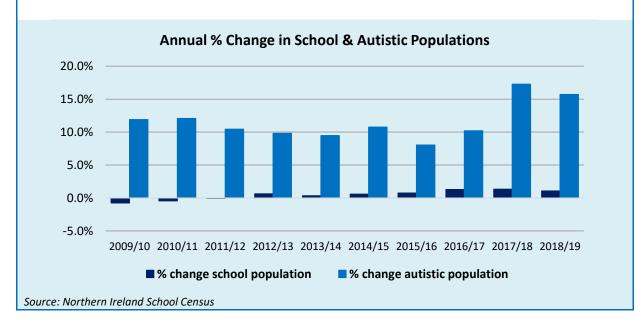
# **Overall Prevalence in Northern Ireland**

**3.3%** of school age children were identified with autism

The figures extracted from the Northern Ireland School Census show that the estimated prevalence of autism within the school aged population has increased by 2.1 percentage points, from 1.2% in 2008/09 to 3.3% in 2018/19. (See Appendix D for details)



The increase in prevalence of children with autism can be attributed to an annual average increase in the number of children identified with autism of 12% between 2009/10 and 2018/19, against a background of a relatively static school population.

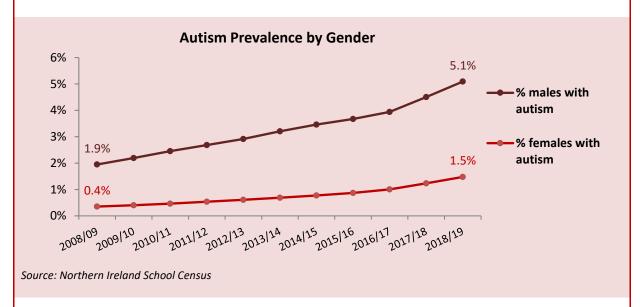


# Males were **3 times** more likely to be autistic than females

Gender

Previous studies have shown that more males than females have been diagnosed with autism, with ratios ranging from 2:1 to 16:1. The National Autistic Society (NAS) state that in 2015, the ratio of males to females using their adult services was 3:1 and those that use NAS schools was 5:1.

The information derived from the 2018/19 NI School Census follows the pattern outlined above with figures showing that 5.1% of males were identified with autism compared to 1.5% of females.



There was an increase of 3.1 percentage points in the prevalence of autism in the male population between 2008/09 and 2018/19. Over the same period of time the increase in the prevalence of autism in females was 1.1 percentage points.

There have been a number of possible explanations for the identified gender differences of those with autism. Researchers<sup>3</sup> have suggested that females may present differently than males and that the current diagnostic criteria do not recognise these differences.

A further premise is that the higher prevalence of autism amongst males is an exaggeration of normal differences in gender, as in general females have better communication skills

<sup>&</sup>lt;sup>3</sup> Gould, J. & Ashton-Smith, J. Missed diagnosis or misdiagnosis? Girls and women on the autism spectrum. *Good Autism Practice*, 2011, 12(1), 34 – 41

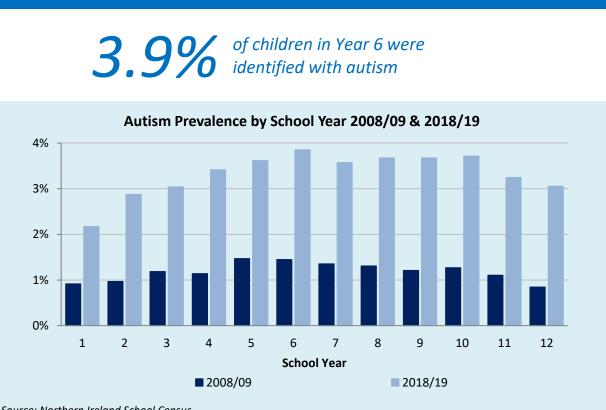
while males are more likely to be better at visual and spatial awareness tasks. Autism could therefore be considered to be an extreme of the normal male profile<sup>4</sup>.

Another hypothesis put forward is that the differences in autism can be explained by genetic differences between males and females<sup>5</sup>.

No matter the reason for the higher prevalence rate amongst males, both the rates of autism in both male and females have increased over the previous eleven years. The prevalence rate of autism in males is 2.7 times higher than in 2008/09 and the prevalence rate of autism in females is 3.8 times higher.

<sup>&</sup>lt;sup>4</sup> Baron-Cohen, S. The extreme male brain theory of autism. *Trends in Cognitive Sciences*, 2002, 6(6), 248 – 254 <sup>5</sup> Skuse, D.H. Imprinting, the X-Chromosome, and the Male Brain: Explaining Sex Differences in the Liability to Autism. *Pediatric Research*, 2000, 47, 9 – 9

# **School Year**



Source: Northern Ireland School Census

In general, prevalence across all school years was higher in 2018/19 compared with 2008/09. During 2008/09 the highest prevalence rate recorded was 1.5% for those in Year 5 (children aged 9) and the lowest was 0.8% for those in Year 12 (children aged 16). In comparison, during 2018/19, the highest prevalence rate recorded was 3.9% for those in Year 6 (children aged 10) and the lowest was 2.2% for those in Year 1 (children aged 5). Year 9 had the largest percentage point change between 2008/09 and 2018/19 of 2.5 percentage points.

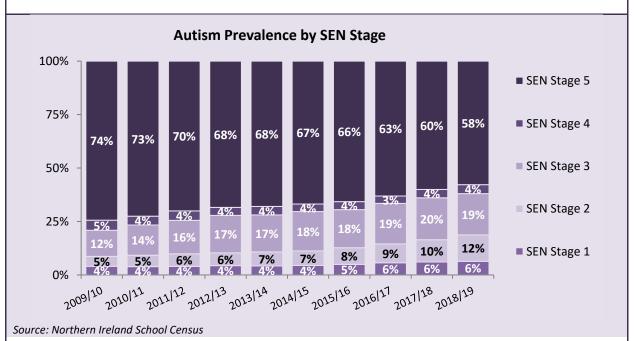
Looking at Years 1–6 (5–10 year olds) in 2018/19, there is a steady rise in the prevalence rate of autism. This may indicate that most identification of autism in school is occurring when children are aged between 5 and 10 years old.

### Special Educational Needs Stage

# 58%

of children with autism were at Stage 5 of the Special Educational Need Assessment

The Code of Practice on the Identification and Assessment of Special Educational Needs (SEN)<sup>6,7</sup> implements a five stage approach to the identification of children with learning difficulties, the assessment of their educational need and the making of whatever special educational provision is necessary to meet those needs. The initial three stages are dealt with by the school, while at stages 4 and 5 the education authority shares responsibility with the school. Children are reviewed on a yearly basis and may move up or down the assessment scale, depending on performance.



There has been a noticeable decline in the relative percentage of children at SEN stage 5 as opposed to stages 2 and 3, over the 8 years analysed. This indicates that of all the children identified as autistic, a lesser percentage required the level of intervention warranted by a stage 5 statement. It must be remembered that the overall numbers of children identified with autism have increased, so while the relative percentage of stage 5 children has

As the SEN process is dynamic, with children moving between stages, this 'snapshot' graph must be treated only as indicative<sup>8</sup>.

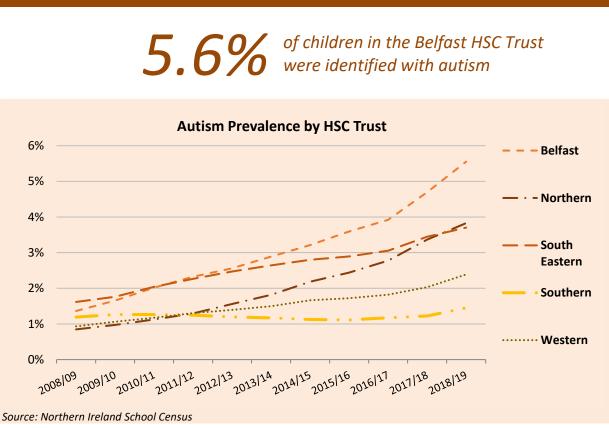
decreased, the absolute number has increased.

<sup>&</sup>lt;sup>6</sup> <u>https://www.deni.gov.uk/articles/special-educational-needs-code-practice</u>

<sup>&</sup>lt;sup>7</sup> The stages of the SEN process are detailed in Appendix B

<sup>&</sup>lt;sup>8</sup> The 2018/19 Northern Ireland School Census includes all pupils on the school roll at 5th October 2018, who have attended for at least one day, whether or not accommodated on the school's premises

## Health and Social Care Trust



Over the last eleven years the Southern HSC Trust has had a steady rate of autism prevalence among compulsory school age children. However the last year has shown a small rise in the autism prevalence rate. In each of the other four HSC Trusts the autism prevalence rates have steadily increased, with larger increase in each of the last two years. The autism prevalence rate in the Belfast HSC Trust has quadrupled between 2008/09 and 2018/19.

The autism prevalence rate in both the Belfast and South Eastern HSC Trusts has been consistently higher than the Northern Ireland average between 2008/09 and 2018/19. The rate of prevalence in the Northern HSC Trust was higher than the Northern Ireland average in each of the last five years. The largest percentage increase in the number of children identified as having autism in the past year, 20.2%, occurred in the Southern HSC Trust<sup>9</sup>.

<sup>&</sup>lt;sup>9</sup> Please note that the Southern HSC Trust has consistently had the lowest prevalence rate between 2008/09 and 2018/19

### **Urban/Rural Location** Children in urban areas were 1 ½ times more likely to be autistic than those in rural areas **Autism Prevalence by Location** 4% 3 90 3% 2% 7 1% 1 9% 8% 1.6% 1.5% 1% 0% 2010/11 2011/12 2012/13 2013/14 2014/15 2015/16 2016/17 2017/18 2018/19 2009/10 Rural Urban

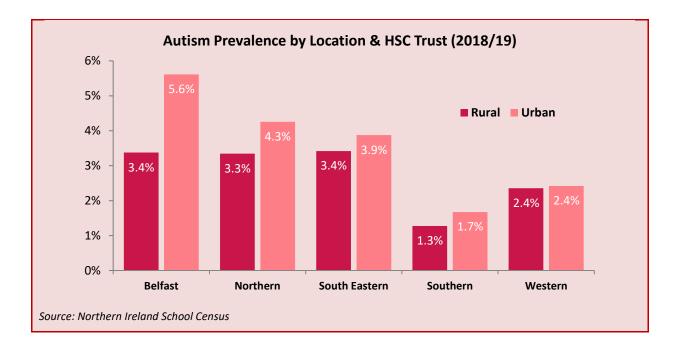
Source: Northern Ireland School Census

The autism prevalence rates have increased year on year in both urban and rural areas, between 2009/10 and 2018/19. It is evident that prevalence has been consistently higher in the urban population than the rural population with the largest difference registered in 2018/19 (1.4 percentage points). The differences in the proportion of children identified with autism in urban and rural areas at a regional level were statistically significant. This means that it is unlikely that the difference has occurred by chance alone.

The HSC Trust with the largest difference in autism prevalence rates between the urban and rural populations was the Belfast HSC Trust. It should be noted that this HSC Trust has the highest overall prevalence rate and is almost exclusively urban which has a significant impact upon the Northern Ireland figure. In each of the other HSC Trusts, there was a more even split between the urban and rural autistic populations.

The differences in prevalence rates between urban and rural areas were statistically significant during 2018/19 for all but the Western HSC Trust<sup>10</sup>.

 $<sup>^{\</sup>rm 10}$  See Appendix F for statistical significance trends for each HSC Trust

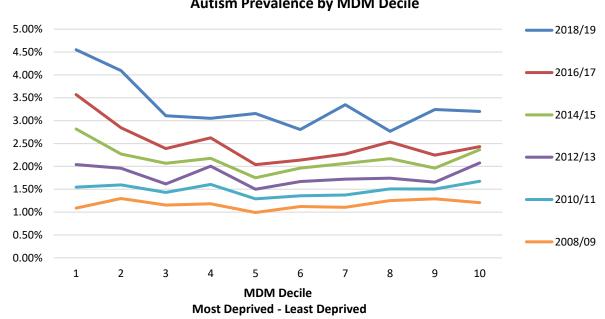


# Multiple Deprivation Measure Decile<sup>11, 12, 13</sup>

**14%** of children identified with autism were living in the most deprived decile of Northern Ireland

During 2018/19, 14% of children identified with autism were from the most deprived Multiple Deprivation Measure (MDM) decile in Northern Ireland, while 8% of children identified with autism were located in the least deprived decile of the country.

The statistical significance of the prevalence of autism and MDM Decile has been assessed each year. It has been found that the proportion of children identified with autism is associated with MDM Decile for each year from 2010/11 onwards.



Autism Prevalence by MDM Decile

Source: Northern Ireland School Census

We can see from the graph above an increase year on year in the prevalence of autism in each MDM Decile. Furthermore, the graph shows that initially, there was little difference between the deciles, however gradually, the prevalence in the most deprived areas have increased at a greater rate than the other deciles.

The prevalence of autism in the most deperived decile (1) has increased by 3.5 precentage points between 2008/09 and 2018/19, compared to a 2.0 percentage point increase in the least derpived decile (10) over the same period of time.

<sup>&</sup>lt;sup>11</sup> Information on the Northern Ireland Multiple Deprivation Measure can be found here: https://www.nisra.gov.uk/statistics/deprivation/northern-ireland-multiple-deprivation-measure-2017nimdm2017

<sup>&</sup>lt;sup>12</sup> Maps showing the most and least deprived deciles of Northern Ireland can be found in Appendix D

<sup>&</sup>lt;sup>13</sup> Please note that figures for 2008/09 – 2016/17 use MDM 2010 and 2017/18 onwards use MDM2017

## Inequality Gap

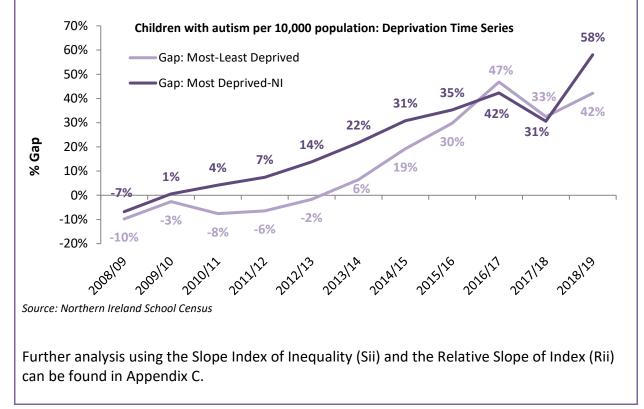
# The rate of autism in the most deprived decile was 58% higher than

#### the Northern Ireland average

The following analysis of the ASD inequality gap was carried out through the NI Health & Social Care Inequalities Monitoring System (HSCIMS)<sup>14</sup> which provides in-depth assessment of inequality gaps across a range of health and social care indicators.

The simple gap analysis shows that the rate of autism in school aged children in the 10% most deprived areas in Northern Ireland stood at 4,550 cases per 100,000 population in 2018/19. This was almost three fifths (58%) higher than the regional average, 2,879 cases per 100,000 population, and more than two fifths higher than the rate in the 10% least deprived areas (3,200 cases per 100,000 population).

In the years prior to 2013/14, rates were slightly higher in the least deprived areas than in the most deprived areas. However, since then the rate of autism amongst children in the most deprived areas has increased at a faster rate than in the least deprived. This has resulted in higher rates of autism being seen in the most deprived areas and a widening of the deprivation inequality gap.



<sup>&</sup>lt;sup>14</sup> https://wwww.health-ni.gov.uk/topics/dhssps-statistics-and-research/health-inequalities-statistics

# Appendix A – Technical Notes

#### **Data Collection**

The information presented in this bulletin derives from the 'Northern Ireland School Census' collected by the Department of Education (NI). All pupils on the rolls of grant-aided primary, post-primary and special schools were included in this return comprising each child who was a registered pupil in a school in October of each given year and who attended for at least one day.

The Census collects a large amount of information including demographic data, free school meal entitlement, looked after children numbers, newcomer children numbers and assessment data. This includes disability and a breakdown of those children identified with autism.

The data extracted from the 'Northern Ireland School Census' for use in this publication includes the number of children identified with autism (including Asperger's Syndrome) by Health and Social Care (HSC) Trust, multiple deprivation measure, urban/rural split, gender and school year.

#### **Data Quality**

There are a number of limitations to the data in this study and its use in establishing prevalence figures for autism.

Data is sourced from the school census which is not a diagnostic source. This is presently the most comprehensive data source available, it only covers those children of compulsory school age attending school. Information would suggest that there were approximately an additional 230 home taught children known to the education authority with no further details available.

The data only captures those children identified with autism, at any time there may be additional children who may be progressing through the full assessment process and it is possible that a number of children may be identified as having autism at a later date.

It should also be noted that there are many factors which can lead to variances in the apparent prevalence rates within the different breakdowns commented on in this bulletin, not least the assumption that there is consistency of approach in the care pathways as managed by the different HSC Trusts. In this regard, care should be taken when considering the findings, i.e. it is likely that at least some of the observed variation in prevalence may be attributable to differences in organisational structure and arrangements in place between/within HSC Trust areas.

#### **Rounding Conventions**

Percentages have been rounded and as a consequence some percentages may not sum to 100. A figure of 0% may reflect rounding down of values under 0.5%.

#### **Revisions Policy**

These data are revised by exception. If this occurs the circumstances of the revision are reported on our website and the dates figures are revised are noted both on the website and within the publication. The full revisions policy for statistics published by Information and Analysis Directorate is published on the Department's website.

#### Main Uses of Data

Data from this bulletin meets the information requirements of a wide range of internal and external users. It is used to monitor the delivery of social care services to children, to help assess HSC Trust performance, corporate monitoring, to inform and monitor related policy, and to respond to parliamentary/assembly questions. The bulletin is also used by academics/researchers, the voluntary sector and those with an interest in autism.

#### **Related Publications**

Data is published on the Department of Health website each quarter on the number of children referred for an assessment for autism and the number of children diagnosed with autism. Figures are provided for Northern Ireland and each HSC Trust area. This data can be found at the following link:

#### https://www.health-ni.gov.uk/articles/autism-statistics

#### **User Engagement**

If you have any comments on this publication please contact:

lain Waugh <u>iain.waugh@health-ni.gov.uk</u> Tel: 028 9052 8446

#### Next Release

The next release of these statistics is scheduled for May 2020. The publication release dates for statistical bulletins produced by Community Information Branch are available from the Department's website at:

https://www.health-ni.gov.uk/publications/statistical-releases-calendar

## Appendix B – Definitions

#### School Age

Children aged 4 – 15 years at the start of the school year are of compulsory school age.

#### Autism

Autism is a lifelong developmental disability that affects how a person communicates with and relates to other people and how they experience the world around them. Autism is often described as a 'spectrum disorder' because the condition affects people in many different ways and to varying degrees.

#### Asperger Syndrome

Asperger Syndrome is similar to autism; however people with this condition do not generally experience the same language and learning disabilities associated with autism. They are more likely to have difficulties in the areas of social imagination, social communication and social interaction.

#### Autism Act (Northern Ireland) 2011

The Autism Act (Northern Ireland) 2011 required the Department of Health, Social Services and Public Safety to lead on the development; implementation; monitoring and reporting of a cross-departmental Autism Strategy. The Autism Strategy (2013 – 2020) and Action Plan (2013 – 2016) was subsequently approved by the Northern Ireland Executive and launched in January 2014.

#### Prevalence

In order to establish the prevalence of autism within the compulsory school age population, the number of children who were attending school and had been identified with autism was divided by the total number of compulsory school age children attending school. This gave the proportion of children within the cohort who were identified with autism.

#### **Statistical Significance**

In order to test whether or not the relationship between two variables was statistically significant we used the chi-square test.

#### **Special Educational Needs (SEN) Assessment Stages**

#### Stage One

Teachers identify and register a child's special educational needs and, working with the schools special educational needs (SEN) co-ordinator, take initial action.

#### Stage Two

The (SEN) co-ordinator leads in collecting and recording information and for co-ordinating the child's special educational provision.

#### Stage Three

Teachers and the SEN co-ordinator are supported by specialists from outside school.

#### Stage Four

The Education Authority considers the need for a statutory assessment and may make a multidisciplinary assessment.

#### Stage Five

The Education Authority consider the need for a statement of special educational needs; if necessary it makes a statement and arranges, monitors and reviews provision.

#### Inequalities<sup>15</sup>

Statistical techniques such as the slope index of inequality and the relative index of inequality have been used to analyse socioeconomic inequalities between children identified with autism. More information on these can be found in the appendix.

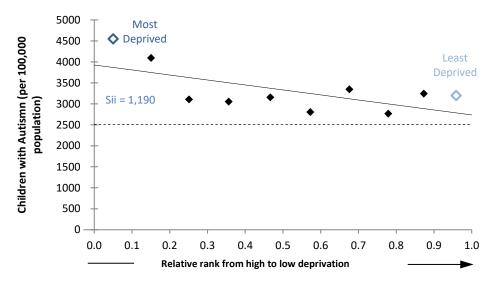
<sup>&</sup>lt;sup>15</sup>This method was used to analyse ASD figures against the Multiple Deprivation Measure

# Appendix C – Further Information

#### Slope Index of Inequality

In addition to the simple deprivation gap analysis presented in this publication, the following social gradient analysis has been undertaken to provide a fuller assessment of inequalities across all socio-economic groups in Northern Ireland. Further information on this follows the analysis below.

# Slope Index of Inequality – Children with Autism/Asperger's per 100,000 population (2018/19)

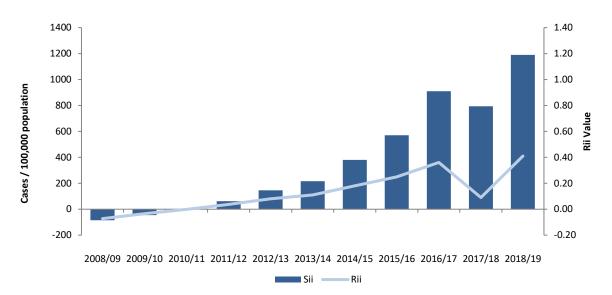


Source: Northern Ireland School Census

The slope of index of inequality (Sii) shows that the absolute gap in the rate of autism amongst children between the most and least deprived was 1,190 cases per 100,000 population in 2018/19.

Year	Simple Gap (MD-LD)	Sii	Rii
2018/19	42%	1,189.6	0.41
2017/18	33%	793.6	0.09
2016/17	47%	909.1	0.36
2015/16	30%	569.8	0.25
2014/15	19%	380.8	0.18
2013/14	6%	216.2	0.11
2012/13	-2%	146.1	0.08
2011/12	-6%	61.3	0.04
2010/11	-8%	1.9	0.00
2009/10	-3%	-45.2	-0.03
2008/09	-10%	-84.4	-0.07

Source: Northern Ireland School Census



Source: Northern Ireland School Census

The relative index of inequality (Rii) gives a proportionate gap of 0.41 in 2018/19 i.e. the Sii gap is equivalent to 41% of the average rate of autism amongst children in NI. As with the simple gap analysis, Rii indicates that the deprivation gap has changed from negative (higher rates in least deprived than most deprived) to positive (higher rates in most deprived than least deprived) over the analysed period. It should be noted that despite the simple gap indicating that this change in direction has only occurred in recent years, Rii shows that this change occurred much earlier and that the deprivation gap had been gradually widening since 2010/11.

#### **Further Information**

#### **Social Gradient**

Health and social care inequalities are often considered in terms of the gap between the most and least deprived quintiles/deciles of the population. However, this does not account for those areas of intermediate levels of deprivation that may also be relatively disadvantaged in terms of their health status. This is reflected in the Marmot Review<sup>16</sup> which demonstrated that there is a social gradient in health and its wider determinants that runs from top to bottom of the socioeconomic spectrum, meaning that health inequalities affect everyone. The social gradient is also a global phenomenon whereby socio-economic factors have considerable impact on the health and mortality of populations in low, middle and high income countries. The social gradient in health means that inequalities affect everyone.

Absolute gap (most-least deprived gap): This measure describes the absolute difference between the extremes of deprivation. It has the advantage that it is intuitive and straightforward to explain, but the disadvantage that, because it focuses only on the extremes of deprivation, it does not take account of patterns of inequalities observed across the intermediate groups.

<sup>&</sup>lt;sup>16</sup> Fair Society, Healthy Lives: The Marmot Review can be accessed at http://www.marmotreview.org

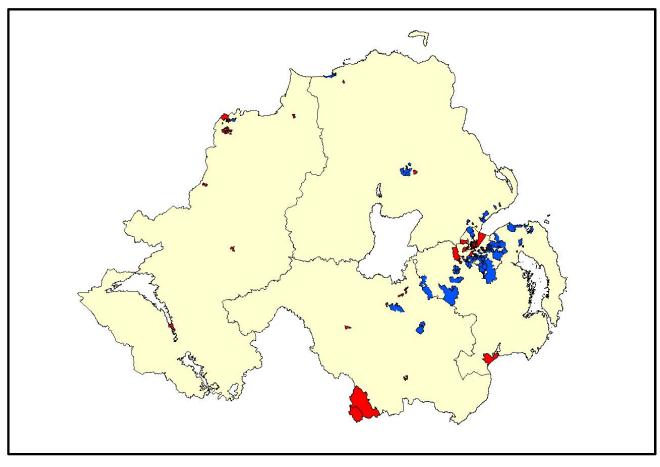
**Slope index of inequality (SII):** This measure describes the gradient of health observed across the deprivation scale. While the absolute gap shows the difference between two large groups, SII measures the difference in health outcomes between the theoretical most and least deprived individuals, according to linear regression across health outcomes for all deprivation deciles. SII therefore has the advantage of being sensitive to the experience of the entire population, rather just the extremes of deprivation. For example, an equal rate across all deprivation categories would give a horizontal line with a slope of zero (SII=0) indicating that there is no evidence of inequality. The level of inequality is shown by the magnitude of the gradient, regardless of direction.

**Relative index of inequality (RII):** The RII describes the gradient of health observed across the deprivation scale, relative to the average for the observed population (by dividing the Slope of Index of Inequality (SII) by the mean). The value of RII tells you the magnitude of inequality in relation to the mean thus representing the proportionate change in the health outcome across the population. It allows inequalities to be compared and contrasted across a number of different health indicators, and also to be monitored over time. As with SII, a value of zero for RII indicates no evidence of inequality. The higher the RII value is, the higher the level of inequalities that exist in the population.

For further information regarding the Social Gradient of Health and its methodology, please refer to the Health Inequalities Annual Report:

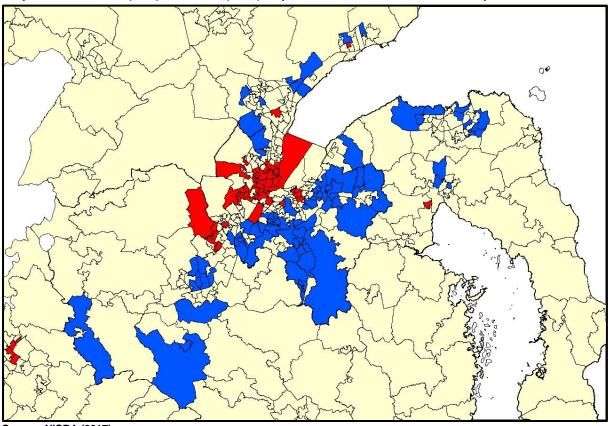
https://www.health-ni.gov.uk/publications/health-inequalities-annual-report-2019

# Appendix D – Deprivation Maps



Map One: The Most (Red) and Least (Blue) Deprived Areas in Northern Ireland (MDM 2017)

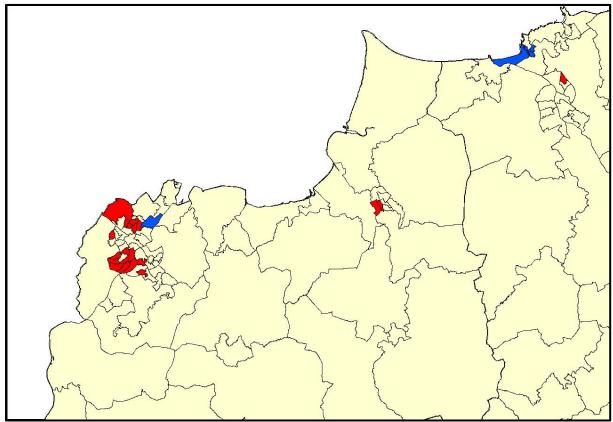
Source: NISRA (2017)



Map Two: The Most (Red) and Least (Blue) Deprived Areas in the Belfast Metropolitan Urban Area

Source: NISRA (2017)

Map Three: The Most (Red) and Least (Blue) Deprived Areas in the Derry Urban Area



Source: NISRA (2017)

# Appendix E - No. of children identified with Autism

Trust	Year						
	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
Belfast	1,195	1,366	1,539	1,739	1,932	2,356	2,829
Northern	1,094	1,280	1,543	1,728	1,982	2,428	2,779
South Eastern	1,278	1,377	1,465	1,522	1,627	1,869	2,036
Southern	712	708	691	690	741	793	953
Western	670	724	805	832	884	993	1,169
Unknown	37	3	2	17	32	3	2
Northern Ireland	4,986	5,458	6,045	6,528	7,198	8,442	9,768

Source: Northern Ireland School Census

# Appendix F – Statistical Significance Trends – Urban/Rural Autism Prevalence

Year	HSC Trust					
	Belfast	Northern	South Eastern	Southern	Western	
2009/10	No	No	No	Yes	Yes	
2010/11	No	No	No	Yes	No	
2011/12	No	No	No	Yes	No	
2012/13	No	Yes	No	Yes	No	
2013/14	No	Yes	No	Yes	No	
2014/15	No	Yes	No	Yes	No	
2015/16	No	Yes	Yes	Yes	No	
2016/17	No	Yes	Yes	No	Yes	
2017/18	Yes	Yes	Yes	Yes	No	
2018/19	Yes	Yes	Yes	Yes	No	

Source: Northern Ireland School Census

# For further information on **The Prevalence of Autism (including Asperger's Syndrome) in School Age Children in Northern Ireland**

#### Contact:

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