ABSTRACT

Objectives  Autistic people experience poor physical and mental health along with reduced life expectancy compared with non-autistic people. Our aim was to identify self-reported barriers to primary care access by autistic adults compared with non-autistic adults and to link these barriers to self-reported adverse health consequences.

Design  Following consultation with the autistic community at an autistic conference, Autscape, we developed a self-report survey, which we administered online through social media platforms.

Setting  A 52-item, international, online survey.

Participants  507 autistic adults and 157 non-autistic adults.

Primary and secondary outcome measures  Self-reported barriers to accessing healthcare and associated adverse health outcomes.

Results  Eighty per cent of autistic adults and 37% of non-autistic respondents reported difficulty visiting a general practitioner (GP). The highest-rated barriers by autistic adults were deciding if symptoms warrant a GP visit (72%), difficulty making appointments by telephone (62%), not feeling understood (56%), difficulty communicating with their doctor (53%) and the waiting room environment (51%). Autistic adults reported a preference for online or text-based appointment booking, facility to email in advance the reason for consultation, the first or last clinic appointment and a quiet place to wait. Self-reported adverse health outcomes experienced by autistic adults were associated with barriers to accessing healthcare. Adverse outcomes included untreated physical and mental health conditions, not attending specialist referral or screening programmes, requiring more extensive treatment or surgery due to late presentations and untreated potentially life-threatening conditions. There were no significant differences in difficulty attending, barriers experienced or adverse outcomes between formally diagnosed and self-identified autistic respondents.

Conclusions  Reduction of healthcare inequalities for autistic people requires that healthcare providers understand autistic perspectives, communication needs and sensory sensitivities. Adjustments for autism-specific needs are as necessary as ramps for wheelchair users.

INTRODUCTION

Autism is a common neurodevelopmental condition affecting 1%–2% of the population.1 While autism is lifelong and heterogeneous in presentation, most autistic people are adult, do not have intellectual disability and are likely to be undiagnosed.2 Doctors may underestimate the number of autistic patients under their care.3,4 Autistic adults have poor physical and mental health compared with the general population.5 Most medical conditions are more prevalent in the autistic population.6,7 including diabetes, hypertension and obesity.8 Autistic people experience premature mortality.9–11 Life expectancy is potentially reduced by 16–30 years, with increased mortality across almost all diagnostic categories.9 In-hospital mortality is also increased.12 Autistic people are over two times as likely to use emergency departments13 and to die after attending emergency care and three times as likely to require inpatient admission.14

Alongside increased health needs, autistic people report a greater likelihood that these needs are unmet.15 Pervasive, multifactorial barriers to healthcare access are experienced.16 Some are shared by other disabled people, but autistic patients experience additional autism-specific barriers.17
Patient–provider communication, sensory sensitivities, executive functioning/planning difficulties and prior negative experiences with healthcare providers are important barriers.\(^{17,18}\)

In response to primary legislation\(^{19}\) and statutory guidance,\(^{20}\) the Royal College of General Practitioners developed an Autism Patient Charter.\(^{21}\) This recommended: staff awareness and training; autism friendly environment; reasonable adjustments following disclosure or clinical suspicion of autism; patient-tailored communications and behaviour-sensitive accommodations.\(^{21}\) Despite efforts to champion autism, proposals to formalise autism training\(^{18,22}\) and specific awareness-raising interventions,\(^{21}\) almost 40% of general practitioners (GPs) report no formal training in autism.\(^{22}\) They also report limited confidence in managing autistic patients.\(^{22}\) Greater autism awareness exists where GPs have personal knowledge of autism, either through a relative or friend on the autistic spectrum, or because they themselves are autistic.\(^{22}\) Communication skills training for healthcare providers may be the most pressing need.\(^4\) GPs,\(^22\) and hospital specialists\(^3\) report difficulties communicating with autistic patients. Only 25% of primary healthcare providers reported high confidence in communicating with autistic adult patients or identifying and making necessary accommodations.\(^4\)

This study primarily aimed to identify self-reported barriers to accessing primary healthcare faced by autistic adults with a focus on autism-specific communication, sensory issues and procedural considerations. Secondary aims included capturing self-reported adverse health outcomes and the associations between these and reported healthcare access barriers, adding a narrative frame to the existing evidence base around health disparities. This is to our knowledge the largest study of primary healthcare access barriers to date and benefits from a high degree of participatory design by the autistic community.

METHODS
Conception and design
Here, we present part of a larger cross-sectional study. This work was inspired by a quality improvement project designed to inform autism training for local healthcare providers as part of an ‘Autism Friendly Town’ initiative by AsIAm, Ireland’s National Autism Charity.\(^{23,24}\) In 2018, MD attended Autscape,\(^{25}\) an annual conference by and for autistic people. Participants of all ages are welcome at Autscape, including those who are non-speaking, have high support needs or require full-time care, although the majority of attendees typically have low to moderate support needs. While there, MD distributed an online survey to investigate barriers to primary healthcare in a larger sample of autistic adults, compared with a non-autistic adult comparison group. Nine autistic adults assisted with refining the survey. The resulting survey contained a mix of quantitative questions and free comment boxes. Quantitative questions included yes–no responses, single-item and multiple-item selections from a list and Likert scales. We asked about specific barriers encountered accessing healthcare, reasons for delaying or avoiding a visit and difficulties booking, planning or waiting for a GP visit. We explored the challenges during a consultation, including communication, sensory and organisation issues as well as available social supports. We also explored the impact of such barriers including self-reported consequences of failure to access healthcare and the reasonable adjustments to standard care which facilitate access. We used Google Forms to host the survey.

Piloting and refinement
We piloted the survey in 2018. Preliminary analysis revealed a recurring theme of total non-engagement with healthcare providers, despite expressed healthcare needs. Consequently, we altered the survey to add response options applicable to non-attenders. Our research team, comprising autistic and non-autistic GPs, experienced academics and other autistic individuals, adapted and refined the survey into its final 52-item form.

Sampling, recruitment and data collection
Autistic adults were recruited using a convenience sampling approach, through Twitter, Facebook and the AsIAm website. We recruited non-autistic controls (without autistic children) through personal and professional contacts of research team members, local area groups and parenting groups on social media. Recruitment took place in August 2019. We provided participant information, with informed consent implied through subsequent completion of the questionnaire. We asked respondents, particularly those who were parents, to respond specifically about seeking healthcare for themselves. For those identifying as autistic, we asked if they were formally diagnosed or self-identified.

Data analysis
We used the statistical package ‘R’ to assess significance of between-group associations using a test of proportions and a Wilcoxon-Mann-Whitney U test. Participants who skipped questions were omitted from the analyses of those questions. We intend to present our qualitative results elsewhere.

Patient and public involvement
Our study was conducted by an autistic-led research team including autistic medical doctors, using participatory methods. In addition, nine autistic individuals assisted with developing and refining the survey into its final form.
Alongside difficulty using the telephone, not feeling understood was a reason to avoid or delay for 56% of autistic respondents compared with 37% of non-autistic respondents (62% vs 16%, difference 46%, 95% CI (31.5% to 44.6%), p<0.001). Fifty nine per cent of autistic respondents reported difficulty communicating during a consultation ‘all the time’ or ‘frequently’ compared with 12% of non-autistic respondents (p<0.001). Seventy eight per cent of autistic adults reported that ‘anxiety makes it harder to communicate’.

Autistic respondents reported avoiding the telephone (78%), voicemail (61%) and face-to-face verbal communication (30%). Forty one per cent reported that it is ‘easier for me to communicate in writing’ (table 2).

### Sensory processing

The waiting room environment was a barrier for 51% of autistic respondents, but only 8% of non-autistic respondents. Specific sensory barriers are detailed in table 3. Sensory issues made communication more difficult for 31% of the autistic group (see table 2). Only 10% of autistic respondents marked ‘none of the above’ to sensory questions compared with 71% of non-autistic respondents.

### Perceived stigma

Only 3% of autistic respondents stated they did not feel anxious going to the doctor, compared with 33% of non-autistic respondents (difference 30%, 95% CI (−37.7% to −21.8%), p<0.001). Autistic respondents reported being ‘concerned I won’t be taken seriously when I describe my symptoms’ (67%); worried about ‘wasting the doctor’s time’ (66%) and ‘being considered a hypochondriac’ (65%). They also reported difficulty ‘asking for help’ (63%) and ‘discussing mental health’ (59%). Autistic respondents reported that unusual behaviour or stimming elicited negative reactions from other patients (15%), reception staff (9%) or medical staff (7%) (online supplemental table 2).

### Planning and organising

Autistic respondents reported difficulties with summarising when describing medical problems, with 66% noting the ‘need to give the whole story and not leave anything out’ compared with 12% of non-autistic respondents (difference 54%, 95% CI (47.1% to 60.9%), p<0.001). Autistic respondents reported difficulties with organisation and planning for healthcare, including difficulties ‘making an appointment in advance’ (59%), ‘prioritising my health issues’ (58%) and ‘making changes to my lifestyle or habits’ (56%). Forty five per cent reported forgetting a medical appointment and 30% had attended on the wrong day (online supplemental table 3).

### Predictability and control

Autistic respondents reported more difficulty with uncertainty than non-autistic respondents. Particular difficulties included not knowing the wait duration (70% vs 30%, difference 40%, 95% CI (31.5% to 48.7%), p<0.001), what would happen during the consultation (63% vs 16%,

### Table 1 Participant data

|                      | Autistic   | Non-autistic |
|----------------------|------------|--------------|
| Participants (n)     | 507        | 157          |
| Age                  | Median (range) | 38 (17–73)  | 38 (18–70)  |
| Gender               |            |              |
| Male                 | 99 (20%)   | 16 (10%)     |
| Female               | 311 (62%)  | 132 (85%)    |
| Non-binary           | 83 (17%)   | 7 (5%)       |
| Prefer not to say    | 9 (2%)     | 1 (1%)       |
| Location             |            |              |
| UK                   | 330 (65%)  | 67 (43%)     |
| Ireland              | 77 (15%)   | 63 (40%)     |
| North America        | 44 (9%)    | 20 (13%)     |
| Other                | 56 (11%)   | 7 (4%)       |
| Formal diagnosis of autism | 77%      |              |
| By psychiatrist      | 25%        |              |
| By clinical psychologist | 48%   |              |
| By multidisciplinary team | 26%     |              |
| Age at diagnosis     | Median (range) | 33 (2–67)  |              |

**RESULTS**

### Participants

We are reporting 664 responses to the online survey: 507 autistic adults and 157 non-autistic adults (table 1). Unless otherwise specified, results relate to primary care.

### Barriers to access

The most common reason for a GP visit was a physical condition or illness in both groups (86% vs 92%, n.s.). Autistic individuals were more likely to attend for mental health difficulties (61% vs 27%, difference 34%, 95% CI (25.2% to 42.3%), p<0.001). Twenty-two per cent of the autistic group but only 6% of non-autistic respondents (difference 54%, 95% CI (31.5% to 48.7%), p<0.001). Fifty nine per cent of autistic respondents reported difficulty communicating during a consultation ‘all the time’ or ‘frequently’ compared with 12% of non-autistic respondents (p<0.001). Seventy eight per cent of autistic adults reported that ‘anxiety makes it harder to communicate’.

Autistic respondents reported avoiding the telephone (78%), voicemail (61%) and face-to-face verbal communication (30%). Forty one per cent reported that it is ‘easier for me to communicate in writing’ (table 2).
### Table 2  Communication barriers

| Reasons to avoid or delay GP visit (communication)                                                                 | Autistic n (%) | Non-autistic n (%) | Difference (95% CI)                      | P value |
|---------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-----------------------------------------|---------|
| Difficulty using the telephone to book an appointment                                                               | 314 (62)       | 25 (16)           | 46% (38.5% to 53.5%)                    | <0.001  |
| Not feeling understood                                                                                              | 283 (56)       | 21 (13)           | 42% (35.2% to 49.7%)                    | <0.001  |
| Difficulty communicating with the doctor during the appointment                                                     | 269 (53)       | 10 (6)            | 47% (40.5% to 52.9%)                    | <0.001  |
| Difficulty communicating with the reception staff                                                                    | 235 (46)       | 13 (8)            | 38% (31.5% to 44.6%)                    | <0.001  |

**Communication preferences**

| Telephone generally avoided where possible                                                                         | 395 (78)       | 59 (38)           | 40% (31.5% to 49.1%)                    | <0.001  |
| Voicemail generally avoided where possible                                                                         | 311 (61)       | 61 (39)           | 23% (13.3% to 31.6%)                    | <0.001  |
| Verbal, face-to-face communication generally avoided where possible                                                | 152 (30)       | 12 (8)            | 22% (16.2% to 28.5%)                    | <0.001  |
| It is easier for me to communicate in writing                                                                       | 208 (41)       | 13 (8)            | 33% (26.3% to 39.2%)                    | <0.001  |

**Communication challenges**

| Anxiety makes it harder to communicate                                                                                 | 395 (78)       | 42 (23)           | 51% (42.9% to 59.4%)                    | <0.001  |
| Sensory issues make communication more difficult                                                                      | 156 (31)       | 2 (1)             | 30% (24.7% to 34.3%)                    | <0.001  |
| I need extra time to process what is being said                                                                        | 286 (56)       | 12 (8)            | 49% (42.4% to 55.2%)                    | <0.001  |
| I can’t describe my pain or symptoms accurately                                                                      | 272 (54)       | 36 (23)           | 31% (22.4% to 39.0%)                    | <0.001  |
| Verbal communication is difficult                                                                                        | 234 (46)       | 11 (7)            | 39% (32.8% to 45.5%)                    | <0.001  |
| I express emotions differently for example, I can appear angry when I am afraid or in pain                           | 227 (45)       | 6 (4)             | 41% (35.3% to 46.6%)                    | <0.001  |
| I have difficulty prioritising when describing medical symptoms                                                       | 333 (66)       | 34 (22)           | 44% (36.0% to 52.1%)                    | <0.001  |
| I need to give the whole story and not leave anything out                                                              | 332 (66)       | 18 (12)           | 54% (47.1% to 60.9%)                    | <0.001  |
| None of the above (communication)                                                                                   | 11 (2)         | 58 (37)           | −35% (−42.8% to −26.7%)                 | <0.001  |

GP, general practitioner.
difference 47%, 95% CI (39.7% to 54.7%), p<0.001), which doctor they would see (58% vs 24%, difference 33%, 95% CI (25.0% to 41.8%), p<0.001) and the consultation length (40% vs 8%, difference 32%, 95% CI (25.6% to 38.4%) p<0.001).

Support needs
Autistic adults reported physical mobility needs (16%) and unmet support needs in primary care, for example, ‘needing a support person to come with me’ (21%). This extended to secondary care: 17% had no one to support unexpected hospital admission, collection from hospital (20%) or home care following discharge (26%) (online supplemental table 4).

Adverse consequences
Autistic respondents reported adverse consequences more frequently than non-autistic respondents, including untreated mental (69%) and physical (63%) health conditions. Notably, 60% were told they ‘should have seen a doctor sooner’ and 47% ‘did not attend referral to a specialist’. Thirty-six per cent ‘required more extensive treatment or surgery’ and 34% did not access treatment for a ‘potentially serious or life-threatening condition’. Additionally, they were less likely to ‘attend on schedule for screening programmes’ than the non-autistic respondents (39% vs 21%, difference 18%, 95% CI (9.8% to 26.2%), p<0.001) (figure 1).

Compared with autistic respondents who had no difficulty visiting a doctor, those who experienced difficulty (80%) reported more untreated mental and physical health conditions (p<0.001). They were also more likely to not attend specialist referral (p<0.001), to need more extensive treatment (p=0.009), to experience untreated life-threatening conditions (p=0.006) and to not attend screening (p=0.028) (figure 2). Four per cent of autistic respondents reported no access to primary healthcare and did not attend any doctor at all. This group differed from the non-autistic respondents who reported no access to primary healthcare (5%) in two areas: all had difficulty visiting the doctor when needed, compared with 50% of non-attending non-autistic respondents (p<0.002); and 95% of autistic non-attenders had experienced at least one delayed treatment outcome, compared with 43% of non-attending, non-autistic respondents (p=0.01). There were no significant differences in difficulty attending a GP, the barriers experienced or adverse outcomes between formally diagnosed and self-identified autistic respondents.

Facilitators
While most respondents (67% vs 65%) reported booking an appointment online would facilitate access, autistic patients selected a need to ‘email my doctor in advance with a description of the issue I need to discuss’ (62%), ‘wait in a quiet place or outside until my turn’ (56%) and ‘book an appointment by text’ (41%).
Geographical variations

Some barriers to access for autistic respondents varied by geographical location (UK vs elsewhere in the world). Autistic respondents from the UK had more difficulty using the telephone to book appointments (66% vs 54%, p=0.012) and found their online appointment booking systems more confusing (25% vs 10%, p=0.001). However, autistic respondents from the UK were less likely to experience no barriers to access at all (0.3% vs 2.8%, p=0.038). Autistic respondents from the UK also found it harder to see a known or preferred doctor (58% vs 29%, p<0.001), reported longer waits to get appointments (56% vs 33%, p<0.001) and were less likely to experience no barriers to access at all (0.3% vs 2.8%, p=0.038).

Table 4 Barriers and outcomes associations for autistic respondents

| Outcome                                      | Untreated mental health condition (p) | Untreated physical health condition (p) | Specialist referral missed (p) | Told they should have presented sooner (p) | More extensive treatment or surgery required (p) | Serious or life-threatening condition (p) |
|----------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------|---------------------------------------------|---------------------------------------------|-----------------------------------------|
| Difficulty using the telephone to book an appointment | p<0.001                               | p<0.001                                 | p=0.036                         | p=0.015                                     | n.s.                                        | p=0.007                                 |
| Difficulty with advance planning             | p=0.020                               | p=0.032                                 | p<0.001                         | p=0.030                                     | n.s.                                        | n.s.                                    |
| Difficulty communicating with reception staff | p<0.001                               | p<0.001                                 | p=0.008                         | p<0.001                                     | p=0.041                                     | p=0.004                                 |
| Difficulty communicating with the doctor during the appointment | p<0.001                               | p<0.001                                 | p<0.001                         | p=0.003                                     | p=0.003                                     | p=0.002                                 |
| The waiting room environment                 | p=0.007                               | p=0.001                                 | n.s.                            | p=0.010                                     | p=0.001                                     | n.s.                                    |
| Inability to see a known or preferred doctor | p=0.018                               | p=0.001                                 | n.s.                            | p=0.027                                     | n.s.                                        | n.s.                                    |
| Waiting to see the doctor is too difficult   | p=0.018                               | p=0.001                                 | n.s.                            | n.s.                                        | p=0.026                                     | n.s.                                    |
| Not feeling understood                       | p<0.001                               | p<0.001                                 | n.s.                            | n.s.                                        | n.s.                                        | p=0.026                                 |
| Needing a support person to come with me     | n.s.                                  | p=0.002                                 | n.s.                            | p=0.004                                     | p=0.009                                     | p=0.002                                 |

n.s, not significant.
Associations between barriers and outcomes for autistic respondents

Table 4 outlines associations between reported barriers and outcomes for autistic respondents. There were no significant associations between any adverse outcomes and difficulty deciding if symptoms warrant a GP visit, not having an online booking system, having a confusing online booking system, having a long wait to get an appointment or having enough time to visit a doctor. In contrast, difficulty communicating with reception staff and difficulty communicating with the doctor during appointments were both significantly associated with all adverse outcomes.

Difficulty using the telephone to book an appointment was significantly associated with all adverse outcomes apart from having to undergo more extensive treatment or surgery than if they had attended sooner. Challenges with the waiting room environment were significantly associated with all adverse outcomes apart from missing specialist referrals and having a potentially serious or life-threatening condition for which they did not access treatment. Difficulty planning an appointment in advance was significantly associated with all adverse outcomes apart from having a potentially serious or life-threatening condition for which they did not access treatment, and having to undergo more extensive treatment or surgery than if they had attended sooner. Needing a support person to attend appointments was significantly associated with all adverse outcomes apart from having had a mental health condition remain untreated due to difficulties accessing healthcare and being told they should have presented sooner. Not feeling understood was significantly associated with all adverse outcomes apart from being told they should have presented sooner and having to undergo more extensive treatment or surgery than if they had attended sooner.

The inability to see a known or preferred doctor was significantly associated with having both untreated mental and physical health conditions. It was also significantly associated with being told they should have presented sooner. Finding waiting to see a doctor too difficult was significantly associated with having both untreated mental and physical health conditions. It was also significantly associated with having to undergo more extensive treatment or surgery than if they had attended sooner.

Reporting no barriers to access healthcare had no significant associations with any of the adverse outcomes.

DISCUSSION

Our study describes the results of a survey of autistic adults and compares their experiences with non-autistic adults. It highlights barriers faced by autistic people accessing and engaging with primary healthcare. In our study, these included greater difficulties deciding when to seek care, reluctance to bother their GP, difficulties planning appointments and greater communication difficulties—with particular emphasis on telephone use. Communication was also impaired by anxiety and sensory issues. We linked those barriers to self-reported adverse outcomes. Our data indicated that autistic people may present for healthcare later in the natural course of an illness. Autistic participants reported reduced attendance for screening, late presentations, missed opportunities for early detection and more extensive therapy being required. They also delayed or avoided healthcare because they did not feel understood by their doctors. Furthermore, a substantial minority of autistic adults did not disclose their autism diagnosis, which may impede identification of their autism-specific needs. These barriers may have real consequences, as evidenced in reduced life expectancy, and higher levels of physical and mental health conditions among autistic people.

Comparison with the existing literature

This study confirms the findings of Vohra, Raymaker and several recent reviews, which all identified three groups of barriers: (1) patient-level factors; (2) provider-level factors and (3) system-level factors. Our study stratifies individual barriers from the perspective of autistic individuals. We couple these barriers to self-reported adverse consequences, highlighting factors that may lead to excess morbidity and mortality in the autistic population.

Strengths and limitations

Our study arose from a community-identified need to develop autism awareness training for healthcare providers. It benefited from an autistic-led research team, including autistic doctors, using participatory methods. Our study provided a unique picture of autistic adults’ healthcare experiences, including those entirely excluded from healthcare due to access barriers. In particular, we highlighted the difficulties with using the telephone which is a distilled, concentrated essence of verbal communication.

As we used a convenience sample and self-report survey, generalisability of the data may be limited. Respondents required the ability to complete the survey, which excluded those with reduced ability to self-report. While we did not set out to create a validated tool, our survey may have benefited from some validity and reliability testing. As the initial quality improvement questionnaire was undertaken in the UK, we did not include issues specific to other healthcare systems, such as cost or insurance. Our analyses did not account for potential confounding factors, such as ethnicity or socioeconomic status. Female participants were over-represented in both groups, which is not unusual for online surveys, but it is interesting given the higher rate of autism diagnosis in men. While we noted significant gender differences in relation to non-binary participants, these participants were almost all autistic and we were, therefore, unable to attribute differences to gender identity or autism with.
Toolkit28 includes a publicly available online programme, lexicographic for autistic adults. The AASPIRE Healthcare with a vulnerable population,29 similar approaches care facilitators in general practice have shown benefit and researched. Social care interventions and health-toolkit in NHS General Practice should be considered healthcare accommodations. Adaptation of such a which generates a computerised report of required accommodations.27 Our data suggest that this could be problematic for autistic adults. The AASPIRE Healthcare Toolkit28 includes a publicly available online programme, which generates a computerised report of required healthcare accommodations. Adaptation of such a toolkit in NHS General Practice should be considered and researched. Social care interventions and healthcare facilitators in general practice have shown benefit with a vulnerable population,29 similar approaches could benefit an autistic population. The significant difficulties among the small number of autistic people not registered with any GP indicate a need for further research into this group.

Implications for clinical practice
Based on online supplemental table 5 and the lived experience of the autistic members of our research team, figure 3 outlines our proposed elements of an autism friendly practice. Such adjustments may minimise anxiety, manage sensory issues and ensure mutual understanding—promoting clear, unambiguous communication. Autism friendly practices should employ a personalised approach, with a healthcare access needs assessment and, where possible, a specialist liaison nurse or facilitator.

Implications for policy
Given the identified barriers, the extension of annual health checks to autistic adults30 31 and the recently announced Oliver McGowan Mandatory Training in Learning Disability and Autism32 are welcome. These will likely bring important benefits provided they are informed by the autistic community and autistic health-care providers. Autism registers in GP practice have been recommended.33 34 The success of such initiatives will likely depend on greater awareness by medical practitioners of autistic culture and communication needs. Specific training for GPs during core training and continuing professional development may be beneficial. GPs with a special interest in autism should be facilitated to develop their skills, but management of general health needs and co-occurring conditions fall within the remit of every GP. Implementing existing autism legislation or development where lacking is required in order to reduce health inequities for autistic people.

CONCLUSIONS
Autistic people face barriers accessing the healthcare system, followed by difficulties interacting with healthcare providers, which may contribute to known healthcare disparities, including increased morbidity and mortality. Our study has highlighted a variety of specific barriers to accessing primary healthcare for autistic adults, including use of the telephone to book appointments, not feeling understood, and difficulty communicating with doctors as well as sensory and organisational issues, which impede healthcare access. We identified a variety of significant associations between self-reported barriers to healthcare access and adverse outcomes for autistic respondents. One of our most impactful findings was the lack of any significant differences between formally diagnosed and self-identified autistic respondents in difficulty attending a GP, barriers experienced or self-reported adverse healthcare outcomes. Progress towards eliminating healthcare disparities for autistic people may be achieved by understanding the healthcare experiences and access barriers for this vulnerable patient group. These barriers represent not so much a failure to deliver or to avail of healthcare, but a lack of intersection between the communication patterns of autistic healthcare users and non-autistic providers. Reasonable accommodations are legally35 and morally required. Adjustments for communication needs are as necessary for autistic people as ramps for wheelchair users.

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Figure 3 Autism friendly general practice.
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### Table S1 Access Barriers to Healthcare

**Which of the following would cause you to delay or avoid seeing your doctor when you need to?**

|                                           | Autistic n (%) | Non-autistic n (%) | Difference (95% Confidence Interval) | p value   |
|------------------------------------------|----------------|--------------------|--------------------------------------|-----------|
| Difficulty deciding if symptoms warrant a GP visit | 366 (72%)      | 102 (65%)          | 7% (CI -1.6%, 16.1%)                 | p=0.102 ns|
| Difficulty using the telephone to book appointment | 314 (62%)      | 25 (16%)           | 46% (CI 38.5%, 53.5%)                | p<0.001   |
| Not feeling understood                   | 283 (56%)      | 21 (13%)           | 42% (CI 35.2%, 49.7%)                | p<0.001   |
| Difficulty communicating with the doctor during the appointment | 269 (53%)      | 10 (6%)            | 47% (CI 40.5, 52.9%)                 | p<0.001   |
| The waiting room environment             | 256 (51%)      | 12 (8%)            | 43% (CI 36.4%, 49.3%)                | p=0.001   |
| Long wait to get an appointment          | 251 (50%)      | 70 (45%)           | 5% (CI -4.4%, 14.2%)                 | p=0.324 ns|
| Difficulty planning an appointment in advance | 243 (48%)      | 51 (33%)           | 15% (CI 6.5%, 24.4%)                 | p<0.001   |
| Inability to see a known or preferred doctor | 241 (48%)      | 35 (23%)           | 25% (CI 17.0%, 33.5%)                | p<0.001   |
| Difficulty communicating with the reception staff | 235 (46%)      | 13 (8%)            | 38% (CI 31.5%, 44.6%)                | p=0.001   |
| Not having enough time to visit the doctor | 174 (34%)      | 61 (39%)           | -5% (CI -13.6%, 4.6%)                | p=0.346 ns|
| No online booking system                 | 160 (32%)      | 35 (23%)           | 9% (CI 1.2%, 17.3%)                  | p=0.033   |
| Waiting to see the doctor is too difficult | 114 (23%)      | 7 (5%)             | 18% (CI 12.7%, 23.3%)                | p<0.001   |
| Needing a support person to come with me | 106 (21%)      | 7 (5%)             | 16% (CI 11.2%, 21.7%)                | p=0.001   |
| There is an online booking system but it's confusing | 102 (20%)      | 9 (6%)             | 14% (CI 8.9%, 19.8%)                 | p=0.001   |
| Not having anyone to look after my child | 66 (13%)       | 18 (12%)           | 2% (CI -4.6%, 7.8%)                  | p=0.708 ns|
| None of the above                        | 6 (1%)         | 17 (11%)           | -10% (CI -15.0%, -4.3%)              | p<0.001   |
Table S2 Perceived Stigma

| Going to the doctor, I am anxious: | Autistic n (%) | Non-autistic n (%) | Difference (95% Confidence Interval) | p value |
|-----------------------------------|----------------|--------------------|-------------------------------------|---------|
| I won't be taken seriously when I describe my symptoms | 341 (67%) | 54 (34%) | 32.9% (CI 24.0%, 41.8%) | p<0.001 |
| I might be wasting the doctor's time | 333 (66%) | 53 (34%) | 31.9% (CI 23.0%, 40.8%) | p<0.001 |
| I might be considered a hypochondriac | 330 (65%) | 42 (27%) | 38.3% (CI 29.8%, 46.8%) | p<0.001 |
| about asking for help | 318 (63%) | 28 (18%) | 44.9% (CI 37.2%, 52.6%) | p<0.001 |
| about discussing mental health | 301 (59%) | 37 (24%) | 35.8% (CI 27.5%, 44.1%) | p<0.001 |
| that there might be something wrong | 217 (43%) | 55 (35%) | 7.8% (CI -1.3%, 16.8%) | p=0.102 ns |
| I don't feel anxious going to the doctor | 17 (3%) | 52 (33%) | -30% (CI -37.7%, -21.8%) | p<0.001 |

| Is stimming* a problem for you at the doctors' office? | Autistic n (%) | Non-autistic n (%) | Difference (95% Confidence Interval) | p value |
|------------------------------------------------------|----------------|--------------------|-------------------------------------|---------|
| Unusual behaviours or stimming elicit negative reactions from other patients | 74 (14.6%) | 4 (2.5%) | 12% (CI 7.7%, 16.4%) | p<0.001 |
| Unusual behaviours or stimming elicit negative reactions from reception staff | 44 (8.7%) | 1 (0.6%) | 8% (CI 4.9%, 11.2%) | p<0.001 |
| Unusual behaviours or stimming elicit negative reactions from medical staff | 37 (7.3%) | 2 (1.3%) | 6% (CI 2.7%, 9.3%) | p<0.009 |
| I feel comfortable with stimming at the doctors' office | 101 (19.9%) | 74 (47.1%) | -27% (CI -36.2%, -18.2%) | p<0.001 |
| I do not feel comfortable with stimming at the doctors' office | 4 (0.8%) | 5 (3.2%) | -2% (CI -5.7%, 0.9%) | p=0.061 ns |
| No need to stim at the doctors' office | 133 (26.2%) | 0 (0.0%) | 26% (CI 22.0%, 30.5%) | p<0.001 |
| I don't understand the term "stimming" | 29 (5.7%) | 62 (39.5%) | -34% (CI -42.1%, -25.4%) | p<0.001 |

*Stimming refers to repetitive motor movements or vocalisations which are commonly used by autistic people as a self-regulatory mechanism.
**Table S3 Planning and Organising**

| Activity                                                                 | Autistic n (%) | Non-autistic n (%) | Difference (95% Confidence Interval) | p value |
|--------------------------------------------------------------------------|----------------|-------------------|---------------------------------------|---------|
| I find it difficult to prioritise when describing my medical problems    | 333 (66%)      | 34 (22%)          | 44% (CI 36.0%, 52.1%)                | p<0.001 |
| I need to give the whole story and not leave anything out                 | 332 (66%)      | 18 (12%)          | 54% (CI 47.1%, 60.9%)                | p<0.001 |
| I find it difficult to make appointments in advance                       | 300 (59%)      | 45 (29%)          | 31% (CI 21.8%, 39.2%)                | p<0.001 |
| Making changes to my lifestyle or habits is difficult for me              | 282 (56%)      | 36 (23%)          | 33% (CI 24.4%, 41.0%)                | p<0.001 |
| I have forgotten to attend a medical appointment                          | 230 (45%)      | 34 (22%)          | 24% (CI 15.5%, 31.9%)                | p<0.001 |
| I need to write things down                                               | 227 (45%)      | 17 (11%)          | 34% (CI 27.0%, 40.9%)                | p<0.001 |
| I find waiting difficult                                                  | 221 (44%)      | 15 (10%)          | 34% (CI 27.3%, 40.8%)                | p<0.001 |
| I have difficulty making decisions about my health                        | 222 (44%)      | 20 (13%)          | 31% (CI 23.9%, 38.2%)                | p<0.001 |
| I have turned up for a medical appointment on the wrong day               | 151 (30%)      | 16 (10%)          | 20% (CI 13.0%, 26.2%)                | p<0.001 |
| It is difficult to arrange someone to come with me                        | 103 (20%)      | 2 (1%)            | 19% (CI 14.7%, 23.4%)                | p<0.001 |
| I have forgotten why I made the appointment                               | 54 (11%)       | 1 (1%)            | 10% (CI 6.6%, 13.4%)                 | p<0.001 |
| None of the above                                                         | 13 (3%)        | 64 (41%)          | -38% (CI -46.4%, -30.0%)             | p<0.001 |
### Table S4 Support Needs

**Do you visit your doctor:**

| Scenario                                                                 | Autistic n (%) | Non-autistic n (%) | Difference (95% Confidence Interval) | p value   |
|--------------------------------------------------------------------------|----------------|-------------------|--------------------------------------|-----------|
| Alone, by choice                                                         | 306 (60%)      | 134 (85%)         | -25% (CI -32.4%, -17.6%)             | <0.001    |
| Alone, but would prefer to have a support person                         | 165 (33%)      | 10 (6%)           | 26% (CI 20.2%, 32.2%)                | <0.001    |
| With a parent, partner or support person                                 | 137 (27%)      | 9 (6%)            | 21% (CI 15.6%, 27.0%)                | <0.001    |
| With a parent, partner or support person but I would prefer to go alone  | 12 (2%)        | 0 (0%)            | 2% (CI 0.6%, 4.1%)                  | <0.109    |
| With a support animal                                                   | 5 (1%)         | 0 (0%)            | 1% (CI -0.3%, 2.3%)                  | 0.471     |
| To support an autistic adult                                            | 26 (5%)        | 0 (0%)            | 5% (CI 2.8%, 7.5%)                  | 0.008     |
| As a parent to access healthcare for my child                            | 78 (15%)       | 30 (19%)          | -4% (CI -11.0%, 3.6%)                | 0.327     |
| With my child, but I would prefer to go alone                            | 6 (1%)         | 12 (8%)           | -7% (CI -11.1%, -1.8%)               | <0.001    |

**If you were suddenly admitted to hospital, who would be able to bring your personal belongings to you?**

| Scenario                                                                 | Autistic n (%) | Non-autistic n (%) | Difference (95% Confidence Interval) | p value   |
|--------------------------------------------------------------------------|----------------|-------------------|--------------------------------------|-----------|
| Spouse or partner                                                        | 234 (46%)      | 106 (68%)         | -21% (CI -30.3%, -12.4%)             | <0.001    |
| Parent                                                                   | 168 (33%)      | 70 (45%)          | -11% (CI -20.7%, -2.2%)              | 0.012     |
| Other family member                                                      | 96 (19%)       | 72 (46%)          | -27% (CI -35.8%, -18.0%)             | <0.001    |
| Friend                                                                   | 118 (23%)      | 57 (36%)          | -13% (CI -21.8%, -4.2%)              | 0.002     |
| Neighbour                                                                | 17 (3%)        | 14 (9%)           | -6% (CI -10.7%, -0.4%)               | 0.008     |
| Paid support person or carer                                             | 15 (3%)        | 1 (1%)            | 2% (CI -0.0%, 4.7%)                  | 0.174     |
| Volunteer support person or carer                                        | 6 (1%)         | 0 (0%)            | 1% (CI -0.2%, 2.5%)                  | 0.375     |
| Nobody available                                                         | 88 (17%)       | 5 (3%)            | 14% (CI 9.5%, 18.9%)                 | <0.001    |

**If you were admitted to hospital for a day case surgical procedure, who would be available to collect you afterwards?**

| Scenario                                                                 | Autistic n (%) | Non-autistic n (%) | Difference (95% Confidence Interval) | p value   |
|--------------------------------------------------------------------------|----------------|-------------------|--------------------------------------|-----------|
| Spouse or partner                                                        | 208 (41%)      | 100 (64%)         | -23% (CI -31.7%, -13.6%)             | <0.001    |
### If you needed assistance at home after an operation, who would be available to provide that care?

|                      | Autistic n (%) | Non-autistic n (%) | Difference | p value  |
|----------------------|----------------|--------------------|------------|----------|
| **Spouse or partner**| 219 (43%)      | 101 (64%)          | -21% (CI -30.2%, -12.1%) | <0.001   |
| **Parent**           | 152 (30%)      | 74 (47%)           | -17% (CI -26.3%, -8.0%)  | <0.001   |
| **Other family member** | 83 (16%)    | 61 (39%)           | -23% (CI -31.2%, -13.8%) | <0.001   |
| **Friend**           | 74 (15%)       | 43 (27%)           | -13% (CI -20.8%, -4.8%)  | <0.001   |
| **Neighbour**        | 14 (3%)        | 8 (5%)             | -2% (CI -6.5%, 1.8%)     | <0.001   |
| **Paid support person or carer** | 30 (6%)      | 3 (2%)             | 4% (CI 0.6%, 7.4%)       | <0.071 ns|
| **Volunteer support person or carer** | 4 (1%)        | 0 (0%)             | 1% (CI -0.4%, 2.0%)     | <0.059 ns|
| **Nobody available** | 131 (26%)      | 13 (8%)            | 18% (CI 11.4%, 23.7%)    | <0.001   |

### If you are a parent and you were unable to care for your child due to illness, who would be available to provide that care to your child?

|                      | Autistic n (%) | Non-autistic n (%) | Difference | p value  |
|----------------------|----------------|--------------------|------------|----------|
| **Spouse or partner**| 110 (22%)      | 64 (41%)           | -19% (CI -28.0%, -10.2%) | <0.001   |
| **Parent**           | 37 (7%)        | 40 (26%)           | -18% (CI -25.8%, -10.6%) | <0.001   |
| **Other family member** | 40 (8%)       | 40 (26%)           | -18% (CI -25.2%, -10.0%) | <0.001   |
| **Friend**           | 21 (4%)        | 27 (17%)           | -13% (CI -19.6%, -6.5%)  | <0.001   |
| **Neighbour**        | 4 (1%)         | 8 (5%)             | -5% (CI -8.2%, -0.4%)    | <0.001   |
| Category                              | Count | Percentage | Confidence Interval       | p-value |
|--------------------------------------|-------|------------|---------------------------|---------|
| Paid support person or carer         | 5     | 1%         | -5% (-8.9%, -0.6%)        | <0.001  |
| Volunteer support person or carer    | 1     | 1%         | 0% (0%, 0.8%)             | 1.000 ns|
| Nobody available                     | 34    | 7%         | 3% (-1.2%, 7.0%)          | 0.256 ns|
| I don't have a child requiring care | 274   | 54%        | 4% (-5.0%, 13.7%)         | 0.387 ns|
### Table S5 Facilitators

| Visits to my doctor would be easier if:                          | Autistic n (%) | Non-autistic n (%) | Difference (95% Confidence Interval) | p value |
|---------------------------------------------------------------|----------------|-------------------|--------------------------------------|---------|
| I could book an appointment online                           | 339 (67%)      | 102 (65%)         | 2% (CI -7.0%,10.8%)                  | p=0.732 ns |
| I could email in advance with a description of the issue I need to discuss | 316 (62%)      | 35 (22%)          | 40% (CI 31.9%,48.2%)                 | p<0.001 |
| I could wait in a quiet place or outside until it was my turn | 284 (56%)      | 13 (8%)           | 48% (CI 41.2%,54.3%)                 | p<0.001 |
| I could book the first or last appointment of the day         | 210 (41%)      | 38 (24%)          | 17% (CI 8.8%,25.6%)                  | p<0.001 |
| I could book an appointment by text                           | 209 (41%)      | 44 (28%)          | 13% (CI 4.6%,21.8%)                  | p=0.004  |
| There was a sensory box* available in the waiting room       | 80 (16%)       | 4 (3%)            | 13% (CI 8.8%,17.7%)                  | p=0.001  |
| None of the above                                            | 16 (3%)        | 34 (22%)          | -19% (CI -25.5%,-11.5%)              | p<0.001  |

*A sensory box contains items to manage sensory stress, such as sunglasses, ear defenders or ear plugs, items providing tactile sensory input such as fidget tools and olfactory input such as scented items.
**Supplement 1**

Barriers to accessing healthcare for autistic adults: online survey

1. Are you autistic?
   Includes Autism, Autistic Spectrum Conditions, Asperger Syndrome, self-diagnosed or formally diagnosed.
   - Yes
   - No

2. Do you usually attend the same medical practice?
   - Yes
   - No
   - I don't attend any medical practice

3. Do you usually see the same doctor?
   - Yes
   - No
   - I don't attend any doctor

4. Do you have difficulty visiting your doctor when you need to?
   - Yes
   - No

5. Which of the following would cause you to delay or avoid seeing your doctor when you need to?
   Please check ALL THAT APPLY
   - Difficulty deciding if symptoms warrant a GP visit
   - Difficulty using the telephone to book appointment
   - No online booking system
   - There is an online booking system but it’s confusing
   - Difficulty planning an appointment in advance
   - Difficulty communicating with the reception staff
   - Difficulty communicating with the doctor during the appointment
   - The waiting room environment
   - Inability to see a known or preferred doctor
   - Long wait to get an appointment
   - Waiting to see the doctor is too difficult
   - Not feeling understood
   - Not having enough time to visit the doctor
   - Needing a support person to come with me
   - Not having anyone to look after my child
   - None of the above

6. Which of the following is the most difficult part of booking an appointment?
   Please choose the one issue which is MOST DIFFICULT for you
7. Which of the following is the most difficult part of planning a visit?
Please choose the one issue which is MOST DIFFICULT for you
☐ Deciding if your symptoms warrant a GP visit
☐ Long wait to get an appointment
☐ Planning an appointment in advance
☐ Inability to see a known or preferred doctor
☐ Not having enough time to visit the doctor
☐ Arranging for someone to come with me
☐ If you are a parent, not having anyone to look after your child
☐ None of the above

8. Which of the following is most difficult during an appointment?
Please choose the one issue which is MOST DIFFICULT for you
☐ Communicating with the reception staff
☐ Communicating with the doctor during the appointment
☐ The waiting room environment
☐ Not feeling understood
☐ Waiting to see the doctor is difficult
☐ None of the above

9. Do you visit your doctor...
Check ALL THAT APPLY
☐ Alone, by choice
☐ Alone, but would prefer to have a support person
☐ With a parent, partner or support person
☐ With a parent, partner or support person but I would prefer to go alone
☐ With a support animal
☐ To support an autistic adult
☐ As a parent with my child

10. Why do you usually visit your doctor?
Check ALL THAT APPLY
☐ Physical condition or illness
☐ Mental health difficulties
☐ Issues directly related to autism
☐ Other

11. How much do you value your relationship with your GP?
☐ It is very important to me
☐ It is important to me
☐ It is neither important nor unimportant to me
☐ It is not very important to me
12. Do you have a good relationship with your doctor?
☐ Yes
☐ Sometimes
☐ No
☐ Not currently, but had good relationship with GP in past

13. Do you find it difficult to communicate during a consultation?
☐ All the time
☐ Frequently
☐ Sometimes
☐ Rarely
☐ Not at all

14. Which of the following communication issues cause you problems during a consultation?
Check ALL THAT APPLY
☐ Verbal communication is difficult
☐ Sensory issues make it harder to communicate
☐ Anxiety makes it harder to communicate
☐ It is easier for me to communicate in writing
☐ I'm scared of the receptionist
☐ I have difficulty asking for help
☐ I have difficulty prioritising my health issues
☐ I am concerned I might be labelled a hypochondriac or malingering
☐ Vague or open ended questions are difficult
☐ I can't describe my pain or symptoms accurately
☐ I express emotions differently (e.g. I can appear to be angry when I am afraid or in pain)
☐ I need extra time to process what is being said
☐ I am concerned I won't be taken seriously when I describe my symptoms
☐ None of the above
☐ Other

15. Which communication issue causes you the MOST problems during a consultation?
Please choose the one issue which is MOST DIFFICULT for you
☐ Verbal communication is difficult
☐ Sensory issues make it harder to communicate
☐ Anxiety makes it harder to communicate
☐ It is easier for me to communicate in writing
☐ I'm scared of the receptionist
☐ I have difficulty asking for help
☐ I have difficulty prioritising my health issues
☐ I am concerned I might be labelled a hypochondriac or malingering
☐ Vague or open ended questions are difficult
☐ I can't describe my pain or symptoms accurately
☐ I express emotions differently (e.g. I can appear to be angry when I am afraid or in pain)
☐ I need extra time to process what is being said
I am concerned I won't be taken seriously when I describe my symptoms
None of the above
Other

16. Is stimming a problem for you at the doctors' office?
Check ALL THAT APPLY
☐ My unusual behaviours or stimming elicit negative reactions from other patients
☐ My unusual behaviours or stimming elicit negative reactions from reception staff
☐ My unusual behaviours or stimming elicit negative reactions from medical staff
☐ I feel comfortable stimming at the doctors' office
☐ I do not feel comfortable stimming at the doctors' office
☐ I don't feel a need to stim at the doctors' office
☐ I don't understand the term "stimming"

17. Do you experience any of the following?
Check ALL THAT APPLY
☐ I find it difficult to make appointments in advance
☐ I have turned up for a medical appointment on the wrong day
☐ I have forgotten to attend a medical appointment
☐ I find it difficult to prioritise when describing my medical problems
☐ I need to give the whole story and not leave anything out
☐ I have forgotten why I made the appointment
☐ I find waiting difficult
☐ It is difficult to arrange someone to come with me
☐ I need to write things down
☐ I have difficulty making decisions about my health
☐ Making changes to my lifestyle or habits is difficult for me
☐ None of the above

18. Do you experience sensory issues which make it difficult to visit your doctor?
Check ALL THAT APPLY
☐ Bright or fluorescent lights
☐ Noise in the waiting room from other patients
☐ Music playing in the waiting room
☐ Noise from the reception desk
☐ Smells in the waiting room
☐ Smells in the doctor's office
☐ Crowded waiting area
☐ Uncomfortable furniture
☐ Touch, such as during examination
☐ Unexpected touch
☐ None of the above
☐ Other

19. How would you describe your pain threshold?
☐ Very high
☐ High
Neither particularly high nor low
Low
Very low
I don’t know

20. What communication methods do you use?
Check ALL THAT APPLY
- Verbal, face-to-face
- Verbal, telephone
- Voicemail
- Text messaging
- Online messaging
- Email
- Other online method
- Written
- Alternative communication device
- Sign language
- Other

21. What communication methods do you AVOID if possible?
Check ALL THAT APPLY
- Verbal, face-to-face
- Verbal, telephone
- Voicemail
- Text messaging
- Online messaging
- Other online method
- Email
- Written
- Alternative communication device
- Sign language
- Other

22. If your GP offered options for making an appointment, which would you be most likely to use?
- Verbal, face-to-face
- Verbal, telephone
- Voicemail
- Text messaging
- Email
- Online booking system
- Alternative communication device
- Other

23. My doctors are really good for me because they are...
Check ALL THAT APPLY
- Patient
24. My doctors are really good for me because they...
Check ALL THAT APPLY
- Ask direct questions
- Give clear explanations
- Accept written or email communication
- Use printed information and diagrams
- Value my opinion
- Accept my right to make decisions regarding my health
- Know that autism is not a mental health condition
- Do home visits
- Have reception staff who are trained regarding autism
- Remind me to make my next appointment before leaving
- None of the above

25. Do you find it difficult not knowing...
Check ALL THAT APPLY
- Which doctor you will see
- How long you will wait
- How long the consultation will last
- What will happen during the consultation
- None of the above

26. When going to the doctor, what causes you to feel anxious?
Check ALL THAT APPLY
- asking for help
- discussing mental health
- that there might be something wrong
- that I might be considered a hypochondriac
- that I might be wasting the doctor's time
- I don't feel anxious going to the doctor

27. Do you have mobility needs which make visiting your doctor difficult?
- Yes
- No
28. My doctor is knowledgeable about physical conditions:

- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly disagree

29. My doctor is knowledgeable about mental health conditions:

- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly disagree

30. My doctor is knowledgeable about autism:

- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly disagree

31. Visits to my doctor would be easier if...

Check ALL THAT APPLY

- I could book an appointment online
- I could book an appointment by text
- I could book the first or last appointment of the day
- I could wait in a quiet place or outside until it was my turn
- I could email my doctor in advance with a description of the issue I need to discuss
- There was a sensory box available in the waiting room
- None of the above
- Other

32. Have you ever had a mental health condition remain untreated due to difficulties accessing healthcare?

- Yes
- No
- Possibly
- Other

33. Have you ever had a physical health condition remain untreated due to difficulties accessing healthcare?

- Yes
- No
- Possibly
- Other
34. Have you even been referred to a specialist but did not make an appointment or did not attend?
☐ Yes
☐ No

35. Have you ever been told you should have seen a doctor sooner?
☐ Yes
☐ No

36. Have you ever had to undergo more extensive treatment or surgery than if you had attended sooner?
☐ Yes
☐ No

37. Have you ever had a potentially serious or life threatening condition for which you did not access treatment?
☐ Yes
☐ No

38. If you answered yes to any of the last 6 questions, would you like to give more details?

39. Do you attend on schedule for screening programmes applicable to you?
Includes cervical screening, sexual health screening, breast check, colon screening etc.
☐ Yes
☐ No
☐ Sometimes

40. If you were suddenly admitted to hospital, who would be able to bring your personal belongings to you?
Check ALL THAT APPLY
☐ Spouse or partner
☐ Parent
☐ Other family member
☐ Friend
☐ Neighbour
☐ Paid support person or carer
☐ Volunteer support person or carer
☐ Nobody available
☐ Other

41. If you were admitted to hospital for a day case surgical procedure, who would be available to collect you afterwards?
Check ALL THAT APPLY
☐ Spouse or partner
☐ Parent
☐ Other family member
☐ Friend
42. If you needed assistance at home after an operation, who would be available to provide that care?
Check ALL THAT APPLY
- Spouse or partner
- Parent
- Other family member
- Friend
- Neighbour
- Paid support person or carer
- Volunteer support person or carer
- Nobody available
- Other

43. If you are a parent and you were unable to care for your child due to illness, who would be available to provide that care to your child?
Check ALL THAT APPLY
- Spouse or partner
- Parent
- Other family member
- Friend
- Neighbour
- Paid support person or carer
- Volunteer support person or carer
- Nobody available
- I don't have a child requiring care
- Other

44. Do you identify as autistic?
Includes Autism, Autistic Spectrum Conditions, Asperger Syndrome, self-diagnosed or formally diagnosed.
- Yes
- No
- Possibly

45. Do you have a formal diagnosis? *
- Yes
- No

46. If you have a formal diagnosis, was it provided by:
- Psychiatrist
- Clinical Psychologist
☐ Multidisciplinary Team
☐ Other

47. Does your doctor know you are autistic? *
☐ Yes
☐ No
☐ I don’t know

48. What is your age?

49. What age were you when you were diagnosed?
If applicable

50. Which country do you live in?
☐ England
☐ Scotland
☐ Wales
☐ Northern Ireland
☐ Republic of Ireland
☐ United States
☐ Canada
☐ Other:

51. What is your gender?
☐ Male
☐ Female
☐ Non-binary
☐ Prefer not to say

52. Please give any further information or suggestions here.