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Understanding Stigma in Autism: A Narrative Review and Theoretical Model

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Abstract

The experience of stigma by autistic people is relatively understudied, despite contributing to a range of poor outcomes and having an overarching impact on well-being. The current review of the literature synthesizes research to determine what is currently known and presents a theoretical model of autism stigma. Autism stigma is primarily influenced by a public and professional understanding of autism in combination with interpretation of visible autistic traits. Moderating factors include the quality and quantity of contact with autistic people, cultural factors, sex and gender, individual differences, and diagnostic disclosure. Stigma can reduce well-being as well as increase the presence of camouflaging behaviors, which mask autistic traits. Caregivers of autistic people can experience stigma by association, that is, affiliate stigma, which can impact their own well-being. A variety of interventions and approaches to reduce stigma are discussed, including “autism friendly” spaces, positive media representation, educational and psychosocial training for the public and professionals, as well as cultural and systemic shifts that foster inclusivity and recognize neurodiversity.

Keywords: autism, stigma, attitudes, neurodiversity, discrimination, well-being

Community Brief

Why is this topic important?

Autistic people are known to experience stigma. This means that they can face ignorance, prejudice, and discrimination.

What was the purpose of this article?

The purpose of the article was to review research on autism stigma. We wanted to better understand autism stigma. We looked at why autistic people and their families experienced stigma. We also looked at what factors influenced stigma and the impact of stigma. Last, we discussed how to reduce stigma for autistic people and their families.

What do the authors conclude?

We summarized the research findings into a model. Autism stigma is affected by people’s understanding of autism and by visible autistic traits. Poor understanding of autism means that visible autistic traits may be viewed negatively. Certain factors influence the amount of stigma. One factor was the quality and quantity of contact that autistic people have with others. Another factor was cultural differences, such as specific beliefs about autism. Sex and gender were important, as were other differences such as education and age. Last, whether an autistic person had shared their diagnosis affected stigma. Autism stigma had a negative impact on

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well-being. This included poor mental and physical health, as well as reduced social connections. Autism stigma also led to increased “camouflaging” of autistic traits. Family members also experienced stigma, which can affect their own well-being. Reducing autism stigma is important. To reduce stigma people should create more “autism friendly” spaces. They should include more positive representations of autistic people in the media. They should also improve the autism education of the public and professionals. Last, they should support neurodiversity.

What do the authors recommend for future research on this topic?

We need to better understand the factors that lead to autism stigma. We also need more effective ways to reduce stigma for autistic people and their families. Including the autistic community in this research process is very important.

How will this review help autistic adults now and in the future?

The review shows how stigma affects the autistic community. Autistic adults may find that the model helps them understand their own experiences of stigma. We hope the review will help develop more research into how to reduce autism stigma. Reducing autism stigma will improve the lives of autistic adults.

Introduction

THE EXPERIENCE OF stigma for minority groups is well recognized,^{1,2} with autism considered an identity-based minority.³ However, the specific experience of stigma for autistic people has been relatively understudied, with a bias toward the experiences of family members rather than autistic people themselves.⁴ The term stigma dates back to the ancient Greek practice of cutting or burning a mark into a person to brand them a slave, traitor, or criminal, the mark of someone to be avoided.⁵ In modern usage, stigma is considered an attribute that is unfavorable and that seemingly discredits an individual, leaving them to be viewed as less valuable than the rest of society.^{1,5,6} Notably, this definition depends on a collective understanding of what is unfavorable, thus stigma is inherently socially constructed.¹

Stigma can be seen as an overarching term for problems of knowledge (i.e., ignorance), problems of attitudes (i.e., prejudice), and problems of behaviors (i.e., discrimination).⁷ Definitions of the interconnecting processes that contribute to or reflect stigma are varied, underlining the challenge of capturing this complex process. This review draws on Link and Phelan’s seminal conceptualization of stigma.⁸ They argue that the development of stigma derives from the culturally driven detection and labeling of a difference (e.g., labeling people with a particular set of behavioral characteristics as autistic), which converges with other interrelated components to form stigma.

Link and Phelan’s⁸ second component of stigma is the attribution of unfavorable stereotypes to the label (e.g., autistic people are unfriendly). From a social-cognitive perspective, this linking between a label and its stereotypes is key to the development of stigma, as stereotypes can implicitly affect how an individual perceives other people.⁹ The next component is the use of the label to cause a separation between “them” and “us” (e.g., autistic people vs. everyone else). The final component is loss of status and the experience of discrimination (e.g., not being hired or promoted because of being autistic).

Status loss and discrimination can be perceived as behavioral outcomes of stigma; a consequence of being labeled,

being classified as other, and being linked to undesirable characteristics. Experiencing status loss and discrimination lies at the heart of the inequality that a stigmatized person faces and contributes to negative treatment at both personal and structural levels.^{7,8} Limited knowledge and understanding has a critical role in the presence of stigmatized views, as an individual is more likely to rely on reductionist labels and stereotypes, dichotomize into them versus us, and ultimately behave in a discriminatory way.

Attitudes and beliefs can be conceptualized as the deeply held cognitions that lead to the labeling, stereotyping, setting apart, and discriminating that contribute to stigma.⁸ Attitudes are often measured by directly asking people to state how much they endorse positive and negative attitudes toward autism.¹⁰ Alternatively, openness toward a fictional autistic adult or child can be explored, for example, by asking participants to rate whether they would feel afraid of the autistic person.^{11,12} Stigma is traditionally measured by using a measure of social distance, which is seen as a consequence of stigmatized views and conceptualized as the deliberate avoidance or exclusion of another person from social interactions.^{13,14}

Stigma can be categorized into different types. Most commonly, the discussion of stigma refers to enacted or public stigma, which is the overt discrimination of stigmatized individuals.¹⁵ However, this review will also consider self-stigma, or felt stigma, which is when the stigmatized person turns the prejudice they experience onto themselves.¹⁶ This can include feeling shame in relation to stigmatized characteristic(s), and fear of enacted stigma.^{16,17} Affiliate, or courtesy, stigma will also be discussed, which is stigma experienced by people associated with the stigmatized person, e.g., family members (Table 1).^{5,15}

Autistic people can experience loneliness and fewer friendships compared with neurotypical peers,^{18–20} fewer friendships in adolescence compared with peers with other special educational needs,²¹ have more difficulties with education²² and employment,^{23,24} experience poor social integration,^{25,26} and face high rates of bullying.²¹ These factors are associated with a reduced quality of life.²⁷ While these experiences have been attributed to autistic traits, more recent thinking has also considered the impact of negative societal responses

TABLE 1. A SUMMARY OF THE DEFINITIONS OF STIGMA

<i>Term</i>	<i>Definition</i>
Stigma	A socially constructed concept; any attribute that is seen as unfavorable and that seemingly discredits an individual, leaving them to be viewed as less valuable than the rest of society.
Public/Enacted Stigma	Discrimination or rejection experienced by a stigmatized person.
Felt/Self Stigma	The internalized prejudice experienced by a stigmatized person, including shame and fear of enacted stigma.
Affiliate/Courtesy Stigma	Stigma experienced through association with a stigmatized person (e.g., parents/caregivers and other family members).

to autistic people in contributing to these outcomes.^{28,29} Reflecting this, interviews with neurotypical people have found that autism is perceived by some as violating “accepted societal norms.”³⁰

Autistic people encounter negative experiences in their everyday lives that likely reflect autism stigma. For example, neurotypical people are less likely to want to live in the same building as autistic people or to spend time together as friends,¹¹ and they are also less likely to want an intimate relationship with an autistic person.³¹ At the extreme, autistic people can be dehumanized by neurotypical people.³² Autistic people describe autism stigma as destructive and at odds with their own conception of autism as a value-neutral category, such as handedness and eye color.³³

Accordingly, 15.4% of a recent sample of 149 autistic adults report moderate to severe felt stigma,⁴ with the experience of stigma being reported by autistic adolescents and adults across a range of qualitative accounts.^{33–35} Alongside this, there is consistent evidence that affiliate stigma is experienced by the families of autistic people.^{36–45}

The breadth of psychological and social issues relevant to autism stigma and the limited synthesis of this work drew us to a narrative review. The broad remit of a narrative review enabled us to consider a wide range of pertinent issues: factors that contribute to autism stigma, the impact of stigma for autistic people and their families, and possible interventions to reduce stigma. These findings will be conceptualized in a theoretical model of autism stigma (Fig. 1).

The model provides an overview for researchers interested in exploring the many facets of autism stigma and supports autistic people wanting to map their own experiences onto existing evidence. Importantly, when developing the model, we considered the definition of stigma broadly and also incorporated relevant research on attitudes and acceptance, which are correlates of stigma and theoretically tightly coupled.^{8,46} Our narrative approach was underpinned by a thorough PubMed review of articles on autism (autis*) paired systematically with each of the following terms stigma, attitude, understanding, and knowledge.

We followed up relevant citations enabling our search to snowball and reach saturation. The model has been shaped by the findings, theory, and critical analysis within the references, as well as by additional areas of research flagged as important by our initial search and included as part of our snowballing strategy (e.g., neurodiversity in autism).

Factors Influencing Stigma in Autism

As detailed in Figure 1, the variables that contribute to autism stigma are public and professional understanding of

autistic traits and expressed autistic traits. As previously mentioned, understanding has an overarching effect on the development of stigma. We also include expressed autistic traits, as stigma is fundamentally driven by a culturally driven detection and labeling of a difference.⁸ We argue that it is from this intersection of understanding of and observation of autism that other components of stigma occur.

Moderating factors that influence the strength or direction of the relationship between these variables and stigma include: the quality and quantity of contact, diagnostic disclosure, culture, sex and gender, and individual differences. Note that our model only includes the direct moderating effects on enacted stigma. These moderators are likely to have direct effects on both felt and affiliate stigma, but this is beyond the scope of the review.

Public and professional understanding of autistic traits

When discussing understanding we are referring to a holistic conception and comprehension of autism that goes beyond factual or “book” knowledge. For example, knowing that autism is diagnosed more in males would not be useful when wanting to support an autistic person struggling with sensory overload. However, studies have focused on measures that probe knowledge, for example, discrete facts about etiology, treatment, or selected symptoms.^{13,47} Poorer public and professional knowledge of autism is often correlated with less positive attitudes⁴⁸ and more stigma,^{29,48–51} although null results also occur.^{52–56} Knowledge is also recognized by carers of autistic children as contributing toward stigmatized views.⁴⁴

Some surveys have shown encouraging levels of autism knowledge among the public.^{48,57,58} However, incorrect knowledge is present in the public and the impact of incorrect knowledge, even in the context of dominantly correct knowledge, is not understood. Some areas of misinformation include that autism is characterized by symptoms of other conditions,⁵⁸ that all autistic children show poor eye contact,⁵⁷ and that autistic people do not show affection or attachments.⁵⁰

Undergraduate students who incorrectly attributed unfavorable traits to autism were likely to have less positive attitudes toward autism regardless of the number of correct traits they identified.⁵³ This suggests certain misconceptions may dominate, even in the face of some correct knowledge. Another important consideration is the valence of the knowledge that is associated with autism. Eight of the 10 characteristics that undergraduate students most commonly associated with autism had negative valence, with negative stereotyping likely to contribute to stigma.⁵⁹

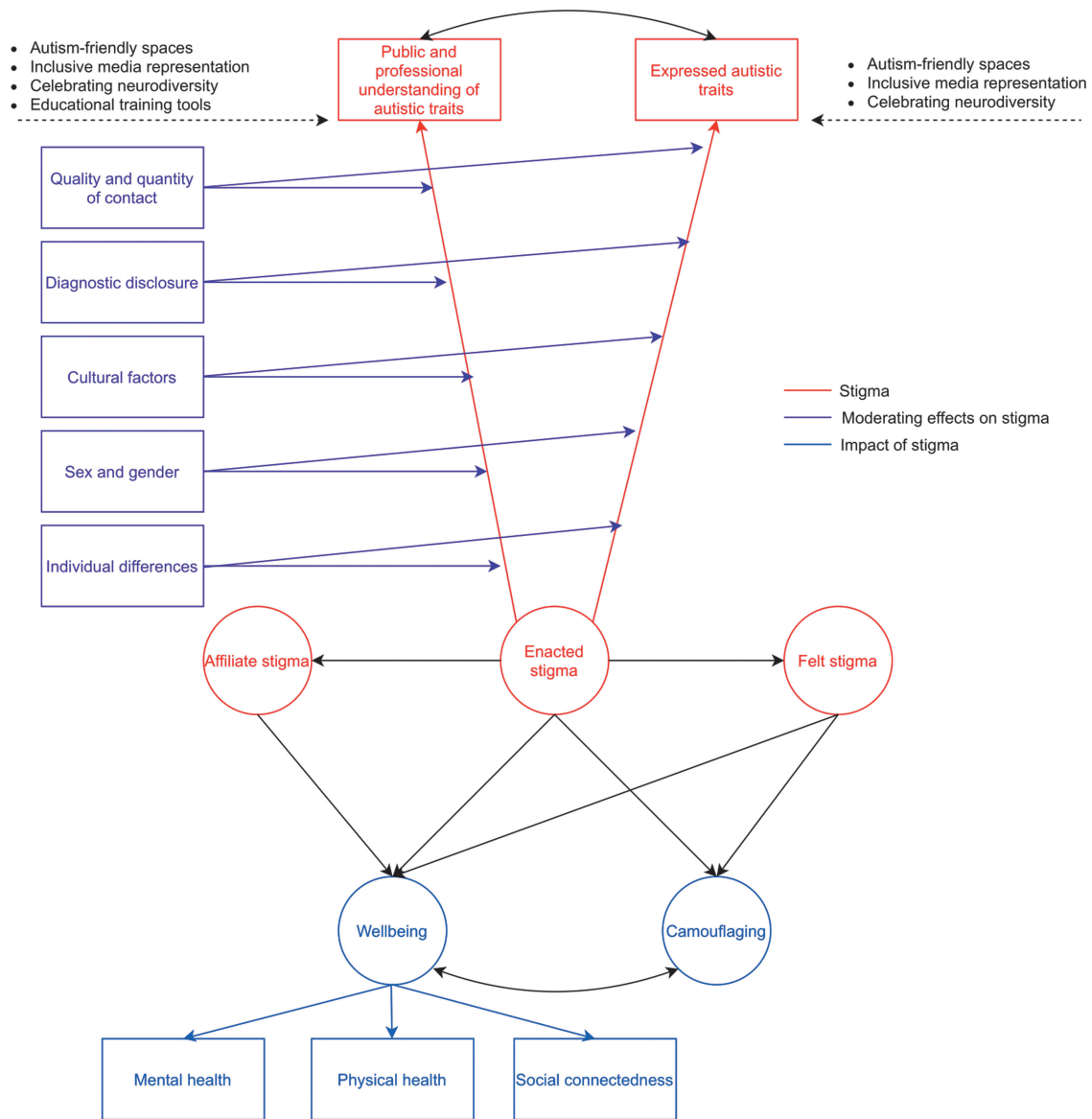


FIG. 1. Theoretical model of causes and impact of autism stigma. Red circles indicate stigma, with Enacted stigma represented by the convergence of public and professional understanding of autism and expressed autistic traits (observed variables). Felt stigma and Affiliate stigma are experienced through Enacted stigma (black arrows). Purple rectangles indicate factors that have a moderating effect on the observed variables. Blue circles indicate the impact of stigma, including Well-being, measured by three observed variables, and camouflaging. Black arrows indicate the direct effects between Enacted stigma and Well-being and Camouflaging, as well as the indirect effects through the effects of Affiliate and Felt stigma. The curved black double-headed arrow illustrates covariance between public and professional understanding of autistic traits and expressed autistic traits, and between Well-being and Camouflaging. The bullet points above the dashed lines indicate interventions that may reduce stigma.

There are also misconceptions and inadequate knowledge about autism among health care professionals.^{52,56,60-65} UK general practitioners displayed good knowledge of autism but only modest confidence in their ability to work with autistic people,⁶⁶ which arguably highlights the limitations of factual knowledge in equipping professionals to engage effectively with autistic people. Teachers and childcare providers may also have poor knowledge and outdated beliefs about autism, particularly relating to etiology,^{58,67-71} although teachers with more experience of autism have more knowledge.^{72,73}

Some autistic pupils reported feeling stigmatized by their teachers and attributed this to being judged based on previous experiences with other autistic pupils.⁷⁴ These limitations have been partly attributed to insufficient training,^{64-66,75} with professionals with better knowledge and experiences less likely to stigmatize autistic children.^{44,49}

To fully explore the effect of autism understanding on autism stigma, fine-grained analysis is needed to disentangle what types of knowledge and understanding are most predictive of better attitudes and lower stigma. We argue that nuanced understanding, which critically recognises the

heterogeneity and complexity within the autism spectrum, would be a better predictor than discrete facts. To this end, measuring understanding through identifying autistic people in vignettes or a video, which relies on consideration of patterns of behaviours, may be a more sensitive measure than fact endorsement.

It would also be meaningful to extend understanding of autism to knowing how to best support autistic people. Consideration should also be given to what the autistic community think others should understand about autism. Reflecting this, a recent autism knowledge questionnaire that was co-produced by the autistic community found that the subsections around societal views and the experience of being autistic were predictors of autism attitudes in Australian adults.⁴⁸

Expressed autistic traits

Autistic people's difficulties in social communication are often physically expressed; examples include unusual patterns of eye contact, reduced facial expression and sharing of emotions, and limited gesture use.⁷⁶ Restricted and repetitive behaviors can include motor mannerisms and unusual responses to sensory stimuli.⁷⁶ Sensory behaviors can be particularly prevalent outside the home in unfamiliar spaces,⁷⁷ and overwhelming sensory experiences can induce significant distress.⁷⁸

These visible autistic traits may lead to negative attitudes during first impression formation.^{28,79,80} When assessing first impressions using video clips, neurotypical people have perceived autistic people as less attractive, more submissive, and more awkward than matched neurotypical counterparts.²⁸ However, first impressions were not negative when the speech transcript was presented without visual stimuli, suggesting that the bias was driven by expressive differences.²⁸

Some of these expressed differences can be particularly negatively perceived by the neurotypical population. Stereotyped or repetitive motor mannerisms, or "stimming," were recognized by autistic people as being negatively judged by neurotypical people, making them feel devalued or "weird."⁸¹ Autistic people have also reported that some autistic differences can be perceived as frightening to neurotypical people⁸² and that people sometimes associate autism with violent acts.³³ Relatedly, students in the United States and Lebanon perceived disruptive autistic behaviors as more "dangerous" than withdrawn behaviors, which prompted greater stigmatization.¹⁴

Within our model (Fig. 1), we have indicated a covariance between public and professional understanding of autistic traits and expressed autistic traits. This is because the social model of disability recognizes the social construction within which autistic people exist, with poor understanding and attitudes from professionals and the public likely to affect expressed traits and possibly lead to elevated distress or discomfort for autistic people.⁸³ Similarly, the way that an autistic person behaves will inform public and professional insights into autism.

Moderating factors

The quality and quantity of contact that autistic and neurotypical people have with one another is an important consideration. Knowing and spending time with an autistic

person is associated with more positive attitudes toward autistic adults and children.^{11,48,53,84,85} It is important to consider the distinct contributions of both the quantity and quality of contact, with both dimensions associated with more positive attitudes⁵⁴ and decreased stigma.⁸⁶ However, quality of contact appears to be a more robust predictor of attitudes than quantity.^{54,86} This pattern of findings is congruent with data showing that people with autistic immediate family members have more positive attitudes,¹¹ and less stigma toward autism.^{13,29}

For neurotypical people, high-quality interactions may lead to decreased anxiety and increased comfort around autistic people, which lays the foundation for better understanding and, consequently, better attitudes toward autism.⁵⁴ Similarly, high-quality interactions also support autistic people in feeling comfortable, which create better conditions for autistic people to be accurately understood. Conversely, lack of understanding and unfavorable attitudes about autism from neurotypical people may lead to negative social interactions (e.g., being unwelcoming) that impact the interactions of autistic people (e.g., displaying wariness), limiting opportunities for quality social connections and potentially exacerbating stigmatized views.^{28,87}

The quality of contact may be influenced by the issue of "double empathy," whereby autistic and neurotypical people are mutually challenged in their understanding of one another due to fundamental differences in how each understand the world.^{88,89} Autism is not associated with distinctive physical features; therefore, autistic people's "typical" appearance coupled with their unusual behaviors may elevate stigma, with autistic behaviors understood as social deviance rather than reflecting an underlying difference or difficulty.^{30,90} Overall, although more direct comparisons are required, existing research suggests that quality of contact has more impact than quantity.

Another important consideration is whether diagnostic disclosure may moderate how autistic people are perceived. The attribution model of stigma proposes that if a behavior is perceived as controllable, then negative reactions to a stigmatized individual will be greater as responsibility for their actions will be assumed.⁹¹ Related to this, the label of autism leads to more favorable first impressions of autistic people presented in video clips than when this label is not provided.^{80,92} There is growing evidence that diagnostic disclosure can lead to more positive attitudes,^{55,93,94} more positive affective responses,⁹⁵ greater acceptance of inappropriate social behaviors,⁹⁶ as well as reduced stigma.⁹⁷

However, these findings are not universal. For example, knowledge of diagnosis can have a negative impact on first impressions of autistic people for those with high autism stigma,⁹⁸ whereas school children and adolescents do not modify their social distancing toward a fictional autistic peer when diagnosis is disclosed.⁹⁹ A recent scoping review concluded that the fear of stigma was tied to the reluctance of autistic people to share their diagnosis,¹⁰⁰ although concerns about judgment and misunderstanding have been attributed to both disclosing and not disclosing an autism diagnosis.^{33,101}

The disconnect between experimental evidence of the positive impact of diagnostic disclosure and the lived experiences of autistic people warrants further exploration. One possible source of variance is the impact of preexisting autism knowledge or understanding on the effect of diagnostic

disclosure, with findings currently mixed.^{92,95} It is also relevant that diagnostic disclosure may also affect how autistic people express themselves. A stronger autistic identity has been linked to a more open expression of autistic behaviors in everyday life, mediated by the extent to which the autistic person is open about their diagnosis.¹⁰² Further, autistic people may choose not to share their diagnosis in certain contexts,¹⁰³ which means they may behave differently across environments.

Another possible moderator is cultural factors. People in the United States have been found to hold less stigma toward autistic people than those in Lebanon, Japan, and China. However, whereas people in China and Lebanon had a lower understanding of autism, people in Japan had a similar level of knowledge to the United States.^{50,104,105} This aligns with the idea that dominantly collectivist cultures, where group cohesion is biased over the needs of the individual, may be more susceptible to stigma due to more ready adoption of culturally defined norms.¹⁰⁴ However, it is notable that an investigation of autism stigma in college students in Lebanon and the United States found that individual characteristics (e.g., previous contacts with autistic people) exerted a stronger influence on autism stigma than the country of residence.¹⁰⁶

Cultural differences can clearly exert significant influence. In South Korea, the lay classification of “border children” recognizes children in mainstream schools who would be described as autistic by Western-trained clinicians.¹⁰⁷ This label is partly driven by parental desire to avoid autism stigma, with the cultural importance of academic success supporting their child’s “normalcy.”¹⁰⁷ Parents in China have described that the cultural belief that respect for the father is related to the prospects of the son, can mean that parents do not want to disclose their son’s autism.¹⁰⁸

In other countries, the conceptualization of autism as something other than a developmental disorder can leave communities vulnerable to stigma. For example, in Vietnam, autism has been variously conceptualized as a disease, a “family problem,” and karmic demerit.¹⁰⁹ In parts of Africa, autism has been attributed to supernatural phenomenon.^{110,111} These types of beliefs not only lead to significant stigma, such as autistic children being asked to leave public transport or families being unable to rent accommodation,¹¹² but can also lead to inappropriate and sometimes dangerous “cures” by traditional healers.^{110,111}

Cultural differences can also be perceived within a country among minority immigrant or indigenous communities. Somalian families in the United Kingdom report high levels of stigma toward their autistic children, leading to families hiding their child and delaying seeking support because challenging behaviors are not tolerated within their communities.^{113–116} There is prevalent autism stigma within Black American communities from diverse socioeconomic backgrounds, particularly related to denial and shame,^{117,118} as well as lower levels of autism acceptance in Asian American communities.¹¹⁹

Aboriginal and Torres Strait Island community members in Australia that have autistic family members also report a high degree of stigma.¹²⁰ The experience of shame, which has strong cultural relevance, was commonly identified and linked with a reluctance to share the diagnosis. An additional challenge for minority groups is that autism stigma,

which may have community-specific manifestations, is likely to interact with other stigma, such as those relating to religion, race, and ethnicity. Indeed, the starkest accounts of stigma by the Aboriginal and Torres Strait Island communities were related to interactions with non-Aboriginal people.¹²⁰

In addition, Black American parents have reported experiencing racism, including negative assumptions about their autism knowledge and family circumstances, within the diagnostic process.¹¹⁷ More nuanced investigation is needed to better understand the impact of culture and community, both within and across countries, on the experience of stigma for autistic people and their families. This could include a direct exploration of whether there are contrasting experiences of autism stigma for families and autistic individuals within and outside of different community groups, and the extent to which additional forms of “otherness” may compound stigma.

Although cultural factors are more easily associated with their possible impact on public or professional perceptions and understanding, it is also true they may influence the expression of autistic traits. Reflecting this, there is modest evidence that the severity of some autistic traits may vary across some cultures.¹²¹

It is also important to consider the moderating effects of the sex and gender of autistic people. Though sometimes used interchangeably, sex focuses on the biological differences between males and females, whereas gender focuses on socially constructed roles, behaviors, and attributes.¹²² There is growing interest in delineating differences in the expression of autism based on sex and gender,¹²² but gender and sex norms may also affect the perceptions of autistic people by neurotypical people.

One qualitative study suggested that autistic females recognized pressure to fulfil gender stereotypes, including expected social skills, and that female groups were less forgiving of social “faux pas.”¹²³ Similarly, in a mixed-methods study, autistic girls were more likely to feel like victims in friendship groups than autistic boys and neurotypical girls and boys, and felt punished for not “getting it” socially.¹²⁴ These studies predict that autistic females would experience more stigma based on greater difficulty in aligning with gender norms.

From the parent perspective, mothers of autistic children may be more vulnerable to experiencing autism stigma than fathers, including avoidance, hostile staring, and rude remarks from the public.¹⁵ Again, this may relate to gender stereotypes, with a higher threshold of expectation set on mothers’ parenting. Typically, studies that include gender do not consider the broader spectrum of gender presentations, including transgender and nonbinary, who are overrepresented in autistic populations,^{125,126} which is an important consideration for future research.

Consideration should also be given to wider individual differences beyond an autistic person’s sex or gender. Individual differences related to the expression of autism are also relevant. For example, disruptive autistic behaviors lead to more stigma than withdrawn behaviors,¹⁴ and parents of violent or aggressive autistic children are more likely to encounter stigma.¹⁵ From a different perspective, the autism stigma experienced by families may be greater

if their child's autism is less visible compared with children with more obvious additional needs, such as intellectual disability.¹⁵

In terms of individual differences among the public, there is converging evidence that females are less likely to have stigmatized views about autism.^{13,48,119} have higher levels of acceptance of autistic people,¹¹⁹ more positive attitudes,⁴⁸ and greater willingness for social closeness with autistic people.^{13,50} Higher educational levels are also associated with higher levels of acceptance¹¹⁹ and lower levels of stigmatized views.¹²⁷ However, education level is not a predictor in all studies.^{29,48} Age is generally not predictive of autism-related attitudes and stigma.^{29,48,119,127} Other relevant individual differences predictive of lower autism stigma include openness to experience, and decreased acceptance of inequality.¹⁰⁶

The Impact of Stigma

The potential effect of stigma on autistic people and their families is wide ranging and has an overarching impact on well-being.³ Well-being is a multidimensional construct, with stable well-being occurring when individuals have the psychological, social, and physical resources to meet a particular psychological, social, and/or physical challenge.¹²⁸ The insidious effects of stigma may erode at some of these resources, with deleterious consequences for well-being. As illustrated in Figure 1, stigma can affect well-being by influencing a range of factors, including mental health, physical health, and social connectedness.^{129–131} In addition, we consider the impact of stigma on behaviors adopted by autistic people to camouflage their behaviors, typically driven by a desire to “fit in.”^{132,133}

Well-being

Recent research identified that greater awareness of stigmatized status was related to lower levels of psychological well-being in autistic adults.¹³⁴ The lower social standing of stigmatized minority groups is believed to lead to exposure to more stressful life events, alongside fewer resources to manage these events.³ Autistic people have reported a wide range of stressors common to minority groups, including victimization, violence, discrimination, rejection, and felt stigma,^{3,35,135} which predicted heightened psychological distress, reduced well-being,³ and reduced quality of life.¹³⁵ Relatedly, only 7% of autistic adults felt accepted as an autistic person within society, with feelings of acceptance protecting against depression.¹³⁶ These findings are particularly relevant given the high prevalence of co-occurring mental health conditions in autistic people.¹³⁷

Felt and enacted stigma can lead to reduced access to health care, with implications for both mental and physical health.^{138,139} For example, there is a suggestion that negative attitudes at university could stop autistic students from approaching support services.⁵³ Stigma can also lead to a reluctance to disclose an autism diagnosis in health care settings,^{140–142} as well as in the workplace,¹⁴³ despite disclosure often being necessary for appropriate care or support.^{142,143} Similarly, stigma can lead parents to resist a diagnosis for their child.¹⁴⁴ Autistic people and family members have identified stigma and negative perceptions among health care professionals, alongside a lack of

flexibility and unwillingness to make autism-specific adjustments.¹⁴² Therefore, stigma can affect the quality and appropriateness of health and social care received, with consequences for well-being.

The caregivers of autistic people are also adversely affected, with affiliate stigma correlated with anxiety and depression,^{37,145} poorer physical health,⁴² lower subjective well-being,¹⁴⁶ and fewer working hours.³⁹ A recent theoretical framework of the relationship between autism stigma and caregiver mental health suggests that there are both changeable factors (e.g., caregiver burden, self-blame, social isolation) and nonchangeable factors (e.g., culture, financial burden), both of which contribute to mental ill health and stigma.¹⁴⁵

Aside from mental and physical health, the social connectedness that someone feels to their local and wider communities is also an important dimension of well-being.¹⁴⁷ The stigma and misconceptions of the neurotypical majority can lead to autistic people becoming socially isolated.¹⁴⁸ A dominant perception of autistic people is that they are not interested in social relationships.¹⁴⁸ However, many autistic people have a desire for meaningful friendships and relationships but struggle to obtain them.^{149–151}

Dissatisfaction with social support,¹⁹ less social contact,¹⁵² and less social connectedness¹⁵³ have all been associated with the experience of loneliness for autistic people. In turn, loneliness has been associated with depression and anxiety for autistic people across multiple studies,^{131,152–154} as well as with poorer life satisfaction and self-esteem.¹³¹ In contrast, feelings of greater social connectedness, more time spent with friends, and greater levels of perceived social support have all been associated with better well-being among autistic college students.¹⁵⁵ However, the heterogeneity of autism means that assumptions should not be made about the desire for social connectedness.

Those who want more social connectedness are arguably more likely or able to voice their social preferences, so it is easy to forget those who are more passive and retiring, including those who prefer aloneness and do not want intrusion. There should be understanding and acceptance of autistic people regardless of their social style or preferences.¹⁵⁶

For family members, parents report friends asking them not to bring their autistic children to social gatherings or judging their parenting.¹⁵⁷ More generally, parents can find reactions from members of the public difficult and have reported feeling embarrassed in public when their autistic child does not behave in a socially acceptable way.⁷⁸ These experiences may partly explain why the degree of affiliate stigma associates negatively with participation in community events for parents of autistic children,¹⁵⁸ as well as lead to social disconnection from family and friends.³⁹ In summary, autism stigma can have negative effects on the mental and physical health of autistic people and their families, as well as leading to reduced social connectedness. These factors all contribute to reducing well-being within autistic communities.

Camouflaging

Stigma may also be a driver of the behaviors that autistic people choose to present to society, with a consequential impact on mental health and identity. Defined as “camouflaging,” some autistic people dampen down or mask their

autistic traits to try and appear more neurotypical and better manage social situations.^{132,133} This relates to the concept of “compensation” in autism, whereby some autistic people show more “typical” social skills than their underlying social cognitive difficulties would predict.^{159–161}

Compensating for underlying difficulties and camouflaging certain behaviors is mentally taxing and may result in fatigue,^{132,160,162} poorer mental health,^{130,133,140,162–164} educational underachievement,¹⁶² and suicidality.¹⁶⁵ The drive to behave neurotypically can also delay diagnosis, not only delaying access to support but also making the autistic person vulnerable to stigma through being less well understood.^{92,95,96,157,166} Some motivations for camouflaging appear to reflect the pursuit of fulfilment, such as the desire for meaningful relationships.^{130,132,160} However, other behaviors often relate to societal norms, including the fear of rejection or bullying, a pressure to conform,¹⁶⁰ and awareness of being in a “social minority.”¹⁶⁷

Camouflaging has resonance with the concept of “concealment,” which is a way that stigmatized groups have protected themselves from discrimination.¹⁶⁸ Recently, autistic people have described the camouflaging of their autism as a direct response to concerns about experiencing stigma,^{33,169} as well as feelings of shame, which reflects felt stigma.¹³⁰ In this context, camouflaging behaviors have been described as a “normalising artifice” in which the stigma of autism is transformed into the mask of autism.¹⁷⁰

Reflecting this, a greater perception of autism stigma was associated with greater camouflaging in a sample of autistic adults, which has been interpreted through Social Identity Theory as a way of associating with the higher-status neurotypical majority.¹³⁴ However, although there is a relationship between a stronger autistic identity and reduced camouflaging, some autistic people experience an inconsistency; being proud of and strongly identifying as autistic while also camouflaging to fit in.^{130,134,162} Better understanding of this apparent paradox could be an important avenue for future research. In summary, there is converging evidence that camouflaging behaviors can have a deleterious effect on mental health, and they are tightly coupled with protecting the self from the negative consequences of autism stigma.

Reducing Stigma

There are various approaches that may reduce the stigma experienced by autistic people and their families, although there has been relatively little investigation into their effectiveness. In Figure 1, we have included examples of interventions that may bring positive change for the autistic community. For ease of illustration, we have focused the impact of the interventions on contributors to enacted stigma: public and professional understanding of autism and expressed autistic traits. However, these interventions are likely to have a wider impact on, and interact with, other components of the model.

Autism-friendly spaces

Autism-friendly spaces are ones in which the “person-environment” fit is enhanced,^{171–173} including making a space more socially comfortable (e.g., availability of a quiet room; agreed expectations about social interaction) or

physically comfortable (e.g., appropriate lighting) alongside more generic adaptations such as improving the predictability of an environment. A relevant overarching approach is Universal Design, in which environments are developed as inclusive for all at their earliest conception, rather than being subsequently modified.¹⁷⁴

Autistic people have reported that socializing can be particularly difficult when neurotypical family and friends do not consider their preferences, with some activities being inaccessible due to environmental challenges.¹⁶⁷ Further, the inappropriateness of many school environments has been described as a barrier to inclusivity, including issues relating to unpredictability, sensory experiences, and social pressures.^{74,175}

Adaptations to environments give more opportunities for neurotypical and autistic people to share spaces. Although yet to be empirically tested, we argue that autism-friendly spaces can improve understanding of and attitudes toward autism by enabling autistic people to better integrate with the wider community. Further, autism-friendly spaces are less likely to invoke distress, thus enabling autistic people to be their true selves. We argue that this will enhance the quality of interactions with autistic people, and consequently reduce stigma.^{54,106} Thus, although the driver of autism-friendly environments is to make spaces more comfortable for autistic people, there may be wider benefits relating to inclusivity and stigma reduction.

Increased inclusive media representation

Knowing someone with autism is associated with more positive attitudes toward autism^{11,48,53} and less stigma.^{11,13,29} This “knowing” of autistic people could be partly achieved by greater and better media representation. Negative reporting of autism is correlated with negative attitudes,¹⁷⁶ but the media representation of autistic people is often negative.^{177–180} There has been a call for more accuracy in portrayals of autism in the media, although achieving a balanced message is difficult given the heterogeneity of autism.¹⁸¹ Positive portrayals are also beneficial for autistic people and their families.¹⁴⁴ Therefore, positive autistic role models and representation of the diversity of autistic experience are likely to improve understanding and reduce negative attitudes, ultimately reducing autism stigma. In addition, positive media representations may support autistic people in expressing themselves and reduce the need for camouflaging.

Educational and psychosocial training tools

Another approach is to formally educate the public and professionals about autism. Online training using PowerPoint has significantly increased knowledge and decreased stigma in students.^{13,50,182,183} However, it is unknown whether these positive changes would be sustained over time, nor whether the training would translate to real-life behaviors.

With respect to the impact of training on real life, a recent study investigated the effect of an autism acceptance training video on young adult males who subsequently engaged in a conversation with an autistic social partner.¹⁸⁴ Both partners reported more interest in spending time with each other compared with dyads where the neurotypical partner had not had the training, suggesting that training had a relational effect. This supports a previous study where the video had a positive effect on reducing self-reported autism stigma in

undergraduates.¹⁸⁵ However, the positive effects of the video on real-life interactions did not extend to all measures of interaction quality,¹⁸⁴ and the video did not affect an implicit bias toward associating autism with stigma-related attributes.¹⁸⁵

For children, the “Understanding Our Peers with Pablo” program encompasses story books and animations to teach about autism and reduce autism stigma. It improved attitudes toward unfamiliar autistic peers but did not enhance attitudes toward familiar autistic peers compared with a control group.¹⁸⁶ In addition, behavioral intentions were not improved and thus stigma still prevailed, which is consistent with previous research that has used a similar intervention with adolescents.^{187,188} Therefore, although studies addressing stigma can bring positive change, the outcome measure is an important consideration. An explicit shift in attitudes may not be a sufficient determinant of a more embedded change in implicit beliefs or behaviors.

A recent survey of neurotypical people found that knowledge of what it could be like to have autism predicated more positive attitudes toward autism.⁴⁸ First-hand experience of an autistic perspective may help neurotypical people understand that their actions may align with an autistic person when they have similar experiences,¹⁸⁹ reflecting the issue of double empathy. Technological innovations offer opportunities for providing this perspective. “Auti-Sim” is a simulation of sensory overload designed to give neurotypical people a first-person experience of the challenges that autistic people face.¹⁸⁹

Using the simulation increased perspective taking compared with watching a simulated experience or reading a vignette, and heightened perspective taking was associated with greater emotional concern and helping intentions. However, there was no difference in explicit attitudes toward autism. Similar approaches include videos designed to illustrate the first-hand experiences of autistic people in their everyday lives, e.g., during a short walk.¹⁹⁰

Looking forward, there may be mileage in drawing on existing resources that target the implicit, or unconscious, bias that individuals can hold toward marginalized groups.^{191,192} Further, comprehensive programs that include whole organizations, such as the Welsh Government’s Learning with Autism whole-school training program,¹⁹³ may engender greater attitude change due to the enhanced capacity for a cultural shift. Importantly, participatory input from autistic people in adapting an online training tool has led to the tool being more effective at changing autism knowledge, autism stigma, and attitudes toward inclusion, compared with a version of the training where there was no participation.¹⁸² This underlines the value of including autistic people in the development of training tools.

Neurodiversity

Arguably, autism stigma may be best reduced by a fundamental shift in the way autism is perceived by society. The neurodiversity movement celebrates autism for the differences it brings to society and for being an integral part of autistic people’s identities, similar to race, sexuality, or nationality.^{29,194} The term “neurodiversity,” initially adopted by members of the autistic community,¹⁹⁵ is now recognized by many other neurodivergent groups.^{196,197}

Neurodiversity is encapsulated within the minority model of disability, which emerged as a direct challenge to the

biomedical model of disability, with its focus on pathology and cure.^{3,194,198} A central tenant of the minority model is that society’s restricted conceptualization of “normal” creates disability.³ It has close ties with a social-developmental account of autism that argues the development and well-being of autistic individuals is significantly shaped by misperceptions of the neurotypical majority.⁸⁷ In essence, neurodiversity is the recognition of the range of natural diversity that is found within human development.¹⁹⁹

Adopters of neurodiversity reject the medical model of autism as “deficit” in favor of autism as “difference,” which contributes positive diversity to society.^{29,194} Importantly, the onus on embracing neurodiversity should not be placed solely with autistic people and their families. Autistic people may feel more positive self-identification through identifying with neurodiversity, but the power of neurodiversity to engender meaningful societal change depends on its wide adoption. Recently, there has been a call to members of the autism research community to engage with the tenants of neurodiversity and bring about a paradigm shift in autism research.¹⁹⁹

Having views aligned with the neurodiversity model is associated with lower stigma toward autistic people.²⁹ Autistic identification is positively related to positive self-esteem, as well as lower levels of depression and anxiety.²⁰⁰ The neurodiversity movement aligns with the ownership that many autistic people have taken of language used to describe them, with endorsement of identity-first language.^{194,201,202} Identity-first language (e.g., autistic person) is considered less stigmatizing, partially because person-first language (e.g., person with autism) could imply the identity is shameful and partially because person-first language is not used in contexts outside of disability.^{33,202,203} However, not all autistic people or their families prefer identity-first language²⁰¹ and differences in preference should be considered.

Alongside adoption of identity-first language, there has also been a call for researchers to avoid ableist language, which carries an implicit assumption that disabled people are inferior to others,²⁰⁴ and to adopt the term “autism spectrum condition” over the potentially more stigmatizing “autism spectrum disorder.”

It is important to note that identity with the autistic community can be ambivalent for some, with the benefit of finding a sense of belonging existing alongside internalization of the autism stigma.^{101,170} The visibility of positive autism messages is, therefore, key and the embracing of neurodiversity can be seen in narratives in which autistic people call for acceptance of autistic behaviors, such as stimming.⁸¹ Other activities to support neurodiversity include events that showcase the achievements of autistic people, particularly when designed by autistic people.¹⁹⁰

The neurodiversity movement, therefore, has potential to improve public and professional understanding of autism, while also creating a culture where autistic people feel more able to express their true selves. It may also reduce the need to camouflage autistic behaviors, bringing co-occurring improvements in mental health.

Conclusion

Our synthesis of the literature has presented a model of autism stigma designed to promote understanding and further

research of the difficulties people within the autistic community may face in finding acceptance. A truly nuanced exploration of autism stigma should take an intersectional approach, in which the wider social and cultural context and other forms of stigma can be accommodated.²⁰⁵ It is imperative that future autism sigma research includes participation from those with lived experience,^{29,199,206,207} not least because to leave the autistic community out of the research process perpetuates a “them” and “us” culture that reinforces stigma. Consideration must be given to including a diverse range of autistic community contributors, including those who may not typically engage with research.²⁰⁸

Importantly, we are not assigning responsibility to the autistic community for their stigma. Rather, we are reflecting theoretical understanding that the development of stigma is driven by the cultural framing of difference and the insidious effects of labeling this difference.⁸ For autism, decades of converging research support the reality of patterns of social communication differences and restricted and repetitive behaviors, which can cause challenges in everyday life. However, when we refer to a label as a “condition” or “disorder,” we are locating the referent in the stigmatized person, rather than recognizing that the label has evolved because of its social significance and as a product of social processes.⁸

There is clearly a value to labeling, not least because it creates a shorthand for society to recognize and address an individual’s needs. However, by labeling a “difference,” ostensibly to provide support, we are creating challenges for the labeled. There is no easy solution to this conundrum.

An interesting counterpoint to this has been the neurodiversity movement and the reclaiming of identity by autistic people. Many autistic people are communicating that their autism “is” them and not something separate,²⁰² which at face value is counter to approaches that advocate distancing from a stigmatized label.⁸ The neurodiversity movement may, therefore, support a shift in both the power and value of autism labels, with the potential to reduce autism stigma. In addition, neurodiversity may provide an important framework in which to develop a novel program to challenge and reduce felt stigma in autistic people.

Authorship Confirmation Statement

C.R.G.J. and A.T. were involved in the conceptualization of the article and wrote the original draft. C.R.G.J. led on the development of the model. K.L. reviewed and edited drafts of the article. All co-authors have reviewed and approved of the article before submission. The article has been submitted solely to this journal and is not published, in press, or submitted elsewhere.

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