**Missing from the Narrative: A Seven Decade Scoping Review of the Inclusion of Black
Autistic Women and Girls in Autism Research**

Temple S. Lovelace, Mary P. Comis, JoVonne M. Tabb, and Olajumoke E. Oshokoya

Department of Counseling, Psychology, and Special Education, Duquesne University

Author Note

Temple S. Lovelace: <https://orcid.org/0000-0002-1467-1038>

Correspondence concerning this article should be addressed to Temple S. Lovelace, Duquesne University, Department of Counseling, Psychology, and Special Education, 412B Canevin Hall, 600 Forbes Avenue, Pittsburgh, PA 15219. Email: lovelacet@duq.edu

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Abstract

The intersectional experiences of Black Autistic women and girls (BAWG) are missing from medical and educational research on autism spectrum disorder (ASD). Understanding the intersectional experiences of BAWG is important due to the rising prevalence of autism in Black children and girls (CDC, 2016) and the concurrent lack of availability of culturally relevant autism-related interventions (Maenner, 2020; West, 2016). Intersectionality is the study of the overlapping discrimination produced by systems of oppression (Collins, 2019; Crenshaw, 1989; 1991) and allows the researcher to simultaneously address race and disability in special education (Artiles, 2013). In this scoping review, the authors used the PRISMA-ScR checklist (Tricco et al., 2018) and Arksey and O'Malley's (2005) framework to investigate the degree to which autism-related research (ARR) has included the intersectional experiences of BAWG. Utilizing narrative synthesis, strengths and gaps across the current body of literature are identified in order to set new directions for intersectional ARR. Overall, the authors found that across a 77-year period, three studies foregrounded BAWG and none addressed intersectionality as measured through criteria advanced by García and Ortiz (2013). These results reveal the scholarly neglect BAWG face in ARR, discourse, policy, and practice. A future agenda including research, practice, and policy priorities is identified and discussed.

Keywords: autism, intersectionality, scoping review, gender, race, Black, girl, woman

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Introduction

For the last 77 years, the White male identity has propagated and saturated what is known about autism spectrum disorder (ASD) (Matthews, 2019). The exclusion of non-White, non-male identified Autistic¹ individuals in autism-related research (ARR) hinders the ability of the behavior analytic field to meet the needs of the entire Autistic population. Since the mid 2000s, examining the role of race and its correlation with autism has dramatically increased. Investigations on disproportionate prevalence (Tincani et al., 2009; Travers et al., 2011); parental perspectives (Barrio et al., 2018; Kim et al., 2020); participation in research (Robertson et al., 2017; Shaia et al., 2020); and intervention success (Davenport et al., 2018) have opened rich conversations on the experiences of racially diverse Autistic individuals, however, they have occurred outside of the field of behavior analysis and pale in comparison to the volume of non-intersectional ARR, funding, and practice (Pellicano et al., 2018). Autism is clearly a national priority as evidenced by the FY20 federal spending package of nearly \$3 billion in ARR and over \$14 billion on autism and IDEA related services (Autism Speaks, 2019). Despite this, Black Autistic women and girls (BAWG) remain invisible. There is a need for critical work that utilizes intersectionality to deeply understand the relationships between disability and other marginalized social identities (Artiles, 2013; García & Ortiz, 2013).

Intersectional analysis requires several elements, chief among them is usable epidemiological evidence (Jaehn, 2020). There must be a deeper exploration of how race, ethnicity, and SES impact estimations of ASD diagnoses (Lyall et al., 2017) and an acknowledgement that the current prevalence estimation methods prevent an accurate count of BAWG. The Centers for

¹ The authors are utilizing the preference of many Autistic individuals to not use person-first language, but to use identity-first language as described by a Chinese, East Asian Autistic person (Brown, 2011a; Brown, 2011b) and a Black Autistic woman (K. Smith, personal communication, March 20, 2020).

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Disease Control (CDC) state that measuring ASD prevalence by gender and race/ethnicity will indicate where identification is incomplete and how policy can “support identification of ASD among subgroups, particularly female and nonwhite children who have historically had lower identified prevalence...” (Christensen et al., 2016, p. 9-10) but research highlighted at the federal level runs contradictory to those goals. The Interagency Autism Coordinating Committee (IACC)’s *2019 Summary of Advances in Autism Spectrum Disorder Research* highlight 20 articles, none of which directly reflect the experiences of BAWG (2020). Three articles mention the need for a greater emphasis on disparities in ARR, but none address the specific needs of marginalized Autistic individuals. This past and present erasure results in a dangerous triangulation of key elements (e.g., lack of counting, lack of funding, lack of relevant interventions) that have produced a pernicious history for BAWG. This begs the overarching question that governs this scoping review: How does the absence of BAWG in policy and practice impact the representation of BAWG in research?

Exploring Representation

The prevalence of autism spectrum disorder (ASD) is estimated at 1 in 54 children (Maenner et al., 2020). It is classified in the *Diagnostic and Statistical Manual of Mental Disorders* as “persistent deficits in social communication and social interaction across contexts, not accounted for by general developmental delays” that are manifested as deficits in: social-emotional reciprocity, nonverbal communicative behaviors used for social interaction, and the ability to develop and maintain relationships (5th ed.; DSM–5; American Psychiatric Association, 2013, p. 50). Recent epidemiological evidence by race indicates nearly identical prevalence estimates in

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Black² and White 8-year-old children (Baio et al., 2018), however, state-level estimates show persistent gaps in identification (Travers & Krezmien, 2018). For every girl, 4.3 boys are diagnosed with ASD (CDC, 2020), yet bias (e.g., male-based symptomatology) is presumed to impact this ratio (Halladay et al., 2013). These disparate prevalence numbers have led to compounded barriers for BAWG (e.g., lack of early evaluation, access to ABA therapy and other services, etc.) (Lovelace et al., 2018; Maenner et al., 2020).

Several systematic reviews document the needs of minoritized Autistic individuals. They face barriers in accessing services (Smith et al., 2020); increased exposure to environmental factors (Ng et al., 2017); surging health disparities (Bishop-Fitzpatrick & Kind, 2017); expanded structural barriers (Singh & Bunyak, 2018); decreased transition services (Eilenberg et al., 2019); and inadequate gender and non-binary identity focused services (Glidden et al., 2017; Loomes & Mandy, 2017; Margari et al., 2014; Van Wijngaarden-Cremers et al., 2014; Øien et al., 2018). Despite this convergence of research, the experiences of Black Autistic women and girls are absent. The United Nations has explicitly called for intersectionality through its disability inclusion policy (United Nations, n.d.), yet the current research base is unable to support intersectional analysis. Pierce et al. (2014) report that in three preeminent ASD-related journals, 72% of articles had no race or ethnicity descriptors and 54% of articles did not consider ethnicity or race in determining research outcomes or findings. Even more concerning is when race, ethnicity, or nationality (REN) are recorded, White participation dominates reporting. West et al. (2016) found that when REN was reported, 63.5% of those participants were identified as White in comparison

² Within the African diaspora, self-identification as Black, African American, Afro-Latinx, and other identity markers are often a personal matter (Cross, 1991). For the purposes of this review, we use Black as an inclusive term to represent all members of the African diaspora.

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to 6.8% who were identified as Black. This deletion of BAWG continues in gender-based Autistic related research. In a 2017 special issue of *Autism* focused on gender, none of the 18 publications included race as a variable of analysis or a critical element for future research and only one reported the race of participants, who were White. The implicit elimination of Black Autistic women and girls cannot fulfill the Interagency Autism Coordinating Committee's (IACC) commitment to a "paradigm shift in how we approach autism" (p. vi) that will have a more immediate and direct impact on the daily lives of Autistic people (2017; Pellicano et al., 2018). In order to determine the true absence of BAWG from ASD discourse, this scoping review asked the following questions of the literature:

1. In the past seven decades, what research features BAWG and what have we learned that directly supports them?
2. How has ARR allowed us to better understand the experiences of BAWG that are qualitatively different from other Autistic individuals?

Reframing Autism: Moving from White Male Normativity to Intersectionality

Pellicano et al., (2018) state that "it is not right that one group holds all of the influence and power" when it comes to Autistic-related research (ARR) (p. 82). There is a certain orthodoxy that is upheld that allows the White male identity in the autism experience to permeate and subsume that of Black Autistic women, relegating them as "absent presences of raced and disabled bodies" (Artiles, 2013, p. 331). Racialized, gendered, and ableist conceptualizations foreground White supremacy (Brown, 2017) and elucidate a standardized definition of Autistic people. Although the call for intersectionality in special education and disability studies exists (Artiles, 2013; Ben-Moshe & Magaña, 2014; Conner et al., 2016; García & Ortiz, 2013; Gillborn, 2015), few autism-focused researchers (AFR) have responded. Prior to examining the research

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that centers Black Autistic women and girls, it is critical to define intersectionality and frame this review appropriately.

Intersectionality and DisCrit

Intersectionality examines how distinct social structures (i.e., gender or race), “mutually construct each other” (Bowleg, 2008, p. 313) and how disability, race, and gender are interdependent (Annamma et al., 2016; Collins, 2019). Defined as “a way of understanding and analyzing the complexity in the world, in people, and in human experiences” (Collins & Bilge, 2016, p. 2), intersectionality troubles the notion that identities are discrete or additive (e.g., Black + Autistic + Woman) and addresses how systems of oppression simultaneously interlock to create new measures of discrimination (Bowleg, 2008; Taylor, 2017). In order to study Black Autistic women and girls effectively, intersectionality demands the construction of a new analytical tool that addresses the interdependent, enmeshed nature of this new racialized, gendered, and abled identity. Epistemologies must shift to accurately reflect the experiences of Black Autistic women and girls.

Black women and girls live as racialized beings (Annamma, 2017; Blake et al., 2011; Joseph et al., 2017). Their bodies are policed (Annamma et al., 2019; Epstein et al., 2017; Morris, 2015), their knowledge subjugated (Evans-Winters & Esposito, 2010), and their health ignored (Bishop-Fitzpatrick & Kind, 2017; Townsend et al., 2010). The narratives that pathologize Black women and girls are rooted in a larger set of historical processes that have the predictive power to determine special education eligibility and post-secondary outcomes (Ferri & Conner, 2007). These narratives must be counteracted with critical epistemologies of what disability, Blackness, and gender are and how they are represented through BAWG.

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As a theoretical framing for this review, Dis/ability³ Critical Race Studies (DisCrit) allows for the dual analysis of race and ability (Annamma et al., 2016). Rooted in Critical Race Theory (CRT) and Disability Studies (DS), DisCrit provides an interpretive lens to examine practices that are raced, gendered, and ableist (Annamma et al., 2016). With intersectionality at its core, DisCrit affords crucial insights into how the individual-system binary may impact BAWG (Annamma et al., 2016; Adams & Erevelles, 2016). In this review, using DisCrit as our foundation, we systematically scoped the current autism-related evidence base to address the intersectional inclusion of Black Autistic women and girls.

Objectives

This scoping review explores peer-reviewed literature that features the experiences of Black Autistic women and girls (BAWG). The use of systematic reviews in education has grown in response to the demand for a “syntheses of the range, extent, and nature of primary research on particular topics” (Walsh et al., 2019, p.20). Colquhoun et al. (2014) define scoping reviews as a “form of knowledge synthesis that addresses an exploratory research question aimed at mapping key concepts...and gaps in research” (p. 1294). Scoping reviews examine emerging evidence in a particular area and guide future investigations on a topic (Lockwood et al., 2019). Moreover, they are helpful when a topic is complex, diverse, and has not previously been comprehensively reviewed (Sucharew & Macaluso, 2019). We conducted a scoping review to systematically map the intersectional research available on BAWG since classic autism was identified in 1943.

³ Dis/ability written with the forward slash is employed by Annamma in order to “analyze the entire context in which a person functions” (Annamma et al., 2016, p. 1) and to acknowledge that “dis/ability is not a thing to find and fix, but a process” (Annamma, 2017, p. 7). Moreover, Annamma (2017) states that disability without the forward slash centers ability as the normative experience (dis= not, ability = able).

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Through this review, we identify key concepts, critical social theories, and definitions that should guide future research on BAWG.

Narrative Synthesis

This review interrogates 77 years of autism-related research (ARR) through narrative synthesis. Narrative synthesis has been successful in past scoping reviews of ARR (Dawson-Squabb et al., 2020; Franz et al., 2017) and is helpful when there may be a lack of homogeneity across extracted study designs (Popay et al., 2006). This process guides researchers to: (1) develop a theoretical model of how the interventions work, why and for whom; (2) develop a preliminary synthesis, (3) explore relationships in the data; and (4) assess the robustness of the synthesis product (Popay et al., 2006). We created a non-hierarchical theoretical model (e.g., causal loop diagram) to guide the aims, the terms and definitions, and the relevant data to be included in this review (Lorenc et al., 2014). Causal loop diagrams, a tool of system dynamics, show the impact of variable changes and disruptions across a system and represent how power mutually constructs social and political structures within a system (Meadows, 2008). System dynamics, a part of systems theory, allows investigators to explore the behavior patterns of a system over time and simultaneously interrogate the interdependent elements of a system to affect change (Hovmand, 2014; Meadows, 2008). Our adapted causal loop diagram in Figure 1 highlights the three endogenous variables (i.e., Autistic individuals, research, and evidence-based practices) that are the focus of this review. This scoping review considered qualitative and quantitative peer-reviewed literature focused on the experiences of BAWG.

Method

Framework for Scoping Review

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We conducted this review consistent with two guiding frameworks, the Preferred Reporting Items for Systematic Reviews and Meta-Analyses extension for scoping reviews (PRISMA-ScR) checklist (Tricco et al., 2018) and Arskey & O'Malley's (2005) five-stage framework for scoping reviews. The Arskey & O'Malley (2005) framework has the following stages: (1) identify the research question; (2) identify relevant studies; (3) study selection; (4) chart the data; and (5) collate, summarize, and report the results. The PRISMA-ScR checklist has 20 essential and two optional items.

Search Strategy

The search strategy was an iterative process to ensure that a comprehensive and systematic review was conducted (Walsh, 2019). Table 1 includes the search terms and definitions we selected a priori to guide this review.

Table 1

Terms and Definitions Used in the Scoping Review

Term	Definition
Black	Racial classification that includes multi-generational individuals that: identify as Black or African American, are from sub-Saharan African countries, or identify as a part of the modern African diaspora.
Autism Spectrum Disorder	As defined in the DSM-5, DSM-IV (Pervasive Developmental Disorders [e.g., Autistic disorder, Asperger's Syndrome, PDD-NOS], DSM-III (Pervasive Developmental Disorder), and DSM-II (Childhood Schizophrenia)
Woman	As identified due to biological categorization (i.e., sex) or gender identity.
Girl	As identified due to biological categorization (i.e., sex) or gender identity.

The final set of search strings were determined based upon several preliminary searches. Seven disciplinary and interdisciplinary databases (APA PsychARTICLES, APA PsychINFO,

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ERIC, PubMed, Teacher Reference Center, Academic Search Elite, and Scopus) were searched using the dates January 1, 1943 to February 1, 2020. The search dates corresponded with the seminal articles on autism published by Kanner (1943) and Asperger (1944). Filters were applied for language and publication type. The final search string for Black Autistic girls was Black AND Girl* AND Autis* NOT (adhd or attention deficit hyperactivity disorder) and African American AND Girl* AND Autis* NOT (adhd or attention deficit hyperactivity disorder). The one for Black Autistic women was nearly identical.

Eligibility Criteria. The authors defined the eligibility criteria based upon the keyword search. Publications were considered that: (1) included participants that identified as being Black or African American; (2) included participants that self-identified as a girl or woman; (3) included Autistic participants; and (4) available in English. Publications were excluded that: (1) were published before 1943, (2) did not foreground Black Autistic women and girls as participants, (3) did not distill findings specific to the experiences of Black Autistic women and girls, and (4) focused on developmental disabilities in general, not ASD specifically.

Interrater Reliability & Data Extraction

The authors utilized Covidence (Veritas Health Innovation, n. d.) for this review. The first two authors were the primary reviewers at each stage and the third author resolved discrepancies. The initial search yielded 37 publications for review. Prior to proceeding with Covidence, 20% of articles (n=6) retrieved from the initial search were coded by all four authors to establish reliability for study selection. The final search string was revised to exclude “attention deficit hyperactivity disorder” and “ADHD” due to number of articles that only focused on ADHD. The updated search yielded 33 publications. After removing duplicates (n=9) the first two authors proceeded with the review using Covidence. For title and abstract screening, the first and second

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authors agreed on 13 publications, with 11 disagreements resolved through consensus. After reconciling voting, 14 publications were forwarded for full text review. Excluded publications at this level consisted of six monitoring reports, a publication describing developmental disabilities broadly, and four publications with single-axis analyses (e.g., race or gender). Three publications were extracted for synthesis. The PRISMA flow diagram for this scoping review is shown in Figure 2.

Following screening, three publications were extracted into NVivo for narrative synthesis. All authors conducted a preliminary evaluation to determine the factors to include during extraction and synthesis. Due to the low number of extracted publications, the authors used each publication to create the data fields for extraction. Inter-extractor reliability, a measure of similar data extracted across reviewers, was 100%.

Intersectional Analysis of Extracted Studies

The first and third authors utilized elements from García and Ortiz' (2013) guidance for intersectional research as the schema for synthesis. Using the following main anchors of their framework, (1) a deep understanding of the intersections among multicultural/multilingual students, communities and schools and (2) research reflexivity, we chose the following indicators for our synthesis: (1) inclusion of a theoretical framework consistent with intersectionality (e.g., critically rooted theories), (2) descriptions of intervention goals beyond a disability-specific orientation, and (3) evidence of reflexivity that indicates the researcher acknowledges the impact of the broader power structure or system within which the participant is situated.

Limitations of the Current Review

We acknowledge several limitations in this review. First, we did not search grey literature (e.g., dissertations, reports, newsletters) which can be a component of scoping reviews (Paez,

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2017) and represent nearly half of the literature in databases (Mahood et al., 2014). Two of the extracted publications (Reinblatt et al., 2006; Wolfberg, 1993) are published conference proceedings and could be argued to represent grey literature. Mahood et al., (2014) suggest that peer-reviewed conference proceedings that appear in commercial publications can be considered peer-reviewed literature. In addition, the Wolfberg (1993) publication references more broad work (e.g., a dissertation, a journal article, and a book) and represents seminal research on integrated play groups, which is a foundational evidence-based practice. Next, our eligibility criteria may have limited the inclusion of research relevant to the broader conversation on gender, race, and disability, which is still worthy of significant investigation. Further, we acknowledge that subjectivity could have impacted this review. We did take measures against this with the use of Covidence, the use of three independent reviewers, and employing inter-rater reliability testing and consensus meetings throughout the process.

There are several limitations because of our search process that may have impacted the inclusion of articles in our review. First, we acknowledge the growing number of Autistic individuals who have disclosed an ADHD diagnosis and recognize that this co-occurrence should be a priority in future investigations. In this study, we excluded the term ADHD in our search string due to the considerable number of articles included in our test searches that featured participants with ADHD and not Autism. In addition, the term female was not a named term in the search string to foreground self-identified gender and not biological classifications of sex. This may have resulted in the exclusion of viable studies. Even though many titles, abstracts, and keywords do not include specific information regarding study participants' demographic and diagnostic information, we know that these limitations may have inadvertently overlooked important literature that features the experiences of Black Autistic women and girls.

Results

The results are detailed below for the following areas: (1) descriptive characteristics of the publications and (2) relationships across publications.

Descriptive Characteristics

Descriptive information included in our scope can be found in Table 2. Three publications represent the current research that foreground BAWG. One publication is a peer-reviewed journal article and two are conference proceedings, one of which was published as a journal article. Each of the publications were case studies. One study was conducted in South Africa, one study was conducted in the United States, and the third location is presumed to be the United States due to information included in the study. These publications were published within a 13-year time span (1993 – 2006).

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Table 2*Descriptive Characteristics for Publications Featuring Black Autistic Women and Girls*

Authors (publication year)	Number and Name of Participant in Publication	Age at Diagnosis	Diagnosis	Criteria Used for Diagnosis	Age at Intervention	Objectives of intervention	Intervention type	Location of study	Type of publication	Study design
Moodley (1992)	1; None Given [Nandi used as a pseudonym in our re- porting]	2 years and 9 months	Rett Syn- drome	Trevathan & Naidu's 1988 cri- teria for Rett Syn- drome	2 years and 9 months	n/a	n/a; publi- cation de- scribes the diag- nosis pro- cedure	South Af- rica	Journal ar- ticle	Qualita- tive (Case Study)
Wolfberg (1993)	1; Teresa	Early years of life*	Autistic disorder*	Rutter's 1978 cri- teria for autism	9 to 11 years of age (study conducted over two years)	Reciprocal social rela- tions and symbolic representa- tion	Peer play through integrated play groups	United States, California*	Confer- ence pro- ceedings (paper presenta- tion)	Qualita- tive (Case Study)
Reinblatt et al. (2006)	1; A	3 years	Autistic disorder	DSM (edi- tion not specified)	10 years old	Aggression and self-in- jurious be- havior	Loxapine	Not re- ported	Journal ar- ticle	Qualita- tive (Case Study)

Note. In Wolfberg (1993) the location of the study and specific diagnostic was not included in the publication selected for review. The authors hand searched additional publications focused on the participant to complete the descriptive information for each article. Information found from secondary sources is marked with an asterisk (*).

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Relationships Across Publications

Each of the publications were case studies that provided information about participants, their diagnostic history, and interventions implemented. A (10 years old), Nandi⁴ (2 years, 9 months old), and Teresa (9 years old) are the three participants across each of the studies. Two of the three publications reported detailed information about the parents of the girls, including birth information and development prior to diagnosis. Nandi lived with both of her parents, Teresa lived with her grandmother, and A lived with her mother during their participation. Nandi, Teresa, and A's mothers each reported uncomplicated pregnancies and deliveries. Two of the publications reported age at diagnosis, the average just under three years of age. Each of the girls were diagnosed with pervasive developmental disorders: Nandi with Rett syndrome and Teresa and A with Autistic disorder. A, Nandi, and Teresa were described to have vocal ability, with Nandi and Teresa having limited verbal language that was most prominent from 1 to 2 years old. Nandi and Teresa were receiving school-based special education services at the time of their research participation.

There were no direct relationships found across the interventions implemented in these studies. Moodley (1992) outlined Nandi's diagnostic process for Rett syndrome and Reinblatt et al. (2006) and Wolfberg (1993), featuring A and Teresa, respectively, focused on interventions. A received Loxapine to reduce her reported aggressive and self-injurious behaviors during a 9-month hospitalization in a psychiatric unit. Teresa participated in an integrative play group, which focused on peer-mediated play to increase imaginative play through reciprocal social interactions and symbolic representation. Teresa participated in this ethnographic interpretive case

⁴ Nandi is a pseudonym we are using to hold space in acknowledgement for this participant's contribution to this emerging research area. She is unnamed in the original publication.

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study for 10 years, however, a two-year period from ages 9 to 11, were the focus of the Wolfberg (1993) publication.

Evidence of Intersectionality

We assessed intersectionality across three domains: (1) evidence of an intersectional theoretical framework, (2) evidence of person-centered, identity-first participant descriptions and intervention goals, and (3) evidence of research reflexivity (García & Ortiz, 2013). There was no evidence of intersectionality in any of the publications. None of the publications included a theoretical framework to guide their research. Each of the publications included in-depth case information that described A, Nandi, and Teresa's background and previous experiences, with A and Nandi described from a disability-specific, deficit-based orientation. Information about Teresa in the Wolfberg (1993) publication was brief, however, person-centered descriptions were found in related publications suggested by P. J. Wolfberg (personal communication, June 2, 2020). Evidence of research reflexivity was found in related publications (Wolfberg, 1994; 2009), but not in the 1993 publication. There was no evidence of research reflexivity in the Moodley (1992) or Reinblatt et al. (2006) publications. In large measure, the three publications included in this review failed to effectively address intersectionality and reflect the need for intersectional BAWG representation in ARR.

Discussion

The results of this scoping review highlight the scholarly neglect of Black Autistic women and girls (BAWG) in special education research. Organized by the aims of the review, the experiences of A, Nandi, and Teresa highlight how the field has failed BAWG, how we must address the unique experiences of BAWG, and set the occasion for us to introduce the new tenets of a broad intersectional research and practice agenda for BAWG.

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The publications that feature A, Nandi, and Teresa included diverse publication types. In order to represent A and Teresa's experiences in this review, we included publications that could be considered grey literature. As case studies, these publications did not have the same components as experimental research, but they provide insight into a set of phenomena in a bounded context (Miles et al., 2014). Case studies can serve as counter-stories to resist deficit-based, White normative narratives (Berry & Cook, 2019) and are a useful intersectional tool, especially when coupled with experimental research (West, 2016). For caregivers and behavior analysts, case studies can provide crucial information that can be used in intervention selection. A, Nandi, and Teresa give us crucial information through their experiences and simultaneously signal the need for increased attention to serve Black Autistic women and girls better.

The Complexity of an Absent Narrative

A, Nandi, and Teresa were diagnosed under the retired diagnostic criteria (Young & Rodi, 2013) associated with pervasive developmental disorders (e.g., Autistic disorder, Asperger's Syndrome, Rett Syndrome, childhood disintegrative disorder, and pervasive developmental disorder - not otherwise specified [PDD-NOS]). A and Nandi received their diagnoses at approximately 3 years of age and Teresa in early childhood. This is comparable to that of Black Autistic boys (Lovelace et al., 2018). In addressing their shared characteristics, each reported diminishing vocal language and for Nandi, this regression is what prompted the evaluation for Rett Syndrome. In addition, A and Nandi engaged in stereotypic behavior, which are repetitive, uncontrolled movements that are often maintained by automatic reinforcement (Quest et al., 2014). These shared characteristics are helpful to note as behavior analysts in order to differentiate and catalog initial indicators of this spectrum-based disability for Black Autistic girls. Intervention information is also critical to classify. A and Teresa's interventions targeted social behavior, a

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common focus for intervention. In Wong et al.'s (2014) comprehensive review of 27 evidence-based practices widely used for Autistic individuals, six of the 27 practices are associated with mediating social behavior, including integrated play. Wolfberg (1993) reports that Teresa had an increase in her social relations with others and engaged in less isolated and more sustained interactions with peers. A's outcomes were also reported as positive, with concerning caveats. While A's prosocial behavior, academic skills, and therapeutic skills increased, her treatment experience is reminiscent of the troubled legacy of Black people and medical institutions (Gill & Erevelles, 2017). Reported as her first hospitalization, Reinblatt et al. (2006) admit that there were several challenges in finding an effective treatment for A. Absent a complete evaluation, A was exposed to a series of typical and atypical antipsychotics to reduce her aggression and self-injurious behavior. While antipsychotics have been used with increasing frequency for Autistic children and adults (Hellings et al., 2017), no medication has been proven to be effective in treating the core symptoms of ASD (Goel et al., 2018). A's experiences serve as the proverbial canary in the coal mine concerning Black children and pharmacotherapy. Logan et al. (2014) suggest pharmacotherapy for use with Medicaid-eligible Autistic children who outnumber the state's capacity to provide behavioral intervention. This is troubling, for they base this on prior studies seeking improved medication adherence with minoritized children (Bussing et al., 2003; Chavira et al., 2003; Fontanella et al., 2011; Patel et al., 2005) leaving a crucial discussion on the systemic factors related to the lack of treatment adoption omitted. As autism-focused researchers, the dichotomy between A and Teresa's experiences highlight a desultory BAWG narrative. With nearly a decade between their experiences, A and Teresa, at nearly the same age, with similar

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family, diagnostic, and educational backgrounds, stimulate several ontological questions as to the true progress that has been achieved in ARR for BAWG that must guide our way forward.

A Clarion Call for Intersectional ARR

The experiences of A, Nandi, and Teresa should shake the foundation of ARR, amplifying the epistemological and ethical conflicts the current system is creating for BAWG. By exploring the gaps in ARR that our intersectional analysis reveal, A, Nandi, and Teresa can help us to set a new agenda for research and practice. Garcia & Ortiz' (2013) guidance suggests that incorporating theory, using identity-focused comprehensive participant descriptions, and including research reflexivity will better address the needs of BAWG. For intervention research, theoretical frameworks provide an understanding of the intervention study aims as well as support the translation of findings (Moore & Evans, 2017; Moore et al., 2019; Wolcott et al., 2019). Theory ties together a body of knowledge that "organizes, describes, predicts, and explains a phenomenon" (Fleury & Sidani, 2012, p. 11). It expands the knowledge base for clinical practice, fosters the systematic development of an intervention, and grounds the intervention in a larger justice structure (Fleury & Sidani, 2012; Moore et al, 2019). While not widely used in intervention research (Fleury & Sidani, 2012), theoretical frameworks ground the research aims (Creswell, 2018) and provide context to findings (Miles et al., 2014). That context allows us to choose culturally relevant, identity affirming behavior analytic interventions. However, in these three studies, the lack of a theoretical frame prevented a deeper analysis into the role of race and gender in intervention choice and success; keeping intervention as an action separate from each girls' identity. Moore & Evans (2017) challenge intervention researchers to "move away from viewing interventions as discrete packages of components which can be described in isolation from their contexts, [but as

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a way to] understand the systems into which change is being introduced” (p. 132). Using intersectionality in ARR would provide fresh insights into the dynamics and mechanisms shaping Black lives, acting as an analytic tool to shift ARR from being passive to active and allowing practitioners to understand and analyze the complexity in Autistic people and in their experiences (Collins & Bilge, 2016).

This complexity, the second indicator, includes addressing the cultural, linguistic, and sociopolitical referents of the participants (García & Ortiz, 2013). Race, gender, and disability, along with comprehensive background information were named for A and Nandi, however, they reflected a medical model approach. What did we glean from these articles that was materially different than if they were White Autistic boys? As Collins (2019) suggests, naming a social identity does not occasion intersectionality. Without proper analysis, readers are left to assume how A, Nandi, and Teresa’s race, gender, and disability coalesce as a mediating variable in the intervention.

Erasing the social identities of A and Nandi also occasion what García and Ortiz (2013) call *blame[ing] the victim*. Able descriptions of A during intake set a disturbing narrative for BAWG. A is described as, “aloof,” “uncooperative,” “irritable, or “difficult,” and her autism was considered an illness (Reinblatt et al., 2006, p. 640). When describing the available interventions for A, nonpharmacologic interventions were dismissed as a potential treatment due to “extremely limited cognitive and verbal skills and comprehension difficulties” (Reinblatt et al., 2006, p. 642). Language use is critical when describing Black girls, especially when referencing behavior. In *Girlhood Interrupted*, Epstein et al. (2017) caution that adults use “stereotypical images of Black females...to interpret Black girls’ behaviors and respond more harshly to Black girls who display behaviors that do not align with traditional standards...” (p. 5). This bias can enter into

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clinical judgment, diagnosis, assessment, and hypothesis setting and confirmation (Garb, 1997; Neighbors et al., 2003), and for Black girls, leads to adultification (Epstein et al., 2017). For Black girls with multiple marginalized identities, like A, Nandi, and Teresa, this bias creates perceptions of threat, non-compliance, and harm (Annamma et al., 2019), and set the stage for the tropes of disability and race to converge and crystalize as the predominant narrative of their experience.

Research reflexivity encourages autism-focused researchers to consider the implications of how we design, implement, and describe our research. Using axiology, ontology, and epistemology as a foundation, reflexivity encourages an examination of the repertoires and ideologies that create the normative frames that guide ARR (García & Ortiz, 2013). Defined as positionality, this allows for the interrogation of power in relationship to our social identities and those of BAWG and how the proposed research furthers or prohibits future marginalization (Milner, 2007). A lack of research reflexivity can induce controlling images, which are “designed to make racism [and] sexism...appear to be natural, normal, and inevitable parts of everyday life” (Collins, 2000, p. 69). A’s behavioral descriptions could serve as controlling images for Black Autistic girls and become a natural, normal, and inevitable depiction.

Moving Forward to Advance Knowledge About Black Autistic Women and Girls

Our 77-year scope shows that there is still more work to do; thus, we recommend several broad research, practice, and policy priorities to push BAWG inclusion forward. Undergirding these priorities is a full framework for intersectional autism-related research and practice. Building upon García and Ortiz ’(2013) recommendations, ARR must: (1) use a critically-based theoretical framework; (2) use identity-first, comprehensive participant descriptions and intervention

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goals; (3) include research(er) reflexivity; (4) foreground the sociocultural identities of participants; (5) contain an intersectional analysis of research findings; and (6) contextualize research impact in the broader dynamic system that surrounds Autistic individuals.

Research Priorities

Future autism-focused research (AFR) must prioritize BAWG. To accomplish this, an accurate identification of Black Autistic girls, an accurate understanding of their core ASD characteristics, and a commitment to identity affirming evidence-based interventions are required. Autism-focused researchers must generate these culturally relevant interventions through mixed methods research to better capture the lived experiences of BAWG. Understanding the impact of race on diagnostic criteria, intervention compatibility, and the larger structural inequities for Black Autistic girls and women is critical to providing comprehensive support across their lifespan.

Practice Priorities

The most salient practice priority for BAWG is the removal of practices that have been deemed harmful by Autistic individuals (Lewis, 2020). This includes those that have been identified in behavior analysis. In addition, more relevant ASD diagnostic criteria and procedures are needed. This will arm behavior analysts with the tools they need for culturally relevant practice and caregivers with tools they need to support their children. Additionally, practitioners must interrogate if their practices support BAWG, by including parents as experts in treatment design and utilizing practices that center their cultural beliefs (Čolić et al., 2021; Mandell & Novak, 2005). Deficit models envelop how we approach autism intervention (Dinishak, 2016) for BAWG and we must shift to expand our understanding of their experiences, especially if they

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have co-occurring diagnoses. Through this we can dismantle the norms and structures that oppress BAWG and restrict culturally relevant practice.

Policy Priorities

The structural changes needed to support BAWG must also address policy. The CDC noting disparities (Christensen et al., 2016) and the UN (United Nations, n.d.) naming intersectionality as critical to practice start this discussion. We suggest, as policy priorities for BAWG, that the federal government name intersectionality as a needed component for all federally funded ARR. In addition, federally authorized research funding to address the needs of Black Autistic women and girls is crucial. The significance of these priorities will allow for the public shaping of autism research and practice for BAWG and will reprioritize them as vanguards of a new intersectional movement for Autistic individuals who currently sit at the unique, mutually established spaces of pride, identity, and liberation.

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Figure 1*Adapted Causal Loop Diagram for BAWG Theoretical Model*

Figure 2*PRISMA Flow Chart*