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An Exploration of Strategies in Social Interaction Intervention for Children with Autism under the Concept of Inclusive Education

Lifan Xue [1,*]

[1] Institute of Problem Solving, HengXing University, QingDao, ShanDong

[*] Correspondence: Lifan Xue, Institute of Problem Solving, HengXing University, QingDao, ShanDong

Abstract: The concept of inclusive education promotes the integration of all children, including those with special needs, into mainstream educational settings, ensuring they have access to equal learning opportunities. Among these children, those with autism face significant challenges in social interaction, which can impede their learning, daily life, and psychological development. This paper explores various inclusive education intervention strategies designed to enhance peer group interactions and support the unique needs of children with autism, aligning with the broader goals of special education. Key strategies include fostering peer support systems, implementing individualized interventions tailored to each child, modifying the learning environment to be more accommodating, and encouraging collaboration between home and school. These interventions not only address social deficits but also foster a more inclusive learning environment. The findings demonstrate that these strategies are effective in improving the social interaction skills and overall development of children with autism, contributing to their long-term success.

Keywords: inclusive education; children with autism; social interaction; intervention strategies

1. Introduction

The rising ideas of inclusive education is an urgent reminder of the immense change in a system regulated by uniformity with use of equity in mainstream education based on diversity, inclusion, and acceptance of all children. The focus of this definition is not limited to the ordinary children, rather it is meant to include children with special needs. Reasonable accommodations have been laid, failing which the admitted disabled students have to endure disadvantages, thus making it difficult for them to comply with both learning and life processes. Thus, essentially in general, this paper deals with the discussion about social interaction intervention problems as faced in inclusive settings. Please note that the portrayals are linked specifically to children with autism, and they have profound implications for the construction of a more inclusive and supportive setting so that children with autism are also well provided support and helps considering their special education environment. These insights underscore the necessity of tailoring interventions to address the unique challenges faced by children with autism in diverse educational contexts. [1]

2. Overview of Inclusive Education Philosophy

Inclusive education is a philosophy that recognizes and respects the uniqueness of each child, regardless of their abilities, backgrounds, or needs. It advocates for the integration of all children, including those with autism, into the mainstream educational environment, allowing them to learn and grow together in a diverse and supportive setting. This approach goes beyond merely providing physical access to classrooms for children with special needs; it also emphasizes the importance of psychological and emotional support, as well as a deep understanding of their individual challenges.

This educational model demands a high degree of flexibility and professionalism from teachers, who must design and implement individualized teaching plans tailored to each child's characteristics and needs. At the same time, inclusive education underscores the critical role of collaboration among families, schools, and communities to create a nurturing and inclusive learning environment for children with autism. Practical cases of inclusive education have demonstrated that in such environments, children with autism not only integrate more effectively into the classroom but also make remarkable progress in social interaction and emotional expression.

Moreover, this approach enhances children's learning outcomes while helping them build self-confidence and a sense of belonging. By fostering inclusivity, the model also benefits neurotypical children, as it teaches empathy, acceptance, and an appreciation for diversity. Inclusive education is more than an educational model; it is a manifestation of societal values that uphold the principles of equality and opportunity. It aims to provide quality education for the full development of each child's potential.

The promotion and implementation of inclusive education hold far-reaching significance, not only in shaping the futures of children with special needs but also in building a more harmonious, equitable, and synergistic society. Its success requires concerted efforts from all stakeholders to ensure that every child, irrespective of their differences, has the opportunity to thrive and contribute meaningfully to the community.

3. Manifestations of Social Interaction Deficits in Children with Autism

Children with autism face difficulties in social interaction characterized as developmental impairments that cause their learning processes to be so adversely affected that their emotional and social adaptation becomes profoundly challenged. The major social barriers include a lack of eye contact, namely being uncomfortable and giving intimidating types of attention during speech, which impede the process of establishing an effective communication platform. Other notable areas of restriction include verbal communication; many children find not just making wishes nor understanding their peers' desires difficult, and this creates a sort of very resisting emotion that in social settings makes them feel frustrated and lonely. Problems with expressing emotion are further used to handicap their understanding and proper display of emotional responses, taking a toll on their existence with other people as well as on their inner emotional life and self-awareness. In socio-institutional dynamics, these-difficulties are exhibited every day among peers forming friendships; as well as escape from building normal relationships within their families. To sum it all, some autistic children exhibit strong aversion to group settings, instead having much better success in private tutoring sessions. This gives rise to many factors and indications of multi-dimensional social interaction challenges confronted by these children. This implies that widespread parental and educational awareness must be developed in order to understand this complexity and diversity of social interaction challenges among autism children, to begin with targeted interventions that will help them get over these difficulties and allow their gradual integration into society [2].

4. Problems with Social Interaction Interventions for Children with Autism in Inclusive Education Settings

4.1. Difficulty in Implementing Interventions

A myriad of implementation challenges is faced by social interaction interventions for children with autism within inclusive settings. The individualized needs of the intervention and the available resources conflict with each other and pose one of the major challenges. Although individual children with autism are very heterogeneous, a highly individualized program of support is needed for each child. Nevertheless, the restricted scope of educational resources compels practitioners to compromise on such highly individualistic needs. Subsequently, for interventions to be successful, there has to be long-term and sustained development while the educational system in general has little flexibility and continuity to ensure the stability and continuity of interventions [3]. There is no need for hiding the fact that it is a great challenge for educators to implement these interventions. Most teachers, though having many years of experience, are not as good at applying specialized knowledge and skills related to special educational needs, especially autism. Not only does it reduce the scientific effectiveness and rationale of the interventions, but it also overwhelms a teacher in practice. Parents too have an equally important role to play in their children's social interaction interventions; however, many parents do not have the required support and guidance to effectively carry on the school's interventions in the home environment, which results in inconsistencies in their children's performance across different settings. On the other hand, social interaction interventions require collaboration among care teams that include psychologists, special education teachers, general education teachers, parents, and community workers. However, communication and coordination among team members usually are poor, and different professional interests or perceptions sometimes may lead to disputes and slow implementation of interventions. Difficulties in multi-party collaboration produce paralyzed intervention, a heavier burden on the educators and parents, and heightened psychological and emotional stress on their part.

4.2. Inadequate Environmental Support

The failure to provide adequate environment-related support is among the challenges faced by social interaction interventions for children with autism within inclusive settings. While this is in itself a serious enough problem, it is further aggravated by the lack of emotional and psychological support. Many schools, though they publicly endorse inclusive education, are least ready for that as they lack specialized training and proper resources to structure a classroom environment that suits the very needs of children with autism. For instance, noise and disfigured visual stimuli, along with an unsteady daily routine, would lead to an increase in anxiety and discomfort levels of autistic children, thus impeding their learning and social skills [4]. Moreover, lack of such an effective support system within the broader social environment is evident. Unequal distribution of community resources, absence of parental support groups, and limited public understanding of autism combine to inhibit autistic children from receiving that much-needed help in daily life. The burden of having to deal with the special needs of their children leaves the parents of autistic children often feeling very much isolated and without proper support systems, advice, and tools. This not only puts a greater burden on the parents but also undermines intervention sustainability. Environmental support within schools also needs considerable improvements. Regular teachers and peers are unable to provide suitable emotional and social support for autistic children due to a lack of such knowledge and skills. This doesn't just hinder the social integration of the autistic child but equally suffocates the ability of the typical students to understand and appreciate diversity.

4.3. Professional Competence of Teachers and Parents

Another serious problem causing the social interaction intervention of children on the autism spectrum is the lack of professional competence on the part of the needs of teachers and parents. Apart from the caveats, although teachers have accumulated experience in daily teaching, a number of general education teachers are not trained or educated sufficiently to work with the target group of students with autism. The extenuating circumstances have made it difficult for teachers to grasp the definition of individual capacities of a child in need while designing and implementing interventions, impacting their effectiveness. Teachers could therefore be unable to tackle behavioral issues arising in autistic children at the right time, even when they are in social interactions; hence, this puts disruptions on the smooth classroom activities of other children to result in confused and discouraged children with autism. Likewise, the parents take up an indispensable role in everyday life for their children, but the sad truth is that many parents have little or no insight regarding the impairment in their children with autism when it comes to social interaction and other means of coping. The anxiety and confusion about the family not only affect the peacefulness of family interrelationships but also impede technical help for the children during family time. Likewise, poor communication between teachers and parents is a common problem; given the individual foci they adopt for the child and different intervention methods, paired with the inability to find effective collaborative mechanisms, this can give rise to the failure of uniform and continuous intervention over environments.

4.4. Support of Resources and Policies

A tremendous part of the social interactive interventions for autistic children within accommodated learning environments is attributed to the acute lack of resources and policy support. In the practical sense, numerous learning institutions are still grappling with shortages in the supply of resources, although much concern has risen in the community towards the autistic child in recent times. Limited monetary assistance may impede equipping specialized equipment, facilities and professional teachers at least in a decent sense. Safe, organized and supportive environments need to be provided for children with autism, but the resource inadequacies in many respects render these needs unfulfilled, which counters intervention effectiveness and impacts children's development. Even among the policies that do exist, most is not directed explicitly toward this group. Most districts have no firm and systematic policies aimed at protecting the rights of children with autism within an inclusive educational environment. The slow implementation combined with lack of policy in most cases results in a situation in which the school has little or no guidance or assistance in formulating and implementing intervention programs. Even the teachers and parents flounder in a confused and helpless situation while looking for assistance. Some areas do not provide special funding and grants out of the belief that they negatively affect liberalization, forcing parents to bear the treatment and educational expenses in large measure. Further, there exist challenges posed by the uneven distribution of resources and policies. In so far as more financial support and more specialized institutions are available in the big cities and developed areas, the less provided for one is in performing those roles in terms of resourcing will lose out on possibilities in lesser-resourced and rural areas, exposing otherwise the children with autism in various regions to huge disparities in receiving the benefit of social interaction interventions. The accompanying inequalities thus generated make educational inequity more acute and defeat effective implementations of inclusion.

5. Social Interaction Intervention Strategies under the Concept of Inclusive Education

5.1. Individualized Intervention Strategies

As per the specific context of inclusive education, formulation of individualized intervention strategies connected to social interaction is the hub of social interaction interventions for children with autism. When individualistic intervention strategies are applied, special education teachers need to develop very high levels of professionalism and be able to draw up efficient educational plans in accordance with the special needs and differences existing among each autistic child. For instance, when dealing with children who have poor social interaction skills, teachers can, through role-playing, teach and train children to learn appropriate social skills. They could do this by recreating various scenarios in daily life, like shopping or going to school. During this time, teachers need to observe how the child responds and adjust the simulated settings in terms of difficulty and complexity so that the child can gradually build up his or her confidence and work on improving his social skills through gradual challenges. For children with autism who have particular interests, teachers can use these interests in the activities of daily teaching and social interaction so these can work as a linkage to promote the child's social interactions. For instance, if a child has a considerable interest in jigsaw puzzles, the teacher may organize group activities in which other children can also participate in jigsaw puzzles, thereby promoting the child's skills in working with a group and emotional communication through shared goals and activities. The other imperative part to consider is how to boost the effectiveness of the desired behaviors. This is based on positive reinforcement, where any moment the child performs a good or proper action or shows any positive age-appropriate behavior, that is, when any progress is glimpsed in him/her while practicing social interactions, the teacher should immediately give encouragement and rewards to increase the future possibility of repeating such good behavior [5].

5.2. Peer Support Strategies

In establishing good peer relationships, children with autism can receive emotional support and—through practical interactions—learn and enhance their social skills. It is thus incumbent on the institutions to put into place several measures to ensure interaction and support between autistic children and the ordinary child. Such activities could include regular team-building exercises and cooperative projects for the purposes of enhancing understanding and friendship between the children with autism and the ordinary children during the course of the project. This can be done using the likes of group discussions, role-playing, teamwork games, and the like; all in the interest of developing social skills and a spirit of cooperation in the children. Teachers, in organizing these activities, will need to be concerned with making sure that the children with autism do not feel alienated from the rest of the class [6]. To complement this, schools can include some "buddy program" plans to help autistic children feel comfortable in social outings by providing them with one or more buddies, who should be ordinary children who are trustworthy and patient. They act as real-time help, and their patient presence will foster in ordinary children empathy and compassion toward children with autism. This close friendship helps social integration for the child with autism, resulting in greater empathy and inclusiveness from ordinary children. To promote efficacy in the results of the peer support plan implemented, the teachers can conduct regular training courses for ordinary classmates, helping them learn the fundamental characteristics and certain interaction skills around autism. Training might include how to yield effective support in times of difficulty, plus various means of interaction with peers with autism. In essence, they will be riding high and confidently interfacing and establishing an amiable classroom environment with their disabled counterparts [7].

5.3. Environmental Adjustment Strategies

Among other things, strategies of environmental adaptation are important within inclusive education to manage social interaction intervention for children with autism. Optimizing the environment of the classroom and places for social interaction can help reduce anxiety and behavioral problems in children with autism and thus better support their integration into the group. Schools can take many measures to create a safe, comfortable, and supportive environment for children with autism. In order to better support children with autism in an inclusive education setting, the physical environment of the classroom also needs optimization to be child-centered. The Future Children's Growth Center, based on Qingdao Hengxing Institute of Technology, uses cold white light in the classroom environment setting, with a color temperature of about 6000K. This kind of light can improve efficiency and enhance concentration, which shows the classroom lighting can be dimmed for sensitized children to calm them and help them concentrate. As for seating arrangements, a set place should be assigned to children with autism, which would, in turn, help them observe the teacher but would also be quite private for them if they needed not to talk much due to question trainers of teachers. This would meet the unique demands of children with autism and encourage their normal interactions with classmates, creating a good social environment. Depending on the activity areas, the school can also set aside special "quiet corners," with a variety of comforting artifacts and stress-reducing instruments that include soft cushions, earplugs, sensory toys, ect. These 'corners' are resting spots for children as much as they are spaces where emotions can be managed and support can be given, providing children with a place of sanctuary when one is necessary. Regular observations and modalities can be planned with the involvement of children and parents of autism in regard to the school environment. Their suggestions may help improve school facilities to meet better the needs of children with autism.   For example, increasing the number of shading facilities in outdoor activity areas and providing more natural light and greenery can effectively enhance the sense of wellbeing and participation of autistic children. Through training, ordinary children will be more confident in getting along with autistic children and establish a more harmonious classroom atmosphere. Teachers can design some interactive classroom activities, such as the "Best Classroom Decoration Competition", to allow students to share the work and work together to create a warm and friendly learning atmosphere, which not only enhances the sense of participation of autistic children, but also cultivates the empathy and cooperative spirit of other students.

5.4. Family-School Collaboration Strategies

Close co-operation between families and schools is an important guarantee for the social interaction intervention for autistic children under the concept of inclusive education. Joint efforts of both parties will ensure that children with autism continue to receive uninterrupted and consistent support and make progress in all aspects. In particular, schools may facilitate regular parent-teacher conferences focused on detailed discussion of the school performance of and current intervention for children with autism and collaborative planning for intervention updates. Through these meetings, teachers can offer both information and the emotional support parents need in order to feel they and their children are respected and valued. Schools could also offer help and training to parents, helping them to further understand the characteristics of autism and their child's particular needs and strategies in regards to intervention, which may include behavioral management techniques, emotional support techniques, social skills training methods, etc. Equipped with the proper educational tools and techniques, these trainings will undeniably broaden the horizon for parents untrained in autism spectrum disorders, invoking a sense of safety. Furthermore, a school liaison would be appointed to help facilitate communication between schools and the families or caregivers of autistic children. Namely, they would ideally serve as a solid link in communication with the cooperation of the

parties while offering encouragement and solutions to-day squabbles that one parent might face by calling whenever a difficulty pops up. Regular home visits and telephone communication will help lessen parental fears about school pressures and allow parents to feel understood and supported by the school. Parents will also have an opportunity to participate in activities facilitated by the school, such as family fun day and parent-child reading, providing an opportunity for parents to interact with their children. These activities not only augment emotional bonds within families, but also create an environment for social experiences for children with autism. In essence, cooperation between families and the schools should build on mutual trust and benefit. Teachers can incorporate various interactive classroom activities, one of which is the "Best Classroom Decoration Contest", where students share responsibilities in creating a warm and friendly learning environment; this can, in turn, help involve children with autism and develop the spirit of empathy and teamwork among others [8].Thus, collectively, schools and families can take real measures to raise awareness and instill a sense of awareness in their fragile experiences of social integration development for children with autism.

6. Conclusion

Inclusive education reshapes the perspectives and practices of managing social interactions for children with autism. Within this framework, research-based insights and case studies highlight various strategies, including independent interventions, support-based interventions, environmental modifications, and family-school collaboration. These approaches are instrumental in improving the social interaction abilities of autistic children while establishing benchmarks for creating a more inclusive and supportive educational environment.

Moreover, interdisciplinary studies should delve deeper into the long-term impact of these interventions. Longitudinal follow-ups and cross-cultural data collection during extended intervention programs can provide invaluable guidance for refining inclusive education practices, ensuring better services for a broader range of children with special needs.

Inclusive education is not merely a revolution in educational philosophy; it represents a significant societal progression toward fostering a fair, dignified, and supportive environment for all children. By embracing diversity and promoting equity, it paves the way for a future where every child, regardless of their abilities, has the opportunity to thrive and contribute meaningfully to the community.

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