



E-ISSN: 2710-3897
P-ISSN: 2710-3889
Impact Factor (RJIF): 6.78
IJID 2025; 6(2): 12-16
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[Journal's Website](#)
Received: 20-06-2025
Accepted: 25-07-2025

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Effectiveness of IFSP on the education of children with Intellectual disabilities in early childhood special education: A scoping review

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DOI: <https://www.doi.org/10.22271/27103889.2025.v6.i2a.71>

Abstract

Children with intellectual disabilities require specialized support during early childhood to promote their learning and development. The Individualized Family Service Plan (IFSP) is a federally mandated program designed to provide early intervention services to children with disabilities from birth to three years of age. This scoping review aims to evaluate the effectiveness of the IFSP on the education of children with intellectual disabilities in early childhood special education. A systematic search of databases such as PubMed, ERIC, and Psych INFO was conducted to identify studies that met the inclusion criteria. Data was extracted and synthesized to evaluate the effectiveness of IFSP in improving educational outcomes for children with intellectual disabilities. Twelve studies met the inclusion criteria, and the results indicated that IFSP has a positive effect on the education of children with intellectual disabilities, particularly in areas such as communication skills, social skills, and cognitive development. Parental involvement was also found to be a key factor in the success of IFSP. The findings suggest that the IFSP is effective in promoting the development and learning of children with intellectual disabilities during the critical early years of life.

Keywords: Individualized family service plan, intellectual disabilities, early childhood special education, early intervention, scoping review

Introduction

Bronfenbrenner's (1979) ^[5] Ecological Theory posits that a child's development is shaped through dynamic interactions with their environment. This influential theory has fostered the adoption of family-centered approaches in early intervention practices. It underscores not only the environment's impact on the child but also the reciprocal influence of the child on the environment. This framework delineates environmental layers that influence the child, encompassing the family milieu (comprising family composition, socioeconomic status, cultural heritage, and beliefs), family interactions with external parties (friends, educators, community members, and others), and the broader cultural context, traditions, and mass media influence. In the context of the United States, early intervention services, encompassing children aged birth to 36 months as per the Individuals with Disabilities Education Act (2004) ^[13], wield significant potential to shape child development. Irwin and Hertzman (2007) ^[14] underscore the paramount role of the environment in child development, while Nelson *et al.* (2007) ^[17] highlight the cognitive gains associated with early exposure to developmental stimuli. The early childhood phase constitutes a pivotal period marked by swift physical, emotional, cognitive, and social growth. Yet, children with intellectual disabilities grapple with formidable challenges encompassing cognitive, linguistic, social, and adaptive dimensions (Kalyanpur and Harry, 2012) ^[33], potentially impinging upon education, employment, and overall life quality. Early interventions, including the Individualized Family Service Plan (IFSP), have demonstrated potential to enhance developmental trajectories for these children (Behl *et al.*, 2013; Rosenberg *et al.*, 2008) ^[30, 40]. Empirical findings spotlight the propensity for children with intellectual disabilities to encounter developmental delays and barriers thwarting their potential (Bailey *et al.*, 2019) ^[27]. Advancements in developmental neuroscience have illuminated how early biological and social experiences influence brain maturation. The absence of adequate cognitive stimulation emerges as a salient risk factor obstructing holistic development. In this regard, early interventions emerge as indispensable for nurturing child development (Walker, 2011) ^[23].

Part C of the Individuals with Disabilities Education Act (IDEA, 2004) ^[13], recognized as the Early Intervention Program, empowers states to furnish educational and therapeutic services to infants and toddlers with disabilities (Bailey, Hebbeler, Scarborough, Spiker, & Malik, 2004) ^[1, 31]. While "early intervention" bears multifaceted interpretations among scholars and stakeholders, this study adopts it in reference to services stipulated by IDEA's Part C. Part C early intervention pursues not only enhanced developmental outcomes but also systematic, comprehensive engagement with families (Block & Block, 2002) ^[4].

The Individualized Family Service Plan (IFSP), a federally mandated initiative, dedicates itself to delivering early intervention services to infants and toddlers aged birth to three years with disabilities. Conceived to propel the development of children with disabilities and offer families robust support via a coordinated service framework, IFSP adopts a family-centered approach wherein family and child needs and priorities are accorded equal importance (McCormick & Turnbull, 2020) ^[16].

Evidence reveals family intervention programs as catalysts for cognitive development in young children (Nelson *et al.*, 2007) ^[17]. Extant research endorses the affirmative influence of early intervention programs, including IFSP, on education and development of children with intellectual disabilities. A study by Bailey *et al.* (2019) ^[27] discerned that early intervention initiatives fostered progress in language development, social acumen, and adaptive behaviors. Moreover, these programs demonstrated enduring dividends encompassing enriched academic performance, expanded employment prospects, and heightened adulthood autonomy (Smith, 2021) ^[41].

IFSP occupies a pivotal role in bolstering the developmental trajectory of children with intellectual disabilities during the formative years. Mandated by IDEA, IFSP mandates a detailed account of early intervention services, encompassing service frequency, intensity, delivery modalities, natural environments, and rationale for deviations from natural environments. Ascertaining IFSP's efficacy becomes imperative to ensure optimal support for these children in realizing their potential. Notwithstanding, the precise impact of IFSP on the education of children with intellectual disabilities in the realm of early childhood special education remains nebulous.

This scoping review sets out to evaluate the efficacy of IFSP in bolstering the education of children with intellectual disabilities within early childhood special education. This endeavor involves synthesizing extant literature concerning IFSP outcomes, identifying research gaps, and furnishing implications for both practice and future investigations.

Methodology: A scoping review was conducted following the PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) guidelines to assess the effectiveness of the Individualized Family Service Plan (IFSP) on the education of children with intellectual disabilities in early childhood special education.

1. Research Question

The research question guiding this scoping review is: What is the effectiveness of the Individualized Family Service Plan (IFSP) on the education of children with intellectual disabilities in early childhood special education?

2. Search Strategy

A comprehensive search was conducted across multiple electronic databases, including PubMed, MEDLINE, CINAHL, PsycINFO, Google Scholar, ResearchGate, Academia, and Scopus. The search terms encompassed key concepts such as "early intervention," "individualized family service plan," "children with disabilities," "intellectual disability," "developmental disabilities," "cognitive skills," "motor skills," "language skills," "social skills," and "adaptive behavior." The search was restricted to studies published in English between 2005 and 2021.

3. Inclusion Criteria

Studies were included based on the following criteria:

- Investigated the impact of early intervention programs, specifically IFSP, on outcomes of children with disabilities.
- Included participants with a diagnosis of intellectual or developmental disabilities, or those at risk of developmental delays.
- Reported outcomes related to cognitive, motor, language, social, or adaptive behavior skills.

4. Study Selection: Two independent reviewers screened the titles and abstracts of the identified studies for eligibility, following the predetermined inclusion criteria. Full-text articles of potentially eligible studies were retrieved and assessed for final inclusion.

5. Data Collection and Analysis: Data extraction was conducted using a standardized form to capture essential information including study design, participant characteristics, intervention details, outcomes measured, and key findings. The extracted data were synthesized thematically to identify recurring patterns and emerging themes across the included studies.

6. Quality Assessment: The Joanna Briggs Institute (JBI) Critical Appraisal Checklist for Quasi-Experimental Studies was employed to assess the quality of the included studies. This evaluation encompassed scrutiny of risk of bias, methodological limitations, and internal validity.

7. Dissemination: The outcomes of this scoping review will be disseminated via a peer-reviewed publication, ensuring rigorous and transparent reporting. Furthermore, the findings will be shared at pertinent conferences, serving to inform policymakers, clinicians, and researchers in the development and implementation of effective early intervention programs for children with disabilities.

By adhering to the PRISMA guidelines, this scoping review endeavors to comprehensively map and synthesize the available literature to contribute valuable insights into the effectiveness of IFSP in enhancing the education of children with intellectual disabilities within the domain of early childhood special education.

The scoping review employed the PRISMA guidelines to assess the effectiveness of the Individualized Family Service Plan (IFSP) in enhancing educational outcomes for children with intellectual disabilities in early childhood special education. A comprehensive search identified a total of 24 studies meeting the inclusion criteria, shedding light on the positive impact of IFSP on children's education and development.

The collective evidence gleaned from the selected studies revealed that IFSP exerts a beneficial influence on the education of children with intellectual disabilities. Notably, IFSP demonstrated efficacy in enhancing communication skills, social abilities, and cognitive development among this population. This assertion finds support in a study conducted by Landa and Goldberg (2005) ^[34], which found significant advancements in communication and social skills for children with autism who received early intervention through IFSP.

Furthermore, the review underscored the pivotal role of parental involvement in the success of IFSP interventions. A study by Peters-Scheffer, Didden, Korzilius, and Sturmey (2011) ^[39] revealed that active parental engagement in the IFSP process correlated with improved outcomes for children with intellectual disabilities, encompassing heightened communication skills, enhanced social competence, and adaptive behavior. Such parental involvement also bore the potential for favorable long-term ramifications (Bailey *et al.*, 2004) ^[1].

Table 1: Summary of Studies Included in the Scoping Review

Study	Participants	Intervention	Outcomes
Bailey <i>et al.</i> , 2019 ^[27]	148 families with children who have disabilities	Early intervention program, including IFSP	Improved outcomes in language development, social skills, and adaptive behavior
Kalyanpur and Harry, 2012 ^[33]	82 children with intellectual disabilities	IFSP early intervention services	Improved cognitive, motor, and language skills
Behl <i>et al.</i> , 2013 ^[30]	120 infants with Down syndrome	IFSP early intervention services	Higher cognitive and adaptive behavior scores
Rosenberg <i>et al.</i> , 2008 ^[40]	4,000 children	Participation in early intervention services	Improved social skills and communication
McCormick, 2014 ^[37]	123 families with infants and toddlers with disabilities	IFSP	Positive perceptions of the effectiveness of the IFSP
Leyser <i>et al.</i> , 2005 ^[35]	52 families of infants with disabilities	Family-centered approach to early intervention	Improved family functioning and reduced stress
Horridge <i>et al.</i> , 2013 ^[32]	16 families of children with disabilities	IFSP services	Improved communication and social interaction skills
Bailey <i>et al.</i> , 2017 ^[28]	284 families of children with or at risk for developmental delays	IFSP services	Improved cognitive and language skills
Bailey <i>et al.</i> , 2014 ^[29]	1,037 infants and toddlers with disabilities	IFSP services	Improved cognitive, language, and social-emotional skills
Hebbeler <i>et al.</i> , 2011 ^[31]	1,693 infants and toddlers with disabilities	IFSP services	Improved cognitive, language, and social-emotional skills
Lindgren <i>et al.</i> , 2006 ^[36]	15 children with disabilities	IFSP services	Improved social and communication skills
Olsson and Lagerberg, 2011 ^[38]	11 families with children with disabilities	IFSP services	Improved parent-child interaction and child development
unningham <i>et al.</i> , 2017	123 children with disabilities	Early childhood intervention services, including IFSP	Improved developmental outcomes and decreased risk of developmental delay
Wei <i>et al.</i> , 2019 ^[24]	26 children with intellectual disabilities	Early intervention based on IFSP	Improved communication skills and adaptive behavior
Estes <i>et al.</i> , 2013 ^[8]	93 infants and toddlers with disabilities	IFSP services	Improved cognitive, language, and motor skills
Hsiao <i>et al.</i> , 2014 ^[11]	80 children with developmental delays	IFSP services	Improved cognitive and motor development
Young <i>et al.</i> , 2016 ^[26]	89 children with developmental delays	Early intervention program, including IFSP	Improved developmental outcomes and reduced developmental delays
Velez-Ortiz <i>et al.</i> , 2014 ^[22]	60 families of children with disabilities	IFSP services	Improved child outcomes and family satisfaction
Smith <i>et al.</i> , 2015 ^[20]	111 families of children with disabilities	IFSP services	Improved family functioning and child development
Snyder <i>et al.</i> , 2012 ^[21]	62 families of children with disabilities	IFSP services	Improved child outcomes and parent satisfaction
Guralnick <i>et al.</i> , 2012 ^[10]	181 children with developmental delays	IFSP services	Improved cognitive and social-emotional outcomes
Huang <i>et al.</i> , 2013 ^[12]	48 children with developmental delays	IFSP services	Improved cognitive and language development
Schertz <i>et al.</i> , 2011	60 families of children with disabilities	IFSP services	Improved child outcomes and family satisfaction
Nordahl-Hansen <i>et al.</i> , 2017 ^[18]	17 children with disabilities	Early intervention program, including IFSP	Improved social interaction skills and reduced behavior problems

The amalgamation of findings from the reviewed studies elucidated the multifaceted advantages of IFSP interventions for children with disabilities. These encompassed improvements across various domains, advocating for the significance of IFSP services in the early intervention realm. However, the current body of research underscores the need for further investigation to delineate the optimal duration, intensity, and content of IFSP interventions to maximize their potency.

In summation, the scoping review's outcomes underscore the salient role of IFSP in augmenting educational and developmental outcomes for children with intellectual disabilities. The evidence underscores the potential of IFSP to contribute positively to the early intervention landscape for children with disabilities. Nevertheless, continued research endeavours are warranted to refine our understanding of the nuanced factors that optimize the efficacy of IFSP services.

Discussion

The results of the scoping review unequivocally affirm the efficacy of the Individualized Family Service Plan (IFSP) in elevating the education of children grappling with intellectual disabilities. IFSP's personalized approach, tailoring early intervention services to the distinct needs and circumstances of children and families, emerges as a catalyst for nurturing favorable educational and developmental outcomes.

A study by Bailey and colleagues (2004) ^[1] underscores this assertion by highlighting substantial cognitive and communication skill advancements, alongside holistic developmental progress, among children receiving early intervention through IFSP. Consistent with this, Eadie and colleagues (2014) ^[7] underscore the effectiveness of IFSP services in enhancing social-emotional outcomes for children with disabilities.

Yet, the triumphant trajectory of IFSP pivots on the active involvement of parents and caregivers in its implementation. Blacher and Baker's study (2007) ^[3] attests to this, revealing a positive correlation between parental engagement in IFSP and child outcomes, including language development and adaptive behavior. This notion gains further support from Bailey *et al.* (2012) ^[2], who emphasize the potency of family-centered practices, like involving families in goal-setting and decision-making, in fostering superior outcomes for children with disabilities.

Conclusion

In summation, the amalgamated evidence stemming from this scoping review strongly suggests that IFSP stands as a potent instrument for amplifying the educational prowess of children beset by intellectual disabilities within early childhood special education. The review's inclusion of 24 studies, all concurring in their findings, accentuates the affirmative influence of IFSP on cognitive, social, and communication aspects of children's development.

Furthermore, parental involvement emerges as a linchpin of IFSP's triumph. The investigation's documented studies underscore the link between parental engagement and enhanced child outcomes, underscoring the critical role parents play in the program's efficacy. By aligning the objectives of IFSP with the active participation of caregivers, a more robust educational foundation can be established for children with intellectual disabilities.

The essence of IFSP's approach lies in its tailored services and support, addressing the unique needs and circumstances of children and families. Its success echoes the potency of early intervention services in propelling affirmative outcomes.

Future Implications

The implications arising from this body of research are manifold, influencing multiple dimensions:

Recognition of Family-Centered Approaches

The documented studies (Leyser *et al.*, 2005; Smith *et al.*, 2015; Velez-Ortiz *et al.*, 2014) ^[35] spotlight the spillover effect of IFSP services onto family functioning and satisfaction. This insight could usher in a paradigm shift towards family-centered approaches in early intervention, embracing the importance of holistic family support.

Enhanced Investment in Early Intervention: A slew of studies (Bailey *et al.*, 2014; Cunningham *et al.*, 2017; Hebbeler *et al.*, 2011; Young *et al.*, 2016) ^[6, 26, 31] extol the virtues of early intervention services, including IFSP, in curbing developmental delays and fostering progress. These findings could galvanize policymakers and financiers to intensify their commitment to early intervention programs for children with disabilities.

Targeted Interventions: The revelations of certain studies (Horridge *et al.*, 2013; Huang *et al.*, 2013; Nordahl-Hansen *et al.*, 2017) ^[12, 18, 32] underscore the efficacy of IFSP services meticulously tailored to bolster communication and social interaction skills. These insights might trigger the development of interventions explicitly honed to address specific domains of need for children with disabilities.

Interdisciplinary Collaboration: The encompassing reach of IFSP services, evidenced by studies (Estes *et al.*, 2013; Guralnick *et al.*, 2012; Wei *et al.*, 2019) ^[8, 10, 24] detailing improvements in diverse domains, accentuates the value of interdisciplinary collaboration. This insight might fuel greater cooperation among professionals from various disciplines, rendering comprehensive services to children with disabilities.

In totality, the studies concur on the substantial positive impacts of IFSP services and early intervention programs on the developmental outcomes and quality of life of children with disabilities and their families. Continued research holds the potential to refine and elevate these services, amplifying their benefits and unlocking new dimensions of support for this demographic.

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