

Second Language Acquisition for Children with ADHD: Cognitive Processes and Educational Strategies

Thesis statement: This essay argues that effective Second Language Acquisition for children with predominantly inattentive, predominantly hyperactive-impulsive, and combined type ADHD hinges on directly addressing their core cognitive deficits. Specifically, interventions should address sustained attention and processing speed impairments in the inattentive type, inhibitory control and motor restlessness in the hyperactive-impulsive type, and the intersecting executive function challenges in the combined type. These strategies should be implemented through a suite of differentiated educational strategies, including structured routines and visual timelines, chunked and multisensory instruction, strategic movement breaks and kinesthetic activities, and consistent positive reinforcement. By mapping each set of strategies to the unique attentional and self-regulation profiles of the three ADHD presentations, educators can foster deeper engagement, memory retention, and communicative competence in L2 learners with ADHD.

Draft Outline:

1. Introduction

1.1. Background:

- 1.1.1. Present global ADHD prevalence and its neurodevelopmental impact, noting ADHD affects 5.3–7.2 percent of children and often co-occurs with language disorders.

- 1.1.2. Emphasize SLA's role in cognitive and academic development and the lack of subtype-specific instructional guidance in current practice.
 - 1.2. Need for the study: Present the limited number of studies in this area (tell the specific studies and describe their methods and findings)
 - 1.3. Summary of the study
 - 1.3.1. Literature Review: Definition of key terms, analysis of core cognitive processes, summary of relevant cognitive theories, and empirical findings regarding key teaching frameworks
 - 1.3.2. Case Studies: Presentation of evidence-based educational strategies for each ADHD type: inattentive, hyperactive-impulsive, and combined-type ADHD.
 - 1.3.3. Methodologies: As this is an exploratory study, no data will be collected. However, this study presents a set of methodologies which can be used to effectively study this problem in the future.
 - 1.3.4. Conclusion:
2. Literature Review
 - 2.1. Definition of Key Terms
 - 2.1.1. ADHD subtypes (as per DSM-5): According to the DSM-5 framework, Attention-Deficit/Hyperactivity Disorder (ADHD) is categorized into three distinct presentations: predominantly inattentive (ADHD-I), predominantly hyperactive-impulsive (ADHD-HI), and combined (ADHD-C). Each subtype exhibits their unique behavioral and cognitive

profiles, which are fundamental to guide accurate diagnosis and effective therapeutic strategies.

- 2.1.1.1. Predominantly Inattentive (ADHD-I): ADHD-I is defined by symptoms like frequent distraction, forgetfulness, disorganization and difficulty completing tasks. Such children often struggle to maintain concentration on activities that require sustained attention and are susceptible to being diverted quickly by irrelevant stimuli (Solanto, 2000). This subtype is typically related to internalizing issues, such as anxiety, depression, academic struggles, introversion and social avoidance.

- 2.1.1.2. Predominantly hyperactive-impulsive (ADHD-HI):

- 2.1.1.3. Combined (ADHD-C):

2.2. Key SLA concepts

- 2.2.1. Input Hypothesis

- 2.2.2. Output Hypothesis

- 2.2.3. Cognitive Approach

2.3. Analysis of core cognitive processes for ADHD

- 2.3.1. Attention control

- 2.3.2. Working memory

- 2.3.3. Inhibitory control

2.4. Summary of relevant cognitive theories

- 2.4.1. Executive Function Model: inhibition, working memory, cognitive flexibility (Barkley, 2015).
- 2.4.2. Working Memory Framework: distinctions between visuospatial and verbal memory, with ADHD learners showing better recall for orally presented material than visuospatial inputs.
- 2.4.3. Attentional Networks: alerting, orienting, executive control and their roles in language processing.
- 2.5. Teaching frameworks for ADHD
 - 2.5.1. Associative and intuitive learning styles reported by adults with ADHD, facilitating vocabulary acquisition through semantic networks.
 - 2.5.2. Behavioral regulation strategies integrating verbal and nonverbal prompts to enhance engagement and social-emotional wellbeing in EFL classrooms.
 - 2.5.3. Multisensory instruction and oral-based grammar teaching as effective approaches for ADHD learners' literacy development.
 - 2.5.4. Discourse Analysis in inclusive ESL settings: games, activities, and self-instruction models promoting participation and language use in hyperkinetic children.
- 3. Case Studies
 - 3.1. Predominantly Inattentive Type
 - 3.1.1. Strategies:
 - 3.1.1.1. Chunk lexicon and grammar into short oral modules supported by visual timelines.

- 3.1.1.2. Self-instruction training using cue cards to scaffold task initiation and monitoring.
 - 3.1.2. Expected Outcome: Improved sustained attention and processing speed, leading to higher retention of L2 structures.
 - 3.2. Predominantly Hyperactive-Impulsive Type
 - 3.2.1. Strategies:
 - 3.2.1.1. Incorporate structured movement breaks tied to language drills (e.g., action verbs performed physically).
 - 3.2.1.2. Gamified, kinesthetic tasks (roleplays with props) to channel motor restlessness into interactive practice.
 - 3.2.2. Expected Outcome: Enhanced inhibitory control and on-task behavior, facilitating deeper engagement with input and output.
 - 3.3. Combined Type
 - 3.3.1. Strategies:
 - 3.3.1.1. Integrate visual aids, tactile manipulatives, and consistent positive reinforcement within a predictable routine.
 - 3.3.1.2. Multimodal stations rotating between oral drills, interactive games, and self-paced computer tasks.
 - 3.3.2. Expected Outcomes: Synergistic support for attention regulation, memory encoding, and behavioral self-control.
- 4. Potential methodologies:
 - 4.1. Quasi-Experimental Classroom Study: Compare multisensory vs. traditional instruction effectiveness across ADHD subtypes, measuring L2 proficiency gains.

- 4.2. Qualitative Interviews: Gather teacher and student narratives on strategy usability and perceived learning benefits in ADHD contexts.
 - 4.3. Design-Based Research (DBR): Iteratively develop, implement, and refine ADHD-tailored SLA instructional modules in inclusive primary classrooms.
 - 4.4. Discourse Analysis of Classroom Interaction: Examine realtime cognitive engagement and language output patterns among ADHD learners during varied instructional tasks.
5. Conclusions
 - 5.1. Summary of study: Recap how aligning specific cognitive deficits with targeted educational strategies can optimize SLA outcomes for each ADHD presentation.
 - 5.2. Acknowledge limitations: theoretical focus without primary data, potential variability across learner profiles.
 - 5.3. Recommendation for future research: longitudinal intervention studies, experimental validation of outlined strategies, and crosslinguistic generalization.
 - 5.4. Reiterate the importance of the study: Repeat the need for a differentiated, evidence-based SLA pedagogy to support the communicative competence and academic success of children with ADHD.

Sources

[1] [PDF] Teaching strategies for children with attention deficit hyperactivity ...

<https://resistances.religacion.com/index.php/about/article/download/143/242/458>

- [2] [PDF] Discourse Analysis and ADHD in the English as a Second ...
<https://gredos.usal.es/bitstream/handle/10366/145413/Moro%20Ramos,%20Sandra.pdf?sequence=1&isAllowed=y>
- [3] [PDF] Learning and using multiple languages University of East Anglia
<https://ueaeprints.uea.ac.uk/id/document/188869>
- [4] [PDF] The cognitive effects of ADHD on learning an additional language
<https://hrcak.srce.hr/file/313167>
- [5] Identifying Language Development in Children with ADHD
<https://pmc.ncbi.nlm.nih.gov/articles/PMC11276514/>
- [6] [PDF] Teaching English To Children With ADHD SIT Digital Collections
https://digitalcollections.sit.edu/cgi/viewcontent.cgi?article=1489&context=ipp_collection
- [7] Teaching English to Students with Attention Deficit Hyperactivity ...
<https://revistas.usal.es/tres/index.php/eks/article/download/31235/29751?inline=1>
- [8] A Systematic Review on Social Cognition in ADHD: The Role ... MDPI
<https://www.mdpi.com/20763425/14/11/1117>
- [9] [PDF] Language and pragmatic abilities in children with ADHD and/or ...
<https://www.divaportal.org/smash/get/diva2:1066335/FULLTEXT01.pdf>
- [10] Strategies for teaching English as a foreign language to a student ...
<https://www.tandfonline.com/doi/abs/10.1080/13632752.2024.2407527>
- [11] [PDF] Learning Strategies of a Student with ADHD in Oneto ... IS MUNI
https://is.muni.cz/th/fg1jv/Learning_strategies_bachelor_thesis_KS.pdf
- [12] Teaching strategies for children with attention deficit hyperactivity ...
<https://resistances.religacion.com/index.php/about/article/view/143>

- [13] Language abilities in children and adolescents with DLD and ADHD
<https://www.sciencedirect.com/science/article/pii/S0021992423000813>
- [14] ADHD Symptoms Predict Second Language Learning Performance ...
<https://www.propulsiontechjournal.com/index.php/journal/article/view/6598>
- [15] [PDF] Learning languages? Err... No, thank you! DIAL@UCLouvain
https://dial.uclouvain.be/downloader/downloader.php?pid=thesis%3A45019&datastream=PDF_01&cover=covermem
- [16] [PDF] Enhancing Second Language Acquisition for University Students ...
https://scholar.umw.edu/cgi/viewcontent.cgi?article=1641&context=student_research
- [17] Language Skills in Children with Attention Deficit Hyperactivity ...
<https://www.mdpi.com/22279067/11/1/14>
- [18] [PDF] Understanding and Supporting L2 Learners with ASD and ADHD
https://sojou.repo.nii.ac.jp/record/1613/files/08_sojoSILCkiyou_1_Plummer.pdf
- [19] [PDF] structural language abilities in children with attentiondeficit ...
https://opensiuc.lib.siu.edu/cgi/viewcontent.cgi?article=2437&context=gs_rp
- [20] [PDF] ADHD and Writing Learning Disabilities: Overlapping Disorders and ...
<https://files.eric.ed.gov/fulltext/EJ1088269.pdf>