

# Submit Leadership Project **PRODUCT** (Due 5/8/2024): Kalala Pines

Product:

**Informing the update to the 2020 Physical Therapy Management of Developmental Coordination Disorder Evidence Based Clinical Practice Guideline: a systematic review and meta-analysis**

Abstract

**Title:** Informing the update to the 2020 Physical Therapy Management of Developmental Coordination Disorder Evidence-Based Clinical Practice Guideline: a systematic review and meta-analysis

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**Purpose:** To systematically review recent evidence on physical therapy (PT) management of developmental coordination disorder (DCD) to inform the update to the 2025 DCD Clinical Practice Guideline.

*Methods: From 2019-2024, six databases were searched for studies that informed PT management of developmental coordination disorder. Studies were appraised for risk of bias and quality. Results: 49 studies were included. Twenty-three studies informed the psychometric properties of assessment tools commonly used in the PT management of DCD. Ten studies informed PT intervention, including the efficacy of video games, table tennis, trampoline training, physical education class, tai chi, taekwondo, and dual task interventions. Three studies informed the parent perspective and educators' experience regarding support, services, and resources towards children with DCD.*

**Conclusion: Revision of the guideline may be needed to reflect new evidence of psychometric properties of assessment tools, interventions, and prognosis of DCD.**

Plain Language Summary

Developmental Coordination Disorder (DCD) affects 4–9% of school-aged children, resulting in difficulties performing age appropriate motor skills. Physical therapists provide intervention for children with DCD based on a Clinical Practice Guideline (CPG) that was published in 2020. We are conducting a systematic review on physical therapy assessments and interventions for children with DCD to inform an update to this CPG in 2025.