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Wrist position sense acuity and its relation to motor dysfunction in children with developmental coordination disorder

Running title: Proprioception in Developmental Coordination Disorder

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HIGHLIGHTS

- DCD is associated with an underlying deficit in proprioceptive acuity.
- Children with DCD show an increased position sense bias (elevated thresholds) during passive joint displacement.
- Children with DCD show a decrease in proprioceptive precision (increased response variability) during active joint position matching movements.
- Elevated proprioceptive thresholds at the wrist are associated with decreased fine motor and balance function.

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