A Systematic Review of Sensory Processing in Developmental Coordination Disorder (DCD)

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1-Background
Altered microstructural pathways implicate both motor and sensory pathway differences in children with DCD as compared to typical (Zwicker 2012). Although Occupational Therapy was identified as an appropriate intervention, models of practice were at best described as moderately effective (Blank 2012) and no single approach to intervention has been fully substantiated (Zwicker 2012). Task specific interventions show emerging support. This approach may be less accessible to younger children or those with additional impairments such as language or communication or possible sensory processing difficulties. To explore the contribution of sensory processing in children with DCD a systematic review of the literature was undertaken.

2-Methdology
Inclusion criteria - developmental coordination Disorder and Sensory Integration or sensory processing or sensory. Published 2003-2013. Exclusion criteria - adults, non-english language, non-English databases - CINHAL, Medline, OTSeeker, OTDBASE. Appraisal Tools- OTCATS and McMasters Quantitive Review Form Articles - 307 abstracts were reviewed, 51 full papers read and 7 identified as meeting full inclusion/ exclusion criteria.

3-Papers reviewed

4-Movement is Complex

5-Summary of Results

10 - Recommendations:

a. Important to identify the incidence of sensory processing difficulties in children with DCD.

b. Therapists should understand the impact of co-morbid DCD and SPD on participation and occupation.

c. There is a need to compare intervention strategies.

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