

Relationship Between Visual-Motor Integration, Eye-Hand Coordination, and Quality of Handwriting

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If the influence of visual-motor integration (copying forms) on the quality of handwriting has been widely investigated, the influence of eye-hand coordination (tracing item) has been less well analyzed. The Concise Assessment Scale for Children's Handwriting (BHK), the Developmental Test of Visual Perception (DTVP-2), and the section "Manual Dexterity" of the Movement Assessment Battery for Children (M-ABC) were administered to a group of second grade children (N = 75; 8.1-year-olds). The association of visual-motor integration and eye-hand coordination are predictive of the quality of handwriting ($p < .001$). These two skills should be taken into consideration when children are referred to occupational therapy for difficulties in handwriting.

Keywords Visual motor coordination, motor skills, pediatrics, school

Children with non-proficient handwriting are often referred for occupational therapy (Cornhill & Case-Smith, 1996). Treatment varies according to the causes of non-proficient handwriting, which can result from inappropriate extrinsic factors such as bio-mechanical or environmental components (Rosenblum, Goldstand, & Parush, 2006) and/or from intrinsic factors such as poor performance in perceptual and motor skills (Feder & Majnemer, 2007). The relationship between perceptual-motor skills and handwriting has been investigated from two different but complementary theoretical frameworks: (1) the developmental perspective with regard to the question of readiness for handwriting (Beery, 1989) or to the identification of difficulties of handwriting and (2) the hierarchical model of motor control wherein visual and kinesthetic feedback information is required to perform handwriting (Maeland, 1992; Smits-Engelsman, Niemeijer, & Van Galen, 2001).

From these two theoretical frameworks, many studies have investigated the relationship between the quality of handwriting and visual-motor integration although no consensus concerning the definition of visual-motor integration exists. Beery (2004) defined it as the coordination between visual perception and movement of fingers, which is measured by a

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