

# **Manual preference influences in line-bisection performance in 3-6 years old children**

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178 children (3,4 – 6,7 years old), who were classified as either right-handed, left-handed, or mixed-handed, performed line-bisection task twice – with the left and the right hand, respectively.

The results showed that at the group level, all three handedness groups demonstrated a leftward bias when bisecting with the left hand and a rightward bias when bisecting with the right hand to varying degrees, with the right-handed group exhibiting the biggest leftward error with the left hand and the smallest rightward error with the right hand.

In addition, although the highest percentage of children in all three handedness groups showed symmetrical neglect, the incidence of right pseudoneglect was significantly higher in the right-handed group and vice versa – the incidence of left neglect was higher in the two non-right-handed groups.

The pattern of results suggested less lateralized visual spatial attention in left-handed 3,4 – 6,7 years olds than in their right-handed peers.