

## Methods

Participants grasped the handle of an IMT2 two degree of freedom robot (InMotion Technologies Inc.) as they reached from a start position to a movement target, located 20 cm away. The robot applied a velocity-dependent force to the hand during movement, according to eq. 1.

$$F_x = k [v_y] \quad (1)$$

In eq. 1,  $x$  and  $y$  are lateral and sagittal directions,  $F_x$  is the applied robot force in the left-right direction,  $v_y$  is hand velocity in the forward-backward direction and  $k=14$  Ns/m.