Multi-Component Upper Extremity Intervention

Author, Year, Country, Design, PEDro score, Rating	Sample Size	Intervention	Outcomes and significance: (+) significant (-) not significant
Maitre et al., 2020 USA RCT 7/10 High quality	Age at enrollment: 6 to 24 months CP diagnosis: 100% CP Type: Unilateral or quadriplegic CP GMFCS (Gross Motor Function Classification System) Level: N/A	Multi-component upper extremity (UE) intervention (n=37) vs. Bimanual play (n=38) Intervention details: Multi-component UE intervention: • Bimanual play with suggested toys without the C-Mitt (20 min/day). • Soft-constraint harness (C-Mitt) worn 6 h/day total • Reaching with gradual motor difficulty introduced by decreasing size and depth (10-20 min/day). • Reaching with the more affected and nonconstrained hand in a mitten made "sticky" with Velcro 75% full-reach distance (shoulder level) on an adjustable tray and with objects (also with Velcro) of increasing weight and size challenge for sensory reinforcement (10-20 min/day). • Education of caregivers on principles of positive parenting psychology, "just-right challenge," positive reinforcement, transactional interactions and emotional availability. Waitlist group: • Infants in the waitlist group were provided only the first intervention component (i.e., bimanual play with suggested toys for 20 minutes/day).	Post intervention (4 weeks): Reach smoothness (+) Affected arm reach smoothness: kinematic measures of reach (+) Less affected arm reach smoothness: kinematic measures of reach Fine Motor (+) Unimanual fine motor capacity: Bayley measure Somatosensory processing (-) P200: measure of tactile perception at contralateral electrode cluster