

Author, Year, Country, Design, PEDro score, Rating	Sample Size	Intervention	Outcomes and significance: (+) significant (-) not significant
<p>Ferre et al., 2017</p> <p>USA</p> <p>RCT</p> <p>7/10</p> <p>High quality</p>	<p>N = 24 children with unilateral spastic CP</p> <p>Age at enrollment: 2 years 6 months - 12 years 6 months</p> <p>CP diagnosis: 100%</p> <p>CP Type: Unilateral</p> <p>GMFCS (Gross Motor Function Classification System): I-II (distribution N/A)</p> <p>MACS (Manual Ability Classification System): I-III (distribution N/A)</p>	<p>Home-based hand-arm bimanual intensive therapy (H-Habit) (n=12)</p> <p>vs.</p> <p>Lower-limb functional intensive training (LIFT-control) (n=12)</p> <p><u>Intervention details:</u></p> <ul style="list-style-type: none"> • 2 hours per day • 5x/week • 9 weeks <p><i>H-Habit:</i></p> <ul style="list-style-type: none"> • Tasks aimed to improve reaching, grasping, releasing, in-hand manipulation, and using the affected hand as an assisting hand. • Activities done in child-friendly games <p><i>LIFT-control:</i></p> <ul style="list-style-type: none"> • Functional lower limb tasks to improve balance, strength and coordination (emphasis on the involved leg) • Activities embedded in child-friendly play or functional tasks • Activities ex: ball kicking, jumping through squares (hop scotch), walking through obstacles courses <p><i>Both interventions:</i></p> <ul style="list-style-type: none"> • Caregivers were trained to administer assessments and home activities 	<p>Post-treatment (9 weeks):</p> <p><i>Dexterity:</i></p> <p>(+) Box and Blocks Test</p> <p><i>Bimanual performance:</i></p> <p>(-) Assisting Hand Assessment (AHA)</p> <p><i>Parent perception of functional goals (occupational performance):</i></p> <p>(+) Canadian Occupational Performance Measure (COPM) - Performance</p> <p><i>Parent satisfaction with functional goals (occupational performance):</i></p> <p>(-) COPM - Satisfaction</p> <p>*Note: Between-group differences at 6 months not reported</p>

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		<ul style="list-style-type: none"> Hourly supervision continued on a weekly basis (1hr/week for 9 weeks) Participants were monitored via webcam Supervisor monitored home training activities by checking logs submitted online <p>All participants continued to receive usual and customary care</p>	
<p>Gelkop et al., 2015</p> <p>Israel</p> <p>RCT</p> <p>7/10</p> <p>High quality</p>	<p>N = 12 children with congenital hemiplegic cerebral palsy</p> <p>Age at enrollment: 1.5 - 7 years</p> <p>CP diagnosis: 100%</p> <p>CP Type: Unilateral (hemiplegic) 100%</p> <p>GMFCS level: N/A</p> <p>MACS level: *Only available for children under 4 years old (n=9): Level I: 2/9 (22%) Level II: 4/9 (45%) Level III: 3/9 (33%)</p>	<p>Hand-Arm Bimanual Intensive Therapy (HABIT) (n=6)</p> <p>vs.</p> <p>Modified Constraint-Induced Movement Therapy (modified CIMT) (n=6)</p> <p><u>Intervention details:</u></p> <p><i>Baseline Period</i> (2 months prior to HABIT or CIMT intervention):</p> <ul style="list-style-type: none"> 2-3 sessions per week (40-60 min/session) of occupational therapy (OT) and physical therapy Focus of sessions was to improve strength, range of motion, and awareness of hand through guided movements (neurodevelopmental theory) Stretching included in sessions <p><i>Intervention Period (CIMT and HABIT)</i></p> <ul style="list-style-type: none"> CIMT or HABIT was provided for 2 hrs./day, 6 days/week for 8 weeks 	<p>At post-treatment (8 weeks): (Post Baseline Period to Immediate post-intervention)</p> <p><i>Bimanual performance:</i></p> <p>(-) AHA</p> <p><i>Upper extremity function:</i></p> <p>(+) Quality of Upper Extremity Skills Test (QUEST): Dissociated movement (-) QUEST: Grasp (-) QUEST: Protective extension (-) QUEST: Weight bearing</p>

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		<ul style="list-style-type: none"> • Intervention provided during the children's regular preschool or kindergarten hours • CIMT or HABIT sessions were divided into 1 hour individual sessions (1:1 with OT) and 1 hr. group session with 2-3 interventionalists (ratio of 1:2 or 1:1 interventionist to child ratio) • Interventionists included OTs and therapist assistants • Each child was given an individualized program according to their specific abilities • Both approaches involve intensive, progressive task practice based on motor learning approaches • Age specific encouragement provided to ensure activities were motivating • Activities included activities of daily living and a variety of child-friendly games which could be carried out indoors or outdoors <p><i>HABIT:</i></p> <ul style="list-style-type: none"> • Absence of restraint • Task practice using fine and gross motor movements was progressed bimanually • Activity selection was based on the ability of the child's paretic hand and focused on using the assisting hand for tasks requiring complex bimanual coordination • Children were encouraged to participate in identifying movements to complete an action (problem solving) 	

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		<p><i>CIMT:</i></p> <ul style="list-style-type: none"> • Restraint of the less-affected upper extremity with practice of unimanual tasks using affected upper-extremity • Custom made gloves on less-affected hand was worn in only the second hour of CIMT • Fine-motor and gross motor activities catered to the age of the child were performed to elicit movements of the more affected hand (unimanual activities) 	