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**題目 (Title):**

測量腦性麻痺孩童進階動作技能：挑戰模組的進一步發展  
(Measuring Advanced Motor Skills in Children With Cerebral Palsy: Further  
Development of the Challenge Module)

**翻譯者 (Translator):**

林珮如 (Pei-Ju Lin, PT, MS)  
臺北市立文山特殊教育學校 物理治療師 台北 台灣  
(Physical Therapist, Wenshan School of Special Education, Taipei, Taiwan)

**校閱者 (Reviewer):**

廖華芳 (Hua-Fang Liao)  
台灣大學醫學院 物理治療學系暨研究所 兼任副教授 台北 台灣  
(Adjunct Associate Professor, School of Physical Therapy, College of Medicine ,  
National Taiwan University, Taipei, Taiwan)

**目的 (Purpose):**

基於之前挑戰模組的研究顯示，反應性量表應該要同時評量動作執行速度和技能達成度之改變。因此，本研究試圖以實證為基礎，發展評估雙面向標準（達成度和時間）之反應性方案。

(Since previous testing of the Challenge Module revealed that response scales should assess performance speed as well as skill accomplishment, this study sought to develop empirically based dual-criterion (accomplishment and time) response options.)

**方法 (Methods):**

為取得適用於腦性麻痺兒童/青少年的動作執行時間切截點，由一般發展兒童方便取樣34名(4-10歲)，測試其「挑戰」項目。計算年幼組(小於7.5歲)以及年長組(大於7.5歲)兒童在挑戰項目所花費時間的中位數和第一四分位數，以做為反應性方案切截點訂定之指標。根據所得的時間切截點重新計算這些兒童之分數，以驗證年幼組和年長組兒童兩組間的能力(達成度)和時間之差異。

(Challenge items were tested with a convenience sample of 34 children who were

typically developing (4-10 years) to obtain time cut-points that could be applied to children/youth with cerebral palsy. Median/lower quartile item performance times were calculated within younger (<7.5 years) and older child (≥7.5 years) groups, and used as benchmarks for response option cut-points. Children's scores were recalculated using these cut-points to verify that differences in younger and older children's abilities and times were captured.)

**結果 (Results):**

年幼組和年長組兒童的平均分數分別為48.9%和87.2%，此反映了預期中的發展進程。進一步分數修訂，年長組兒童有顯示出動作控制提升。

(Mean scores were 48.9% and 87.2% for younger and older groups, reflecting expected developmental progression. Further response revision captured high-level movement control older children exhibited.)

**結論 (Conclusions):**

修訂後的「挑戰」可評估技能達成度、速度和品質。

(The revised Challenge measures skill accomplishment, speed, and quality.)

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