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**題目 (Title):**

腦性麻痺幼兒的姿勢控制之線性及非線性測量：簡報

Linear and Nonlinear Measures of Postural Control in a Toddler With Cerebral Palsy: Brief Report.

**摘要中文翻譯****目的：**

本研究目的為描述一位腦性麻痺幼童姿勢控制的線性及非線性測量與動作結果的變化

**重點摘要：**

在接受物理治療之前、中、後，進行坐與站姿的姿勢描記圖、粗動作功能評量表-66(Gross Motor Function Measure-66, GMFM-66)及早期臨床平衡評量(Early Clinical Assessment of Balance, ECAB)。該名兒童在整個研究過程中都表現出獨立坐姿，在研究過程中發展出獨立站姿，其GMFM-66及ECAB評估結果也都有改善。其站姿的線性及非線性測量平均值與坐姿相比較高，這可能顯示可預測的動作較少是由於站立的經驗較少。

**臨床實務建議：**

姿勢控制的變異性大及可預測性低可能反映在初期的技能學習。需要進行研究以了解動作變異性和可預測性的最佳程度。

## **Original Abstract**

### **PURPOSE:**

The purpose of this study was to describe changes in linear and nonlinear measures of postural control along with motor outcomes in a young child with cerebral palsy.

### **SUMMARY OF KEY POINTS:**

Posturography in sitting and standing, the Gross Motor Function Measure-66 (GMFM-66), and the Early Clinical Assessment of Balance (ECAB) were performed prior to, during, and after physical therapy. The child demonstrated independent sitting throughout the study and developed independent standing during the study. He made improvements in the GMFM-66 and ECAB throughout the study. Higher average values were found in all linear and nonlinear measures in standing when compared to sitting, which may indicate less predictable movement due to less experience with standing.

### **RECOMMENDATIONS FOR CLINICAL PRACTICE:**

Greater variability and lower predictability in postural control likely reflect early stages of skill acquisition. Research is needed to understand the optimal levels of movement variability and predictability.

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