



## Pilot Study: Norms for Visual Motor Integration Development in Egyptians Children through Cross-Sectional Study Design

Shimaa Mohamed Refaat\*, Faten Abdelazeim

Faculty of Physical Therapy, Cairo University, Egypt.

**Abstract :** Peabody developmental motor scale is considered one of the most commonly used tests to assess motor development in preschool children; the Peabody is regarded as providing useful and comprehensive information for early assessment. At the end of this study; the applied Peabody developmental motor scale-2<sup>nd</sup> edition can provide a general visual motor developmental framework for Egyptian children. **Objectives:** to establish norms for the Egyptian children in visual motor integration developmental skills through cross-sectional study design using PDMS-2 and comparing the results with the normative sample given in the PDMS-2 manual to find a method of evaluation that might be suitable for Egyptian children. **Methods:** Normal 110 children randomly collected to two groups in sequence according to age (group A (50 child): from 24 to 30 months and group B (60 child): from 30 to 36 months) after screening by Portage Scale through four nursery school in Giza area, Egypt and get at least 80% of scoring. Evaluation using PDMS-2 was applied once monthly to each group for successive six months in visual motor integration area of development in longitudinal pattern. **Results:** The present study revealed significant difference for almost measured subtest items of visual motor integration development for tested Egyptian children when comparing with the normative data using Z-scores. The significant differences were in favor of Egyptian children. **Conclusion:** the study reflects that Egyptians children are superior to normative sample of PDMS-2 in some visual motor integration areas of development. Detection of these differences between children from Egypt and children from other culture in visual motor integration development illustrates the importance to have norms for the other areas of motor development for the Egyptian children to be a national reference for all staff working in pediatric physical therapy. **Key Words:** Egyptian children; Visual Motor integration development; portage scale; Peabody Developmental motor scale.