

## Introduction

Growth and development are the normal biological phenomenon of all living beings. They begin at conception and end at maturity. They are unique characteristics of children and any obstacle in this process at any stage can possibly result in aberration of growth and development, so early diagnosis and management for any deviation from the normal development is important.

## Aim of the work

The aim of this study is to carry out translation, modification and adaptation of the developmental profile 3 and its application on children from birth through age 12 years and 11 months.

## Patients and Methods

This study was firstly applied on 10 subjects as a pilot study, then it was carried on 100 normal children that attending with their families in the Phoniatics Unit, in the outpatient clinic of Alexandria Main University hospital. After translation, modification and adaptation process, it was applied on the children and comparing it with gold standard tools used in this study (Denever II or Stanford binet and Vineland Social Maturity Scale).

## Results

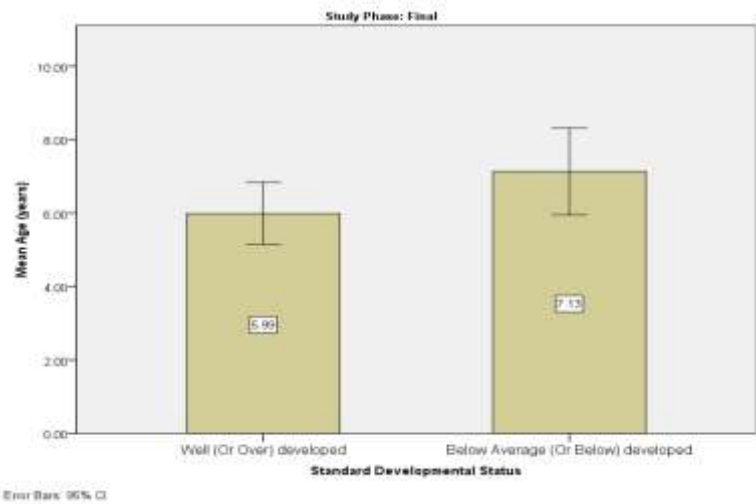
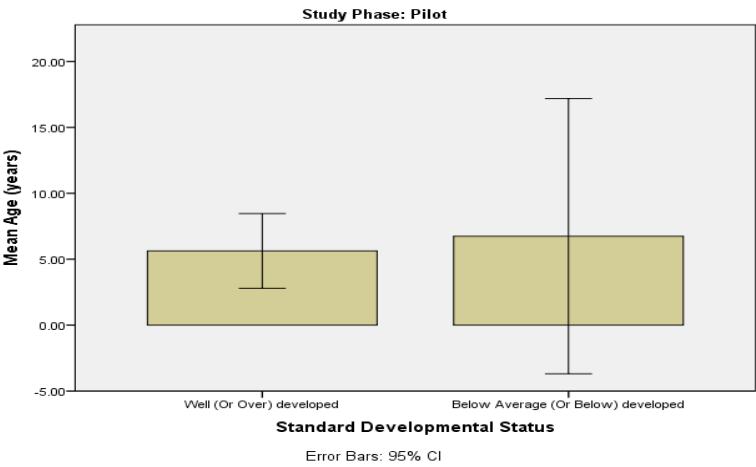
The result was no statistically significant difference in age and sex between both subgroups. And this study shows strong reliability and validity of Developmental Profile 3 that measuring children’s development in five essential functional areas.

Table 1: Age of the children in the pilot study phase (n=10)

Study Phase = Pilot	Standard Developmental Status		All Children
	Well (Or Over) developed	Below Average (Or Below) developed	
Age (years)			
- n	7	3	10
- Min-Max	0.66-10.58	1.91-9.50	0.66-10.58
- Mean ± Std. Deviation	5.63±3.06	6.75±4.20	5.96±3.23
- 95% CI for mean	2.79–8.45	-3.69–17.18	3.64 – 8.27
Test of significance p value	$t_{(df=8)} = 0.480$ $p = 0.644$ NS		

Table 2: Age of the children in the final study phase (n=100)

Study Phase = Final	Standard Developmental Status		All Children
	Well (Or Over) developed	Below Average (Or Below) developed	
Age (years)			
- n	78	22	100
- Min-Max	0.16-12.91	2.33-11.91	0.16-12.91
- Mean ± Std. Deviation	5.99±3.74	7.13±2.67	6.24±3.55
- 95% CI for mean	5.14–6.83	5.95–8.31	5.53 – 6.94
Test of significance p value	$t_{(W)}(df=46.880) = 1.610$ $p = 0.114$ NS		



## Conclusion

The Arabic version of the Developmental Profile 3 is an effective tool in the assessment of development of children from birth through age 12 years and 11 months.