

UNIVERSITI TEKNOLOGI MARA

**“OUTCOMES OF OT’S HIP ABDUCTION BRACE
ON CHILDREN WITH DEVELOPMENTAL
DYSPLASIA OF HIP (DDH)”**

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Thesis submitted in fulfilment of
the requirement for the degree of
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(Developmental Disability)**


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AUTHOR'S DECLARATION

I declare that the work in this thesis was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree qualification.

I hereby, acknowledge that have been supplied with the Academic Rules and Regulations for post Graduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

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ABSTRACT

Developmental Dysplasia of Hip (DDH) is a spectrum of anatomical abnormalities of the hip joint due to deviation in normal hip development during embryonic, fetal and infantile growth periods which can cause developmental disability such as abnormality of gait, shortening of leg and other complications. The study was conducted as a preliminary study to identify the effectiveness of custom made brace named OT's Hip Abduction Brace among DDH children being referred from North region hospitals. After 2 months of intervention, ultrasound and clinical examination found that there were reduction in α angle of hip joint and increase in β angle which shows hip stabilization using the OT's Hip Abduction Brace. Level of satisfaction was also found high among parents from the application of the brace to their DDH children. No complications were found from wearing the brace besides parents expressed satisfaction on the physical look, easiness of wearing the brace, good durability and they believed in the intervention by using the brace provided. Statistical analysis conducted also identify that they was significant association ($p=0.007$) between α and β angles of hips joint amongst children with the DDH after 2 months of OT's Hip Abduction Brace.

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