

health
technology
assessment



EXECUTIVE
SUMMARY

**PRE-FABRICATED
MYOFUNCTIONAL
APPLIANCE FOR
EARLY ORTHODONTIC
TREATMENT**

**HEALTH TECHNOLOGY ASSESSMENT UNIT
MEDICAL DEVELOPMENT DIVISION
MINISTRY OF HEALTH
MOH/PAK**

EXECUTIVE SUMMARY

Pre-fabricated myofunctional appliances for early orthodontic treatment have been developed specifically for treatment of children in the mixed dentition stage (6-11 years old). One such appliance that is available in the market and used mainly by general dental practitioners is the Trainer for Kids (T4K). It is made from polyurethane and is similar to other functional appliances. Additional features had been incorporated into the design to give orthopaedic effects of a functional appliance combined with a tooth guidance system and myofunctional training.

The objective of the assessment is to determine the safety, effectiveness, cost and legal implications of the appliance used in the orthodontic treatment of children. A comprehensive and systematic search of evidence was undertaken. However, there was insufficient evidence to draw any definitive conclusions about the safety, clinical effectiveness, cost-effectiveness of the appliance in early orthodontic treatment in children. It is recommended that research be undertaken locally to look into the efficacy and effectiveness of the prefabricated myofunctional appliance for early orthodontic treatment.

There is some evidence of benefits from local use of the technology but these are only case report.