

ABSTRACT

Pattern of Permanent Teeth Eruption in Children with Down Syndrome

Background: Chromosomal disorder that causes mental retardation mostly is Down syndrome. So called because Langdon Down in 1866 for the first time to write about this disorder, which looks like a baby who has the Mongols face like and show mental retardation. Physical growth velocity of children with Down syndrome is lower when compared to normal children. Common Clinical findings in the oral cavity in children with Down syndrome are microdontia, macroglossy, malocclusion, delayed eruption of deciduous and permanent teeth, and tooth eruption sequence abnormalities. Purpose: The aim of this study was to determine the pattern and timing of eruption of permanent teeth in Down syndrome children in Surabaya. Method: The research was conducted by direct observation and x-ray panoramic photo in 13 children with Down syndrome aged 6-18 years old at 3 special needs school in Surabaya. But not all children were doing photo panoramic x-ray because of psychological reasons. Results: From 13 samples of children with Down syndrome, Delayed eruption of permanent teeth was found in 7 children As for the pattern of permanent tooth eruption sequences are not too significantly different when compared to the pattern of the normal sequence. Conclusion: Delayed eruption of permanent teeth was found in children with Down syndrome. While the pattern of permanent teeth eruption sequence in children with Down syndrome are not too much different from the normal sequence pattern.

Keywords: Down syndrome, delayed teeth eruption, teeth eruption sequence