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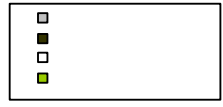
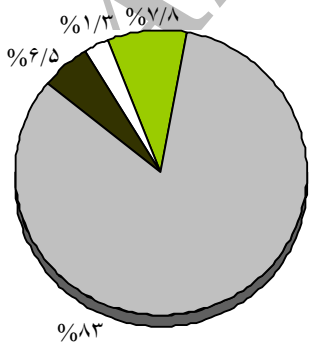
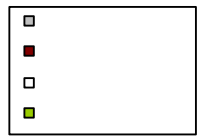
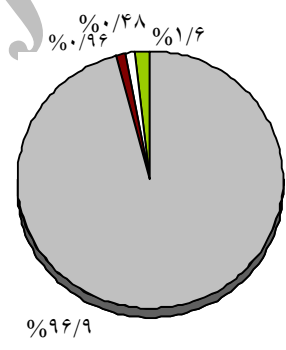
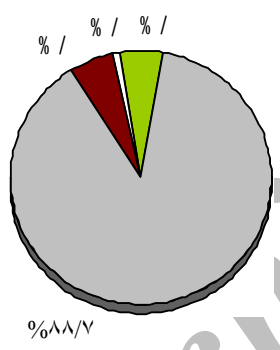
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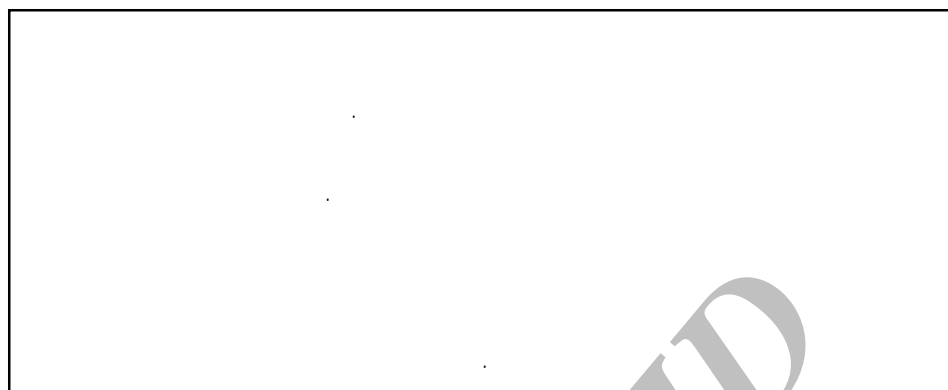
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1. Moyers RE. Hand book of orthodontis. 2nd Ed. Chicago: year Book Medical Publishers; 1966. P. 332.
2. Woodside DG. The present role of the general practitioner in orthodontics. Dent Clin North Am. 1968; 12: 483-508.
3. Krzypow AB, Lieberman MA, Modan M. Prevalence of malocclusion in young adults of various ethnic backgrounds in Israel. J Dent Res 1975; 54: 605-8.
4. Highly LB. Crossbite Mandibular malposition. J Dent Child 1986; 35: 221-23.
5. Kolokythas G, Ioannidou I, Kavadia S, et al. Epidemiologic study of dental and dentoloalveolar discrepancies in orthognathic children. Orthod Epitheorse. 1989; 1: 105-1.
6. Zhu JF, Crevoisier R, King DL, Henry R, Mills CM. Posterior crossbites in children. Compend Contin Educ Dent 1996; 17: 1051-58.
7. Carvalho JC, Vinker F, Declerck D. Department of conservative dentistry, pediatric dentistry and prevention. Int-J-Pediatr-Dent 1998; 8: 137-41.
8. Larsson F. Sucking, chewing and feeding habits and the development of crossbite. a longitudinal study of girls from birth to 3 years of age. Angle Orthod 2001; 71: 16-9.
9. Mills LF. Epidemiological studies of occlusion, the prevalence of Malocclusion in a population of 1455 school children. J Dent Res 1966; 45: 332-35.
10. Woon KC, Thong YL, Abdul Kadir R. Permanent dentition occlusion in Chinese, Indian and Malay group in Malaysia Aust Orthod J 1989; 11: 38-45.
11. Kutin G, Hawes R. Posterior crossbite in the deciduous and mixed dentition. Am J Orthod 1969; 56: 491-504.
12. Haynes S. The Prevalence of malocclusion in English children aged 11-12 years. Eur Orthod Soc 1970; 46: 89-98.

13. Day AJW, Foster TD. An investigation into the prevalence of molar cross bite and some associated aetiological conditions. *Dent Prac Rec* 1971; 21: 402-10.
14. Kelly JE. An assesment of the occlusion of the teeth of children. *Vital Health Stat data from the national survey. United states: Series* 1973; 11: 130-33.
15. Abu Alhaija ESJ, Qub Eimat NA. Occlusion and tooth arch dimensions in primary dentition of preschool Jordian children. *Int J Padiatr Dent* 2003; 13: 230-39.

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