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| **Name:** |
| Tina Copoulos |
| **Group:** |
| 3A-2 |
| **Pathology Question:** |
| What are the clinical signs and symptoms of bruxism and tooth attrition? |
| **Report:** |
| Attrition is the result of a loss of dental hard tissues from tooth to tooth contact; it is categorized as intrinsic mechanical wear (Lobbezoo & Wetselaar, 2016). Clinical signs of attrition include shiny facets, enamel and dentin wear at the same rate, matching tooth wear on occluding surfaces, cusp/restoration fractures, and/or impressions in the cheek, tongue, and lip (Lobbezoo & Wetselaar, 2016). Clinical symptoms of attrition include grinding teeth, mobile teeth, jaw pain and fatigue, sore teeth and gums, and/or headaches (Rees & Somi, 2018).  Bruxism is the presence of repetitive activity of jaw muscles, grinding or clenching of teeth, bracing or thrusting of the mandible, and/or grinding sounds heard by others (Carra et al., 2012). Bruxism can occur while one is asleep or awake, and bruxism can be diagnosed via electromyography of masticatory muscles (Carra et al., 2012). Clinical signs and symptoms include hypertrophy of the masseter and temporalis muscles, tenderness or pain of jaw muscles upon palpation, tongue indentation, tooth wear, and/or morning headaches (Lobbezoo et al., 2013). |
| **References:** |
| Carra, M. C., Huynh, N., & Lavigne, G. (2012). Sleep bruxism: a comprehensive overview for the dental clinician interested in sleep medicine. *Dental clinics of North America*, *56*(2), 387–413. https://0-doi-org.libus.csd.mu.edu/10.1016/j.cden.2012.01.003  Lobbezoo, F., Ahlberg, J., Glaros, A. G., Kato, T., Koyano, K., Lavigne, G. J., de Leeuw, R., Manfredini, D., Svensson, P., & Winocur, E. (2013). Bruxism defined and graded: an international consensus. *Journal of oral rehabilitation*, *40*(1), 2–4. https://0-doi-org.libus.csd.mu.edu/10.1111/joor.12011  Lobbezoo, F. & Wetselaar, P. (2016). The tooth wear evaluation system: a modular clinical guideline for the diagnosis and management planning of worn dentitions. *Journal of oral rehabilitation*, *43*(1), 69–80. https://0-doi-org.libus.csd.mu.edu/10.1111/joor.12340  Rees, J. S., & Somi, S. (2018). A guide to the clinical management of attrition. *British dental journal*, *224*(5), 319–323. https://0-doi-org.libus.csd.mu.edu/10.1038/sj.bdj.2018.169 |