Aim and purpose: To evaluate the effect of milk, liquid chocolate, and fresh fruit juice on surface marginal integrity of resin-modified glass ionomer cement.

Materials and Methods: The present study was carried out on 40 extracted sound, non-carious human molar teeth each divided into four groups. The teeth were restored with resin-modified glass ionomer cement (GC Fuji N-100) and light-cured composite (Kerr Supreme). The teeth were then exposed to 24-hour immersion in milk, liquid chocolate, fresh fruit juice, and water, respectively. The marginal integrity of the restorations was assessed using a semiquantitative scoring system.

Results: The marginal integrity of the restorations was significantly affected by the type of fluid. Milk and liquid chocolate were found to be the most detrimental fluids, followed by fresh fruit juice and water.

Conclusion: The use of milk and liquid chocolate is discouraged as they can compromise the marginal integrity of resin-modified glass ionomer cement restorations.

Summary and conclusions: The choice of fluid for post-treatment of resin-modified glass ionomer cement restorations should be carefully considered to ensure long-term success.

Theme 2: Dental Treatment & Restorative Dentistry - Materials

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Anxiety and depression are prevalent issues in today's society, affecting a significant portion of the population. Understanding the underlying causes and developing effective interventions is crucial in addressing these mental health concerns. This chapter aims to explore the etiological factors contributing to anxiety and depression, including biological, psychological, and environmental influences. By examining these factors, we can gain insights into preventive measures and therapeutic approaches to improve mental well-being.

Chapter Outline

1. Introduction to Anxiety and Depression
2. Biological Contributors
   - Genetic Factors
   - Hormonal Influences
   - Neurochemical Imbalances
3. Psychological Factors
   - Cognitive Appraisals
   - Emotional Regulation
   - Coping Strategies
4. Environmental Influences
   - Social Support
   - Life Events
   - Sociocultural Contexts
5. Prevention and Treatment Approaches
6. Case Study: A Multidisciplinary Approach to Anxiety and Depression
7. Future Directions and Research Needs
8. Conclusion

References

Keywords: Anxiety, Depression, Etiology, Genetics, Hormones, Neurotransmitters, Cognitive Behavioral Theory, Social Support, Life Events, Prevention, Therapy

This chapter provides a comprehensive overview of the complex factors that contribute to anxiety and depression, highlighting the interdisciplinary nature of mental health interventions. Through a detailed examination of biological, psychological, and environmental contributors, we strive to foster a more holistic understanding of these conditions, ultimately aiming to enhance therapeutic outcomes and promote mental health resilience.