

Oral mucositis is a painful and serious side effect of cancer treatment that can negatively affect both quality of life and treatment outcomes. Oral cooling with ice is currently used to prevent this condition, but the method can be uncomfortable and associated with certain risks. This thesis investigates a novel, temperature-controlled intraoral cooling device as an alternative to conventional ice cooling. The results show that the new method is at least as effective, and in some cases more effective, in preventing oral mucositis, while being better tolerated by patients. The studies also demonstrate that effective cooling is achieved rapidly and does not need to be extremely cold or prolonged. Finally, the thesis highlights the importance of improved diagnostics, education, and interprofessional collaboration for optimal management of oral mucositis.



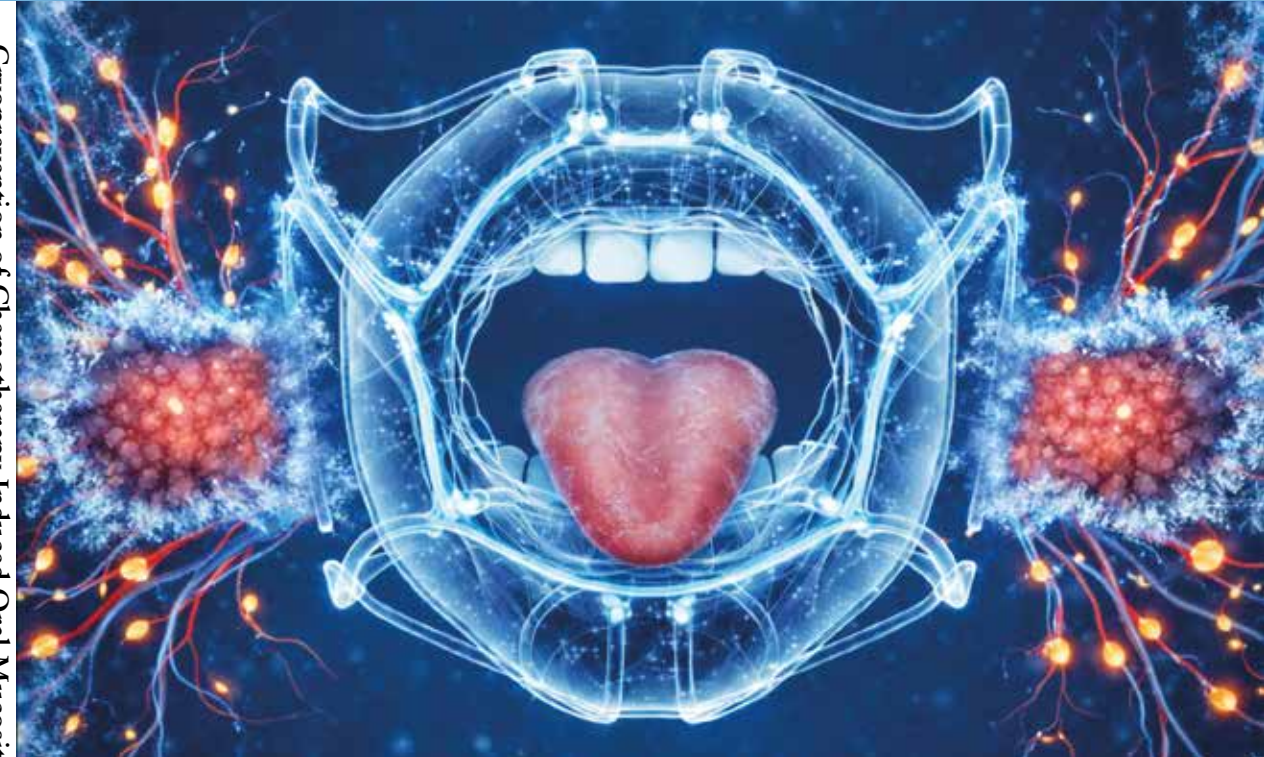
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