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Silicone stents are typically used in dacryocystorhinostomy (DCR) surgery and these can be categorized into monocalicular and bicanalicular stents

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Introduction: Silicone stents are typically used in dacryocystorhinostomy (DCR) surgery and these can be categorized into monocalicular and bicanalicular stents. This study aims to compare the clinical and patient reported outcomes for different stent types inserted during endoscopic DCR procedures.

Methods: Data were collected retrospectively from 2012 to 2023 for all patients that underwent endoscopic DCR performed collaboratively by ENT and ophthalmology at Royal Blackburn Hospital in the UK. Patient records were examined to evaluate various factors and the results were analysed to interpret the outcomes.

Results: A total of 60 patients were included in the study. Stents were used in 95% of cases. 92% reported a positive outcome, 89.5% had a patent nasolacrimal system at follow up and 97% of cases with silicone stents had a visible ostium. Minor postoperative complications occurred in 40% of total cases and 28.8% of cases with silicone tubes. When further broken down into tube type, success rates were 94% for monocalicular stents and 95.5% for bicanalicular stents however the difference was not statistically significant. In contrast, the complication rates were 22% for monocalicular stents and 63.6% for bicanalicular stents with this difference being statistically significant. Lester Jones tubes were used in 8 cases with 87.5% reporting a positive outcome despite a high rate of tube extrusion.

Conclusion: Both monocalicular and bicanalicular stents showed similar high success rates however monocalicular stents were better tolerated by patients and associated with fewer complications.

Biography

Louay Salfity from Manchester, UK. However, he has contributed to academic research, including work on Von Hippel-Lindau disease and central nervous system hemangioblastoma. He was listed as a co-author in a 2021 research paper published in the journal Genes, focusing on the investigation and management of these conditions

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