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The Effect of Radiofrequency ablation and Mitomycin C in the surgical management of Human tympanostomy, could it be the end of the Grommet era?

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Acute otitis media and otitis media with effusion are among the most commonly diagnosed medical problems in children .It has been found that 39% of infants experience an episode of acute otitis media by 6 months and 20% had more than one episode .Maintaining middle ear ventilation to reduce the severity and frequency of otitis media remains the focus of the surgical management of otitis media . The performed tympanostomy's were done with radiofrequency ablation with and without the use of mitomycin-C.The function of mitomycin-C is to prevent replication of fibroblasts and epithelial cells .It actively interrupts the DNA replication and inhibits new cell formation thus affecting the healing process. Hereby this study was made in a randomized controlled manner to determine the feasibility of radiofrequency with or without mitomycin -C application in delaying the closure time of human tympanostomy and to screen its efficacy in the management of recurrent otitis media and otitis media with effusion . The conclusion that was reached was when tympanostomy is done with the use of radiofrequency ablation with application of mitomycin-C it had shown a delayed closure time ,slower healing rate than the tympanostomy done with radiofrequency without mitomycin-C application. And as we continued to follow up with the patients , we had reached another amazing conclusion ,patients operated for tympanostomy with radiofrequency and mitomycin-C application had shown a better cure rate in recurrent otitis media (45% to 80%) , And otitis media with effusion (28% to 59%).

Biography

Shaimah najmussaquib graduated from the prestigious mahatma gandhi medical college and research center India , having a egyptian background she proceeded to work at sheikh zayed hospital Egypt for 6 months pro-bono. Presently working at Taiba hospital she looks forward to learning and progressing her knowledge in the feild of ENT.

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