Predictive Value of Lund-Mackay Radiological Scoring System in Extent of Sinus Surgery for Nasal Polyposis

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Abstract:

Objective: to evaluate the possibility of using the Lund- Mackay radiological scoring system as a predictor of the extent of sinus surgery for nasal Polyposis by assessing the correlation between findings detected by this system and the extent of the performed surgery. Patients and methods: 116 patients, (222 nasal sides) were operated upon in this study. Preoperative CT scans were done within 48 hours prior to surgery, and interpreted by Lund- Mackay CT scoring system. Surgical procedures were done, and surgery score of the modified Lund-Mackay system was then applied and the relation between the two previous scores was evaluated after surgery. Results: Uncinectomy was done in 219 nasal sides. Middle meatballs antrostomy was done in 206 sides. Middle turbinate resection was done in 179 sides. Out of 214 sides for which anterior ethmoidectomy was done, 1 showed no sinus opacification in CT. While out of 8 sides for which anterior ethmoidectomy was not done, 1 showed partial opacification in CT. Posterior ethmoidectomy was done in 196 sides, 3 of them showed no sinus opacification in CT while 3 out of 26 sides for which posterior ethmoidectomy was not done showed complete sinus opacification in CT. On the other hand, 5 of 138 sides for which sphenoidotomy was done showed no sinus opacification in CT. Out of 100 sides for which frontal sinusotomy was done, 7 showed no opacification in CT. A strong correlation was found between the surgical and the radiological score (r = 0.8, p

Keywords:

Lund-Mackay radiological scoring, surgery for nasal polyposis.

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