

* * *

// :
// :



% /

()

% /

/ /

/

:

()

Politzer

() (%)

(hypersecretory)

()

() (%)

()

()

()

%

Morpeth.

:
() +) cortisporin
% (+ B
. ()

Salam

/

%

Scott . ()

. ()

Zipfel . ()

()

Nawasreh . () (p= /)

(p = /)

. ()

Kumar . ()

Younis . ()

Baker . ()

Ramadan Balkany ()

()

. ()

.()

SPSS. 13

p< /

χ

:

()

% /

% /

() /

(% /)

% ()

()

(% /)

Archive of SID

(Fisher exact test, p=0.121)

()

()

.()

Gourin Scott

.()

.()

.()

/

Gourin Balkany

FDA

.()

Hester

.()

.()

()

()

()

(%)

(%)

Ramadan,

Welling Scott, Younis

Gates Giebink

1. Harvey Coats. Post tympanostomy Tube Otorrhea in Children: a Clinical Overview. *Ear, Nose & Throat Journal* 2002; 81(8 Suppl 1): 3-5.
2. Debruyne F, Jorissen M, Poelmans J. Otorrhea During Transtympanal Ventilation. *Am J Otol* 1988; 9: 316-317.
3. Barfoed C, Rosborg J. Secretory Otitis Media. Long-term Observations after Treatment with Grommets. *Arch Otolaryngol Head Neck Surg* 1980; 106: 553-556.
4. Klingensmith MR, Strauss M, Conner GH. A Comparison of Retention and Complication Rates of Large-Bore (Paparella II) and Small-Bore Middle Ear Ventilating Tubes. *Otolaryngol Head Neck Surg* 1985; 93: 322-330.
5. Garcia P, Gates GA, Schechtman KB. Does Topical Antibiotic Prophylaxis Reduce Post-Tympanostomy Tube Otorrhea? A Meta-Analysis. *Ann Otol Rhinol Laryngol* 1994; 103: 54-58.
6. Gross RD, Burgess LP, Holtel MR, Hall DS, Ramsey M, Tsai PD, et al. Saline Irrigation in the Prevention of Otorrhea after Tympanostomy Tube Placement. *Laryngoscope* 2000; 110(2): 246.
7. Inglis AF, Gates GA. Acute Otitis Media and Otitis Media with Effusion. In: Cummings CW, Flint PW, Harker LE, Haughey BH, Richardson MA, et al, (editors). *Cummings Otolaryngology Head & Neck Surgery*. 4th ed. Philadelphia: Elsevier Mosby; 2005: 4439- 4468.
8. Rosenfeld RM, Ilssacson GC. Tympanostomy Tube Care and Consequences. In: Rosenfeld RM, Bluestone CD. *Evidence-Based Otitis Media*. Washington; BcDecker, 1998: 319-320.
9. Scott BA, Strunk CL Jr. Post Tympanostomy Otorrhea: a Randomized Clinical Trial of Topical Prophylaxis. *Otolaryngol Head Neck Surg* 1992; 106(1): 34 – 41.
11. Morpeth JF, Bent JP, Watson T. A Comparison of Cortisporin and Ciprofloxacin Otic Drops as Prophylactic Against Post Tympanostomy Otorrhea. *Int J Pediatr Otorhinolaryngol* 2001; 61(2): 99 – 104.
12. Salam MA, Cable HR. The Use of Antibiotic/Steroid Ear Drops to Reduce Postoperative Otorrhea and Blockage of Ventilation Tube: A Prospective Study. *J Laryngol Otol* 1993; 107(3): 188 – 189.
13. Zipfel TE, Wood WE, Street DF, et al. The Effect of Topical Ciprofloxacin on Postoperative Otorrhea after Tympanostomy Tube Insertion. *Am J Otol* 1999; 20(4): 416 – 420.
14. Nawasreh C, Al- Wedyan IA. Prophylactic Ciprofloxacin Drops after Tympanostomy Tube Insertion. *Saudi Med J* 2004; 25(1): 38-40.
15. Kumar VV, Gaughan J, Isaacson G, Szeremeta W. Oxymetazoline is Equivalent to Ciprofloxacin in Preventing Postoperative Otorrhea or Tympanostomy Tube Obstruction. *Laryngoscope* 2005; 115: 363- 365.
16. Younis RT, Lazar RH, Long TE. Ventilation Tubes and Prophylactic Antibiotic Ear Drops. *Otolaryngol Head Neck Surg* 1992; 106(2): 193 – 195.
17. Barker RS, Chole RA. A Randomized Clinical Trial of Topical Gentamicin after Tympanostomy Tube Placement. *Arch Otolaryngol Head Neck Surg* 1988; 114: 755-757.
18. Balkany TJ, Barkin RM, Suzuki BH, Waston WJ. A Prospective study of Infection Following Tympanostomy and Tube Insertion. *Am J Otol* 1983; 4: 288-291.
19. Ramadan HH, Tarazi R, Zaytoun GM. Use of Prophylactic Otic Drops after Tympanostomy Tube Insertion. *Arch Otolaryngol Head Neck Surg* 1991; 117: 537.
20. Meyerhoff WL, Morizono T, Wright CG, et al. Tympanostomy Tubes with Otic Drugs. *Laryngoscope* 1983; 93: 1022-1027.
21. Dohar JE, Garner ET, Nielsen RW, Biel MA, Seidlin M. Topical Ofloxacin Treatment of Otorrhea in Children with Tympanostomy Tubes. *Arch Otolaryngol Head Neck Surg* 1999; 125: 537-554.
22. Hester TO, Jones RO, Archer SM, Haydon RC. Prophylactic Antibiotic Drops after Tympanostomy Tube Placement. *Arch Otolaryngol Head Neck Surg* 1995; 121(4): 445-448.
23. Giebink GS, Daly K, Buran DJ, Satz M, Ayre T. Predictors for Postoperative Otorrhea Following Tympanostomy Tube Insertion. *Arch Otolaryngol Head Neck Surg* 1992; 118: 491-494.
24. Gates GA, Avery C, Prihoda TJ, Holt GR. Posttympanostomy Otorrhea. *Laryngoscope* 1986; 96: 630-634.
25. Gourin CG, Hubbel RN. Otorrhea after Insertion of Silver Oxide-Impregnated Silastic Tympanostomy Tubes. *Arch Otolaryngol Head Neck Surg* 1999; 125: 446-450.

Effect of the Topical Cyprofloxacin in Prevention of Early Post Tympanostomy Otorrhea in Serous Otitis Media

Jalali M.M.(M.D.)Koosha A. (M.D.)

Abstract

Introduction: Myringotomy and Grommet insertion is one of the most common operations that occurred in the Otorhinolaryngology. The most frequent complication after this operation is Otorrhea. Several treatments are suggested for prevention of early Otorrhea. One of them is the topical antibiotic therapy.

Objective: To determine the effect of topical antibiotic therapy in prevention of early otorrhea.

Materials and Methods: This non controlled clinical trial study was done on 98 cases of Refractory Serous Otitis Media (196 ears) that were candidated of Myringotomy and Ventilation tube insertion. We used 3 drops of topical Cyprofloxacin in right ear and considered left ear as control. All patients were examined for Otorrhea two weeks after surgery.

Results: Total Otorrhea rate was 2.04%. This rate was 0 and 4.08 percent in right and left (control) ears, respectively. This difference was not statistically significant.

Conclusion: Although use of topical antibiotic therapy effect on decreasing of early Otorrhea after Grommet insertion. This difference is not statistically significant.

Key words: Ciprofloxacin/ Otitis Media, Serous/ Otitis Media with Effusion/ Ventilation