



U.S. Department of Health and Human Services
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Translational Sciences
Office of Biostatistics

S T A T I S T I C A L R E V I E W A N D E V A L U A T I O N
A D D E N D U M
C L I N I C A L S T U D I E S

NDA #: 207986
Drug Name: OTO-201 (6% ciprofloxacin otic suspension)
Indication(s): Intra-operative treatment of middle ear effusion in pediatric subjects requiring tympanostomy tube placement
Applicant: Otonomy, Inc.
Submission Date(s): February 25, 2015
Review Priority: Standard
PDUFA Date: December 25, 2015
Biometrics Division: Division of Biometrics IV
Statistical Reviewer: Mushfiquir Rashid, Ph.D.
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Medical Division: Division of Anti-infective Products
Clinical Team: Mark Needles, M.D. and Thomas Smith, M.D.
Project Manager: Jane Dean
Keywords: Sham-controlled, Confidence Interval, Cochran-Mantel-Haenszel test, Sensitivity Analyses

Addendum to the Statistical review:

In this submission, the applicant was seeking approval to market OTIPRIO (OTO-201), a 6% Ciprofloxacin otic suspension (OTO-201) for the treatment of middle ear effusion (MEE) in pediatric patients (aged 6 months to 17 years) with otitis media who are undergoing tympanostomy tube (TT) placement. The statistical review was posted in DARRTS on November 20, 2015. There were typos in row 5 Table 9 of the review. The corrected (with highlighted row 5) Table 9 is provided below:

Table 9: Components of Study Treatment Failure by Study, Treatment Group and Time point (Full Analysis Set)

	Study 201-201302		Study 201-201303	
	OTO-201 6 mg N = 179	Sham N = 87	OTO-201 6 mg N = 178	Sham N = 88
Cumulative proportion of Study Treatment Failures due to:				
Otorrhea-only				
Through Day 4	8 (4.5%)	7 (8.0%)	6 (3.4%)	17 (19.3%)
Through Day 8	11 (6.1%)	8 (9.2%)	9 (5.1%)	21 (23.9%)
Through Day 15	13 (7.3%)	10 (11.5%)	12 (6.7%)	24 (27.3%)
Through Day 29	15 (8.4%)	12 (13.8%)	22 (12.4%)	29 (33.0%)
Otic Antibiotics-only				
Through Day 4	2 (1.1%)	12 (13.8%)	1 (0.6%)	5 (5.7%)
Through Day 8	4 (2.2%)	15 (17.2%)	4 (2.2%)	5 (5.7%)
Through Day 15	10 (5.6%)	15 (17.2%)	9 (5.1%)	7 (8.0%)
Through Day 29	15 (8.4%)	17 (19.5%)	12 (6.7%)	9 (10.2%)
Systemic Antibiotics-only				
Through Day 4	1 (0.6%)	0	0	1 (1.1%)
Through Day 8	2 (1.1%)	1 (1.1%)	3 (1.7%)	3 (3.4%)
Through Day 15	3 (1.7%)	4 (4.6%)	6 (3.4%)	3 (3.4%)
Through Day 29	6 (3.4%)	6 (6.9%)	9 (5.1%)	6 (6.8%)
Lost-to-follow-up-only				
Through Day 4	1 (0.6%)	0	1 (0.6%)	0
Through Day 8	1 (0.6%)	0	1 (0.6%)	0
Through Day 15	1 (0.6%)	0	1 (0.6%)	0
Through Day 29	1 (0.6%)	0	1 (0.6%)	0
Missed Visits-only				
Through Day 4	4 (2.2%)	2 (2.3%)	1 (0.6%)	2 (2.3%)
Through Day 8	9 (5.0%)	7 (8.0%)	8 (4.5%)	3 (3.4%)
Through Day 15	17 (9.5%)	10 (11.5%)	10 (5.6%)	6 (6.8%)
Through Day 29	21 (11.7%)	13 (14.9%)	14 (7.9%)	7 (8.0%)

Source: Table 11-6, Clinical Study reports

Note: A patient was defined as a study treatment failure from the earliest time point of the 5 events as described in the statistical analysis plan and was considered a study treatment failure for the remainder of the study.

Note: A patient receiving otic antibiotic drops or systemic antibiotics on the same day as confirmation of otorrhea by the blinded assessor was considered a study treatment failure due to otorrhea if they had not yet been identified as a study treatment failure.

Note: After a patient is identified a study treatment failure due to one of the treatment failure components, subsequent events during the study from other treatment failure components are not included in this table

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/s/

MUSHFIQUR M RASHID
11/25/2015

KAREN M HIGGINS
11/30/2015
I concur.