Novus Investor Presentation

NASDAQ: NVUS



Forward-Looking Statements

This presentation contains forward-looking statements that involves substantial risks and uncertainties. Any statements about the company's future expectations, plans and prospects, including statements about its strategy, future operations, development of its product candidates, and other statements containing the words "believes," "anticipates," "plans," "expects," "estimates," "intends," "predicts," "projects," "targets," "could," "may," and similar expressions, constitute forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, although not all forward-looking statements include such identifying words. Forward-looking statements include, but are not limited to statements regarding: expectations regarding the timing for the commencement and completion of product development or clinical trials; the rate and degree of market acceptance and clinical utility of the company's products; the company's position and strategy; the company's ability to identify additional products or product candidates with significant commercial potential; the company's estimates regarding expenses, future revenue, capital requirements and needs for additional financing; developments relating to the company's competitors and industry; and the impact of government laws and regulations.

Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including: the ability to develop commercially viable product formulations; the sufficiency of the company's cash resources; the ability to obtain necessary regulatory and ethics approvals to commence additional clinical trials; whether data from early clinical trials will be indicative of the data that will be obtained from future clinical trials; whether the results of clinical trials will warrant submission for regulatory approval of any investigational product; whether any such submission will receive approval from the United States Food and Drug Administration or equivalent foreign regulatory agencies and, if we are able to obtain such approval for an investigational product, whether it will be successfully distributed and marketed. These risks and uncertainties, as well as other risks and uncertainties that could cause the company's actual results to differ significantly from the forward-looking statements contained herein, are discussed in our quarterly report on Form 10-Q for the quarter ended September 30, 2018, as well as other filings with the SEC which can be found at www.sec.gov. Any forward-looking statements contained in this presentation speak only as of the date hereof and not of any future date, and the company expressly disclaims any intent to update any forward-looking statements, whether as a result of new information, future events or otherwise.



Corporate Profile



Two platform technologies

Clinical-stage specialty pharmaceutical company with foam (OP01xx) and surfactant (OP02xx) technologies



Large market opportunity

Global incidence of 700+ million otitis media cases annually, affecting both children and adults



First-in-class treatment

OP0201 is a novel, surfactant-based drug-device product being developed for otitis media



Experienced management team

Track record of successfully developing products and creating value (Allergan, Avanir, Intermune, Questcor)



Unmet clinical need

No approved drug products for treatment of otitis media or prevention of recurrent/chronic otitis media



Multiple clinical milestones

Four OP0201 clinical trials in calendar 2019, including three phase 1 studies and one phase 2a study

Otitis Media



Overview of Otitis Media

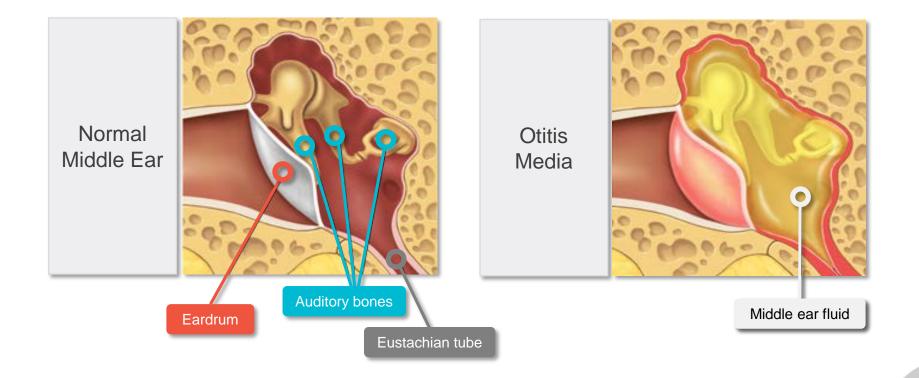
Otitis media (OM) is an umbrella term that encompasses a spectrum of inflammatory diseases of the middle ear

- Acute otitis media or "AOM" is middle ear inflammation and effusion with signs and symptoms of infection (bulging eardrum, pain, etc.)
 - Recurrent AOM or "RAOM" is defined as 3 or more AOM episodes in 6-months or 4 or more episodes in 12-months
- Otitis media with effusion or "OME" is middle ear inflammation and effusion without signs and symptoms of infection
 - Chronic OME or "COME" is defined as 3 or more months of OME

Global incidence of 700+ million cases of OM annually¹

- More than 15 million physician office visits annually in the U.S.²
- 40% of children will have 6 or more episodes by age 7

Pathophysiology of Otitis Media



\$5+ Billion

Spent annually on management in the U.S. alone¹

Current Management of Otitis Media

Antibiotics are frequently prescribed (over-prescribed)

Antibiotics do not treat OME or prevent recurrent episodes of AOM (RAOM)

AAO-HNS, AAP, and AAFP guidelines recommend against antibiotics in OME²

Surgery to insert ventilation tubes into the eardrum has become the standard of care

1 million surgeries performed annually in the $U.S.^{\rm 3}$



U.S. Market Research (Management of Otitis Media)

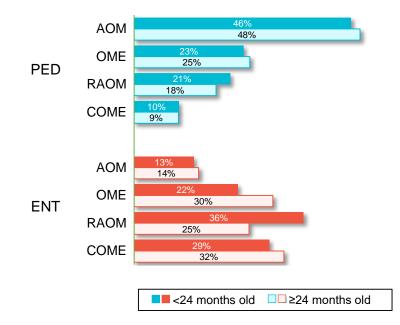
Novus conducted quantitative market research with 50 Pediatricians ("PED") and 30 Otolaryngologists ("ENT") to better understand the current management of otitis media and the potential utilization of OP0201 for otitis media

PEDAverageMedianRangeMonthly OM Patients1569035-600Age of OM Patients (years)330-25

PED/ENTs manage a large number of OM patients

ENT (61% pediatric)	Average	Median	Range
Monthly OM Patients	93	40	15-600
Age of OM Patients (years)	17	10	0-98

ENTs manage a greater amount of chronic/recurrent OM

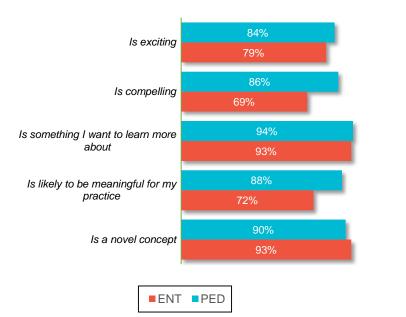


Novus Market Research May 2018 (data on file)

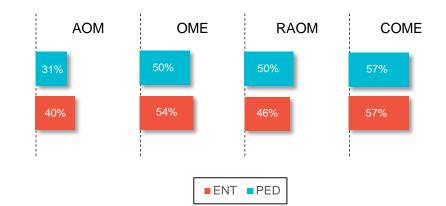
U.S. Market Research (Impression and Stated Utilization of OP0201)

PED/ENTs are favorable to the OP0201 product profile

(agree/strongly agree to the following statements)



PED/ENTs intend to utilize OP0201 across all OM types (represents more than 6 million prescriptions annually)



Surfactant Program

Overview of Surfactant Program (OP0201)

- Novel nasal aerosol, drug-device product being developed as a first-in-class treatment option for otitis media
- Proprietary formulation of two active ingredients
 - Dipalmitoylphosphatidylcholine (DPPC)
 - Cholesteryl palmitate (CP)
- Daily nasal spray designed to help restore and maintain Eustachian tube (ET) function
 - Lowers ET surface tension and promotes "de-sticking"
- Proof of concept successfully demonstrated in multiple animal species, plus supportive anecdotal evidence in humans
- Four clinical trials ongoing (data read-out from all studies in 2019)

OP0201Preclinical Studies

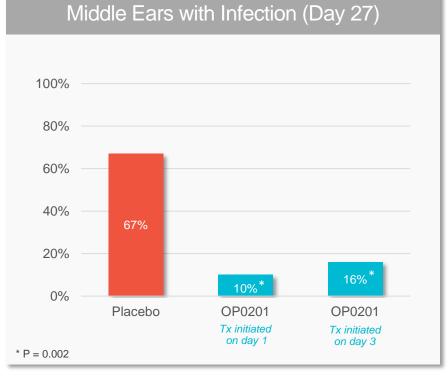
Study	Description	Animals	Result
1	Administration of OP0201 in a metered dose aerosolized intranasal delivery system to healthy animals ¹	Gerbils + Mice	Reduction of Eustachian tube passive opening pressure within minutes of administration
2	Administration of OP0201 in a metered dose aerosolized intranasal delivery system to animals with OME ²	Gerbils	Reduction in both the severity and duration of OME
3	Administration of OP0201 in a metered dose aerosolized intranasal delivery system to animals with AOM ³	Chinchillas	Reduction in both the severity and duration of AOM

^{1.} Chandrasekhar et al, Otology and Neurotology 2002;23:3-7

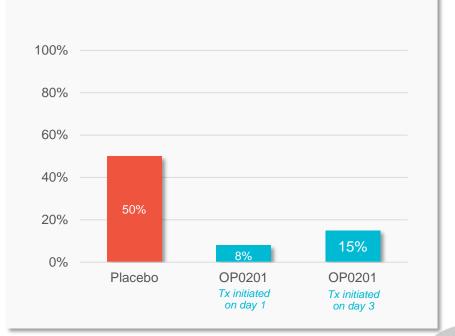
^{2.} Venkatayan et al, Otolaryngology Head Neck Surgery 2001;124:388-93

^{3.} Chandrasekhar and Mautone, Laryngoscope 2004;114:472-85

Chinchillas with AOM (Study #3)



Inner Ears with Inflammation (Day 8)



OP0201 Prior Human Experience

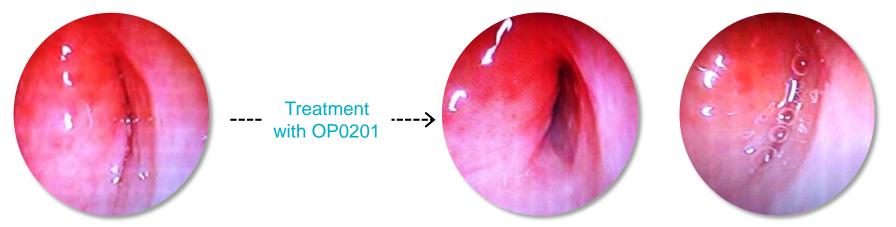


Prior to acquiring rights to the surfactant program, the inventors treated 9 human patients with various OM/ETD conditions

- Ages ranged from 4 75 years old
- Used for both treatment and prevention
- Some subjects used the product over years
- Captured as case studies and reported to FDA (also used in a patent application)
- Experience was consistent with animal data

OP0201 Prior Human Experience (Case Study #4)

Endoscopic observation of an adult male with rhinitis and left clogged Eustachian tube



Time 0

++erythema, boggy wet mucosa and copious thin mucus with a noticeable absence of bubbles at Eustachian tube orifice

Time 10 min

Patient begins to feel clearing of the ear and is able to open the Eustachian tube on sustained yawns

Time 15 min

Patient reports that ear has opened up; bubbles begin to form at the Eustachian tube orifice (air exchange)

OP0201 Clinical Trials (Phase 1 Studies)

Study C-001 ClinicalTrials.gov = NCT03828149

- Phase 1 clinical trial to evaluate safety, tolerability, and Eustachian tube function
- Randomized, double-blind, placebo-controlled, cross-over design
- Single 20 mg intranasal dose in healthy adults (N=16)

Z Data Q2 2019

Study C-002 ClinicalTrials.gov = NCT03748758

- Phase 1 clinical trial to evaluate safety and tolerability of daily administration over 14-days
- Randomized, double-blind, placebo-controlled, parallelgroup, dose-escalation design
- 30 mg/day and 60 mg/day dosing in healthy adults (N=30)
- Data Q2 2019

Study C-004 ClinicalTrials.gov = NCT03766373

- Phase 1 clinical trial to evaluate safety, tolerability, and pain relief after initial dose (60-minutes)
- Randomized, double-blind, placebo-controlled, parallel-group design
- Single 20 mg intranasal dose in AOM patients (N=24)

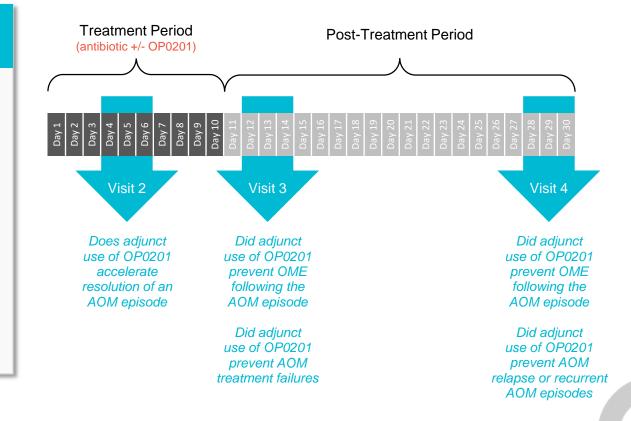


OP0201 Clinical Trials (Phase 2a Study)

Study C-006 ClinicalTrials.gov = NCT03818815

- Phase 2a clinical trial to evaluate safety, tolerability, and efficacy
- Randomized, double-blind, placebo-controlled, parallel-group design
- 20 mg/day dosing in infants and children ages 6-24 months with AOM (N=50)

🕗 Data 2H 2019



- Study C-007: Assessment of safety, tolerability and efficacy of OP0201 nasal aerosol as an adjunct treatment for acute otitis media in infants and children
 - Initiation of study Q4 2019 / Q1 2020

- Study C-009: Assessment of safety, tolerability and efficacy of OP0201 nasal aerosol as a treatment for chronic otitis media with effusion in infants and children
 - Initiation of study Q4 2019 / Q1 2020

Otitis Externa

Overview of Acute Otitis Externa



Inflammation and infection

Common condition of the external ear canal involving inflammation and infection



Symptoms

Symptoms include ear pain, itching, edema, reddening of the skin, and ear discharge



Chronic dermatologic conditions

Causes include trapped moisture, trauma, poor cleanliness, and chronic dermatologic conditions



Antibiotic prescriptions

6.7 million antibiotic prescriptions written for the ear annually in the U.S.¹



Foam Program

Overview of Antibiotic Ear Foam



Novus developed an novel aerosol foam to be used as a drug delivery vehicle (ears, nose/sinus)

Completed successful phase 2 clinical trial in AOE with a first-generation, antibiotic-only product (OP0101)

• Non-inferior to CIPRODEX® using 50% fewer doses

Completed initial formulation work on OP0201, a second-generation combination drug product intended to be a clinically differentiated treatment option for AOE

- Addition of anesthetic for rapid pain relief (unmet need)
- Shorter treatment duration (less than 7-days)

Intellectual Property



Surfactant Patents and Applications

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Foam Patents and Applications

7 U.S. and 3 foreign patents (last to expire issued patent in the U.S. in Nov 2019

1 U.S. patent application, 1 International (PCT) patent application, and 2 foreign patent application (methods of use with expiration 2036+)

1 provisional patent application claiming novel drug substance and pharmaceutical compositions (composition of matter with expiration 2039+) 3 U.S. and 7 foreign patents (last to expire issued patent in the U.S. in Sep 2027)

2 U.S. patent applications, 1 of which has recently been allowed, and 3 foreign patent applications (allowed U.S. application will expire in Dec 2033, absent any adjustments)