



Our vision is to help people with inner ear hearing disorders to live life with unlimited connections



DISCLAIMER

- This document has been prepared by Sensorion (the "Company") and is provided for information purposes only. This document does not purport to contain comprehensive or complete information about the Company and is qualified in its entirety by the business, financial and other information that the Company is required to publish in accordance with the rules, regulations and practices applicable to companies listed on Euronext Paris. No reliance may be placed for any purposes whatsoever on the information or opinions contained in this document or on its accuracy or completeness.
- This presentation does not constitute an offer to sell, a solicitation of, or an invitation to subscribe for or to buy, securities of Sensorion in any jurisdiction.
- The information and opinions contained in this document are provided as of the date
 of this document only and may be updated, supplemented, revised, verified or
 amended, and thus such information may be subject to significant changes. The
 Company is not under any obligation to update the information or opinions contained
 herein which are subject to change without prior notice.
- The information contained in this document has not been subject to independent verification. No representation, warranty or undertaking, express or implied, is made as to the accuracy, completeness or appropriateness of the information and opinions contained in this document. The Company, its subsidiaries, its advisors and representatives accept no responsibility for and shall not, under any circumstance, be held liable for any loss or damage that may arise from the use of this document or the information or opinions contained herein.
- This document contains information on the Company's markets and competitive
 position, and more specifically, on the size of its markets. This information has been
 drawn from various sources or from the Company's own estimates which may not be
 accurate and thus no reliance should be placed on such information.
- This document contains certain forward-looking statements. These statements are not quarantees of the Company's future performance. These forward-looking statements relate to the Company's future prospects, developments and marketing strategy and are based on analyses of earnings forecasts and estimates of amounts not yet determinable. Forward-looking statements are subject to a variety of risks and uncertainties as they relate to future events and are dependent on circumstances that may or may not materialize in the future. Forward-looking statements cannot, under any circumstance, be construed as a quarantee of the Company's future performance and the Company's actual financial position, results and cash flow, as well as the trends in the sector in which the Company operates, may differ materially from those proposed or reflected in the forward-looking statements contained in this document. Important factors that could cause actual results to differ materially from the results anticipated in the forward-looking statements include those discussed or identified in the "Risk Factors" section of our 2023 Annual Report published on March 14, 2024, and available on our website (www.sensorion.com). Even if the Company's financial position, results, cash-flows and developments in the sector in which the Company operates were to conform to the forward-looking statements contained in this document, such results or developments cannot be construed as a reliable indication of the Company's future results or developments. The Company does not undertake any obligation to update or to confirm projections or estimates made by analysts or to make public any correction to any prospective information in order to reflect an event or circumstance that may occur after the date of this document.
- Certain figures and numbers appearing in this document have been rounded.
 Consequently, the total amounts and percentages appearing in the tables may not necessarily equal the sum of the individually rounded figures, amounts or percentages.
- All persons accessing this document must agree to the restrictions and limitations set out above.

Sensorion: Establishing Global Leadership In Hearing Loss With Strong And Diversified Pipeline



- Untapped opportunity with 1,5 bn people affected by hearing loss (HL); 0,5 bn suffer from disabling HL
- Multiple causes: genetic, environmental, idiopathic



 Modality agnostic approach leveraging unparalleled understanding of the inner ear and world-leading, differentiated and exclusive partnerships (Institut Pasteur, Necker Hospital, Cochlear Ltd, Sonova)



- Two gene therapies (GT): SENS-501 (for mutations in otoferlin encoding gene Ph1/2 clinical study approved); GJB2-GT (for mutations in GJB2 gene candidate selected to enter the clinic in 2025)
- Prospective Natural History Studies ongoing



• Small molecule, SENS-401, for the treatment, restoration and prevention of HL caused by Cochlear Implantation CI (POC Ph2a ongoing), Cisplatin-Induced Ototoxicity CIO (POC Ph2a ongoing), and Sudden Sensorineural HL (Ph2b completed)



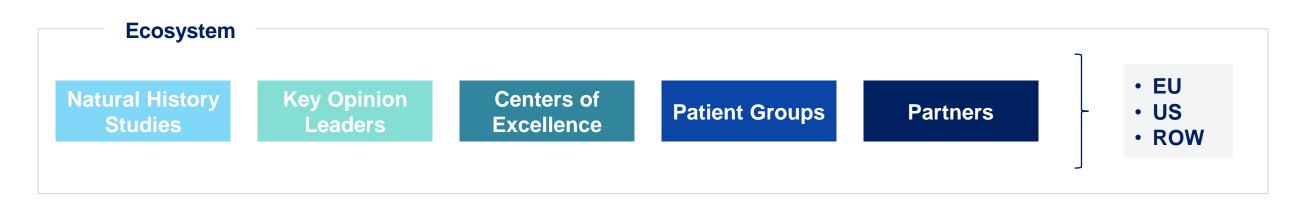
Multiple upcoming milestones across the GT and small molecule pipeline, including the full Ph 2a data readout for SENS-401 CI and first patient communication for the Ph 1/2 GT trial of SENS-501



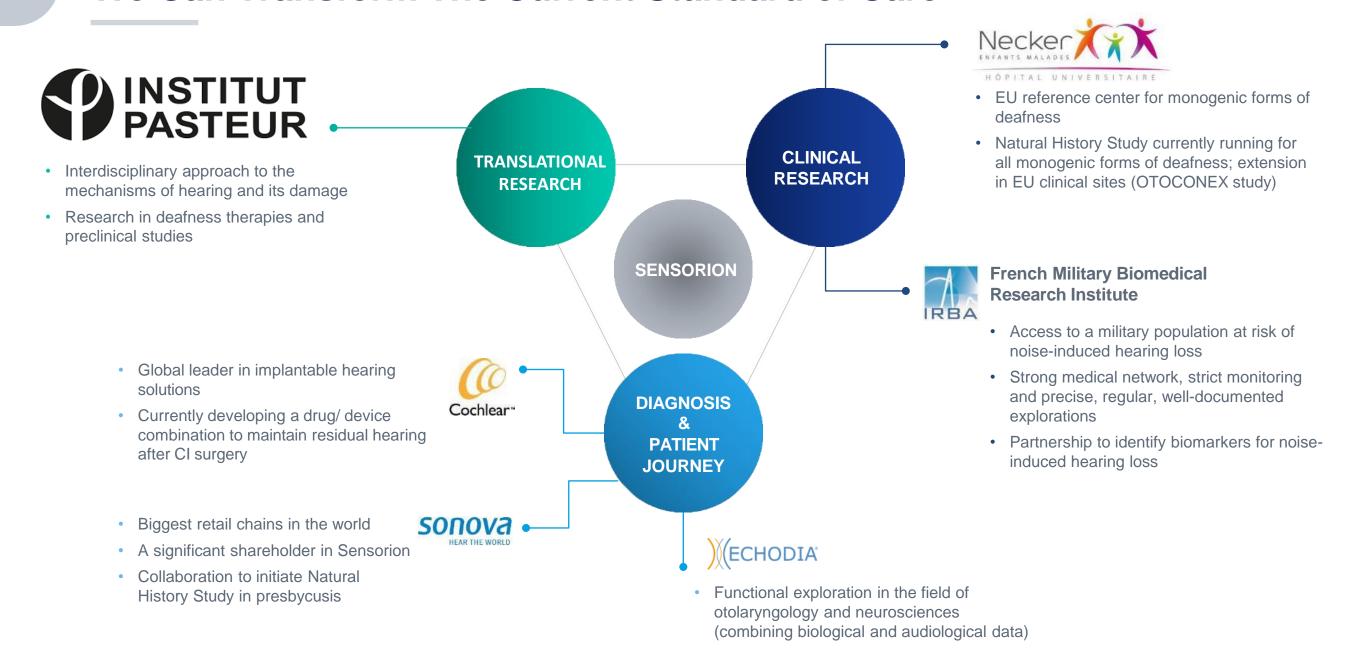
- Experienced and visionary management team
- Strong shareholder base backed by leading blue-chip life sciences investors; €100m raised since Aug 2023 giving cash runway until the end of 2025

Our Vision: A Global Franchise Establishing Leadership In The Hearing Space





Together With Best-In-Class Partners We Can Transform The Current Standard of Care



Sensorion Is Well Positioned To Transform the Hearing Landscape- Institut Pasteur Partnership Feeds GT Pipeline

GENE THERAPY

Otoferlin deficiency (SENS-501)

Audiogene Ph1/2 study approved in France; First Patient Communication in H2 2024

- Hearing restoration in DFNB9 pediatric patients aged 6 to 31 months
- Ph1/2 to evaluate safety, tolerability and efficacy of SENS-501

Connexin 26 deficiency (GJB2-GT)

Candidate selected

Considered Indications:

- Hearing restoration in DFNB1 pediatric patients
- Hearing restoration in childhood onset of hearing loss linked to GJB2 mutations
- Hearing restoration in early onset severe presbycusis linked to GJB2 mutations

SMALL MOLECULE: SENS-401

Sudden Sensorineural Hearing Loss (SSNHL)

AUDIBLE-S Ph2 Randomized and Controlled Study Completed

- Clinically and statistically significant effect on PTA (Pure Tone Audiometry) change over time in a large idiopathic population treated with oral corticosteroids
- Complete PTA recovery in 50% of treated patients

Cochlear Implantation (CI)

Ph2 Randomized and Controlled Study Ongoing Primary Endpoint Met

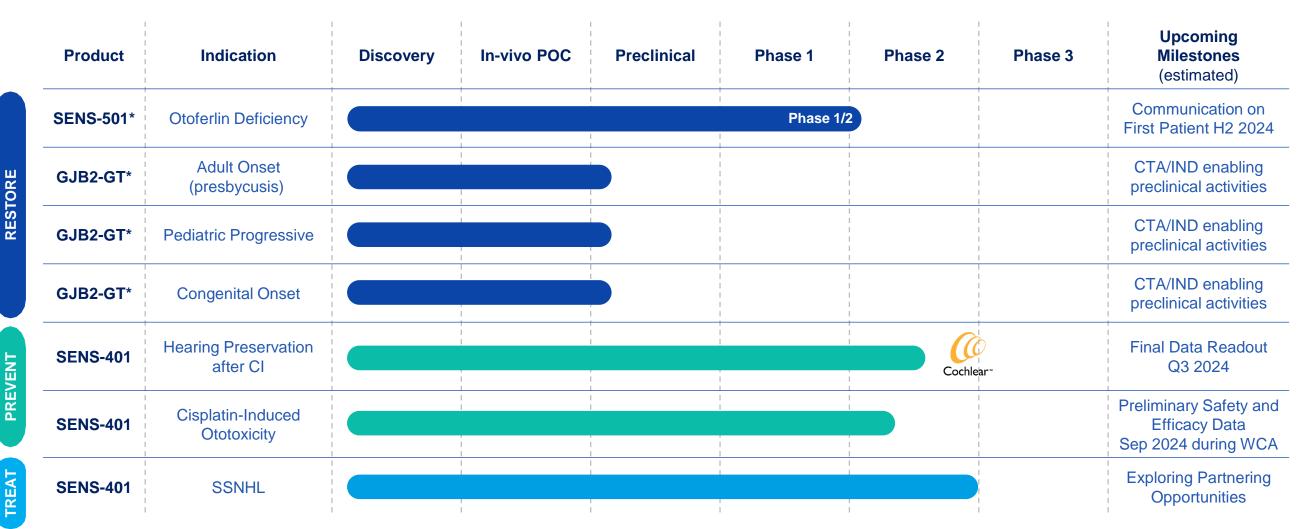
- Presence of SENS-401 detected in the perilymph of 100% of sampled patients
- Clinically significant difference of 21 dB and 14 dB in the residual hearing between SENS-401 and control groups at 500 Hz and in the average of 250-500-750 Hz, 6 weeks after CI

Cisplatin-Induced Ototoxicity (CIO)

NOTOXIS Ph2 Randomized and Controlled Study Ongoing Positive Preliminary Safety Results

 Assess prevention of the ototoxicity induced by Cisplatin in patients with neoplastic disease

Sensorion's Portfolio Of Advanced Hearing Loss Therapies



3SBio has a right of first refusal with respect to licensing in Greater China of SENS-401 (except in combination with cochlear implants) and SENS-501 OTOF-GT *Option to obtain a licence from the Institut Pasteur (pre-defined financial terms and other terms to be negotiated)

We Have Established Internal Capabilities To Ensure Successful Execution



PRECLINICAL -SMALL MOLECULES & GT PROGRAMS

- Cell Model Platform: assays development, target & drug discovery, biomarkers
- Animal Pharmacology platform: from the POC to the dose-finding studies in disease-relevant rodent models, surgery
- Technology & Innovation platform: design and select the best drug candidate (capsid & promoter selection)



CLINICAL EXPERIENCE

- 400 subjects enrolled in Sensorion led clinical trials
- Set-up audio tests in different countries, languages
- Central reading of audiometry testing
- In-house audiology expertise of more than 20 years for the pediatric and adult populations and cochlear implants



CMC GENE THERAPY FACILITIES

- Process development: non-GMP manufacturing from small scale up to 50L in bioreactor
- Analytical development: development of productspecific analytical methods, in-house generic assays to support process development and AAV manufacturing



REGULATORY EXPERTISE

- Develop regulatory strategies to ensure expedited product development including gene therapy
- Regulatory Agency interaction (EU/US)
- Shape the treatment guidelines and standardize clinical endpoints



PATIENT ACCESS

- Working with prominent payers from the EU5
- Obtaining consultation about our early Clinical Development Program within EU and US
- Building capabilities cross-functionally

Our Team Has Significant Experience In Gene Therapy Clinical Development

The team has been involved in 15+ programs from preclinical to BLA filing...

10

1

Preclinical

Clinical

BLA filing

... using different technologies...

15

Gene therapy (AAVs / LVs)

1

Cell therapy 1

Gene editing

... across different organs and indications...



... with multiple organizations



























Sensorion's Gene Therapy Programs Target Rare Auditory Diseases

FIRST PROGRAMS RESULTING FROM THE INSTITUT PASTEUR COLLABORATION

OTOFERLIN DEFICIENCY

- Pediatric patients with mutations in OTOF suffer from severe to profound sensorineural prelingual non-syndromic hearing loss
- Otoferlin deficiency could be responsible for up to 8% of all cases of congenital hearing loss
- Prevalence ~20,000 in the USA + EU
- Incidence ~1,100 per year in USA + EU
- EU and US ODD, US RPDD

GJB2-RELATED HEARING LOSS

We have identified three forms of hearing loss associated with *GJB2* gene mutations:

- Early onset of severe presbycusis (adult population)
- Childhood onset (pediatric population)
- Congenital onset (pediatric population)
- ~100,000 patients between 30- and 69-years old thought to be affected by a monogenic form of presbycusis due to GJB2 mutations
- Prevalence of congenital and childhood onset forms are estimated to be around 200,000 patients as around 50% of autosomal recessive non syndromic hearing loss cases are thought to be from *GJB2* mutations

Sources: Akil et al. 2019 (<u>link</u>), Orphanet (<u>link</u>), NIH (<u>link</u>), company estimates based on publicly available population data, Chardan 2020 report, Bryan, Garnier & Co 2019 report, Institut Pasteur, Boucher et al. 2020 (<u>link</u>)

DELAYED DIAGNOSIS - NOT SUSPECTED AT FIRST SIGHT

GENE THERAPY HAS A LIFE-CHANGING POTENTIAL FOR THESE AUDITORY DISEASES



Aiming To Develop Best-In Class And First-In Class Gene Therapy

CRITERIA	SENSORION
AAV capsid selected for high-level of target cells specificity	
GT product showing high level of target cells transduction	
Limited off-target tissue biodistribution	
Surgical approach developed and mastered by ENTs surgeons	
Natural History Study preparing execution of the clinical trial	
Regular engagement with regulatory agencies	

13



Gene Therapy Pediatric Indications Have Blockbuster Sales Potential SENS-501 CTA Approved In France

SENS-501 (OTOF-GT) is the Perfect Pilot Program

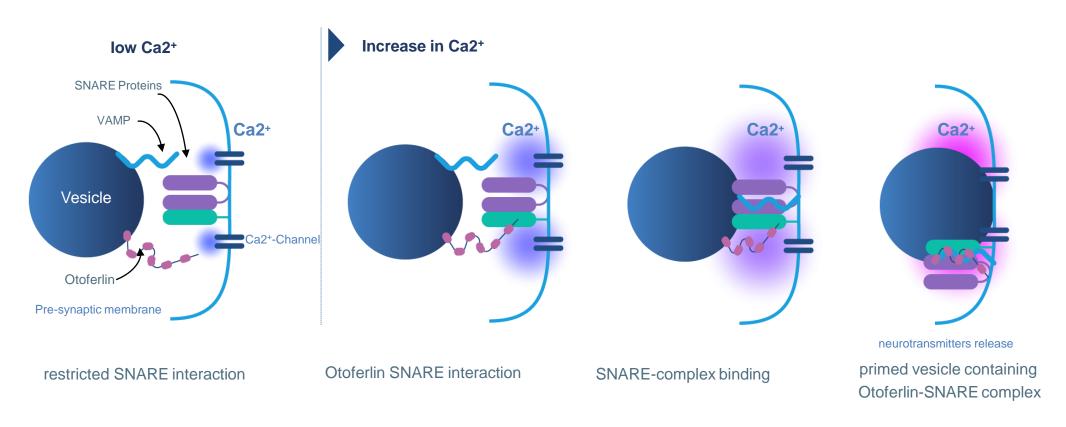
- Well understood biology and pathology of the otoferlin deficiency
- Full functionality of the remaining chain
- High specificity for the inner hair cells (IHCs), no off-target effect expected

- SENS-501 will be the pilot program demonstrating that GT is a relevant medical approach for the inner ear
- SENS-501 will establish understanding of GT in the inner ear by the Regulators and the Payers for future GT programs
- Medical plausibility and target population have been confirmed through:
 - ✓ Orphan Drug Designation in the US and EU
 - ✓ Rare Pediatric Disease Designation with eligibility for voucher in the US
 - ✓ Clinical Trial Application approved in France, 1st patient communication H2 2024



Sources: Sensorion, AT Kearney market research

OTOF Gene Encodes Otoferlin, A Key Ca2+ Sensor Protein



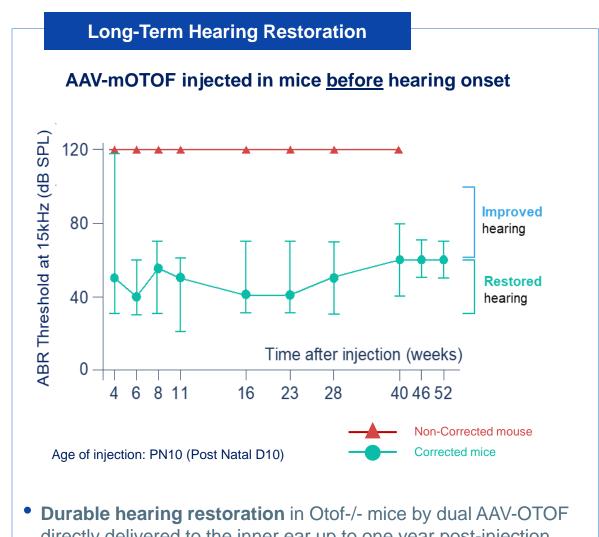
Model illustrating calcium regulation of otoferlin/SNARE interaction in the hair cell – Adapted from Ramakrishnan et al. 2014

OTOF is the gene coding for the otoferlin protein, a Ca2+ sensor for vesicle fusion and vesicle pool replenishment at auditory hair cell ribbon synapses

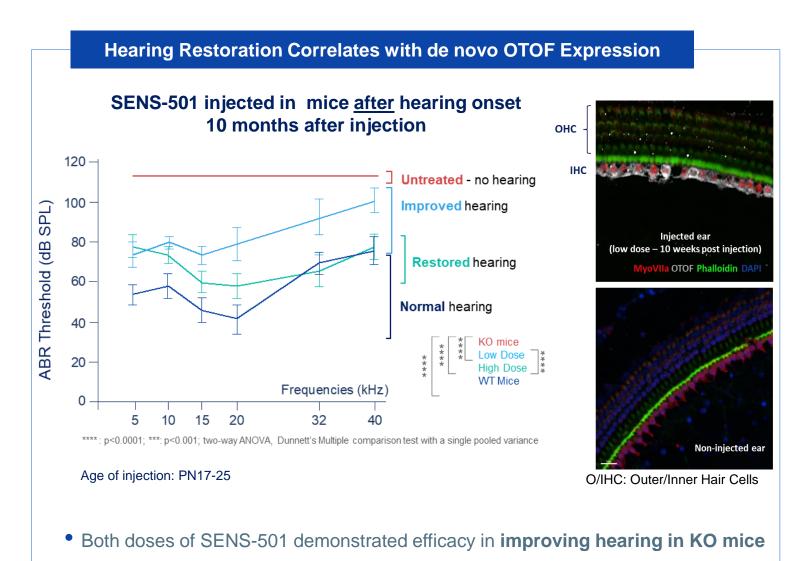
15



SENS-501 Leads To Long-Term Hearing Recovery In A Translational Model Of Otoferlin Deficiency





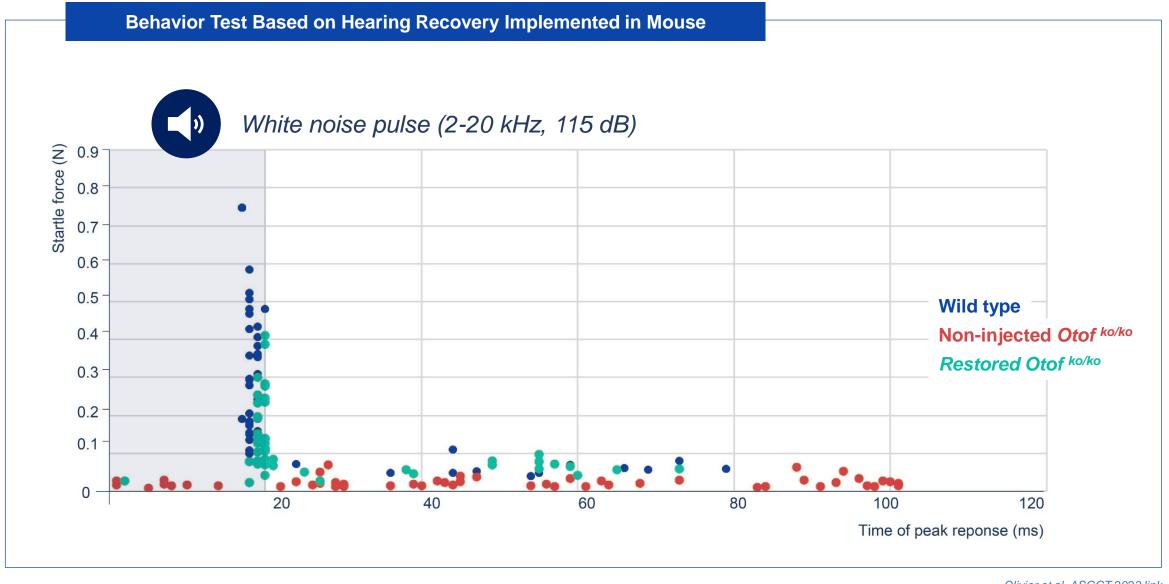


SENS-501 leads to otoferlin expression in Inner Hair Cells

Olivier et al. ASGCT 2023 link



SENS-501 Leads To Restoration Of Efficient Sound Processing In Behavioural Test



Olivier et al. ASGCT 2023 link

Dedicated Surgical Approach For Gene Therapy

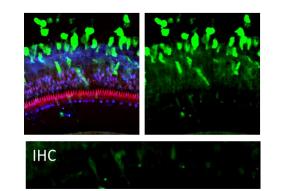
Non-Human Primates injected through the round window membrane (RWI) with or without stapedotomy (stap)

1 Fenestration



Used for cochlear implant

- Overpressure
- Limited volume
- Backflow
- Irregular transduction rate



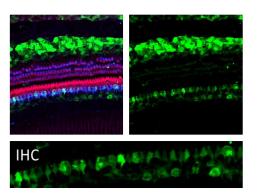
MyoVIIa Actin GFP

2 Fenestrations



Combining 2 common surgical technics: cochlear implant and stapedotomy

- No overpressure
- No backflow
- Homogenous and efficient transduction rate



MyoVIIa Actin GFP

Surgical approach

- Surgical procedure is similar to cochlear implantation and well mastered by ENTs surgeons
- Optimized surgery uses stapedotomy procedure to maximize target cells exposure along the full length of the tonotopic axis
- Proprietary injection device developed to inject a defined volume at a controlled flow rate

18

Phase 1/2 Audiogene Study (SENS-501) Approved In France First Patient Communication Anticipated In H2 2024

Audiogene, a Phase 1/2 clinical trial in children aged 6 to 31 months to assess safety, tolerability, and efficacy of SENS-501 following unilateral injection into the cochlea

Audiogene Study Design



Pediatric patients, aged 6 to 31 months at the time of the injection

Targeting the first years of life to maximize chances of acquiring speech and language



Single intra-cochlear unilateral injection



Dose escalation

Primary endpoint: safety and tolerability



Dose expansion

Primary endpoint: efficacy (ABR, Auditory Brainstem Response)





Otoferlin "Audinnove" Consortium Provides Privileged Access To Patients And Surgeons

Audinnove consortium received Hospital-University Research (RHU) prize:

- The consortium is eligible to receive up to €9.7m to develop a Gene Therapy program addressing otoferlin deficiency
- Audioferlin: Natural History Study: clinical evaluation and selection of patients
- Database compilation with genotypic and phenotypic characterization of children with congenital hearing loss
- Phase 1/2 Gene Therapy study (financing up to 1st patient in the clinical study)

Audinnove consortium is key to the understanding of the epidemiology and to build awareness of the emerging gene therapies

Necker-Enfants Malades Hospital

• The first dedicated pediatric hospital in the world

The Reference Center for Genetic Deafness at Necker coordinates the French and European genetic deafness networks



Audinnove is financed by the French State, via the National Research Agency through the "Investing for the future" program (ref: ANR-18-RHUS-0007)

OTOCONEX: Natural History Study running across Europe will support identification of DFNB9 patients for Audiogene.

AUDINNOVE CONSORTIUM MEMBERS



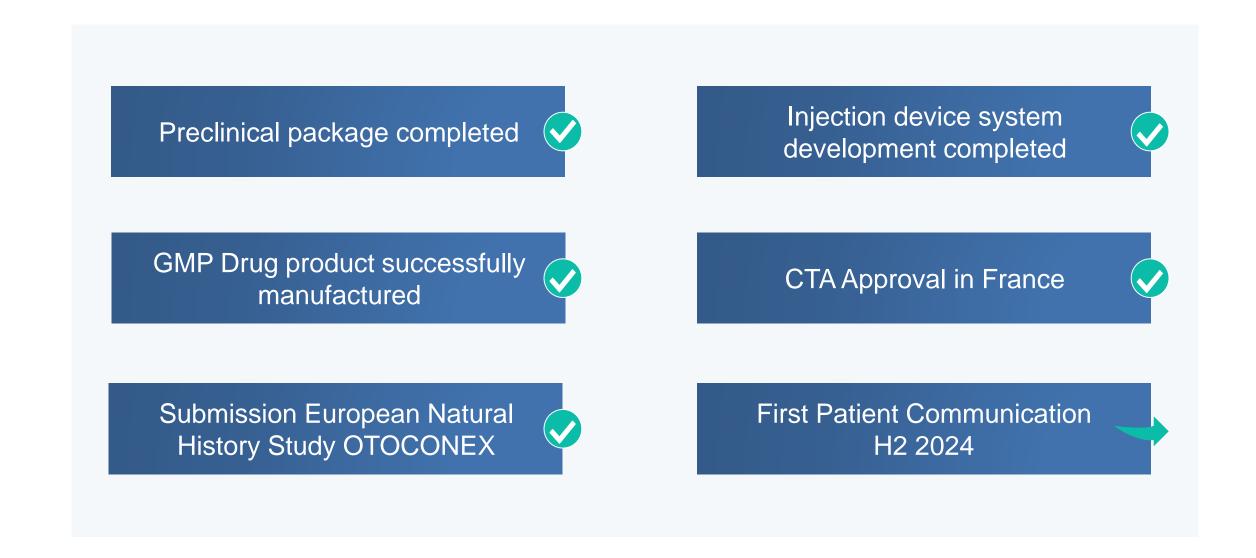






20

SENS-501 (OTOF) Gene Therapy Program Status – Progressing



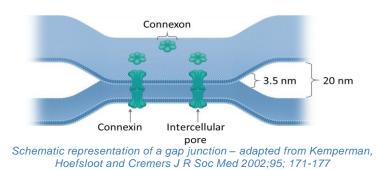
Copyright by Sensorion - 2024 - All Rights Reserved

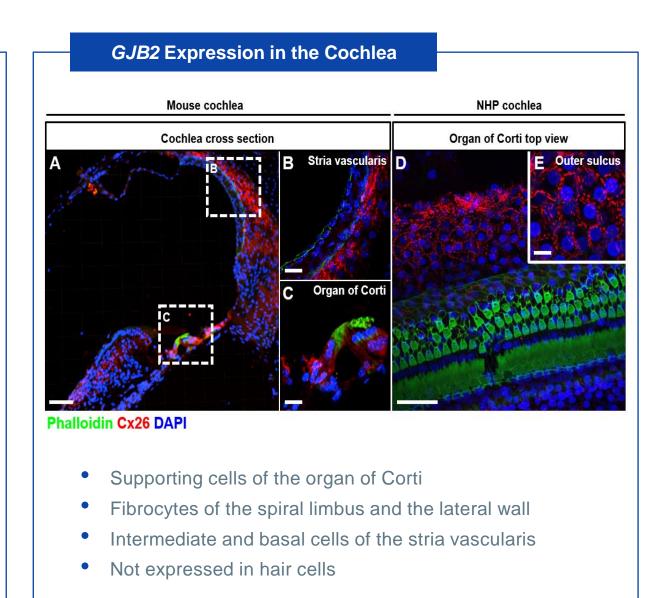
21

Connexin 26: A Gap-junction Protein Encoded By *GJB2* Gene and Responsible For Tissue Homeostasis

Mutations in the *GJB2* Lead to Deafness

- GJB2 is the gene encoding for the Connexin 26 protein; one of 20 known connexins
- Cx26 and Cx30 proteins are the dominating connexins in the cochlea; heteromeric or heterotypic hexamers forming Gap Junctions
- Gap Junctions are key for the intercellular exchange of molecules (miRNA, glucose, ions, etc.) hence responsible for tissue homeostasis
- More than 100 recessive mutations origin Cx26 truncation / deletion leading to non-syndromic hearing loss and deafness, most are addressable via gene replacement
- Severity of hearing loss correlates with degree of loss of GJB2 function







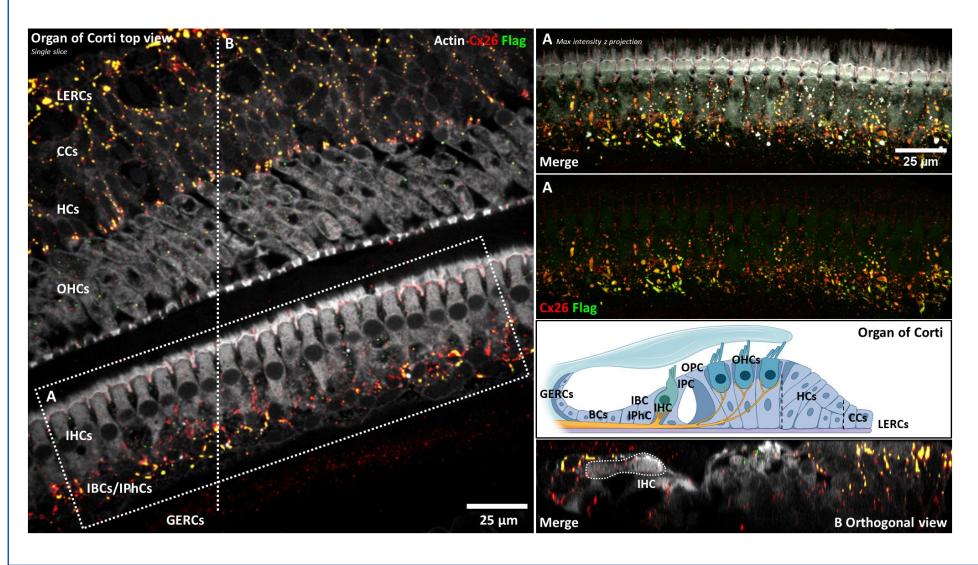
Lead Candidate Was Selected To Answer Specific Developement Criteria

CRITERIA	LEAD CANDIDATE
Natural and synthetic AAV capsid libraries screening for broad coverage of target cells	
Expression cassette design for high-level of target cells transduction, correct cellular localization, active gap-junctions	
Avoiding off-target expression (i.e. hair cells): promoter and regulatory sequences design	
Limited off-target tissue biodistribution	
Surgical approach developed and mastered by ENT surgeons	

Our Lead Candidate Was Designed to Ensure Broad Coverage of Relevant Cochlear Cells While Detargeting Hair Cells

Lead Candidate Can Deliver Cx26 In The Appropriate Target Cells

Correct Delivery of Cx26 Using Lead Candidate Flag in Non-Human Primate Cochlea

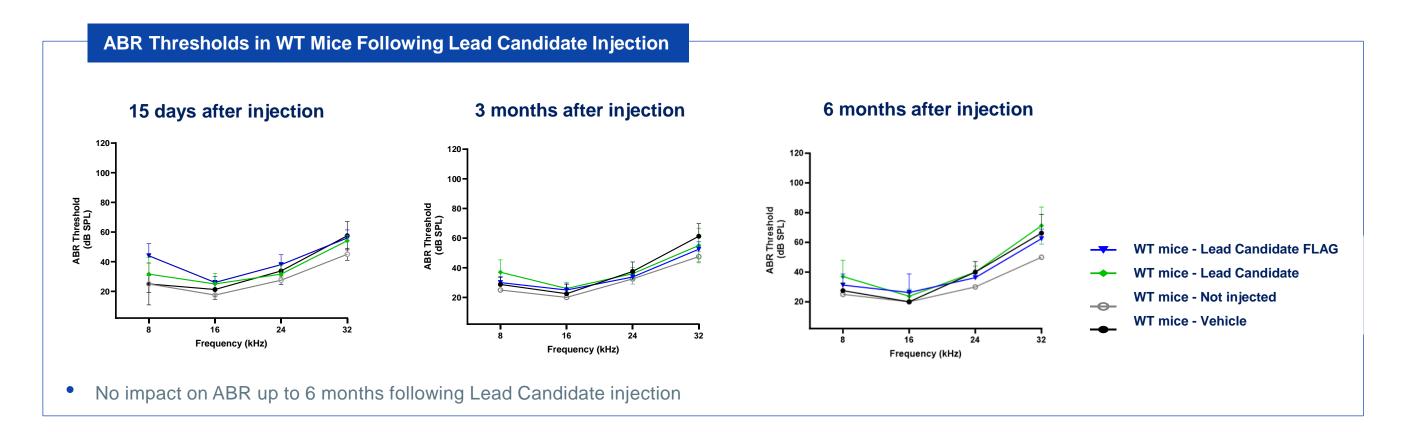


Cell Types	
Claudius Cells	
Deiters Cells	
Great Epithelial Ridge Cells	
Hensen Cells	
Inner Border Cells	
Inner Hair Cells	
Inner Phalangeal Cells	
Pilar Cells	
Lateral Epithelial Ridge Cells	
Outer Hair Cells	
Fibrocytes	
Stria Vasularis	

Call Types

- No expression in Hair Cells confirmed
- No morphological defects observed 3 and 9 weeks after intracochlear administration

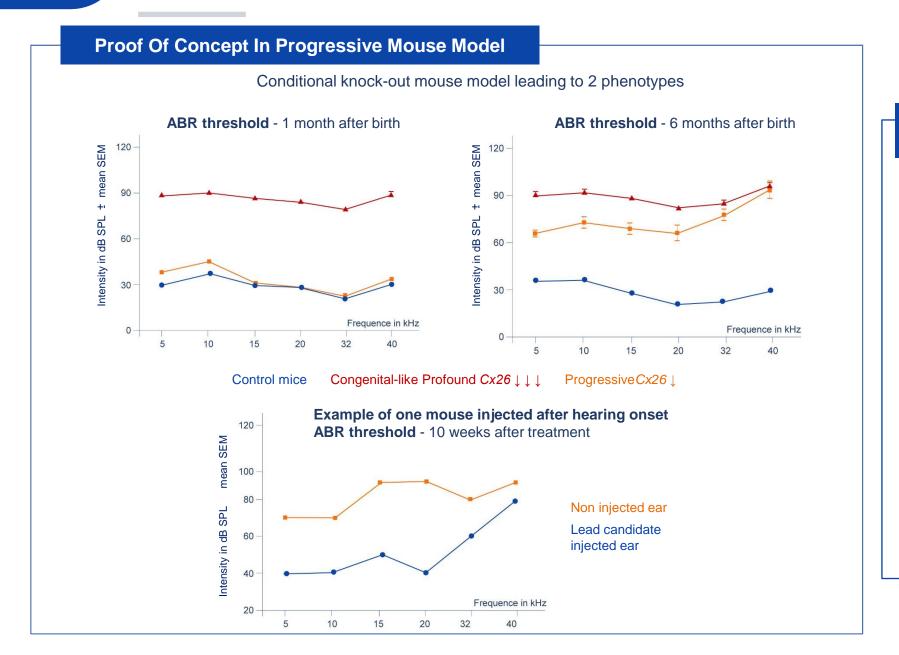
Lead Candidate Demonstrates Adequate Safety And Biodistribution Profile - Including Long-Term Local Tolerability In Mice And NHP



3-Month Exploratory Toxicity and Biodistribution in Non-Human Primate

- Lead Candidate is well tolerated and did not induce any macroscopic/organ weight changes or local/systemic microscopic findings
- Normal cochlear histology
- No lab and clinical findings
- Biodistribution: the vast majority of the vector remains in the injected ear, no dissemination observed in gonads, main organs, DRG

Lead Candidate Prevents Hearing Loss In Relevant Mouse Model



Hearing Loss Prevention Correlates With Connexin 26 Expression Example of one mouse injected after hearing onset Connexin 26 expression in the cochlea

- 10 weeks after treatment

Lead candidate injected ear

Non injected ear

Left: Green staining demonstrates efficient Cx26 re-expression in target cells, which are otherwise depleted (right) in Cx26 in the GJB2 deficient model

GJB2 Gene Therapy Program Next Steps

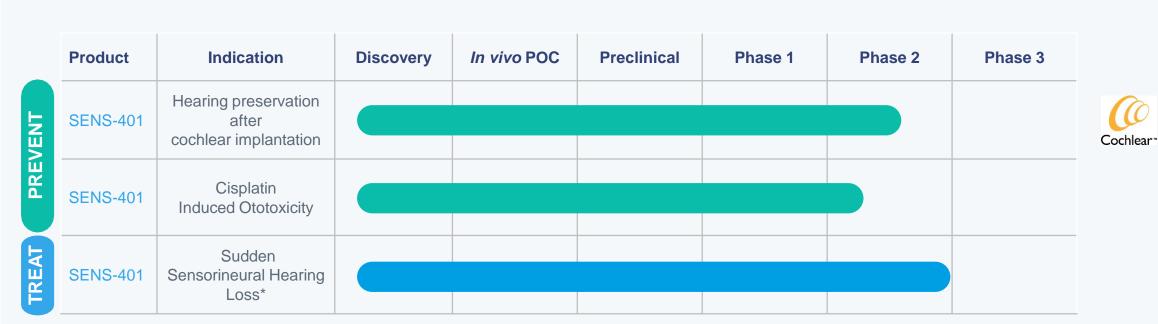


27





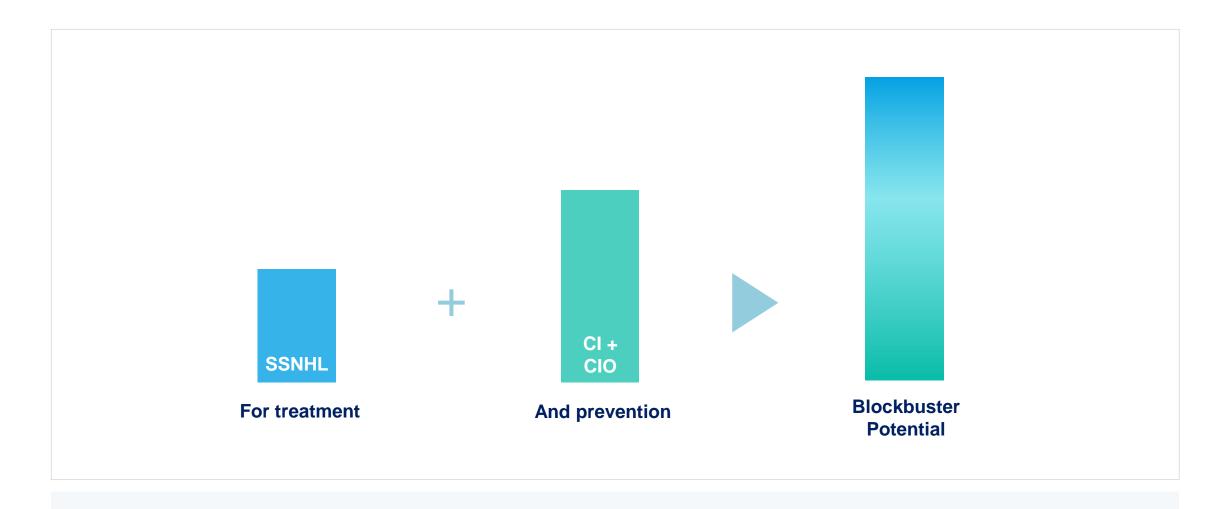
SENS-401: Multiple Indications To Treat And Prevent Hearing Loss





^{*&}quot;Patriot" Consortium (IRBA, Sensorion, Echodia, Institut Pasteur) awarded up to €10.8m non dilutive financing by French government, staged over the duration of the project. Sensorion will receive up to €5.6m to further develop SENS-401 in SSNHL French army

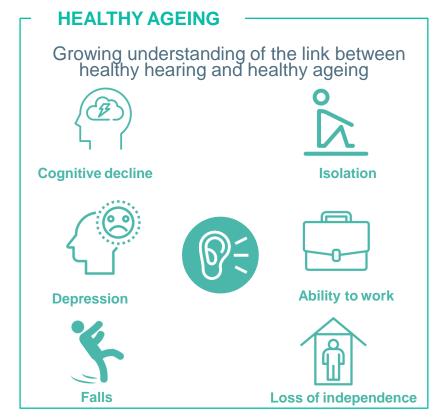
SENS-401 - A Portfolio With Potential Blockbuster Value



SENS-401 SSNHL clinical data and insight **derisk** further development of SENS-401 in other indications

SENS-401 To Preserve Residual Hearing After Cochlear Implantation

COMBINATION OF COCHLEAR IMPLANT WITH SENS-401 TO PREVENT CELL-DEATH POST COCHLEAR IMPLANT PROCEDURE



Source: Cochlear® 2018 investor day (link)

KEY FIGURES

36,450

Implants sold by Cochlear[®] globally in 2021¹ (representing ~60% of global market share)

\$1.5bn

Cochlear implant market in 2020²

80%

Market penetration in children in developed markets¹ and 3% in adults ¹

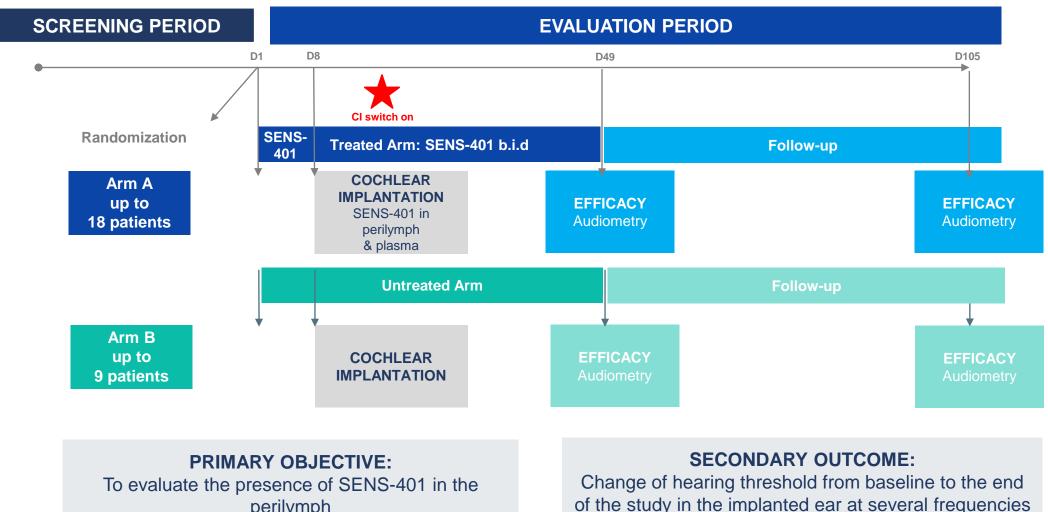
¹Cochlear® FY21 Result Presentation (<u>link</u>)

²Market estimates (link)

SENS-401 CI Study Design Primary Endpoint Met

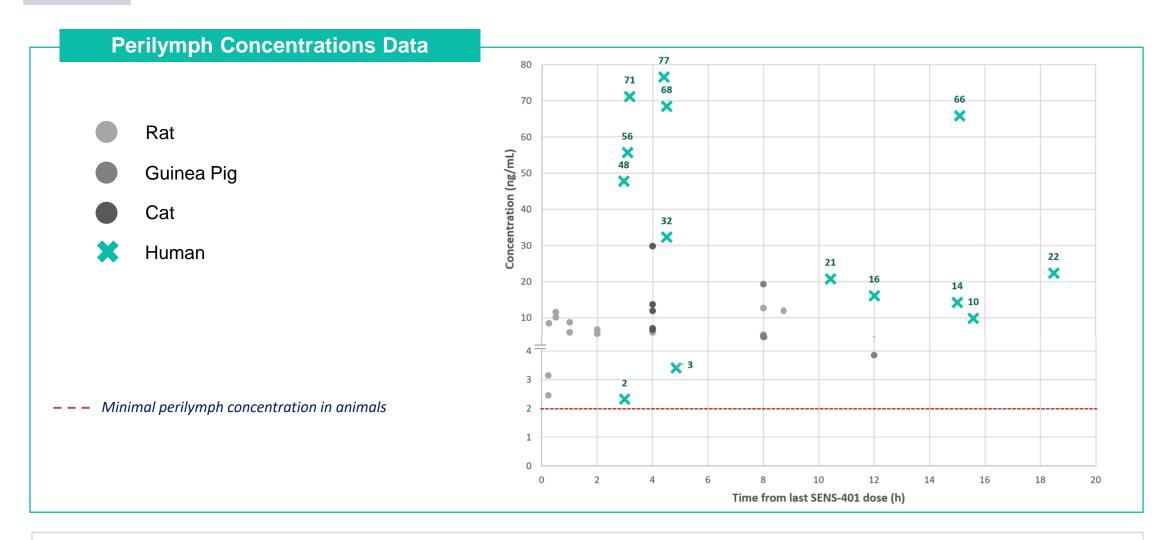


A Phase 2a, Multicenter, Randomized, Controlled, Open-label Study



perilymph

Primary Endpoint Of The Phase 2a Clinical Study For Residual Hearing Preservation Has Been Met



- Presence of SENS-401 in the perilymph is confirmed in 100% of the patients sampled following cochlear implantation.
- These results confirm that SENS-401 administered orally crosses the labyrinth barrier.

Residual Low Frequency Hearing Benefits For Cochlear Implant Users

Initial shift*

(2-4 weeks postoperative) between surgery and initial activation of the device

Attributed to perioperative factors

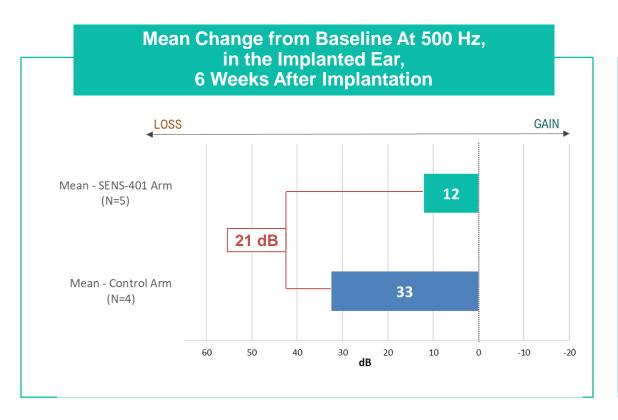
Second shift* (3-6 months postoperative)

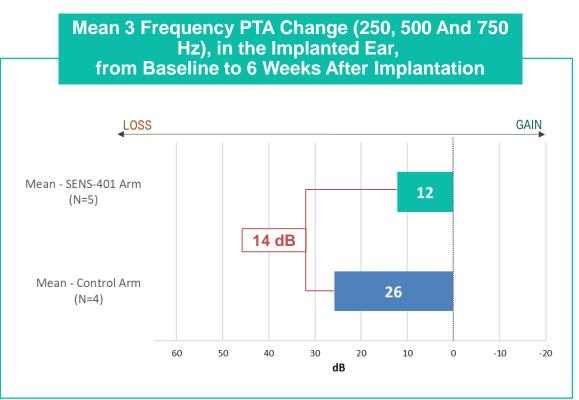
 Attributed to intracochlear fibrosis, excitotoxic changes from electrical and acoustic stimulation

Postoperative hearing preservation defined as: unaided air-conduction thresholds < 85 dB HL at 125, 250, and 500 Hz

*Jensen et al., Hearing Preservation After Cochlear Implantation, 2021

SENS-401 Preserves Early Loss of Residual Hearing - As Shown In All First Five Patients Treated

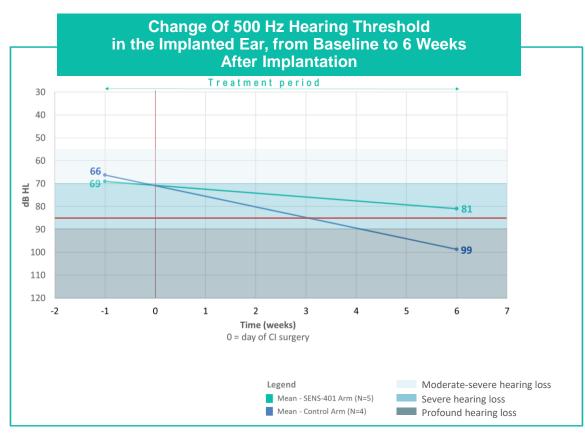


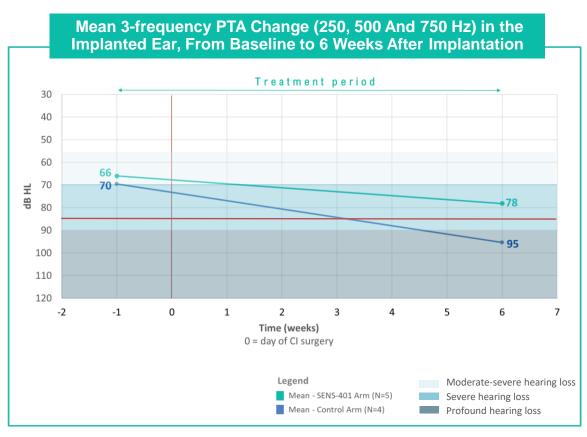


PTA = Pure Tone Average

• A clinically significant difference of 21 dB and 14 dB in the early loss of residual hearing between SENS-401 and control groups is observed at 500 Hz and in the average of 3 frequencies respectively, 6 weeks after cochlear implantation

SENS-401 Also Preserves Post-Operative Hearing - As Measured At The End Of The Treatment Period





Postoperative hearing preservation defined as unaided air-conduction thresholds <85 dB HL (adaptation of Jensen et al., 2021)

- The SENS- 401 treated group remains above the defined threshold of postoperative hearing preservation
- Shift in hearing loss degree: patients not treated with SENS-401 are progressing from moderate-severe hearing loss to profound hearing loss

SENS-401 CI Conclusion



SENS-401 can cross the labyrinthine barrier to target cochlear hair cells in all patients sampled, confirming primary endpoint is met.



Six weeks post-cochlear implantation, the residual hearing loss whether assessed at 500 Hz or across an average of 3 consecutive frequencies exhibited a clinically significant, favorable trend for the treated group (12 dB), in comparison to the untreated group (33 dB), resulting in a difference of clinical significance of 21 dB.



This supports the assumption that SENS-401, present in the perilymph fluid, reaches concentrations that are pharmacologically active.



SENS-401 taken for 7 weeks confirms it has a good safety profile.



These encouraging trends necessitate further validation across the full study participant group.



SENS- 401 has the potential to modify the outcome of CI while preserving residual hearing by improving speech perception in quiet and noise, music perception, spatial localization and maintaining more natural sound quality.



These results support the SSNHL phase 2 data and further development of SENS-401.

Cisplatin Administration For Chemotherapies Damages The Inner Ear And Leads To Hearing Loss, Tinnitus And Dizziness

WHAT IS CIO?

Hearing loss caused by cisplatin administration as chemotherapeutic treatment.

Risk factors include young age as well as individual and cumulative cisplatin doses.

CIO leads to permanent inner ear problems in 50-60% of adult cases and in 90% of pediatric cases.

These complications significantly impact patients' quality of life due to:

- Hearing loss, tinnitus and dizziness impacting daily life activities
- Problems in language acquisition and learning for pediatric patients
- Difficulties in communicating, social isolation, cognitive decline

Potential treatments must not interfere with cisplatin efficacy.

Incidence of cisplatin treated patients: 500,000 patients in 2025 in G7 countries¹



¹ Company/ estimates based on publicly available data (in the US, Japan, Germany, France, the UK, Italy and Spain)

SENS-401 Phase 2a Proof-Of-Concept Study NOTOXIS Positive Preliminary Safety Data

A Phase 2a, Multicenter, Randomized, Controlled, Open-label Study to Evaluate the Efficacy of SENS-401 to Prevent the Ototoxicity Induced by Cisplatin in Adult Subjects with a Neoplastic Disease

SCREENING PERIOD between -28 and -2 days

Subjects suffering from a neoplastic disease for which the treatment protocol includes a chemotherapy with cisplatin and having a higher risk of ototoxicity induced by the cisplatin treatment

RANDOMIZATION Arm A - Up to 29 subjects

Arm B - Up to 29 subjects

STUDY DURATION (max 31 weeks) Follow-up Follow-up - No treatment **Cisplatin only** No treatment Up to 18 weeks (max 6 cycles of 3 weeks) 4 weeks 8 weeks SENS-**SENS-401** Follow-up - No treatment Cisplatin + SENS-401 401 Up to 18 weeks (max 6 cycles of 3 8 weeks weeks) week weeks ★ Primary Endpoint Secondary Endpoint

Objectives:

Efficacy

- · Rate of ototoxicity
- High Frequency PTA
- · Speech in Noise and quiet
- THI questionnaire

Safety

AEs & SAEs incidence

Key Takeaways from Preliminary Study Data

- SENS-401 has a **favorable safety profile** when administered continuously for up to **11 weeks** in adult patients undergoing cisplatin-based chemotherapy
- Recruitment is progressing well, with over a third of the required study population enrolled (and eleven clinical centers open to date)
- Sensorion will provide preliminary safety and efficacy data of its POC Phase 2a clinical trial of SENS-401 CIO during the World Congress of Audiology, being held on September 19-22, 2024



SENS-401 Program Key Milestones, Data Readouts in 2024



SENS-401 with cochlear implants (CI)
- Primary Endpoint Readout H1 2024



SENS-401 CIO NOTOXIS
- Preliminary Results S2 2023

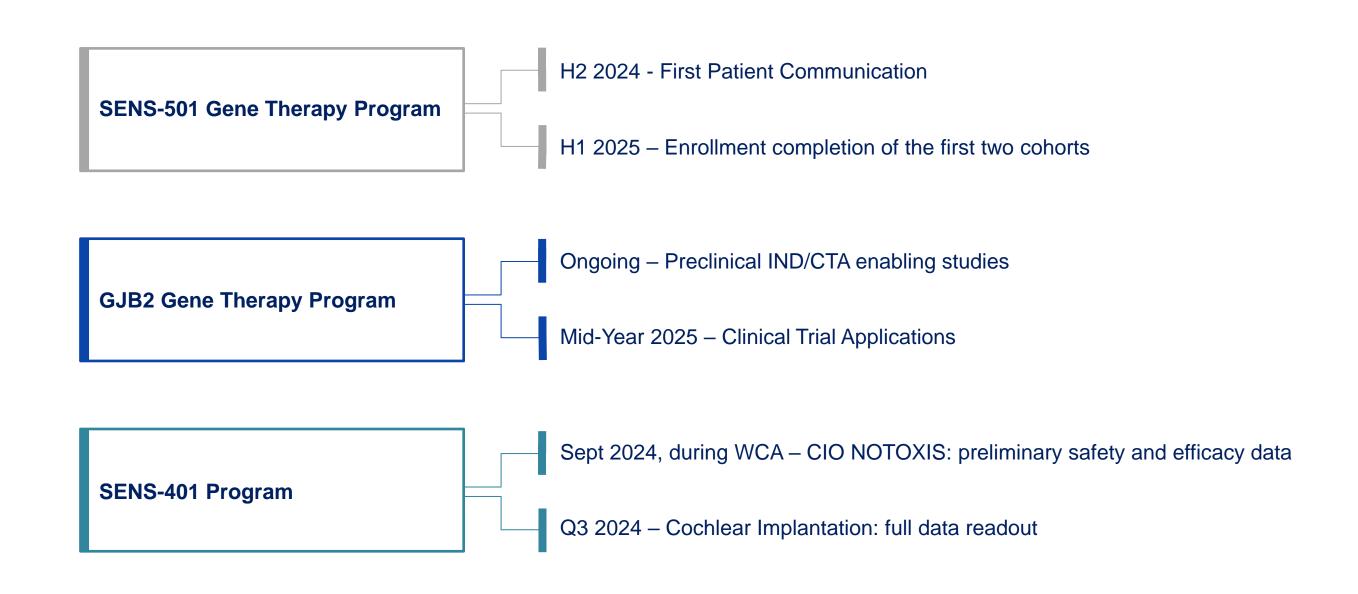


SENS-401 CIO NOTOXIS
- Preliminary Safety and Efficacy Data
Sep. 2024 during WCA



SENS-401 with cochlear implants (CI) – Full Data Readout Q3 2024

Sensorion Newsflow [Estimated Timelines]



Copyright by Sensorion - 2024 - All Rights Reserved

THANK YOU

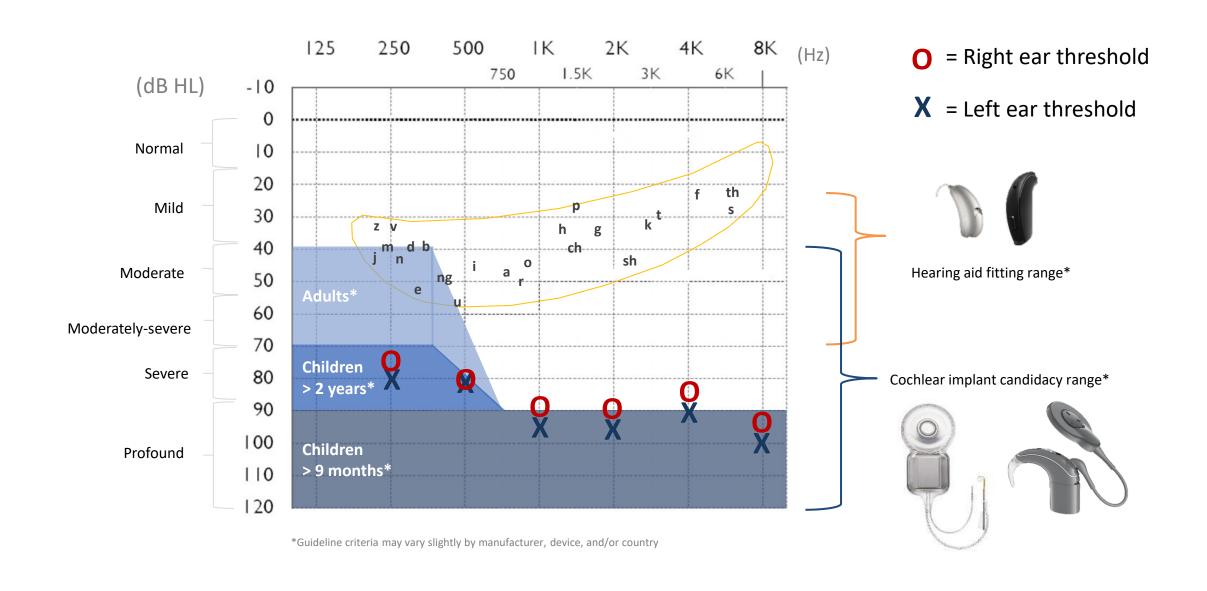
E: contact@sensorion-pharma.com







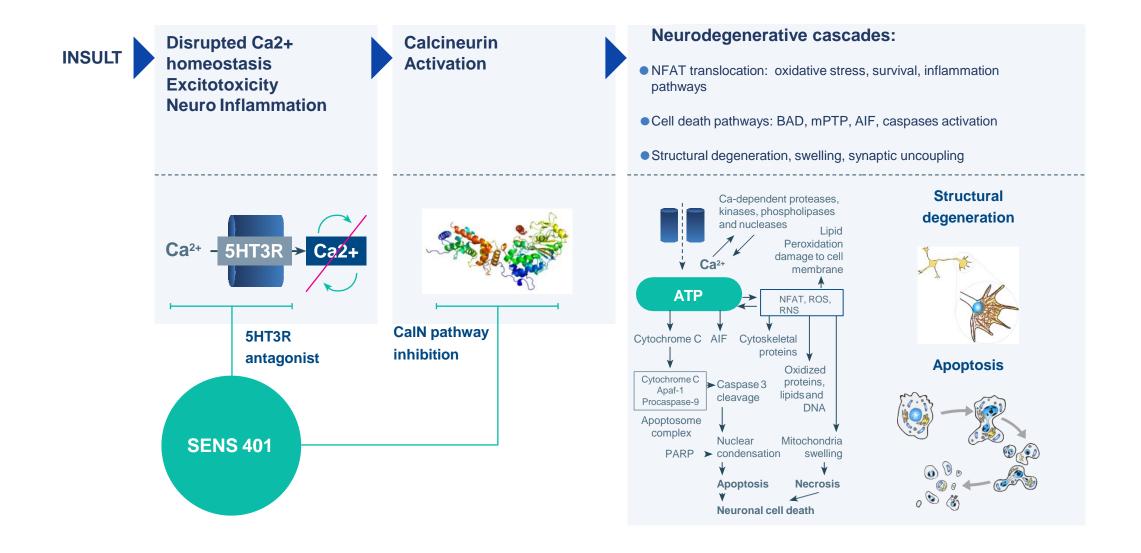
Access And Clarity Are Mandatory For Optimal Outcomes







SENS-401 Mechanism Of Action



Copyright by Sensorion - 2023 - All Rights Reserved







Sudden Sensorineural Hearing Loss (SSNHL) is a Severe Disease Affecting more than 200,000 Patients Per Year

WHAT IS SSNHL?

The sudden onset of a significant hearing loss due to dysfunction of the cells of the cochlea and central auditory structures.

Hearing loss develops over less than 72 hrs, hearing sensitivity is reduced by at least 30 dB (1,000 fold) in the affected ear(s).

>70% of cases are idiopathic, known causes include noise/head trauma, ischemia, infection.

>50% of patients suffer from permanent disabling hearing loss, mostly those with initial severe/profound hearing loss.

Complications significantly impact quality of life due to:

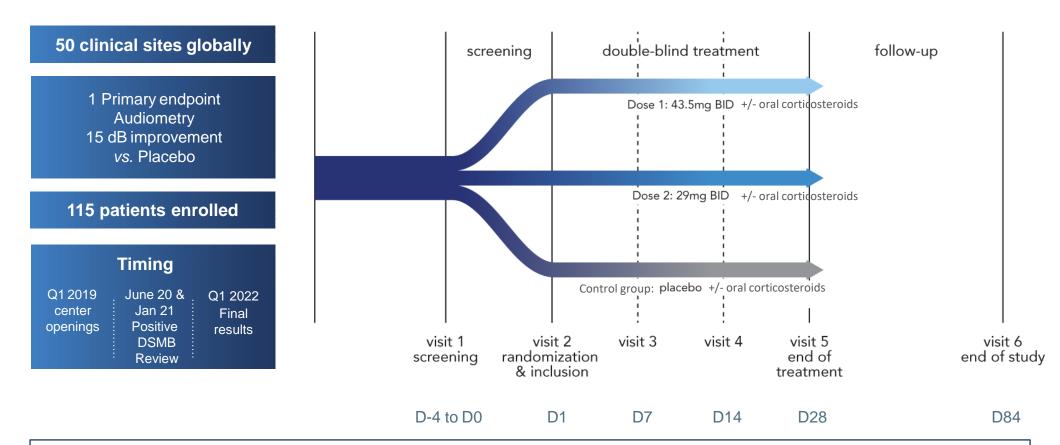
- Difficulties in communicating, social isolation, cognitive decline
- Accompanying tinnitus

Incidence: 27-35 per 100,000 (218,000 patients in 2017 in G7 countries)¹

¹ Company/ estimates based on publicly available data (in the US, Japan, Germany, France, the UK, Italy and Spain)

SENS-401 SSNHL Program: AUDIBLE-S Phase 2 Design

A RANDOMIZED, MULTICENTER, DOUBLE-BLIND, PLACEBO-CONTROLLED TRIAL

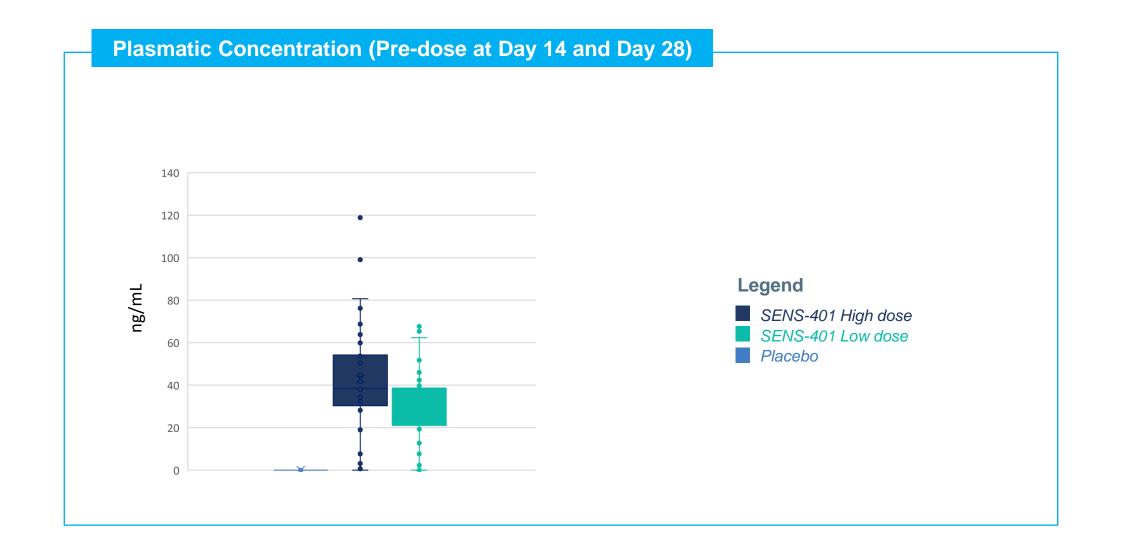


Primary endpoint definition:

"...change in pure tone audiometry (PTA); average of the hearing threshold of 3 contiguous most affected hearing frequencies in decibels in the affected ear from baseline to the end of treatment visit (Visit 5/D28±3)"

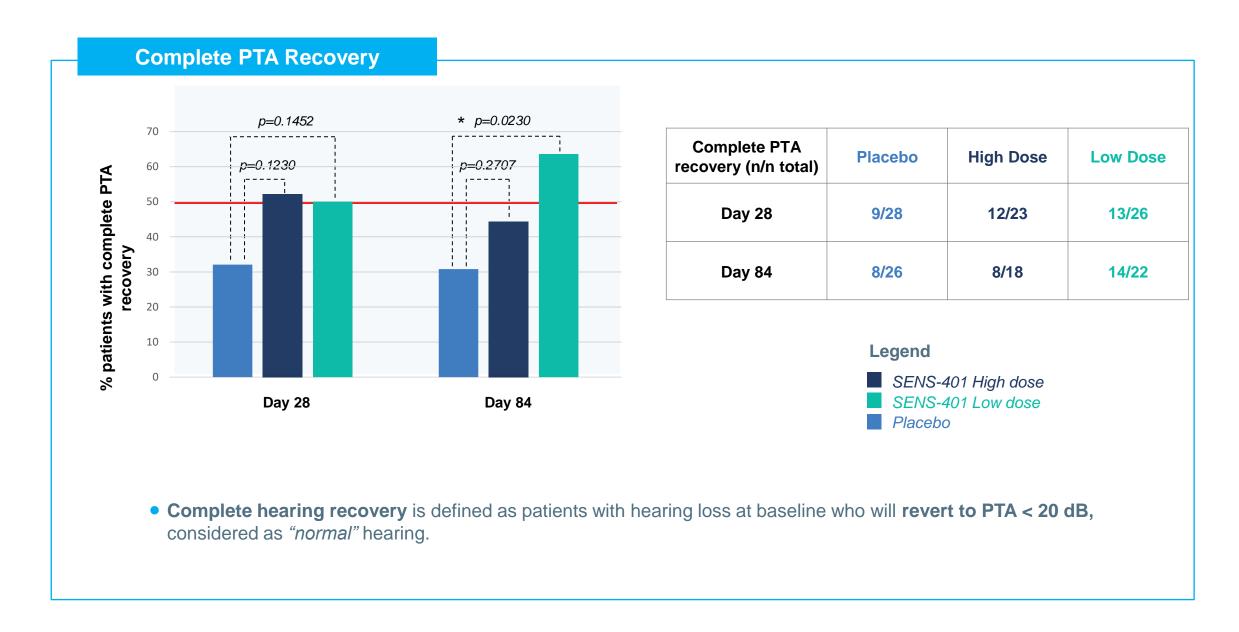
Copyright by Sensorion - 2024 - All Rights Reserved

SENS-401 Plasmatic Exposure



Copyright by Sensorion - 2024 - All Rights Reserved

SENS-401 Induces Complete PTA Recovery In 50% Of Patients



Copyright by **Sensorion** - 2024 - All Rights Reserved



SENS-401 SSNHL Phase 2 Results Summary

Seeking Partners For Late-Stage Development And Commercialization

AUDIBLE-S SECONDARY ENDPOINT RESULTS

- Complete PTA recovery is achieved in 50% of the SENS-401 treated patients
- SENS-401 shows a clinically meaningful and statistically significant effect on PTA change (at least 10 dB) over time in a large homogeneous idiopathic population of patients treated with corticosteroids
- SENS-401 induces a significative PTA change of at least 19 dB at day 28 and up to 25 dB at Day 84 allowing a reduction of the hearing loss degree from profound to mild, in large profound hearing loss sub-group
- A better response was observed in both treatment groups with a continuous improvement between Day 28 and Day 84
- The change in PTA translates into functional improvement evidenced with speech audiometry tests
- Safe and well tolerated in 115-patient SSNHL study; although primary endpoint not met data supports and informs further clinical development
- Responder rate is always better in the treated group compared to Placebo and difference with Placebo increases over time

52

Copyright by **Sensorion** - 2024 - All Rights Reserved