

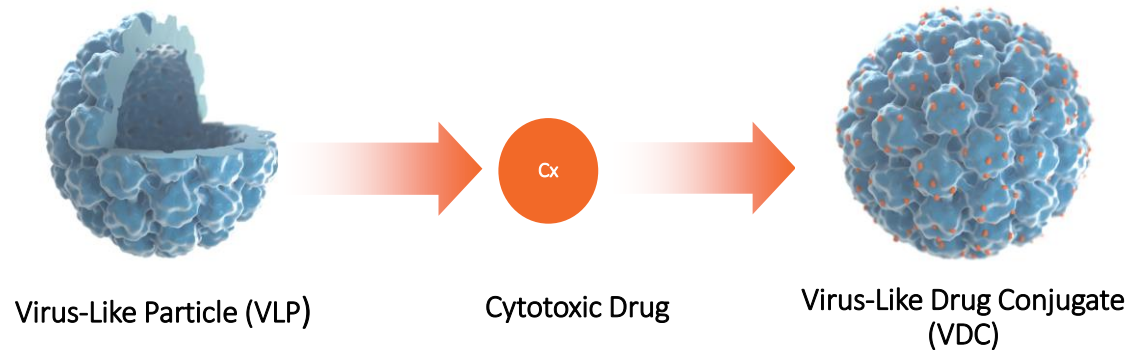
EURETINA
2022

Clinical Evaluation of Belzupacap Sarotalocan (AU-011), a First-in-Class Targeted Therapy for Choroidal Melanoma with Intravitreal or Suprachoroidal Route of Administration

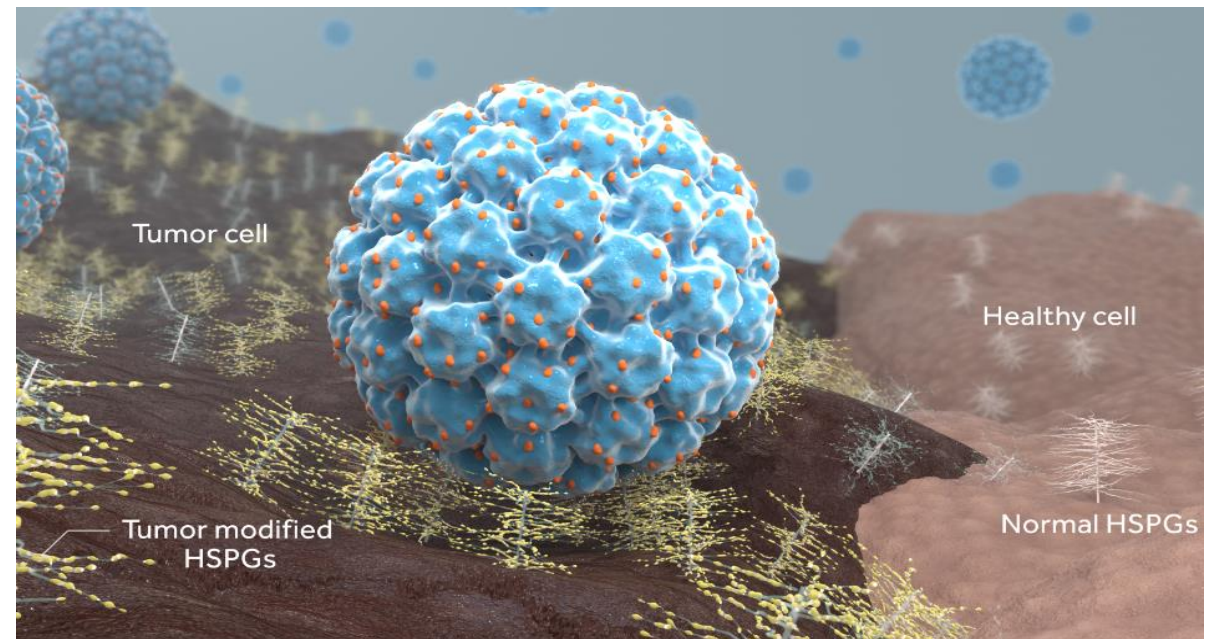
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Leiden University

Targeted Oncology Platform - Virus-Like Drug Conjugates (VDCs)

Virus-Like Particles Conjugated to a Cytotoxic Payload to form the VDC

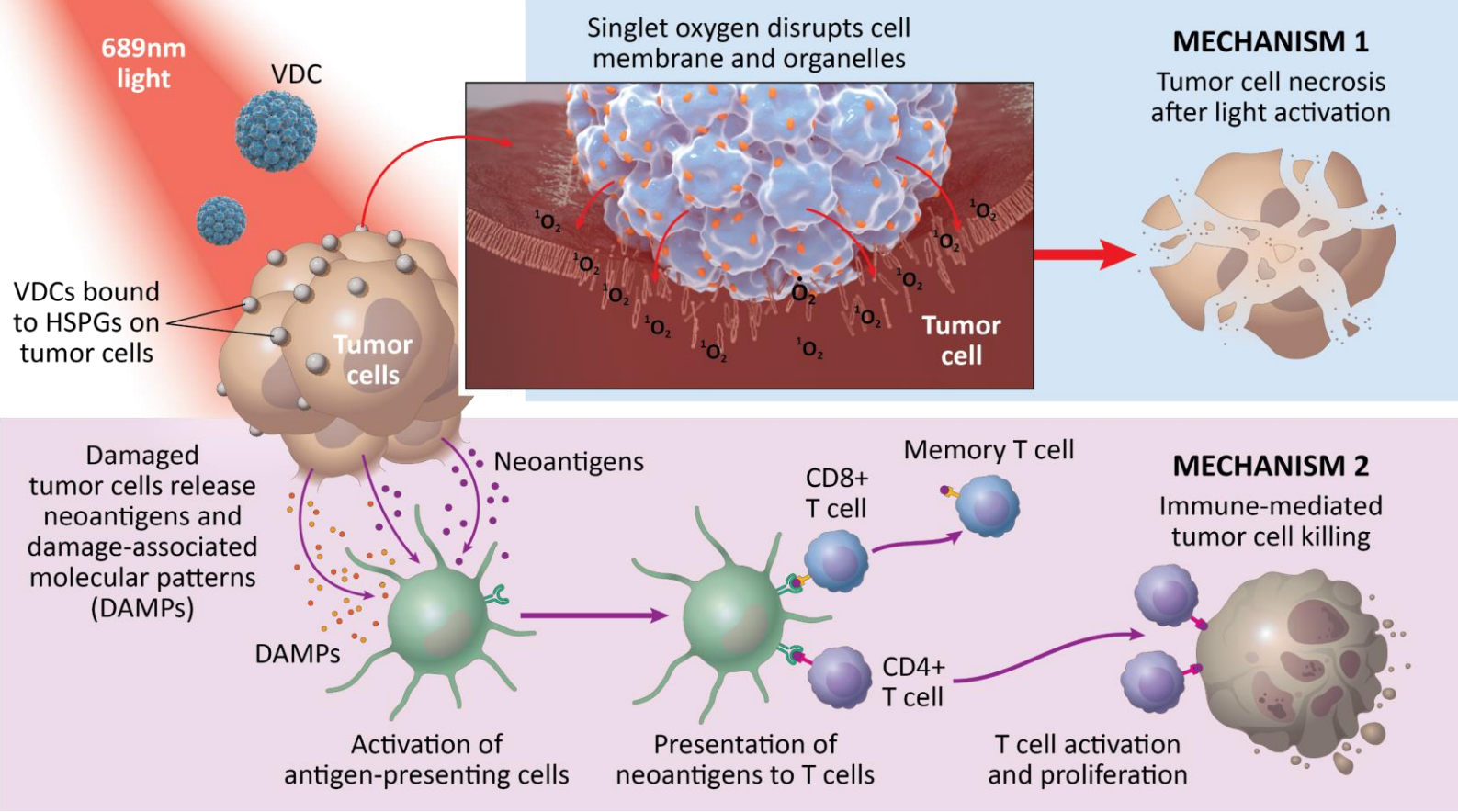


VDCs can Recognize Tumor Associated HSPGs*



Technology Platform Designed to Target a Broad Range of Solid Tumors Based on Virus-Like Particles with Multiple Options for Cytotoxic Payloads

Belzupacap Sarotalocan (AU-011) is a VDC with a Novel Dual Mechanism of Action



Potential Key Differentiation: Physical Ablation May Reduce Risk to Develop Resistance and is Genetic Mutation Agnostic

Completed Phase 1b/2* – Key Patient Populations and Objectives

All Patients Enrolled with Clinical Diagnosis of Choroidal Melanoma or Indeterminate Lesions

Safety Evaluation
(All Treated)

Efficacy Evaluation
Therapeutic Regimen (2 Cycles)

All Treated
Patients

All Patients Treated
with 2 Cycles

All Patients with Small
Tumors with Active Growth
Treated with 2 Cycles

n=56

n=20

n=14

Primary Objective: Safety

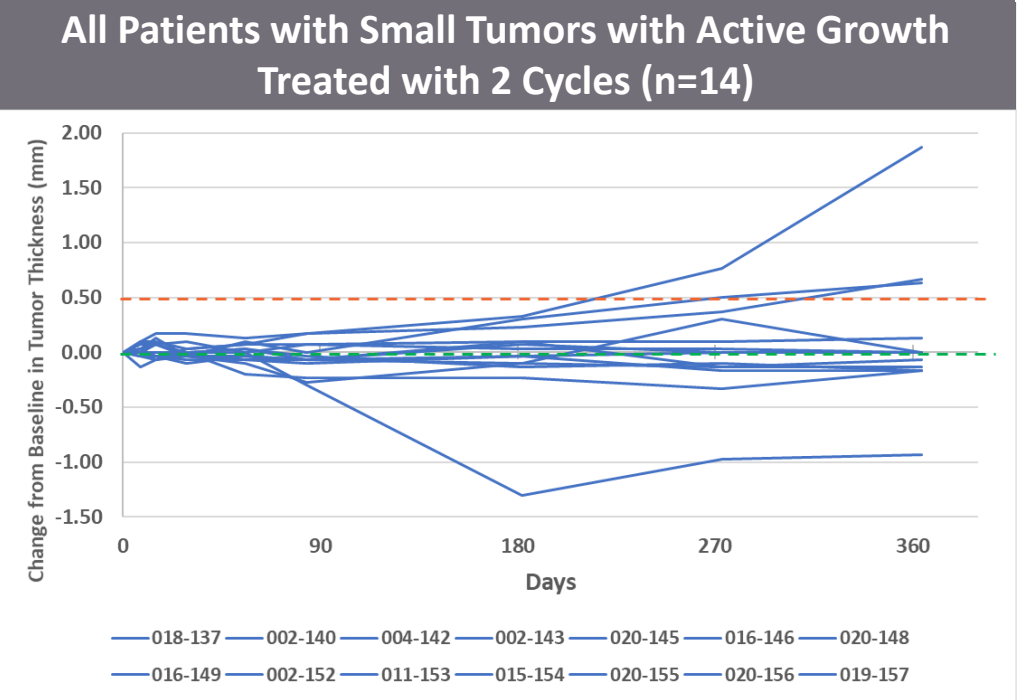
- Drug or treatment related adverse events (AEs) / serious adverse events (SAEs)

Secondary Objective: Efficacy

- Tumor thickness growth rate before and after treatment
- Local tumor control
- Visual acuity preservation
- $\geq 0.3\text{mm}$ tumors thickness within 2 years of screening

All Subjects Evaluated for Safety and Efficacy
Subjects with Small Tumors with Active Growth Treated with Two Cycles Evaluated for Efficacy

Phase 1b/2 – Tumor Control Achieved with Therapeutic Regimen



Change from Baseline in Tumor Thickness Over 12 Months

----- Progression Definition Tumor Height Increase >0.5mm
 Completed Ph1b/2 IVT trial (AU-011-101), post-SOC data not included

| Tumor Control Rate at 12 months | | |
|---|--------------------|-----------------------------------|
| Populations | Total Patients (n) | Tumor Control Rate (at 12 months) |
| All Doses/Regimens | | |
| All Treated Patients | 56 | 54% (30/56) |
| Lower Doses/Regimens | | |
| All Treated Patients up to 1 Cycle (Cohorts 1-9) | 36 | 44% (16/36) |
| Therapeutic Dose/Regimen - 2 Cycles | | |
| All Patients | 20 | 70% (14/20) |
| All Patients with Small Tumors with Active Growth | 14 | 64% (9/14) |

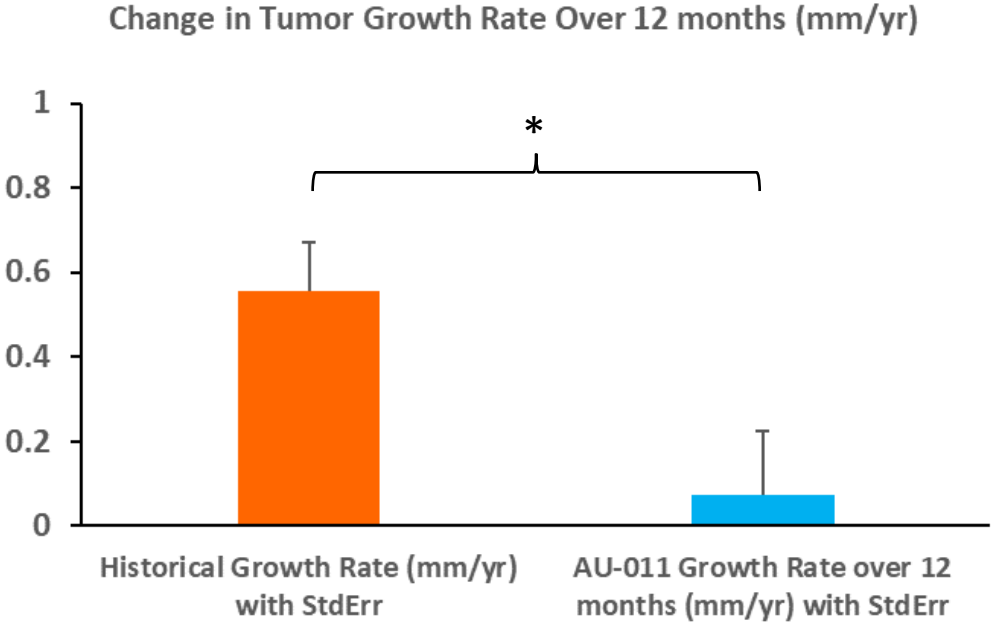


Tumor control failure (progression): Growth from baseline in Tumor Height >0.5mm or LBD >1.0mm due to definitive Tumor Growth (ie, not judged by the Investigator to be due to inflammation/swelling, hemorrhage or pigmentary changes) and not treated with standard of care

Results Support the Potential Use of Belzupacap Sarotalocan as First Line Treatment for Choroidal Melanoma, Potentially Avoiding the Need for Radiotherapy in Many Patients

Phase 1b/2 – Statistically Significant Growth Rate Reduction

Change in Tumor Growth (mm/yr) Small Tumors with Active Growth (n=14)



* p=0.018, n=14
Completed Ph1b/2 IVT trial (AU-011-101)

Change in Tumor Growth Follow up 12 months

| | n | Historical Growth Rate (mm/yr) | AU-011 Growth Rate (mm/yr) 12 months | Growth Rate Reduction (mm/yr) | p-value |
|---|----|--------------------------------|--------------------------------------|-------------------------------|---------|
| Active Growth/Therapeutic Regimen - 2 Cycles | | | | | |
| Patients with Small Tumors with Active Growth | 14 | 0.555 | 0.072 | -0.483 | 0.0180 |

Tumor thickness growth rates/ slopes estimated using MMRM

- Many patients had a zero or negative growth rate after treatment with belzupacap sarotalocan
- Disease-modifying effect supports tumor is inactive and malignant cells have been targeted by belzupacap sarotalocan

Reduction in Tumor Growth Rate is Statistically Significant and Supports Planned Pivotal Key Endpoint

Phase 1b/2 – Visual Acuity was Preserved in Majority of Patients

Vision Preservation Rates

Follow up 12 months

| Populations | Total Patients (n) | Vision Preservation Rate Failure: Long term loss ≥ 15 letters |
|---|--------------------|---|
| All Dose Cohorts | | |
| All Treated Patients | 56 | 86% (48/56) |
| Patients with Active Growth - High Risk for Vision Loss | 17 | 76% (13/17) |
| Therapeutic Regimen (2 cycles) | | |
| All Treated Patients | 20 | 75% (15/20) |
| Patients with Active Growth | 14 | 71% (10/14) |

- Vision loss was transient but recovered in most patients after inflammation or transient AEs resolved
- Vision was preserved in most patients with tumors near the fovea or optic nerve that had a high risk for vision loss

1 patient had loss ≥ 15 letters at Week 52 visit which recovered within 15 letters at the next visit which was ~3 weeks after standard of care (SOC); all other post-SOC data excluded for all subjects
Completed Ph1b/2 IVT trial (AU-011-101)

Vision Loss was Transient but Recovered in Most Patients after AE Resolution
Vision was Preserved in a Majority of Patients

Ph 1b/2 Safety: Belzupacap Sarotalocan was Well Tolerated

Majority of Adverse Events (AEs) were Transient and Managed with Standard of Care Treatment

| All Treated Subjects (n=56) Key Treatment Related Adverse Events (≥10% Subjects) | Grade I | Grade II | Grade III | Total |
|---|---------|----------|-----------|-------|
| Vitreous Inflammation | 25% | 58.9%* | 7.1% | 91% |
| Anterior Chamber Inflammation | 37.5% | 30.4% | 3.6% | 71.5% |
| Increase in Intraocular Pressure | 21.4% | 25% | 0 | 46.4% |
| Peritumoral RPE/ Pigmentary Changes | 32.1% | 5.4% | 0 | 37.5% |
| Keratic Precipitates | 21.4% | 1.8% | 0 | 23.2% |
| Floaters/ Vitreous Opacity | 16.1% | 3.6% | 1.8%* | 21.4% |
| Decreased Visual Acuity/ Vision Loss | 7.1% | 12.5% | 1.8%^ | 21.4% |
| Eye Pain/ Soreness | 8.9% | 5.4% | 0 | 14.3% |
| Corneal Abrasion/ Epithelial Defect | 1.8% | 8.9% | 0 | 10.7% |
| Corneal Edema | 10.7% | 0 | 0 | 10.7% |

Treatment Related Serious Adverse Events (n=56)

| | | | | |
|---------------------------------|--|--|------|------|
| Vision Loss (juxtafoveal tumor) | | | 3.6% | 3.6% |
|---------------------------------|--|--|------|------|

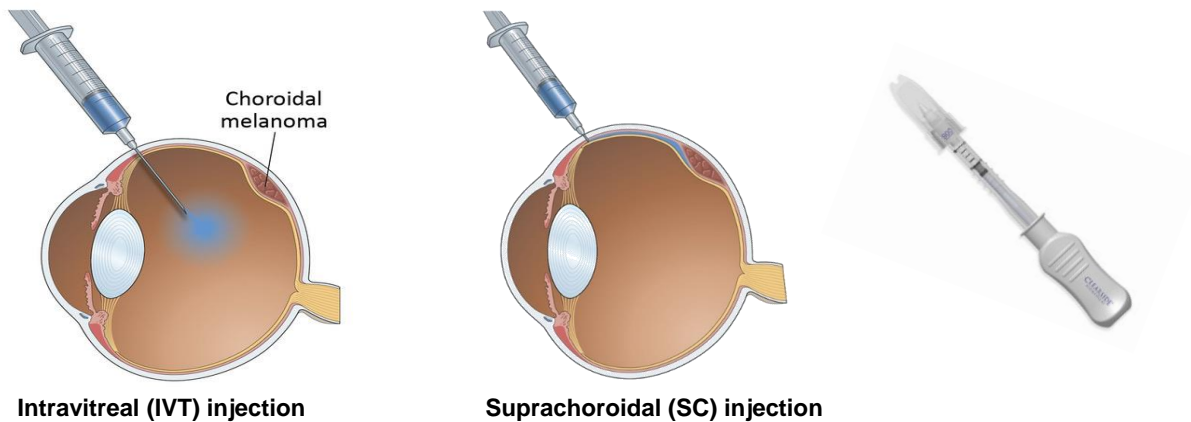
Table presents percentage of subjects with AEs related to AU-011 or laser by severity and overall; subjects with more than 1 AE are counted in the highest severity group

Anterior inflammation, keratic precipitates treated with topical steroid drops; vitreous inflammation treated with topical, oral or peri- or intraocular steroids; IOP treated with topical anti-hypertensives

*2 subjects treated with vitrectomy – 1 with vitreous opacity and another with persistent vitreous inflammation

^SAEs are listed separately

Suprachoroidal Administration Optimizes Delivery to the Posterior Segment – More Targeted Delivery to the Tumor



Optimize therapeutic index

- 5x higher tumor exposure with SC versus IVT observed in pre-clinical model
- Lower levels in the vitreous translates into lower risk of Intraocular Inflammation and vitreous floaters

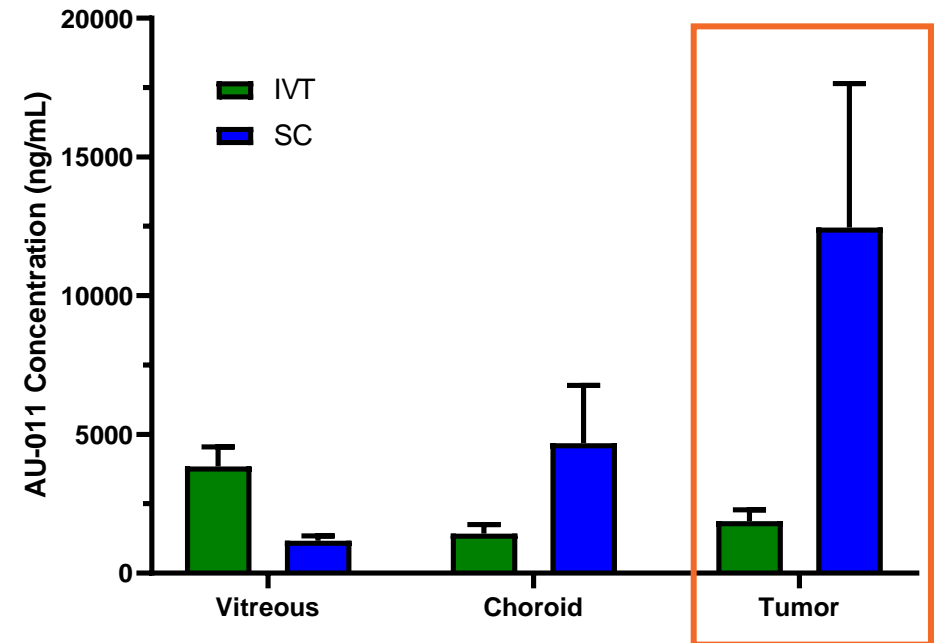
Optimize treatment parameters

- Shorter time to laser activation

May increase potential patient population

- Medium choroidal tumors
- Choroidal Metastases

Ocular Exposure After IVT or SC Injection*

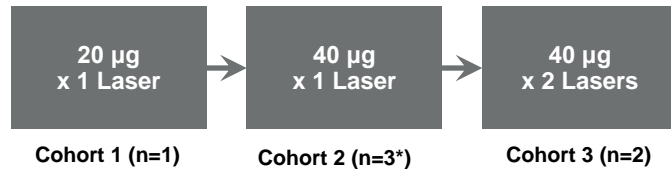


PK studies in rabbit tumor model demonstrate higher tumor bioavailability with SC administration

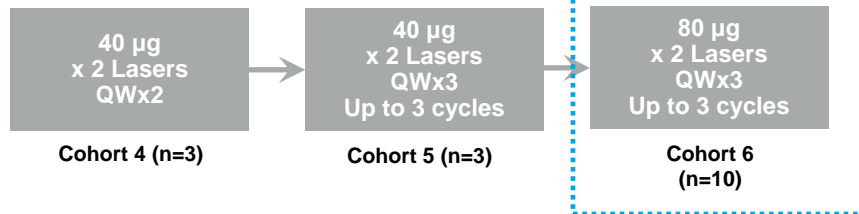
Evaluating Suprachoroidal Administration to Determine Optimal Administration Route for Pivotal Trial

Ph 2 SC Trial Design: Dose Escalation Phase

Single Dose Cohorts – Completed



Multiple Dose Cohorts

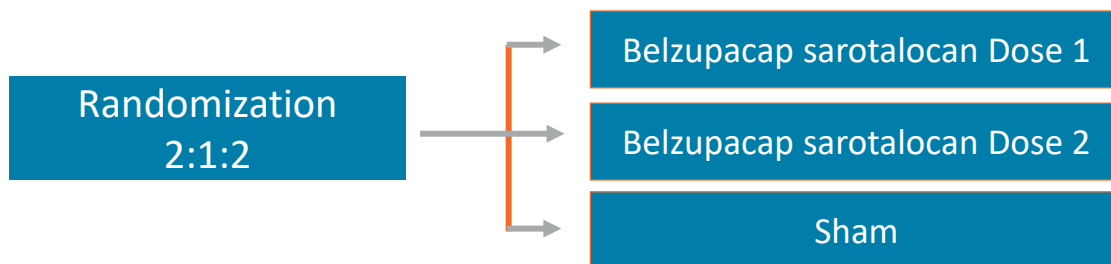


18 subjects enrolled

- Cohort 6 currently enrolling
- 80µg dose and 3 cycles of therapy
 - Tumor thickness ≥ 0.5 mm and ≤ 2.5 mm
 - LBD ≤ 10 mm
 - Tumor growth within 3 mo -2 years of screening
 - Growth rate ≥ 0.2 mm/yr and < 1.5 mm/yr
 - 6 subjects

Objective:

- Determine the optimal dose and therapeutic regimen with suprachoroidal administration
- Apply route, dose and regimen to pivotal portion of the trial



*2 subjects were planned; third subject was additionally enrolled due to dose error in 1 subject

Phase 2 SC – Demonstrated Favorable Safety Profile To Date

Preliminary results

| All Treated Subjects (n=18) Treatment Related Adverse Events (>5%) | Grade I | Grade II | Grade III | Total |
|---|---------|----------|-----------|-------|
| Anterior chamber cell/ inflammation | 22.2% | 0 | 0 | 22.2% |
| Conjunctival edema | 5.6% | 0 | 0 | 5.6% |
| Conjunctival hyperemia | 16.7% | 0 | 0 | 16.7% |
| Cystoid macular edema | 5.6% | 0 | 0 | 5.6% |
| Eye pain | 5.6% | 5.6% | 0 | 11.1% |
| Eyelid edema | 5.6% | 0 | 0 | 5.6% |
| Ocular discomfort | 5.6% | 0 | 0 | 5.6% |
| Photophobia | 5.6% | 0 | 0 | 5.6% |
| Punctate keratitis | 11.1% | 0 | 0 | 11.1% |
| Pupils unequal | 5.6% | 0 | 0 | 5.6% |
| Retinal pigment epitheliopathy | 5.6% | 0 | 0 | 5.6% |
| Salivary gland enlargement* | 0 | 5.6% | 0 | 5.6% |
| Vision blurred | 5.6% | 0 | 0 | 5.6% |
| Afferent pupillary defect (term not coded yet) | 5.6% | 0 | 0 | 5.6% |

Table presents percentage of subjects with AEs related to AU-011 or laser by severity and overall; subjects with more than 1 AE are counted in the highest severity group
Data cutoff Jun 1, 2022

*Likely related to COVID vaccine per investigator

- Majority of AEs were transient and resolved without clinical sequelae
- No DLTs[†], no significant vitritis to date through 3 cycles with 80 µg of belzupacap sarotalocan
- 4 moderate severity events related to injection procedure - scleritis, subconjunctival hemorrhage, conjunctival edema and eye irritation. All other injection related events were mild
- 6 non-treatment related SAEs reported in 3 subjects[^]
- No pigmentary changes observed at edge of tumor treatment

Favorable Tolerability in Early Cohorts with no Related SAEs/DLTs Observed to Date

[†] DLTs: Dose Limiting Toxicities, [^] retinal detachment, ischemic CRVO, brain abscess, deep vein thrombosis, sarcoma, seizure

Belzupacap Sarotalocan Ocular Oncology Development Program

Choroidal Melanoma

Demonstrated safety and efficacy with IVT and safety with SC supports starting a pivotal trial in primary indeterminate lesions and small choroidal melanoma

The American Academy of Ophthalmology
2021 Annual Meeting, 2021. Abstract PA054.

Choroidal Metastasis (CMets)

Dose-dependent activity in vivo using syngeneic mouse models for cancer types known to metastasize to the choroid

- Significantly inhibits tumor growth and prolongs survival
- Statistically significant results in multiple tumor models seen in CMets (breast, lung, etc.)

Investigative Ophthalmology & Visual Science 63.7 (2022): 2616-2616.

In Combination with ICIs*

Belzupacap sarotalocan plus ICIs (anti-PD-L1 & anti-LAG-3) showed potential to induce complete and lasting tumor responses in both primary and distant tumors in murine models – to be presented in detail tomorrow

*ICIs – immune checkpoint inhibitors

J Clin Oncol 40, 2022 (suppl 16; abstr e14544)

Study Results Support Further Evaluation Of Belzupacap Sarotalocan As a Potential Treatment For Ocular Cancers