

## **CORPORATE PRESENTATION**

June 2021

NASDAQ: OTLK

outlooktherapeutics.com

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Late clinical-stage biopharmaceutical company working to develop the first FDA-approved ophthalmic formulation of bevacizumab for use in retinal indications.



### Investment Highlights Advancing on Multiple Fronts Towards Potential FDA Approval



Potential FDA approval in wet AMD in 2022 with lead investigational product candidate ONS-5010 ophthalmic bevacizumab<sup>1</sup> targeting \$13.1 billion global ophthalmic anti-VEGF market<sup>2</sup>

### Phase 3 Clinical Program

 Ongoing Phase 3 pivotal trial with topline data expected Q3 2021



### **Commercial Planning Activities Underway**

- Market research indicates ONS-5010 ophthalmic bevacizumab, if approved, will be a significant therapy in ophthalmic anti-VEGF market
- Full launch readiness underway

### **Manufacturing and Regulatory**



- Partnered with Fujifilm and Ajinomoto as best-in-class cGMP global manufacturers
- ONS-5010 ophthalmic bevacizumab will be submitted as a new BLA, with 12 years of regulatory exclusivity

#### **Strategic Optionality**

- Launching at Outlook Therapeutics, but also...
- Evaluating options with a strategic partner

TLOOK 1: ONS-5010 / LYTENAVA™ (bevacizumab-vikg) is an investigational ophthalmic formulation of bevacizumab
CAPEUTICS 2: Guidehouse Triangulation of Global Data, Market Scope and Investor Forecasts (2020);\*9MM is US, EU5, Japan, China & Australia

## Leadership Team: Global Ophthalmic Development and Commercial Launch Excellence





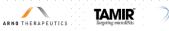
JEFF EVANSON **Chief Commercial Officer** 



**TERRY DAGNON** 

**Chief Operating Officer** 

LAWRENCE KENYON President, CEO, CFO







UNOVARTIS Alcon Johnson-Johnson









DOHMEN

**RANDY THURMAN** Executive Chairman of the Board



MARK HUMAYUN, MD, PhD Medical Advisor





## **ONS-5010**

Addresses Significant Unmet Medical Need in a \$13.1 Billion Global Ophthalmic Anti-VEGF Market



# Anti-VEGF Therapy Has Been Standard of Care Since the Launch of LUCENTIS® and Use of Off-Label Bevacizumab

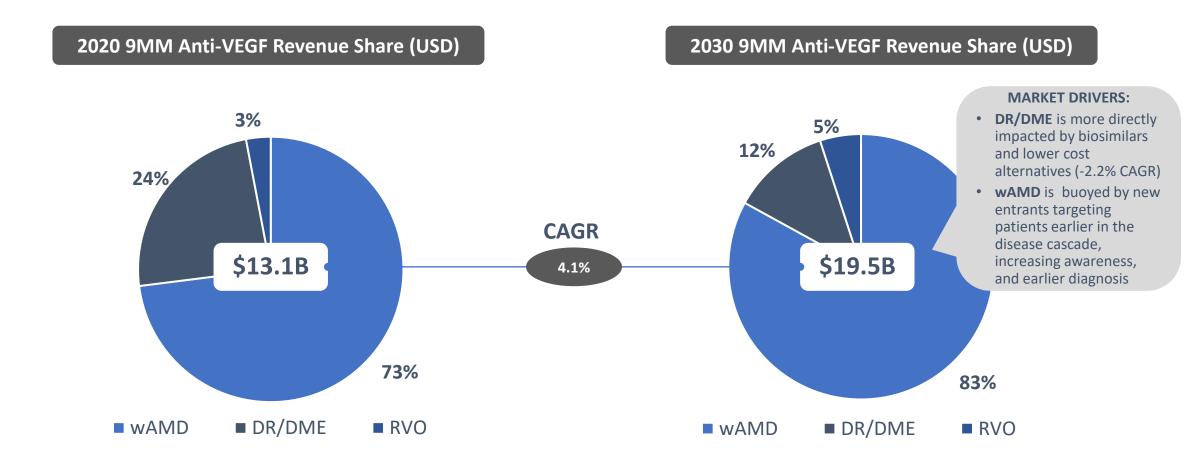
CATT IND Study Validated Bevacizumab as Safe and Effective (2011)





## **Targeting Large and Growing Ophthalmic Markets**

ONS-5010, if approved, will be a significant therapy in the retinal anti-VEGF market, currently estimated to be in excess of \$13.1 billion worldwide





Sources: Guidehouse Triangulation of Global Data, Market Scope and Investor Forecasts (2020);\*9MM is US, EU5, Japan, China & Australia AMD = Age-Related Macular Degeneration; DME = Diabetic Macular Edema ; BRVO = Branch Retinal Vein Occlusion

## **Unapproved Bevacizumab Represents 50% of U.S. Wet AMD Market**

	Anti-VEGF U.S. Market Share	in Wet AMD <sup>1</sup>	
	Used Off-Label		- 50%
(affibercept) Injection For intravitreal injection		36%	
	12%		
	1%		
Visudyne <sup>®</sup> verteporfin for injection	1%		

Expected Drivers to Compete Across All Ophthalmic Anti-VEGF Therapeutics







Penetrate EU and developing markets

## **ONS-5010**

Potential to be the first ophthalmic formulation of bevacizumab approved as an anti-VEGF therapy addressing vision loss from wet age-related macular degeneration (wet AMD)



### **Unapproved Repackaged IV Bevacizumab Presents Safety Issues**

If approved, ONS-5010 will reduce the need for use of unapproved repackaged IV Avastin<sup>®</sup> from compounding pharmacists

Variability in Potency<sup>1</sup>

- 81% of samples had lower protein concentrations than required
- Samples had statistically significant variations in protein concentration among samples

### JAMA Ophthalmology

### Safety and Sterility Adverse Events<sup>2</sup>

- Unvalidated hold times in syringes not designed to be primary packages
- Patients have lost eyesight due to infections
- Multiple unapproved repackaged IV bevacizumab recalls due to unsterile compounding practices



#### Warning Letter

### Syringe Malfunctioning<sup>3</sup>

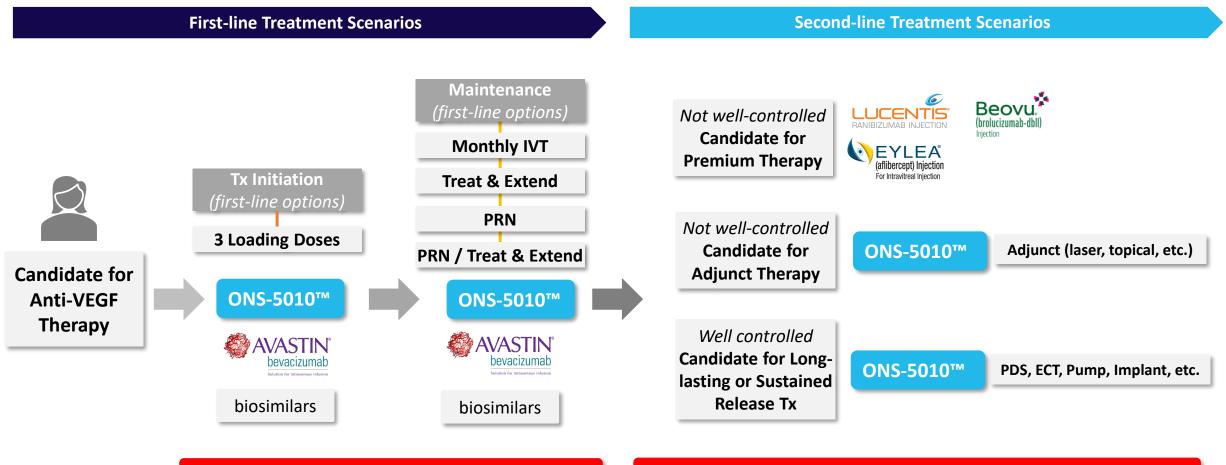
- Variability in repackaging can lower quality of syringe products, resulting in adverse events
- Silicone oil droplets may be released by the syringe into the eye





1: JAMA Ophthalmol. 2015 Jan;133(1):32-9. doi: 10.1001/jamaophthalmol.2014.3591; 2: Goldberg, Roger A et al. "An outbreak of streptococcus endophthalmitis after intravitreal injection of bevacizumab." American Journal of Ophthalmology vol. 153,2 (2012): 204-208.e1. doi:10.1016/j.ajo.2011.11.035; 3: ASRS Member Alert, April 2019

## Potential Use of ONS-5010 Ophthalmic Bevacizumab Across Wet AMD Treatment Spectrum

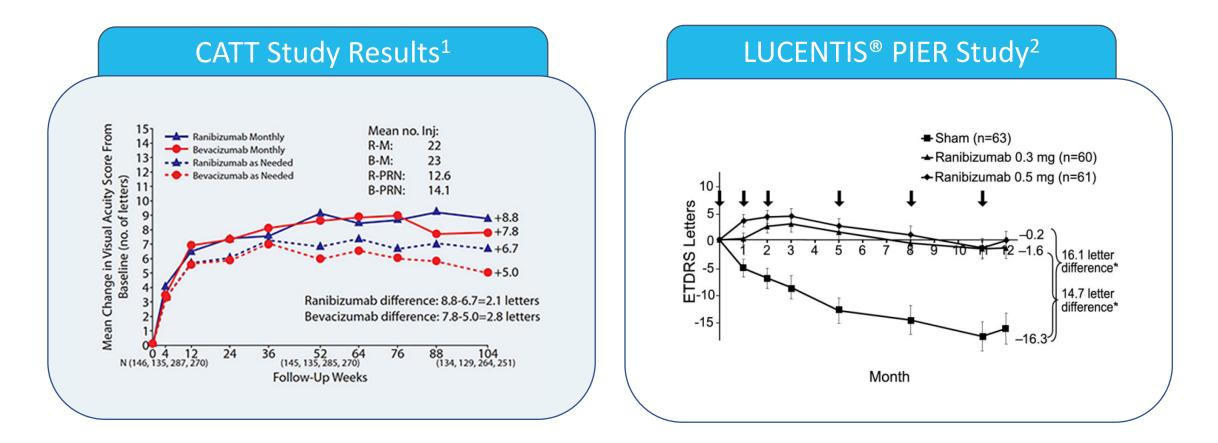


As option for Tx Guidelines and/or Step Edit

As synergistic option to future sustained delivery or adjunct therapies



# **Bevacizumab Demonstrated to be Equivalent to LUCENTIS® in CATT Trial**





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### Pathway Towards Planned BLA Filing in Wet AMD

U.S. BLA Filing Targeted Q1 2022

✓ Completed



**Completed Clinical Experience Trial** 1<sup>st</sup> Registration Trial Topline data expected Q3 2021



**Ongoing Pivotal Trial** 

2<sup>nd</sup> Registration Trial

✓ Completed



**Open-Label Safety Study** Supports BLA Requirements





## **Completed Clinical Experience Trial**

1<sup>st</sup> Registration Trial

Provided high level of confidence in the outcome of the ongoing fully-enrolled pivotal trial

Demonstrated anticipated safety and efficacy signals consistent with previously published results for ophthalmic bevacizumab

Provided successful proof of concept

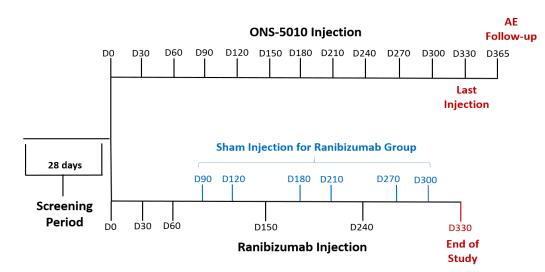
### **Trial Highlights:**

- Randomized masked controlled trial
- ONS-5010 vs LUCENTIS<sup>®</sup> (ranibizumab)
- 61 subjects enrolled
- Trial conducted in Australia
- Expected to support planned new U.S. BLA filing in Q1 2022



## **ONS-5010 Demonstrated Safety and Efficacy in Clinical Experience Trial**

**Title**: A clinical effectiveness, multicenter, randomized, double-masked, controlled trial of the efficacy and safety of ONS-5010 in subjects with subfoveal choroidal neovascularization (CNV) secondary to age-related macular degeneration



#### **Trial Design**

- 30 treatment-naïve or previously treated wet AMD patients per arm
- Baseline visual acuity 20/40 to 20/320
- ONS-5010 ophthalmic bevacizumab dosed monthly vs ranibizumab dosed 3 initial monthly injections, followed by quarterly dosing
- Efficacy read-out at the Month 11 visit

#### **Proof-of-Concept Achieved**

- Desired proportion of 3-line visual acuity gainers achieved
- Desired mean gain in visual acuity achieved
- Zero ocular inflammation observed
- In this trial, safety was comparable to published bevacizumab studies, such as CATT



## **Positive Results From Clinical Experience Trial**

- ONS-5010 demonstrated anticipated safety and efficacy signals consistent with previously published ophthalmic bevacizumab research
- No significant statistical differences in efficacy and safety
- Results provide support for the established design and protocol for ongoing U.S.-based Phase 3 pivotal trial
- No ocular adverse events of intraocular inflammation, vasculitis or retinal artery occlusion such as those recently reported for other anti-VEGFs in treating retinal diseases

Trial Enrollme	nt	ONS-5010 (N=31)	Ranibizumab (N=30)	Overall (N=61)
Prior	Yes	25 (80.6%)	15 (50.0%)	40 (65.6%)
Anti-VEGF Treatment	No	6 (19.4%)	15 (50.0%)	21 (34.4%)

Subgroup Analysis of Treatment- Naïve Subjects	ONS-5010	Ranibizumab
Subjects achieving > 15 letters BCVA at Month 11	2/6 (33%)	4/14 (28.6% )
Subgroup Analysis	ONS-5010	Ranibizumab

- ONS-5010 ITT 3-line Visual Acuity Gainers Subgroup Summary
  - Treatment-naïve ONS-5010: 2/6 33.3% (historical CATT 31% bevacizumab monthly historical PIER 13.1% ranibizumab quarterly historical EXCITE 14.2% ranibizumab quarterly)
  - Treatment-naïve & 20/50 or worse ONS-5010: 2/4 50% (historical CATT 31% bevacizumab monthly historical PIER 13.1% ranibizumab quarterly historical EXCITE 14.2% ranibizumab quarterly)
- ONS-5010 ITT BCVA Subgroup Summary
  - Treatment-naïve +7.3 letters (historical CATT +8.0)
  - Treatment-naïve & 20/50 or worse +8.3 letters (historical CATT +8.0)







**Enrollment completed** 

Topline data expected Q3 2021

### Trial Highlights:

- Randomized masked controlled trial
- ONS-5010 ophthalmic bevacizumab vs LUCENTIS® (ranibizumab)
- 228 patients enrolled
- Trial conducted in the United States
- Both trial arms include predominantly treatment-naïve patients with baseline VA less than 20/50 at trial start
- Safety & efficacy data expected to support planned new U.S. BLA filing in Q1 2022



## **Ongoing Pivotal Trial Design Informed by Clinical Experience Trial –** With Larger Sample Size



Randomized masked controlled trial with 228 subjects



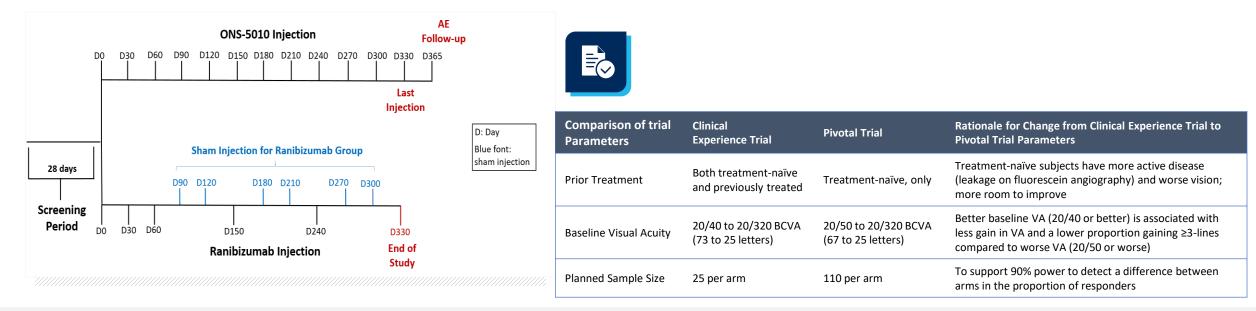
ONS-5010 ophthalmic bevacizumab administered monthly X 12



LUCENTIS dosing arm (PIER dosing) – Three initial monthly injections followed by fixed quarterly dosing



Primary endpoint difference in proportion of subjects gaining 15 letters of BCVA at Day 330





## NORSE THREE

## Completed

## **Open-Label Safety Study**

### **Supports BLA Requirements**

Positive safety profile reported in NORSE 3 reinforces previously reported safety data for ONS-5010 ophthalmic bevacizumab

No unexpected safety trends, safety profile consistent with prior published data on the use of bevacizumab for ophthalmic conditions

Zero cases of ocular inflammation in NORSE 3, a concern that has emerged for other anti-VEGF therapies to treat retinal conditions

### Trial Highlights:

- Open-label safety study
- Enrolled 197 subjects with wet age-related macular degeneration (wet AMD), diabetic macular edema (DME) or branch retinal vein occlusion (BRVO)
- Subjects received three doses of ONS-5010 ophthalmic bevacizumab over a three-month period
- Conducted to ensure adequate number of safety exposures to ONS-5010 ophthalmic bevacizumab



## **Commercial Planning Activities Underway**



With an enhanced safety and cost-effectiveness profile, Outlook Therapeutics expects ONS-5010 ophthalmic bevacizumab, if approved, to be widely adopted by payors and clinicians worldwide and to become the first-line drug of choice for payor-mandated "step edit" in the United States for retinal indications



Physician and Patient Outreach



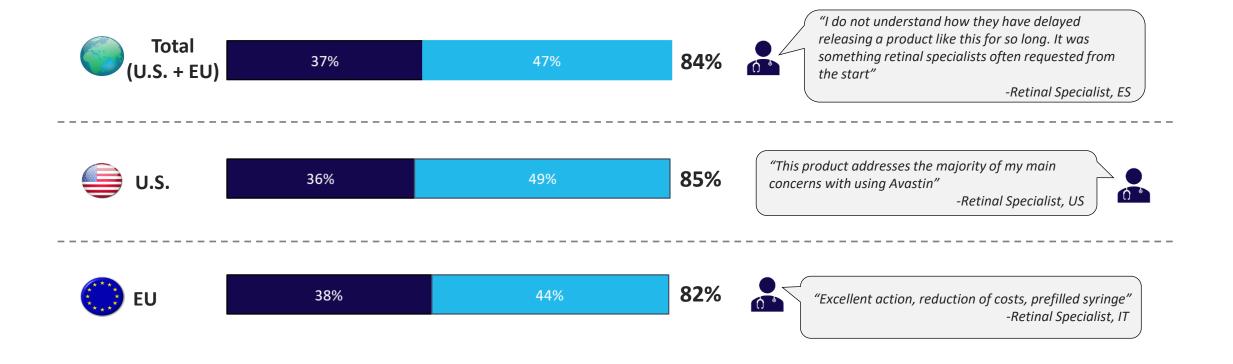
Aligning Key Opinion Leaders

Payor Community Engagement



## **Physicians Want Approved Bevacizumab**

>80% of retinal specialists express interest in an FDA-approved ophthalmic bevacizumab to treat wet AMD, DME and BRVO





Source: Navigant Quantitative Survey (n=152), 2019 \*Other survey options not shown were "neutral, not likely to use, and not interested at all"

## Manufacturing and Regulatory Progress Towards Commercialization



### Manufacturing

Best-in-class cGMP manufacturing partners



### **Pre-Filled Syringes**

Supply agreement for a best-inclass pre-filled ophthalmic syringe



### Regulatory

Tentatively granted ATC code for ophthalmic bevacizumab



Company Highlights

- Lead product candidate ONS-5010 has potential to be the first FDA-approved ophthalmic formulation of bevacizumab for use in multiple retinal indications
- **Strong physician and payor support**, for an approved, responsibly priced, cGMP ophthalmic bevacizumab
- Pivotal Phase 3 clinical data to be reported in calendar Q3 2021

• BLA submission planned for wet AMD in calendar Q1 2022

 Management team with extensive commercial, R&D and regulatory ophthalmology experience

