



CORPORATE PRESENTATION

March 2020

DISCLAIMER

This presentation contains forward-looking statements about Outlook Therapeutics, Inc. (“Outlook Therapeutics” or the “Company”) based on management’s current expectations, which are subject to known and unknown uncertainties and risks. Words such as “anticipated,” “initiate,” “expect,” “intend,” “plan,” “believe,” “seek,” “estimate,” “may,” “will,” and variations of these words or similar expressions are intended to identify forward-looking statements. These forward-looking statements include statements regarding our expectations for ONS-5010 market exclusivity, its ability to replace and address issues with off-label use of Avastin, other drug candidates in development, commercial drivers for ONS-5010 and its potential, as well as the success of ongoing ONS-5010 trials for wet AMD and regarding planned trials for ONS-5010 for DME and BRVO. Our actual results could differ materially from those discussed due to a number of factors, including, but not limited to, the risks inherent in developing pharmaceutical product candidates, conducting successful clinical trials, and obtaining regulatory approvals, as well as our ability to raise additional equity and debt financing on favorable terms, among other risk factors. These risks are described in more detail under the caption “Risk Factors” in our Annual Report on Form 10-K and other filings with the Securities and Exchange Commission (“SEC”). Moreover, Outlook Therapeutics operates in a very competitive and rapidly changing environment. New risks emerge from time to time. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statement. In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this presentation may not occur and actual results could differ materially and adversely from those anticipated or implied.

Except as required by law, neither Outlook Therapeutics nor any other person assumes responsibility for the accuracy and completeness of the forward-looking statements. We are providing this information as of the date of this presentation and do not undertake any obligation to update any forward-looking statements contained in this presentation as a result of new information, future events or otherwise. This presentation contains trademarks, registered marks and trade names of Outlook Therapeutics and of other companies. All such trademarks, registered marks and trade names are the property of their respective holders.

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

Investment Highlights



Potential FDA approval in wet AMD in 2022 with lead product candidate, ONS-5010 / LYTENAVA™ (bevacizumab-vikg)¹, an investigational ophthalmic formulation of bevacizumab



Bevacizumab was seen to be effective in CATT Trial

- Bevacizumab is widely accepted and used off-label for wet AMD



Well-Defined Regulatory Pathway

- PHSA 351 (a) New BLA
- Provides potential for 12 years of market exclusivity



Targeting \$9.1 Billion Anti-VEGF Market²

- Lead Indication: wet AMD
- Follow-on indications: DME, BRVO

Leadership Team: Global Ophthalmic Development and Commercial Launch Excellence



LAWRENCE KENYON
President, CEO, CFO



JEFF EVANSON
Chief Commercial Officer



TERRY DAGNON
Chief Operating Officer



RANDY THURMAN
Executive Chairman of the Board



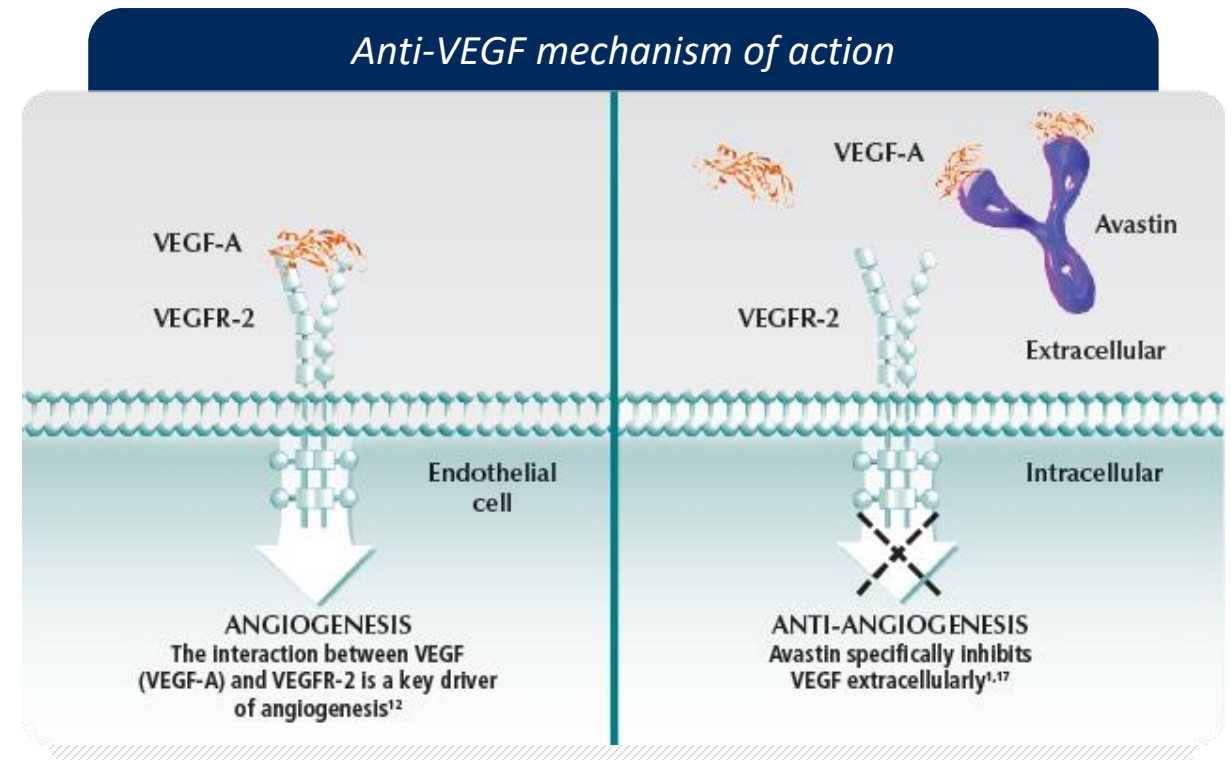
MARK HUMAYUN, MD PhD
Medical Advisor



Standard of Care in Wet AMD

ONS-5010 / LYTENAVA™, if approved, will be the first on-label ophthalmic formulation of bevacizumab

- ❑ Anti-VEGF drugs have been standard of care since 2006
 - Block growth of abnormal blood vessels and leakage of fluid from the vessels behind the retina
- ❑ Several new clinical-stage anti-VEGF drugs, including biosimilars, in development and/or recently approved
 - Require significant time and capital to achieve commercialization
 - New drugs expected to price at or near the high price points of current approved therapies



Targeting Large Ophthalmic Markets

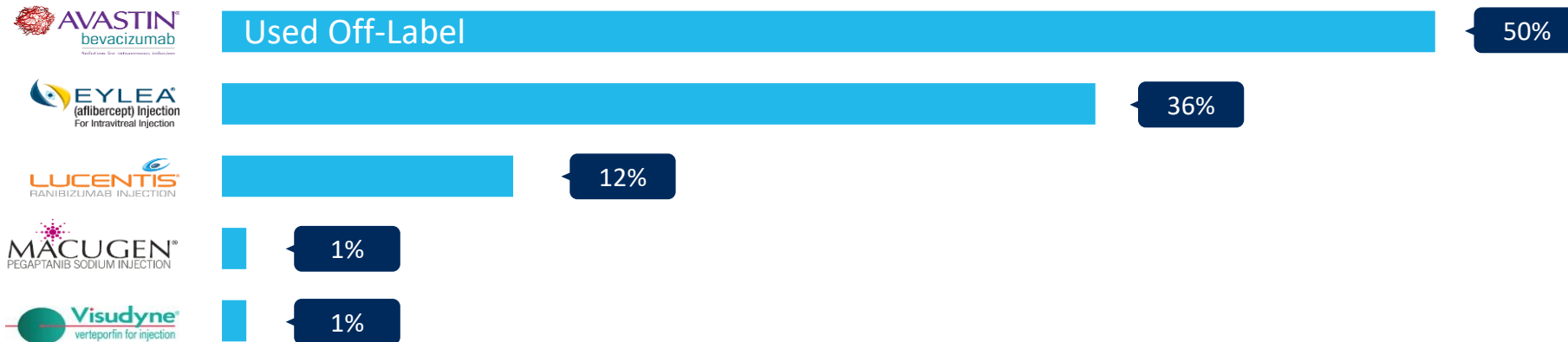
\$9.1 Billion Anti-VEGF Market¹

Does not include off-label bevacizumab

Assumption	U.S.	EU5 ²	Japan
Wet AMD Patients (Prevalence)	697,041	1,724,946	365,709
DME Patients (Diagnosed)	324,064	338,011	376,414
BRVO Patients (Prevalence)	119,042	135,206	61,852

Off-Label Bevacizumab Represents 50% of Wet AMD Market

Anti-VEGF U.S. Market Share in Wet AMD¹



Expected Drivers to Compete Across All Anti-VEGF Therapeutics

- 1 Provide safe and cost-effective on-label bevacizumab
- 2 Become first line "step-edit" drug of choice
- 3 12 years market exclusivity under new BLA
- 4 Penetrate EU and developing markets

Off-Label Bevacizumab Presents Safety Issues

Off-label ophthalmic bevacizumab injections can vary significantly when repackaged by compounding pharmacies, affecting quality, safety and access

Variability in Potency¹

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

Safety and Sterility Adverse Events²

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

Syringe Malfunctioning³

- 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

JAMA Ophthalmology



Warning Letter



Step-Edit Therapy Provides Market Opportunity

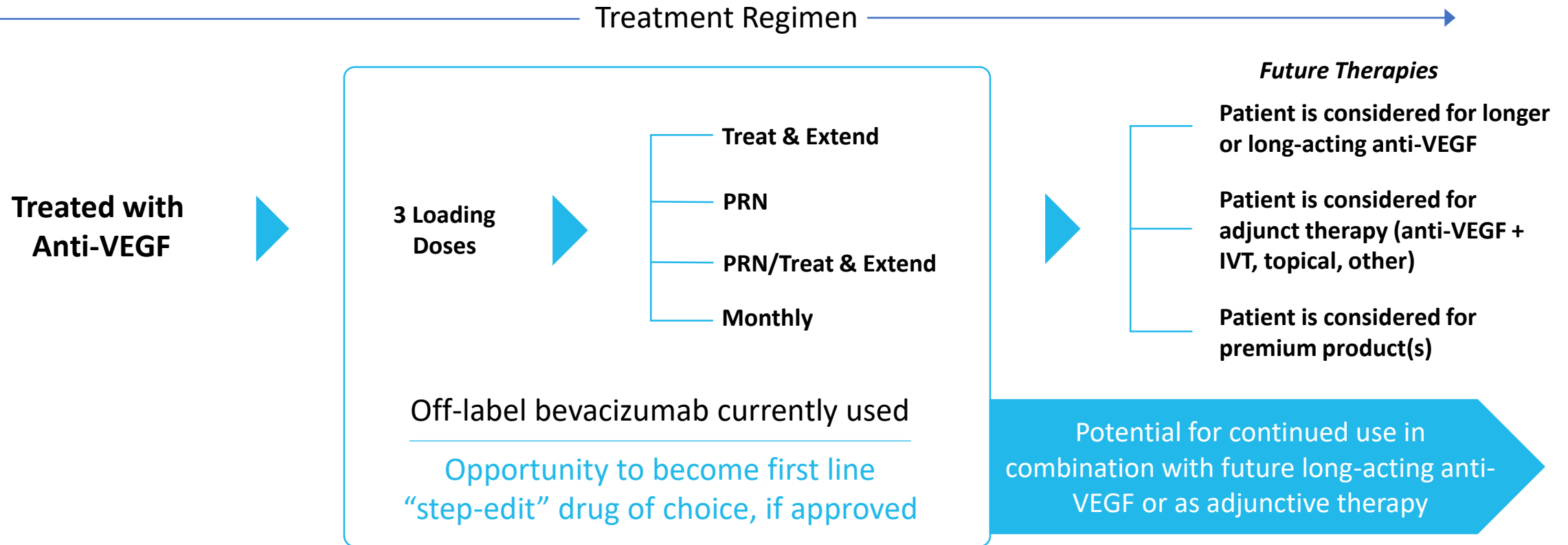


The screenshot shows the CMS.gov Newsroom page. At the top, there's a navigation bar with 'CMS.gov' and 'Centers for Medicare & Medicaid Services'. Below that, a dark blue header contains 'Newsroom' and links for 'Press Kit', 'Data', 'Contact', and 'Blog'. The main content area features a yellow 'Fact sheet' tag. The article title is 'Medicare Advantage Prior Authorization and Step Therapy for Part B Drugs'. Below the title, it says 'Aug 07, 2018 | Leadership, Medicare Part C, Medicare Parts A & B, Prescription drugs'. There are social media share icons for Facebook, Twitter, LinkedIn, and Print. The article text begins with 'Today, the Centers for Medicare & Medicaid Services (CMS) introduced much-needed competition and negotiation into the market for physician-administered and other Part B medications that will result in better deals and lower drug costs for patients. As part of the agency's ongoing activities to deliver on President Trump's promises outlined in his American Patients First Blueprint, CMS will provide Medicare Advantage plans the option of applying step therapy for physician-administered and other Part B drugs in a way that lowers costs and improves the quality of care for Medicare beneficiaries. Medicare Advantage (MA) plans will have the choice of implementing step therapy to manage Part B drugs, beginning January 1, 2019 as

Payor Cost Saving Measure

- Less expensive therapies are covered first
- Patient must “fail” medication before advancing to more costly treatments

Potential First Access in Treatment Paradigm with Step-Edit Therapy



Aetna now requires off-label use of bevacizumab for Medicare patients before covering more expensive, approved premium therapies (effective January 1, 2020)¹

Regulatory Strategy Aligned with FDA

New Biologics License Application (BLA) submission in wet AMD expected H1 2021



- PHSA 351 (a) new BLA regulatory pathway
- FDA End-of-Phase 2 meeting completed
- Clinical protocols reflect FDA feedback
- FDA indicated study designs would be acceptable for registration

Strategy Outside of United States



EU agency meetings
planned in 2020

Additional ex-U.S. regulatory
agency meetings expected in 2020

ONS-5010 Phase 3 Clinical Program



ONS-5010-001:
Safety and efficacy study
Data expected: H2 2020



ONS-5010-002:
Safety and efficacy study
Data expected: H1 2021



Two ongoing studies in wet AMD



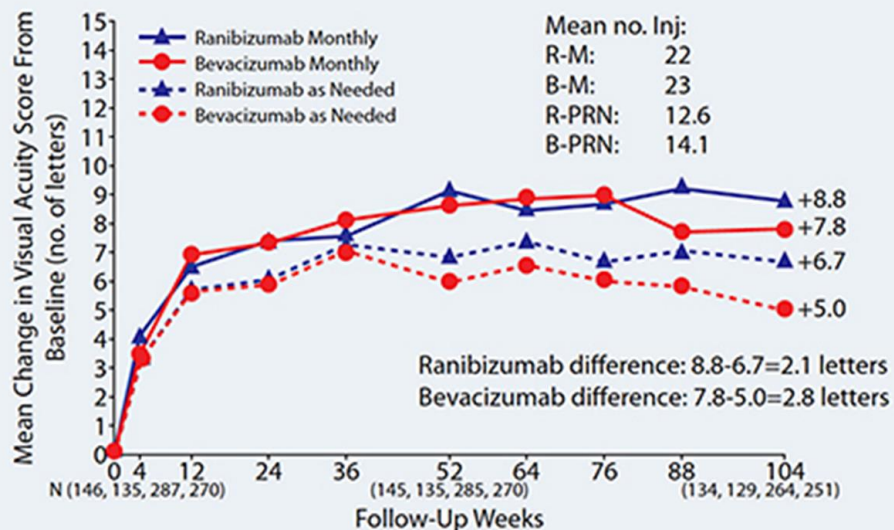
Safety & efficacy data from ongoing studies expected to support planned new U.S. BLA filing in 2021



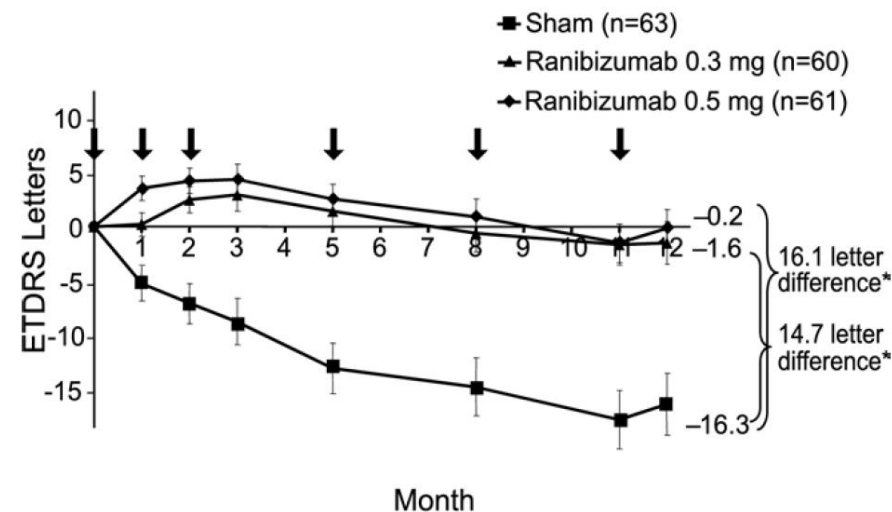
SPA agreements reached with FDA for planned DME and BRVO registration clinical studies

Bevacizumab Demonstrated to be Equivalent to LUCENTIS® in CATT Trial

CATT Study Results¹



LUCENTIS® PIER Study²



Outlook Bevacizumab Demonstrated PK Biosimilarity to Avastin®

Phase 1 PK Study

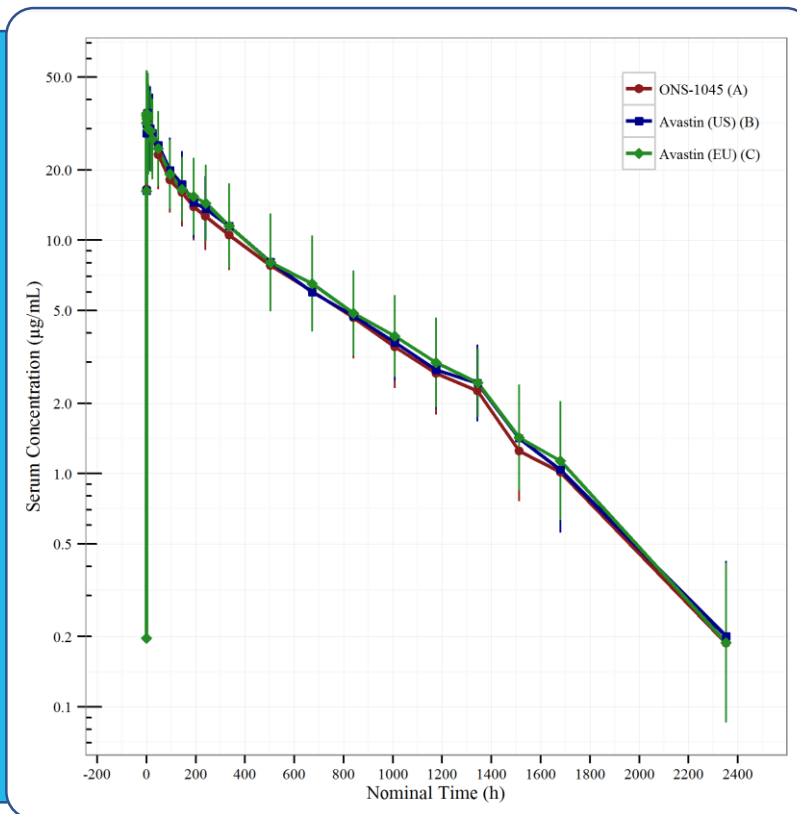
OTLK IV bevacizumab vs. U.S. and EU Avastin®

Randomized, IV double-masked, single dose study

Met primary and secondary endpoints

- Biosimilar PK
- Low immunogenicity

Mean (\pm SD)
bevacizumab serum
concentration - log
scale





NORSE ONE

First Registration Study

Phase 3 Clinical Program



Enrollment Completed



Topline Data Expected Q3 2020



Study Highlights:



- Randomized Masked Controlled Trial



- ONS-5010 vs LUCENTIS® (ranibizumab)



- 61 subjects enrolled



- Study conducted in Australia

- Safety & efficacy data expected to support planned new U.S. BLA filing in 2021

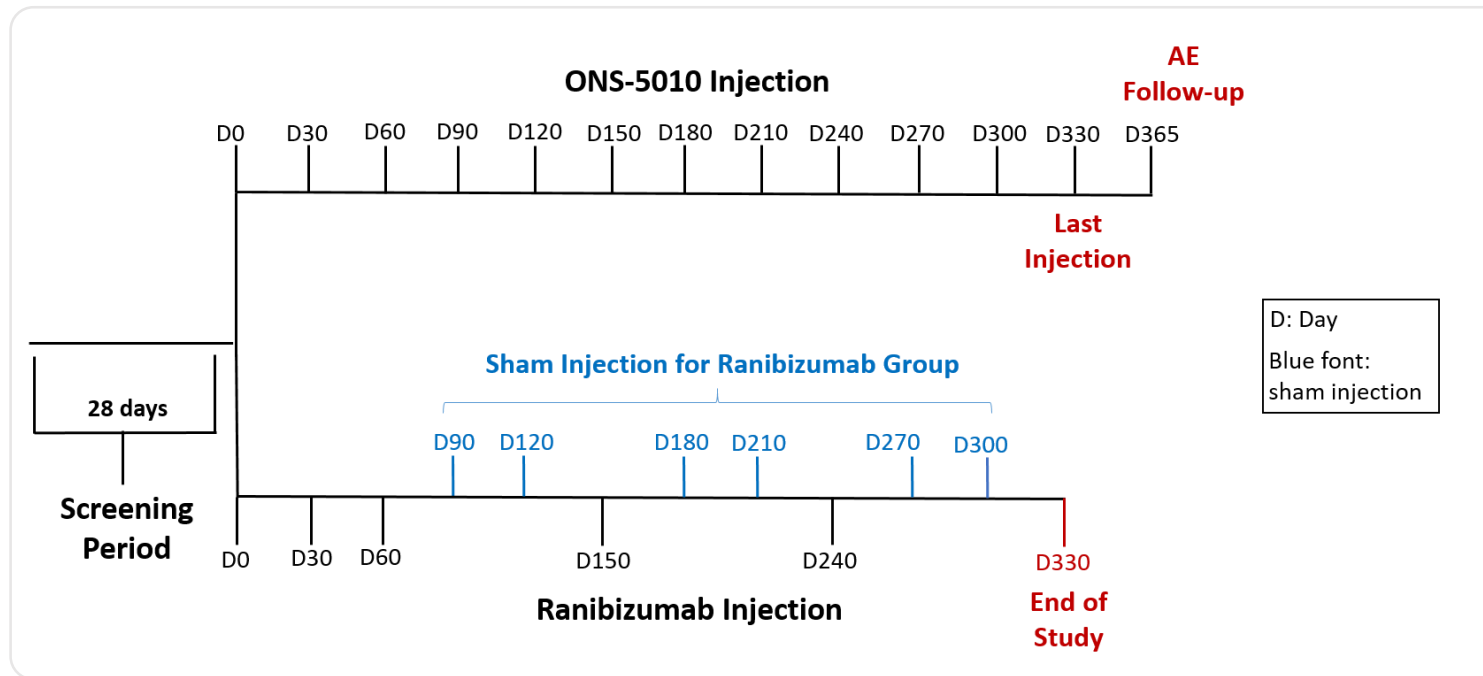
Study Design

Randomized Masked
Controlled Trial with 61
subjects

ONS-5010 Administered
Monthly X 12

LUCENTIS® Dosing Arm
(PIER Dosing) – Three initial
monthly injections followed
by fixed quarterly dosing

Primary Endpoint:
Mean change in
BCVA at Day 330



Study design / size confirmed in April 2018 by FDA at EOP2 meeting as acceptable as one of two adequate and well-controlled registration clinical trials that may support approval of exudative age-related macular degeneration indication



Pivotal Study

Phase 3 Clinical Program



Expect to Complete Enrollment Q2 2020



Topline Data Expected Q2 2021



Study Highlights:



- Randomized Masked Controlled Trial
- ONS-5010 vs LUCENTIS® (ranibizumab)
- ~220 patients to be enrolled
- Study conducted in United States
- Safety & efficacy data expected to support planned new U.S. BLA filing in 2021



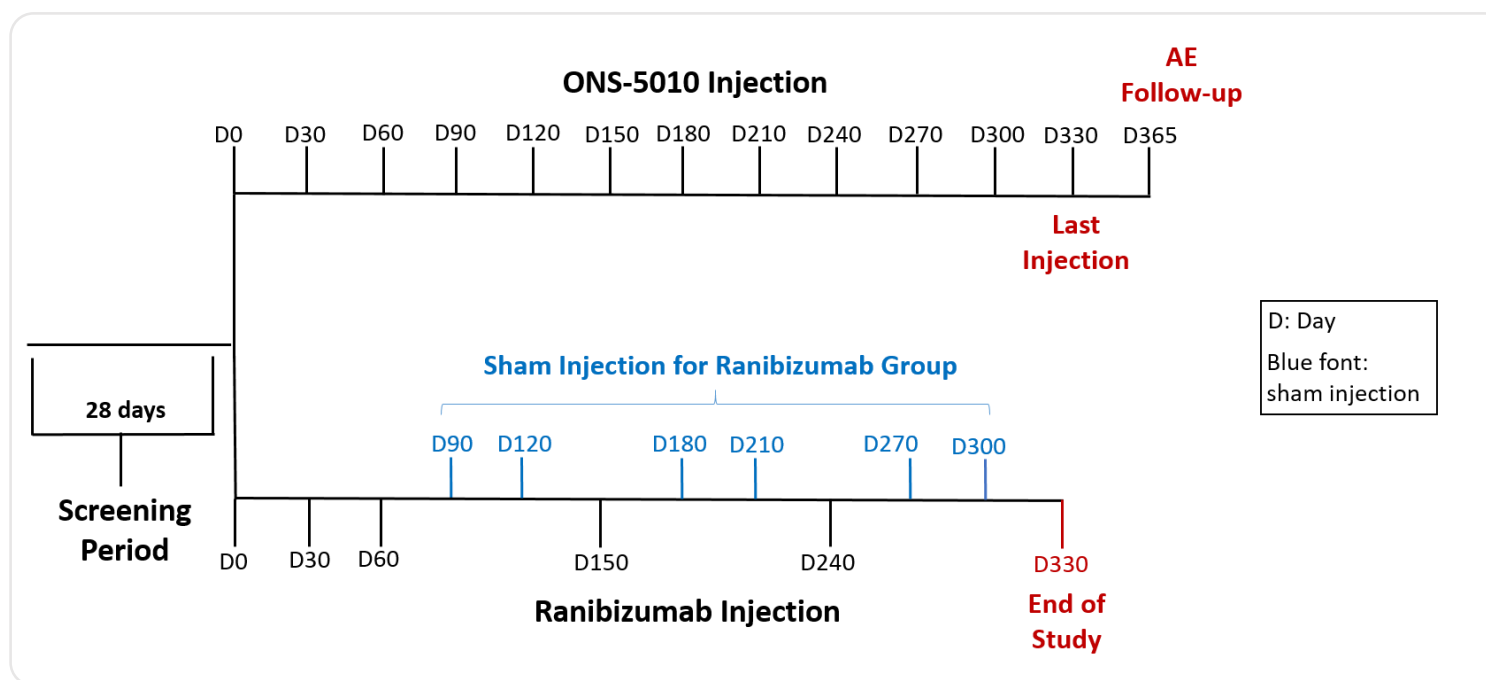
Study Design

Randomized Masked
Controlled Trial with ~220
subjects

ONS-5010 Administered
Monthly X 12

LUCENTIS® Dosing Arm
(PIER Dosing) – Three initial
monthly injections followed
by fixed quarterly dosing

Primary Endpoint:
Difference in proportion of
patients who gain at least 15
letters in BCVA from baseline
at day 330



Study design / size confirmed in April 2018 by FDA at EOP2 meeting as acceptable as one of two adequate and well-controlled registration clinical trials that may support approval of exudative age-related macular degeneration indication

Commercial Strategy



Commercial launch will be led by Jeff Evanson, Chief Commercial Officer. Former V.P. and Global Head of Novartis Alcon division.

 NOVARTIS   Medtronic  NAVIGANT



Commercial Drivers

Provide safe and cost-effective on-label bevacizumab

Responsible pricing (collaborative payor strategy)

Pre-filled syringes expected to provide convenience and safety

Market exclusivity (new BLA)
12 years in United States
8+2 years in EU



Step-Edit Therapy

Opportunity to become first line “step-edit” drug of choice, if approved



Expand Outside U.S.

Penetrate EU5, Japan and developing markets where off-label bevacizumab use has been restricted

Physicians Want On-Label Bevacizumab

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



Total
(U.S. + EU)

37%

47%

84%



"I do not understand how they have delayed releasing a product like this for so long. It was something retinal specialists often requested from the start"

-Retinal Specialist, ES



U.S.

36%

49%

85%



"This product addresses the majority of my main concerns with using Avastin"

-Retinal Specialist, US



EU

38%

44%

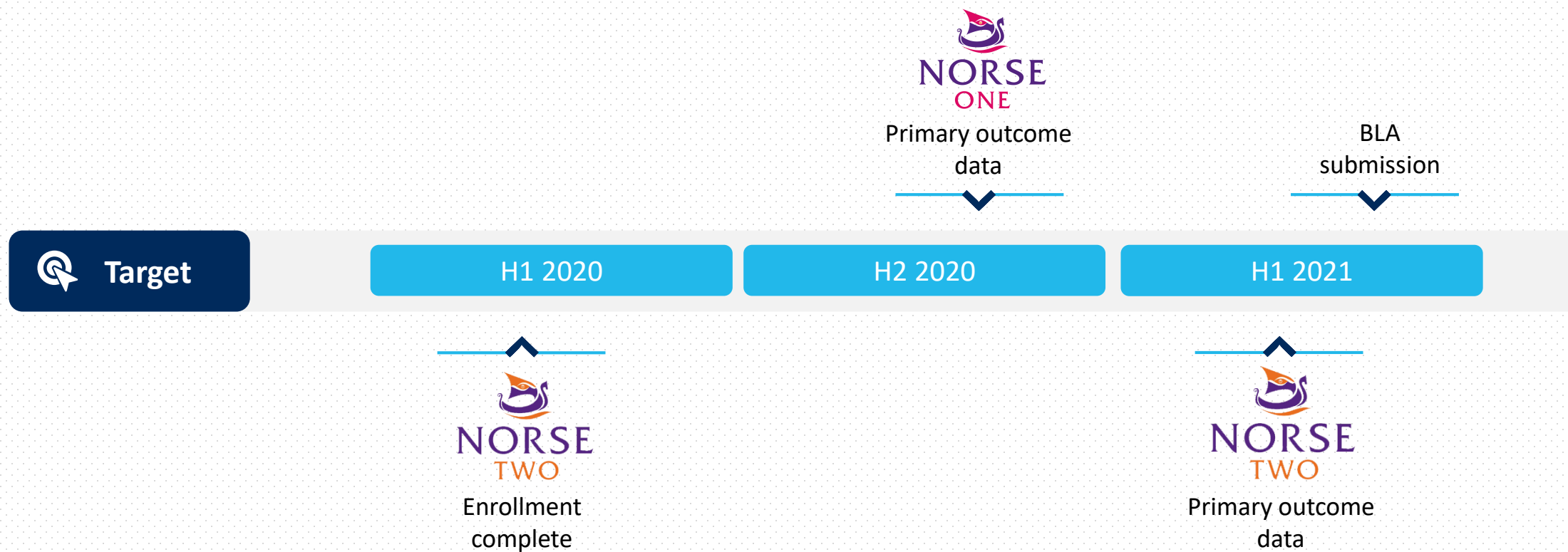
82%



"Excellent action, reduction of costs, prefilled syringe"

-Retinal Specialist, IT

Upcoming Clinical and Regulatory Milestones





Company Highlights

- Lead product candidate ONS-5010 / LYTENAVA™ has potential to be first FDA-approved ophthalmic formulation of bevacizumab for use in multiple retinal indications
- Potential FDA Approval in 2022
- Targeting \$9.1 Billion Anti-VEGF Market¹
- Potential for 12 Years of Market Exclusivity
- Management team with extensive clinical/regulatory ophthalmology & drug development experience