

Annual General Meeting

Corporate Presentation, November 28, 2016
Megan Baldwin PhD, CEO & Managing Director

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Financial Position (Unaudited)

| Key Financial Details | ASX: OPT |
|----------------------------------------------|-----------------------|
| Ticker Symbol | ASX:OPT |
| Share Price (as at Nov 25 2016) | ~A\$0.72 |
| Total Ordinary Shares on Issue | 150,237,078 |
| Options on Issue | 49,675,922 |
| Market Capitalisation (as at Nov 25 2016) | ~A\$108m (~USD80m) |
| Trading Range (last 12 months) | A\$0.28 - 0.915 |
| Cash Balance (at 30 June 2016) | ~A\$14.5m |
| Listed Investments | ~A\$0.3m |
| Top 10 Shareholders Own | 69% |

| Substantial Shareholders | % Holding |
|-----------------------------------|-----------|
| Biotechnology Value Fund (BVF) | 18% |
| Baker Bros (NY, USA) | 9% |
| Packer & Co. | 8.5% |





Corporate Achievements

- First year trading under Opthea Limited and ASX:OPT
- Continued execution of strategy to focus on ophthalmology
- ✓ Received A\$2.6m R&D tax rebate on local & international R&D expenditure
- ✓ AusIndustry approval for Advance/Overseas Finding
 - ✓ Projected R&D activities in both Australia and overseas eligible for the R&D Tax Incentive to June 30 2018
- ✓ Completed simplification of Group
 - ✓ De-registration of subsidiaries
 - ✓ Completed solvent members' voluntary liquidation of Syngene Ltd
 - Pro-rata allocation of remaining capital to Syngene shareholders
 - ✓ Returned >A\$170k to Opthea Limited



Operational Achievements

- Met primary safety objective in Phase 1 wAMD trial
 - ✓ Demonstrated safety and tolerability of OPT-302 as monotherapy and in combination with Lucentis®
- ✓ Reported changes in visual acuity (VA) and retinal thickness following the 3 month dosing period demonstrating clinical activity of OPT-302 in both treatment naïve patients and prior treated patients
- Completed recruitment in Phase 2A cohorts
- On-track to report primary analysis of the Phase 2A trial in 1Q'17
- Expanded clinical management team
- Completed 6 month GLP safety/toxicology studies to support Ph 2B trial
- ✓ Initiated US FDA & EU regulatory agency interactions to inform Ph 2B wAMD trial
- Continued to raise company profile in local and international investment and clinical ophthalmology communities
- Data presented at international conferences and Ophthalmology Innovation Summit (OIS/ASRS, OIS/AAO, EURetina)

Milestones

OPT-302 Wet AMD Program: Milestones



Initiated Phase 1b/2a clinical trial: 30 June 2015



Ph 1b Primary Safety Data Analysis:
April 16



Ph 1b Data Analysis (2° Objectives): July 16

Ph 2a Primary Data Analysis: 1Q17

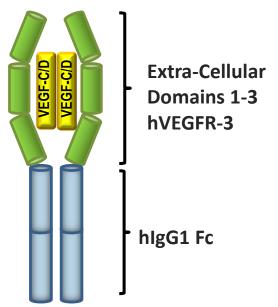
Initiate Phase 2b clinical trial: 2017



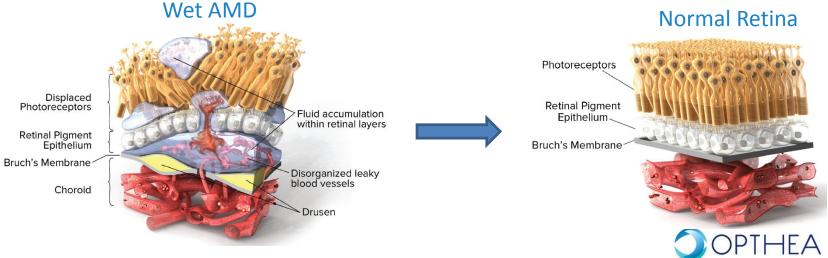
OPT-302: Program Update



OPT-302 for Wet AMD



- The VEGF family is recognised as the most important family of growth factors controlling vessel growth and leakage
- OPT-302 blocks VEGF-C and VEGF-D
- Blocks vessel growth and leakage, two of the key hallmarks of wet AMD
- Leading cause of blindness in over 55's, increasing prevalence



Our Goal: To Improve Vision





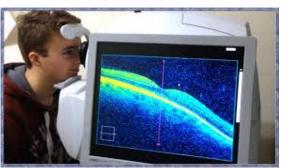
Monitoring Patients & Endpoints in Wet AMD Trials

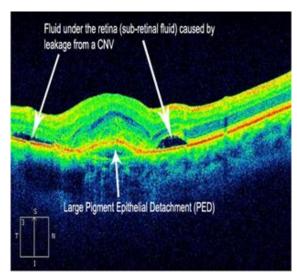
Visual Acuity



Change in Vision (# letters) from baseline

SD-OCT

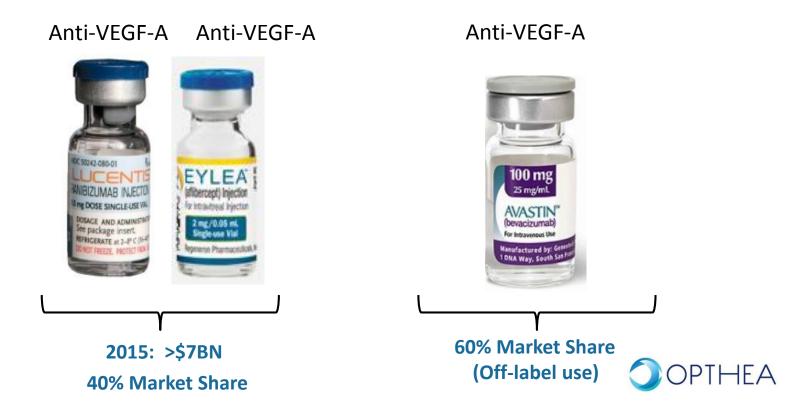




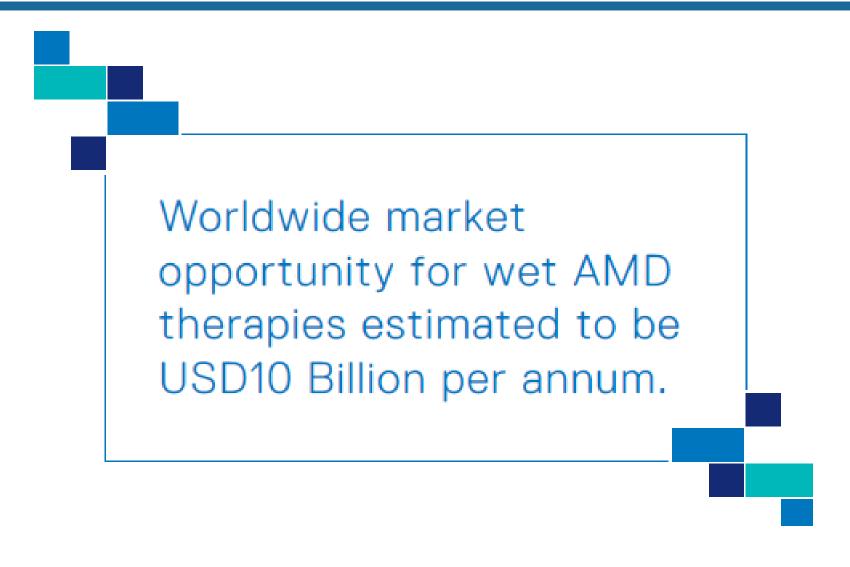
Change in Retinal Thickness (CST) from baseline –
Indicator of fluid

Approved therapies target VEGF-A, not VEGF-C or VEGF-D

Our approach is novel and differentiated from existing therapies, yet targets a validated pathway in wet AMD disease progression



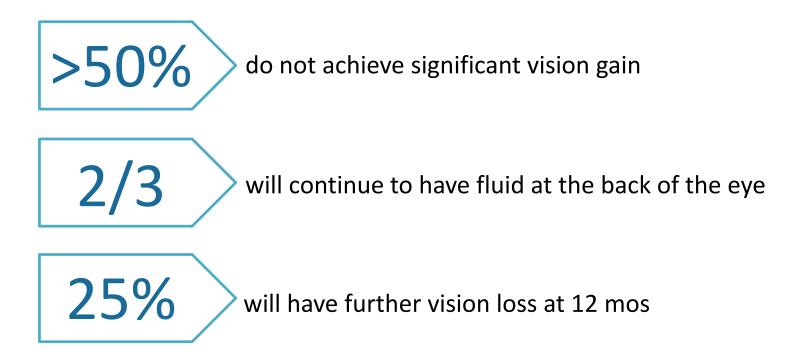
Large and Growing Market Opportunity





An Unmet Medical Need for Wet AMD

Despite receiving a VEGF-A inhibitor (Lucentis®, Eylea® or Avastin®):

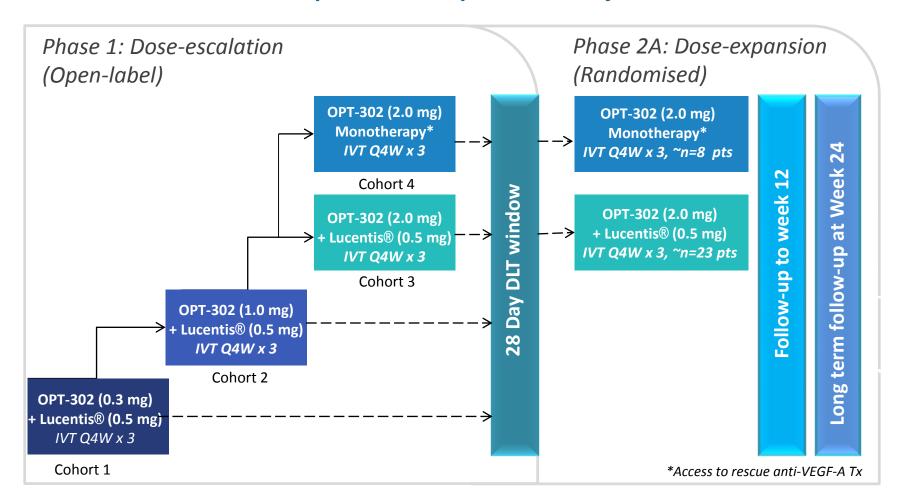




"Because wet AMD is such a complex disease with multiple pathways, it is likely that a combination of drugs will be able to provide better outcomes."

Macular Disease Foundation Australia,
 Macular Degeneration Research Update December 2015

Dose-escalation & dose-expansion of repeated IVT injections



- Comprises of 4 treatment cohorts of 5 subjects each
- Both treatment-naïve and prior-treated patients were recruited



OPT-302 Safe & Well Tolerated in Phase 1 Study

- OPT-302 successfully met primary safety objective in Phase 1 dose escalation study
- No dose limiting toxicities (and MTD not reached) through week 12 in:
 - OPT-302 monotherapy (2.0 mg), and
 - Cohorts of OPT-302 (0.3, 1, 2 mg) in combination with Lucentis® (0.5 mg)
- No signs of infection (endophthalmitis)
- No clinically significant changes in:
 - Intraocular pressure
 - ECGs
 - Blood pressure
 - Blood chemistry or other vital signs
- No evidence of drug-related immunogenicity



OPT-302 Phase 1 Secondary Endpoints

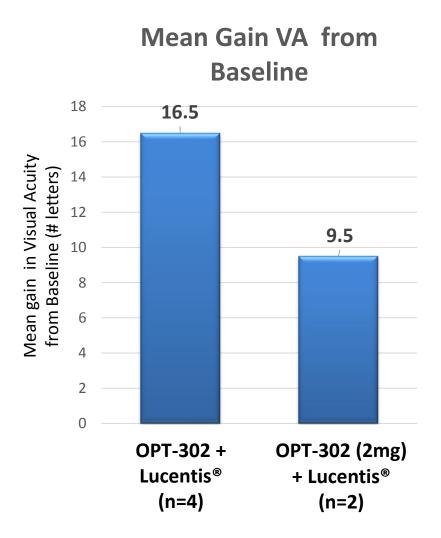
- Overall, 16/19 evaluable pts maintained or gained vision from baseline to week 12
- No patient lost more than 3 letters
- All of the patients that lost vision from baseline received combination OPT-302 + Lucentis® therapy



Naïve Patients



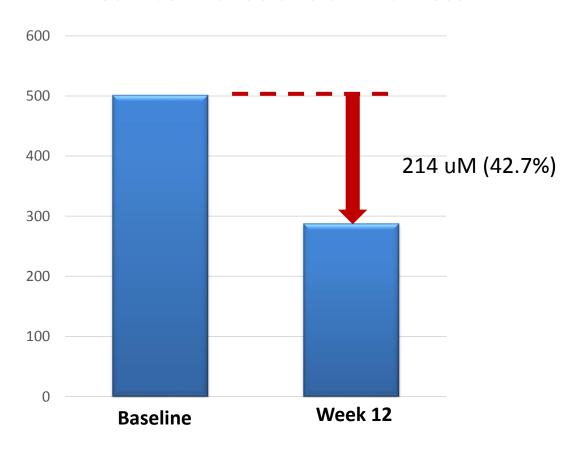
Treatment-Naïve Patients: Visual Acuity





Treatment-Naïve Patients: Retinal Thickness

Mean Central Subfield Thickness



OPT-302 + Lucentis® (n=4)

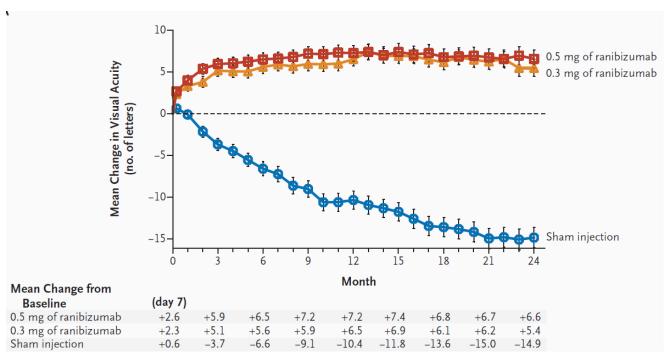


Prior-Treated Patients (Sub-responsive to anti-VEGF-A)



Prior-Treated Patients: Visual Acuity

- Majority of vision gain in Lucentis® treated patients occurs within 3 months
- Plateau "ceiling effect" of response with no other treatment options
- Difficult to treat patient population, very large market opportunity
- Mean number of Prior anti-VEGF-A therapies: 10.5 (Mean 3 55)

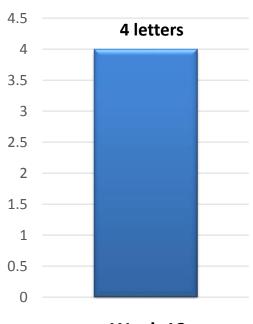




MARINA Phase 3 in wet AMD. Rosenfeld et al., NEJM, 355;14, pp 1419-1431, 2006

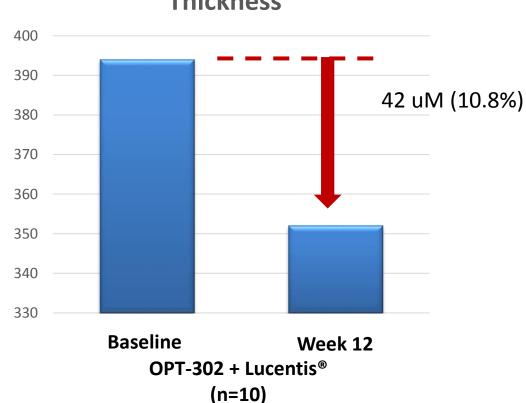
Prior-Treated Patients: Visual Acuity & Retinal Thickness

Mean Change VA from Baseline



Week 12
OPT-302 + Lucentis®
(n=10)

Mean Central Subfield Thickness



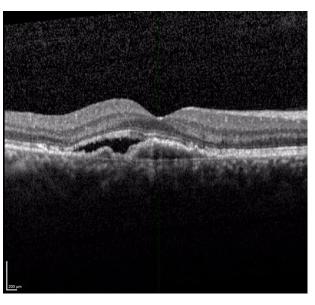


Prior-Treated Patient: OPT-302 (0.3 mg) + Lucentis[®] (0.5 mg)

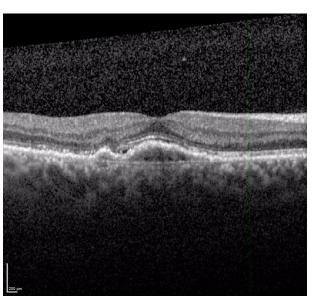
- Male aged 64
- Occult lesion
- Prior treatment: Eylea®/REGN-910-3 x6

Baseline

Week 4



Week 12



VA: 77 letters CST: 365 µM

VA: 83 letters CST: 281 µM

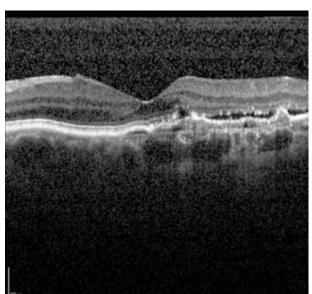
VA: 79 letters CST: 298 µM



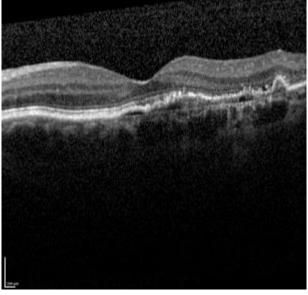
Prior-Treated Patient: OPT-302 (1.0 mg) + Lucentis[®] (0.5 mg)

- Female aged 71
- Occult lesion
- Prior treatment: Avastin[®] x10

Baseline



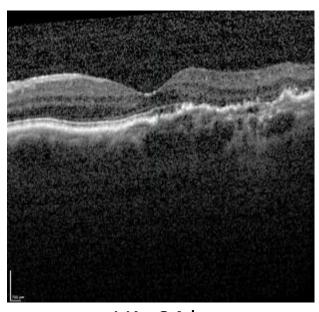




VA: 74 letters CST: 270 µM

VA: 74 letters CST: 258 µM

Week 12



VA: 84 letters CST: 255 µM



OPT-302 Program Highlights

- Broad development potential
- Targets validated pathway
- Targets incomplete response to existing therapies
- Large unmet medical need for wet AMD & mkt opportunity
- Phase 1 study: safe & well tolerated
- Evidence of clinical activity
- Consistency of responses across multiple endpoints
- Warrants investigation Ph2B
- Phase 2A fully enrolled primary analysis 1Q'17
- Planning for Phase 2B in 2017





Suite 0403, Level 4, 650 Chapel Street, South Yarra 3141 Victoria Australia

T +61 (3) 9826 0399 E megan.baldwin@opthea.com

www.opthea.com