What Will We Be Using to Treat Patients with Wet AMD in the Future?

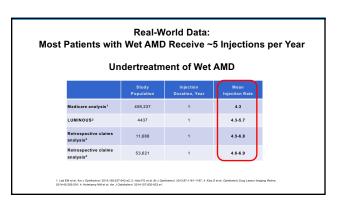
Diana V. Do, MD

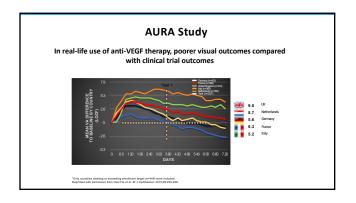
Professor of Ophthalmology Vice Chair for Clinical Affairs



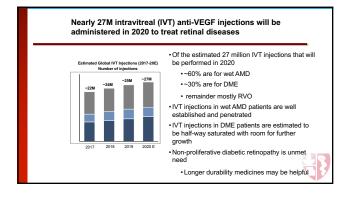
Financial: Aerie (C, R), Allergan (C), Asclepix (C), Boehringer Ingelheim (C, R), Genentech (C), Kodiak (C, S) Novartis (C, R), Regeneron (C, R), Santen (C, R), Mallinckrodt (C), Gilead (R), Eyepoint (C)

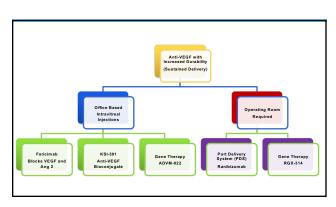


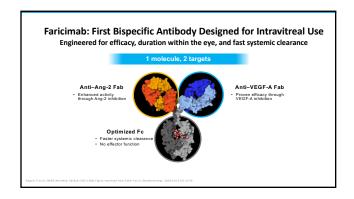


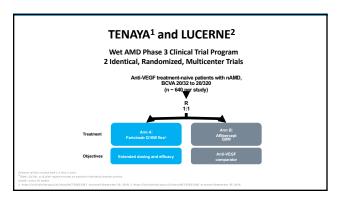


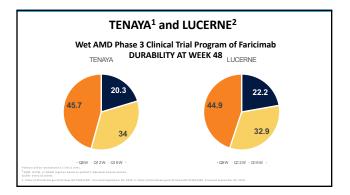
Unmet Need in Wet AMD • Durable medicines that can be clinically effective and decrease injection burden

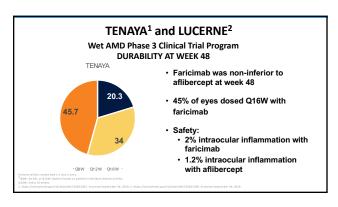










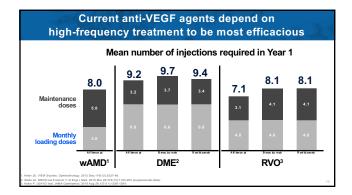


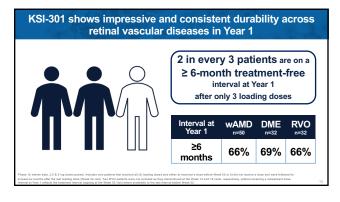
Extended Durability in Exudative Retinal Diseases Using the Novel Intravitreal Anti-VEGF Antibody Biopolymer Conjugate KSI-301

Phase 1b Study in Patients with wAMD, DME and RVO
Year 1 Results

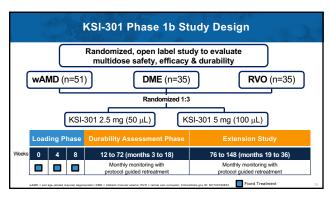
Diana V. Do, MD
Professor of Ophthalmology
Vice Chair of Clinical Affairs
Byers Eye Institute

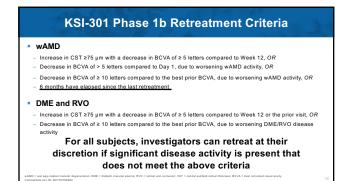
KSI-301 Phase 1b Study – Year 1 Results Key Questions Do the data support the potential for KSI-301 to meaningfully advance the treatment paradigm for major retinal vascular diseases? Can KSI-301 provide the expected efficacy gains in line with current anti-VEGF agents? Can KSI-301 achieve clinical durability of 6-months or longer in the majority of patients, and with fewer loading doses? Does KSI-301 have the excellent safety profile expected for intravitreal anti-VEGF agents ranibizumab and aflibercept?





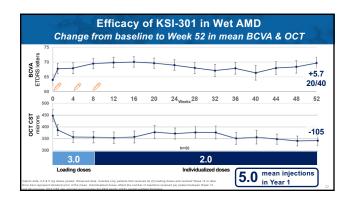


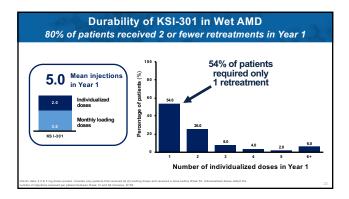


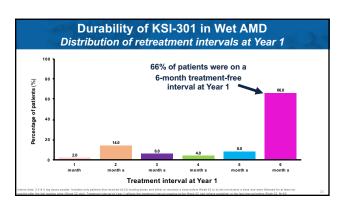


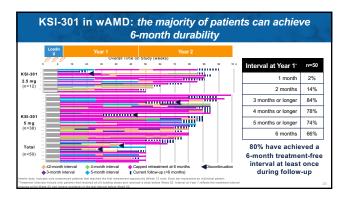
Baseline Characteristics			
Variable	wAMD Cohort (n=51)	DME Cohort (n=35)	RVO Cohort (n=35)
Age, mean (SD), years	77.9 (10.5)	59.7 (11.7)	63.6 (12.6)
Gender, n (%), female	32 (62.7)	14 (40.0)	13 (37.1)
Race, n (%), White	48 (94.1)	28 (80.0)	31 (88.6)
BCVA, mean (SD), ETDRS letters	63.3 (13.3)	66.8 (10.2)	54.9 (15.4)
Snellen equivalent	~20/50	~20/50	20/80
Snellen 20/40 or better, n	20 (39.2)	16 (45.7)	6 (17.1)
OCT CST, mean (SD), - best corrected or	eual acuity: 21500/1482) ence tomog	aphy; CST= #53=/44()) -knass	675 (237)

KSI-301 Phase 1b
wAMD
Year 1 Data





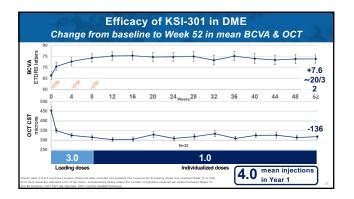


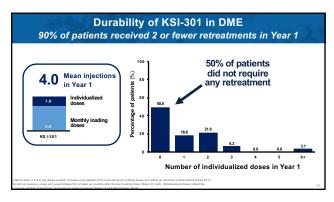


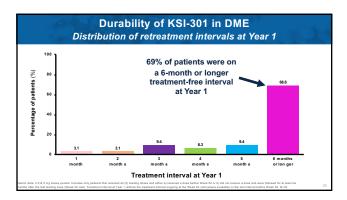
KSI-301 Phase 1b

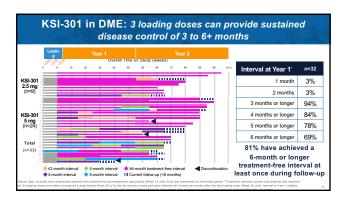
DME

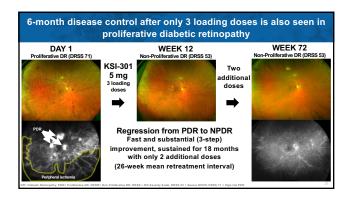
Year 1 Data



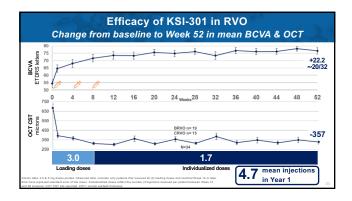


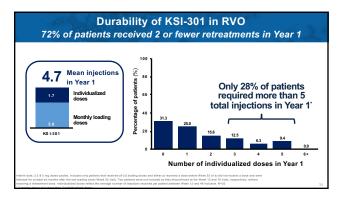


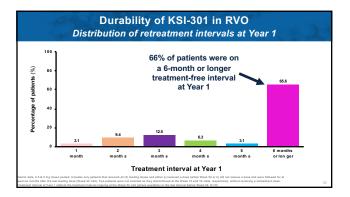


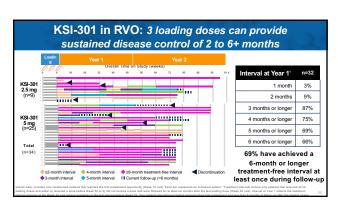




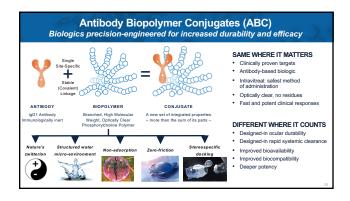


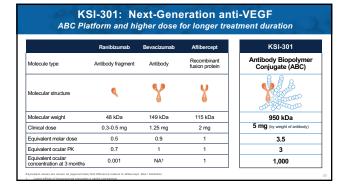


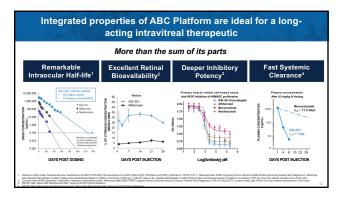




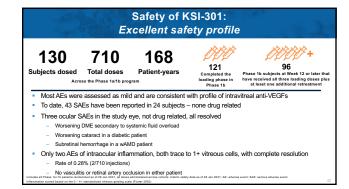
How can KSI-301 achieve strong efficacy <u>and</u> remarkable durability?







KSI-301 Phase 1b
Safety



How do the Phase 1b Study data inform the design of KSI-301 pivotal studies?

Waintained

Optimized

Optimized

KSI-301 Phase 1b data in treatment-naïve patients inform the design of Kodiak pivotal studies

Treatment-naïve patients

3 loading doses in wAMD and DME

Monthly visits

Only high dose (5 mg) advanced

Tighter disease activity criteria

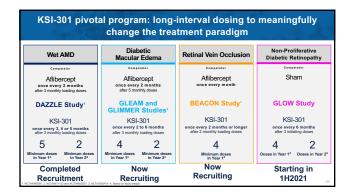
Proactive dosing

Tighter dosing intervals

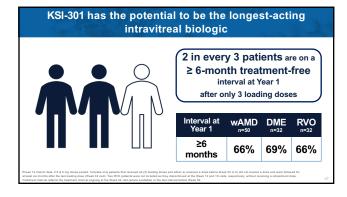
2 loading doses in RVO

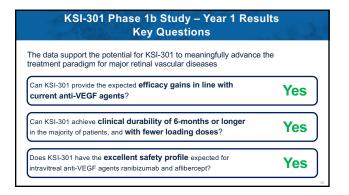
Decreased subjectivity (treatment based strictly on IRT)

High statistical power for non-inferiority



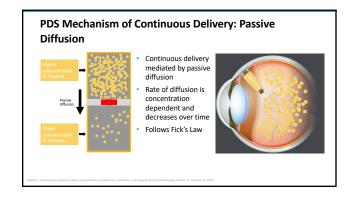
What is the potential impact of KSI-301 in clinical practice and patients' lives?

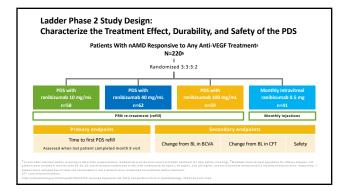


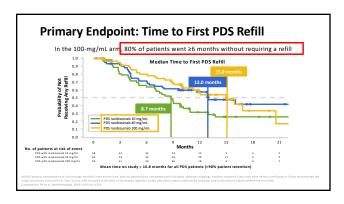


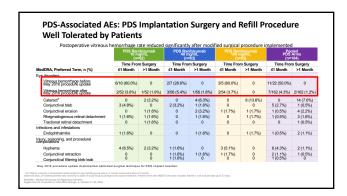
Sustained Drug Delivery

- Port delivery system (PDS)
 - ranibizumab
- Gene therapy
 - Subretinal delivery: RGX-314
 - Intravitreal delivery: ADVM-022









Ladder Phase 2 Trial Summary

- In the PDS with ranibizumab 100-mg/mL treatment arm
- 80% of patients went ≥6 months until the first refill
- Median time to first implant refill was 15.0 months
- BCVA and anatomic outcomes were comparable to those of monthly intravitreal ranibizumab
- PDS implant insertion surgery and refill procedure were well tolerated
 - Systemic safety comparable to monthly intravitreal injections
- The phase 3 program, Archway, using fixed 24-week interval dosing, began enrolling in September 2018

mpochiaro PA et al. Ophtholmology. 2019;126:1141-1154.

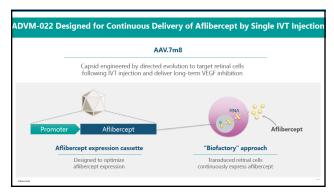


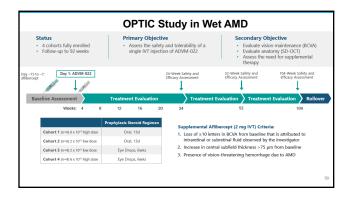
Port Delivery System: Phase 3 ARCHWAY Study

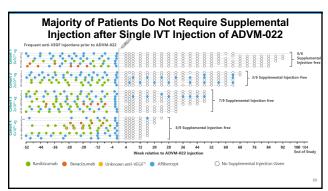
- PDS was non-inferior to monthly ranibizumab
- 98.4% of PDS patients were able to go 6 months without needing additional treatment
- At primary endpoint,
 - PDS arm gained 0.2 letters from baseline
 - Ranibizumab monthly gained 0.5 letters

-









ADVM-022 Safety

- No ADVM-022 elated non-ocular adverse events
- · Intraocular inflammation
 - Responsive to steroids
 - Manageable with steroid eye drops
- No evidence of vasculitis, retinitis, or vascular occlusions

Gene Therapy

