

Company Overview

January 2025

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Jade aims to develop transformative therapies for high-value inflammation and immunology indications

Our mission is to deliver best-in-class therapies for patients living with autoimmune diseases.

- Advancing potential best-in-class therapies for autoimmune diseases, including IgAN.
- Fourth company launched to research and develop antibody candidates licensed from Paragon Therapeutics, an antibody discovery engine founded by Fairmount.
- Building on success of Apogee, Spyre, and Oruka, which have generated clinical data using Paragon's engineered antibody technology and collectively raised ~\$2B.*

| MOA | Program | Discovery | IND- enabling | Planned Clinical FIH | Planned Healthy Volunteer Data |
|-------------|----------|-----------|------------------|----------------------------|--------------------------------------|
| anti-APRIL | JADE-001 | | | 2H25 | 1H26 |
| Undisclosed | JADE-002 | | | 1H26 | |
| Undisclosed | JADE-003 | | | 1H27 | |



Experienced team with backing from Paragon

Company Leadership

Board of Directors



Tom Frohlich CEO



Andrew King CSO, Head of R&D



Hetal Kocinsky CMO



Eric Dobmeier Board Chair



Erin Lavelle Board of Directors



Valerie Fauvelle SVP, Regulatory & Quality



Jason Wright SVP, Chemistry, Manufacturing & Controls



Amy Sullivan SVP, Development Operations



Lawrence Klein Board of Directors



Tomas Kiselak Board of Directors



Jonathan Quick SVP. Finance



Elizabeth Balta GC & Corporate Secretary



Sandy Lewis SVP. Biometrics and Clinical Strategy



Chris Cain Board of Directors



Tom Frohlich Board of Directors























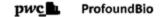






























JADE-001: a potential best-in-class anti-APRIL mAb for IgAN



Jade is developing a potential best-in-class anti-APRIL mAb designed to have disease-modifying MoA in IgAN



Estimated \$10B+ branded market

Current treatments do not adequately address the need for **long-term disease-modifying therapy** in a typically young IgAN patient population



Anti-APRIL class poised to be the dominant treatment for IgAN

Mechanism has potential to be disease modifying, reducing pathogenic IgA and proteinuria, stabilizing kidney function



Potential best-in-class profile

JADE-001 designed for superior potency and extended half-life for **maximal efficacy** & **convenient dosing** for life-long therapy



Efficient path to PoC and market

HV IgA biomarker linked with efficacy in IgAN; surrogate endpoints support potential IgAN approval

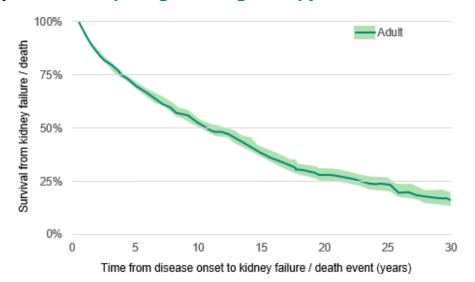


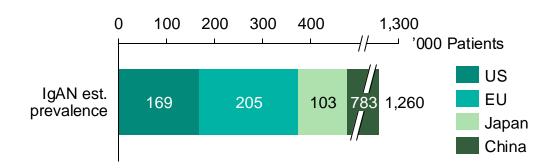
~169K+ IgAN patients in the U.S. with majority requiring treatment*, representing potential \$10B+ market

IgAN patients with persistent proteinuria are at risk of kidney failure

~1M+ global patients, significant potential ex-US market potential

 IgAN is an autoimmune kidney disease, typically diagnosed in 20to 30-year-olds, requiring life-long therapy.





~169K+ patients with IgAN in the U.S., with 60-75% requiring treatment per international guidelines

There is a high unmet need for **disease-modifying treatments that are safe, well-tolerated, and convenient** for life-long therapy in a **young patient population**.



Current IgAN treatments leave significant unmet need, with no disease-modifying, approved therapeutics

| | ACEi / ARB | Systemic glucocorticoids | SGLT2i | Filspari | Tarpeyo | Fabhalta | Ideal IgAN therapy |
|-----------------------|---|---|---|---|---|--|--|
| МоА | Renin-angiotensin system inhibition | General immunosuppression | SGLT2 inhibition | Dual endothelin / angiotensin inhibition | GI-released systemic glucocorticoid | Complement Factor B inhibitor | |
| Status | Used off-label | Used off-label | Approved for CKD | Approved | Approved | Accelerated approval | |
| Therapeutic rationale | Supportive therapy (reduce glomerular pressure) | Immunosuppression | Supportive therapy | Supportive therapy | Immunosuppression | Reduce complement- driven pathology | Disease-modifying (depletes Gd-lgA1, stabilizes GFR) |
| Proteinuria reduction | ~↓30-40% | ~↓30-50% at 6M; none at 3Y | ↓26% pbo-adj (UACR) | ↓35% control-adj at 36W | ↓32% pbo-adj at 36W | ↓38% pbo-adj at 36W | 60%+, ideally to < 0.3-0.5 g per day |
| GFR stabilization | X | X | X | X | X | No long-term data | ✓ |
| Safety | BBW (fetal tox), hyperkalemia, angioedema, AKI | Severe infections, edema, hypertension, bone density loss, etc. | UTIs, genital fungal infections, volume depletion | BBW + REMS (liver & pregnancy); hypotension, edema, AKI, hyperkalemia | Immunosuppression, edema, hypertension, weight increase, URTI | BBW + REMS (serious bacterial infections); URTI, abdominal pain | No notable safety issues, minimal immunosuppression |
| Annual dosing | 365 x (or greater) | 180-270 x (6 to 9-month course) | 365 x ♣ | 365 x 4 | 270 x (9-month course) | 730 x | 4-6 x (or fewer) |



Notes: Proteinuria reduction based on UPCR. Data from Praga & Nakamura trials (ACEi / ARB), STOP-IgAN & TESTING (glucocorticoids), DAPA-CKD (SGLT2i), PROTECT (Filspari), NeflgArd (Tarpeyo), APPLAUSE-IgAN (Fabbalta)

Sources: UpToDate; 2003 Praga (J Am Soc Nephrol); 2006 Li (Am J Kidney Dis); 2000 Nakamura (Am J Nephrol); 2022 Lv (JAMA); 2023 Campbell (Dove Press); Filspari Label; Tarpeyo Label; Fabhalta Label; KOL interviews. CKD – chronic kidney disease; UACR –urine albumin to creatinine ratio; BBW – black box warning; REMS – risk evaluation and mitigation strategy; AKI – acute kidney injury; URTI – upper respiratory tract infection

Proposed updates to KDIGO guidelines highlight the need for therapies like JADE-001, which may reduce pathogenic IgA

Expanding Patient Population

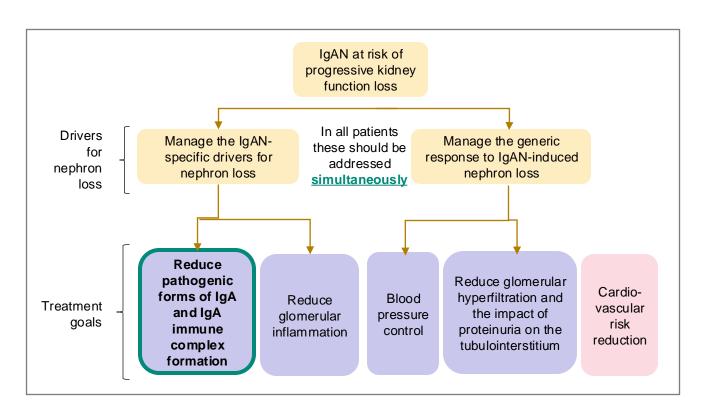
- Kidney biopsy recommended in all adults with proteinuria
 ≥0.5 g/d where IgAN is a possible diagnosis
- Recommends all patients enroll in an IgAN registry

Lower Proteinuria Targets

- Establishes new treatment goal: proteinuria maintained at <0.5 g/day, preferably <0.3 g/day
- Recommends additional treatment should be initiated in all cases where patients have proteinuria ≥0.5 g/d

Redefining Treatment Goals

 New guidelines state clinicians should incorporate treatments that have been proven to reduce pathogenic forms of IgA



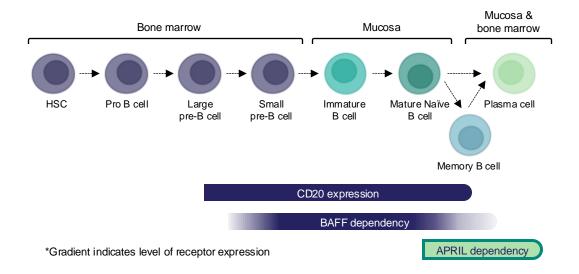
KDIGO updates anticipated to increase **IgAN diagnosis**, expand **at-risk patient population** requiring treatment, **lower proteinuria target** to clinical remission, and require **targeted therapies** that **reduce pathogenic IgA**.



Reducing pathogenic IgA production by plasma cells is a potentially disease-modifying approach for IgAN

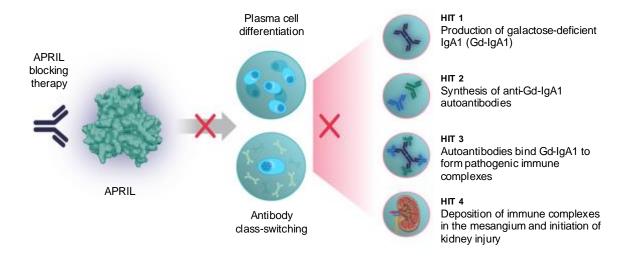
Broad **B-cell depletion is ineffective** in IgAN...

- B-cell depletion with rituximab (anti-CD20) failed to reduce Gd-IgA1, anti-Gd-IgA1 autoantibody, or proteinuria and did not impact eGFR.
- BAFF neutralization (blisibimod) did not reduce IgA or proteinuria.



...while targeted plasma cell modulation is highly effective.

 APRIL and dual APRIL/BAFF neutralization result in significant and sustained depletion of Gd-IgA1, reduction in proteinuria, and eGFR stabilization.



Neutralizing APRIL depletes Gd-IgA1, reduces proteinuria, and **preserves eGFR**, providing a **disease-modifying treatment** of IgAN without impacting B-cell development and maturation.

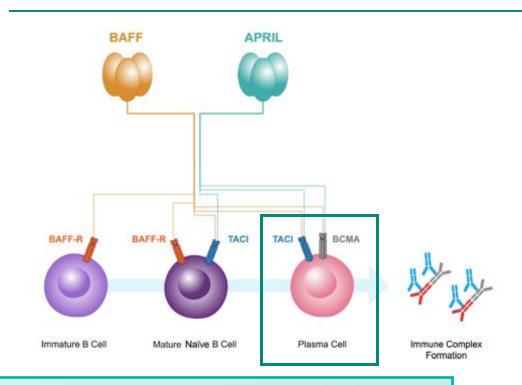


Selectively targeting APRIL potentially provides disease modification without added immunosuppression of BAFF inhibition

APRIL is the B cell survival factor **critically linked to IgAN pathogenesis and disease activity**

Targeting APRIL selectively modulates plasma cells, maintaining pool of mature B cells

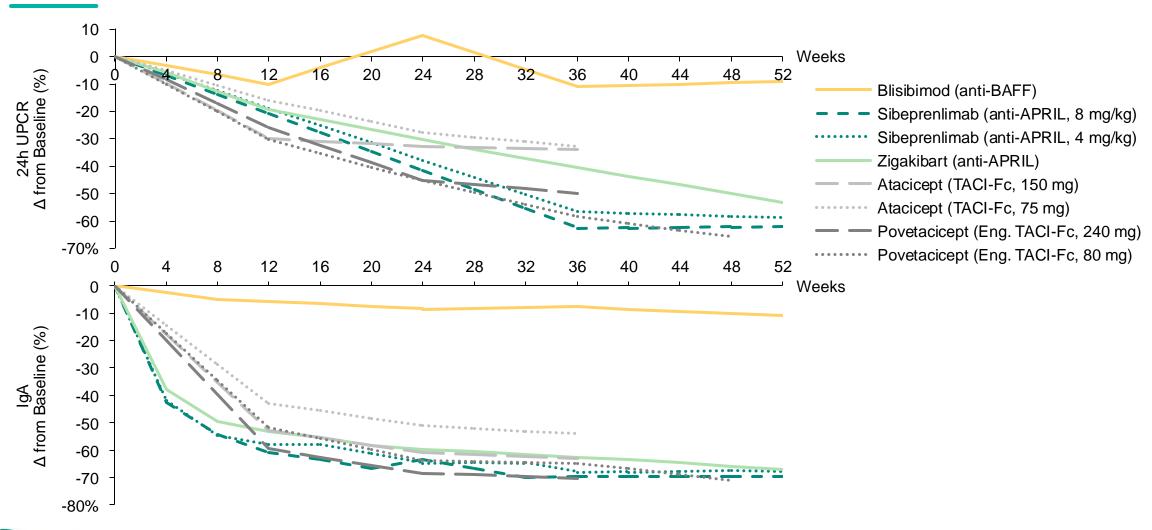
| | APRIL | BAFF |
|--|----------|---------|
| Risk variant in IgAN GWAS | ✓ | X |
| Elevated in IgAN patients and associated with disease severity | ✓ | √/X |
| Promotes excess secretion of Gd-IgA1 in IgAN patient lymphocytes <i>ex vivo</i> | ✓ | No data |
| Drives IgA class switching via TACI in vivo | ✓ | X |
| Overexpression in mouse model leads to glomerular IgA deposition | ✓ | ✓ |
| KO mouse model decreases IgA levels / IgA+ plasma cells in small intestine | ✓ | X |
| Selective inhibition demonstrates preclinical / clinical efficacy in IgAN | ✓ | X |



Existing genomic, mechanistic, IgAN model, and clinical data support the importance of APRIL over BAFF in IgAN, and APRIL-only blockade avoids the potential for unnecessary immunosuppression.

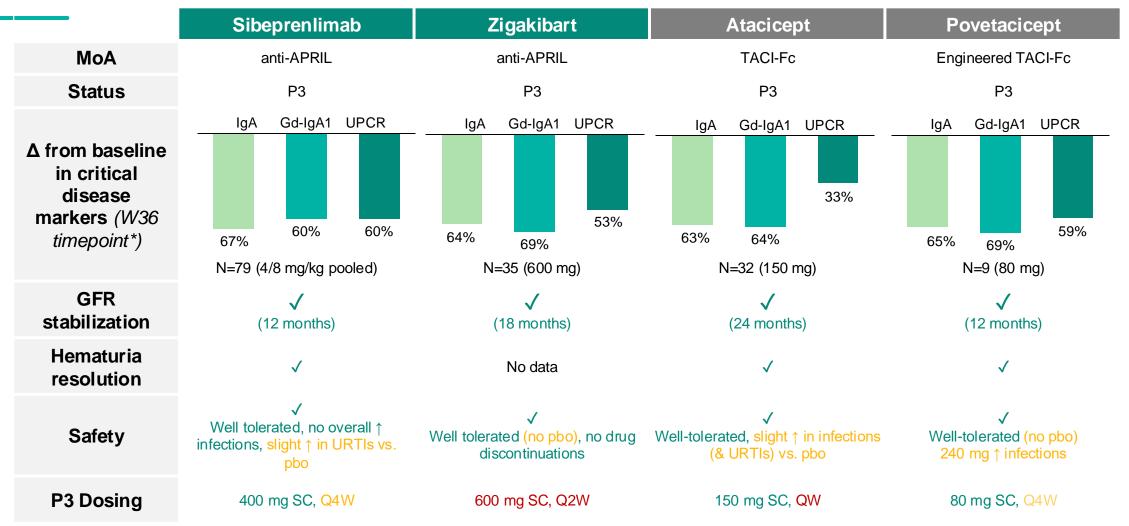


Reductions in proteinuria and IgA in IgAN clinical studies indicate APRIL inhibition is the driving force behind TACI-Fc efficacy





Anti-APRILs have shown evidence of disease modification and clinical activity that matches or beats TACIs, with reduced immune suppression

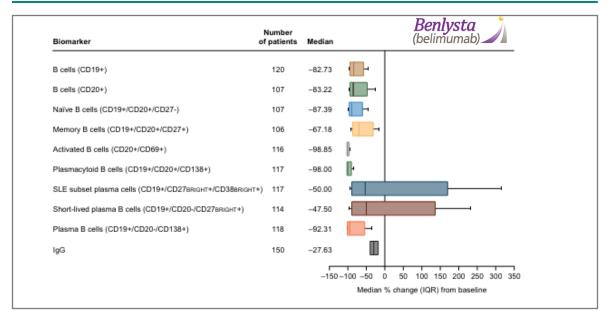


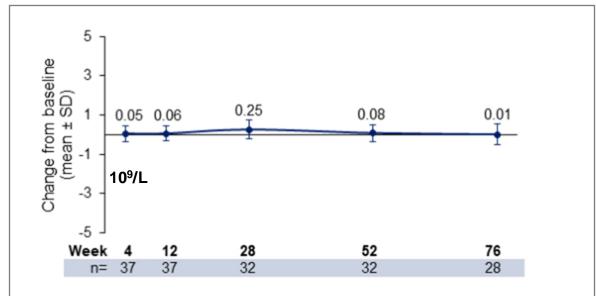


BAFF inhibition is accompanied by the potential for significant longterm B cell depletion

Long-term BAFF inhibition significantly depletes all B cell populations...







~7-year belimumab data in SLE shows **continuous BAFF inhibition lowers B cell populations from ~50% to ~99%**, with most populations decreasing >80%.

Long-term BAFF suppression, in an otherwise young and healthy patient population, **is unnecessary** given equivalent efficacy in IgAN from anti-APRILs and TACI-Fcs observed to date.



JADE-001 is a potential best-in-class anti-APRIL

Blocks APRIL with greater potency than clinical benchmarks

- Validated mechanism of action
- Binds APRIL to neutralize activity
- Greater binding affinity than sibeprenlimab (≥5x) and zigakibart (≥14x)

Multiple antibody discovery strategies pursued to achieve potential best-in-class mAb

Novel IP for composition of matter into 2040s



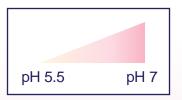
 Longer exposure intended to reduce dosing frequency

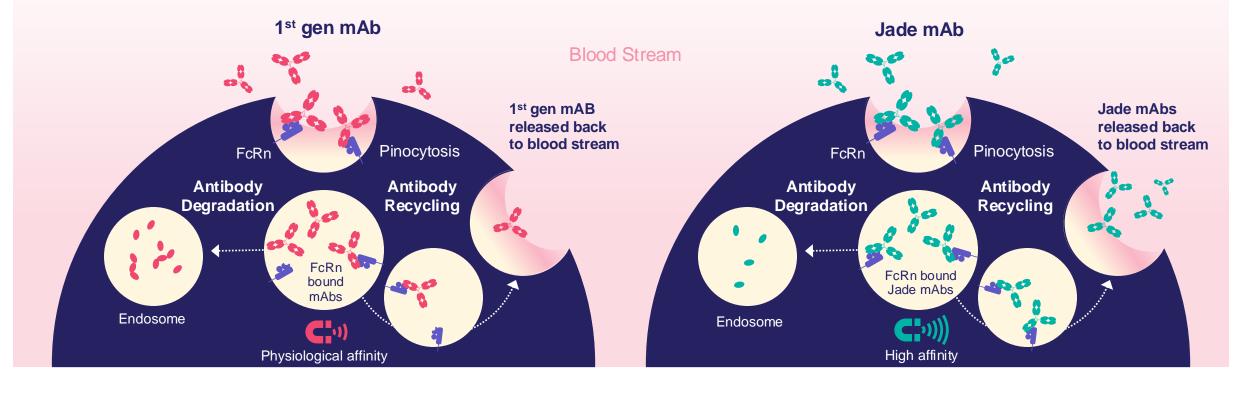
Effector-null human IgG1 Fc



Jade mAbs employ proven half-life extension technology

- Jade mAbs designed to be recycled back into circulation more readily
- Drug exists at much higher levels to enable longer duration of effect
- Fewer injections decrease patient burden and can improve compliance and penetration



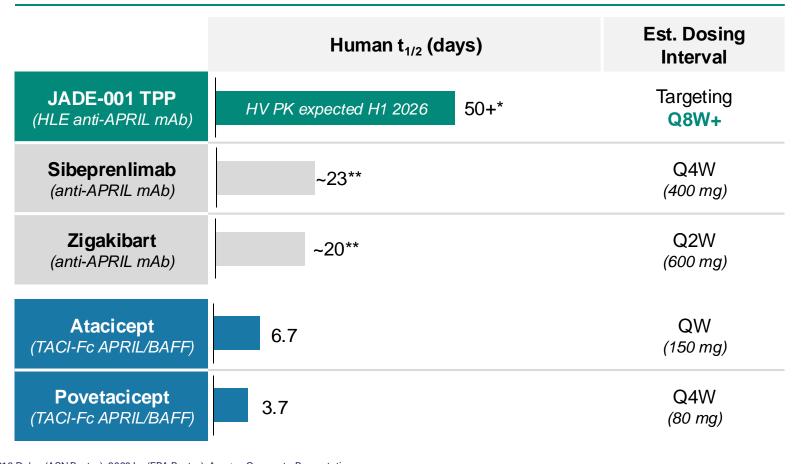




Goal of JADE-001 is to introduce Q8W+ dosing for patients with IgAN via well-established half-life extension technology

Prior experience, including with Paragon-generated mAbs, indicates HLE could significantly improve dosing over anti-APRILs in development

- High potency can potentially further drive lower dosing frequency
- Already demonstrated for APRIL by sibeprenlimab's Q4W dosing vs. zigakibart's Q2W dosing despite nearequivalent half-life.



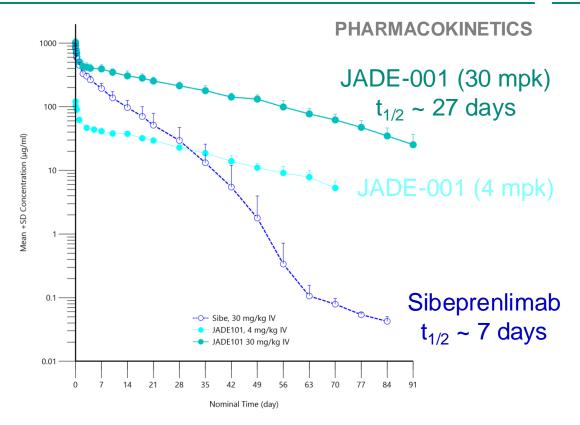


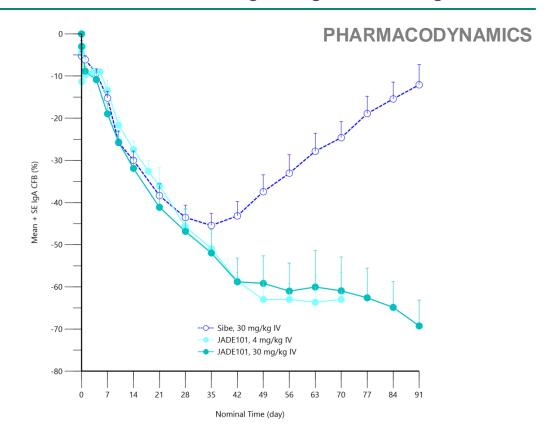
^{**}Available anti-APRIL therapeutics demonstrate appreciable TMDD resulting in dose and dose frequency dependent t1/2. Jade estimated t1/2 of benchmarks from publicly available data at the P3 dose and schedule via standard noncompartmental analysis of observed data bolstered with compartmental modelling approaches capturing clinically observed TMDD. Cross-trial comparisons are inherently limited and presented for hypothesis-generating purposes only.

JADE-001 exhibits a highly differentiated NHP PK/PD profile from sibeprenlimab

>3X increased half-life compared to sibeprenlimab in NHPs coupled with successful mitigation of TMDD ...

... which is accompanied by deep and prolonged IgA reduction in NHPs following a single, saturating dose







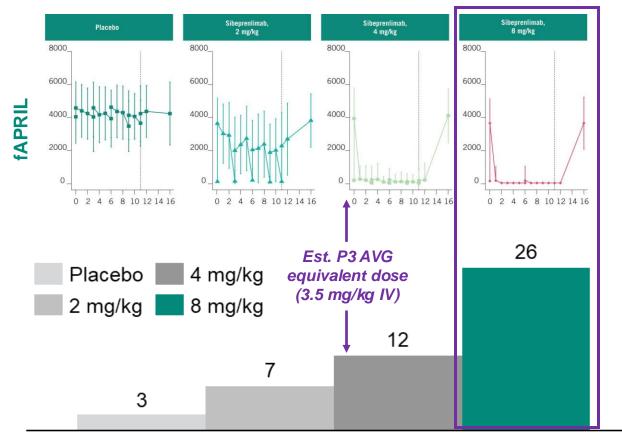
Deeper APRIL suppression could drive superior efficacy

- Highest rates of clinical remission (<0.3 g/day urinary protein excretion) for sibeprenlimab were accompanied by the deepest levels of APRIL suppression.
- Safety profile consistent across dose levels.
- Significant opportunity to drive increased systemic exposure with HLE and maximize clinical remission.
- JADE-001's affinity could further contribute to potential best-in-class efficacy.

JADE-001 has potential to demonstrate superior clinical activity by maximizing remission rates in significantly more patients than other anti-APRIL programs in development.



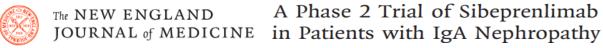
A Phase 2 Trial of Sibeprenlimab in Patients with IgA Nephropathy

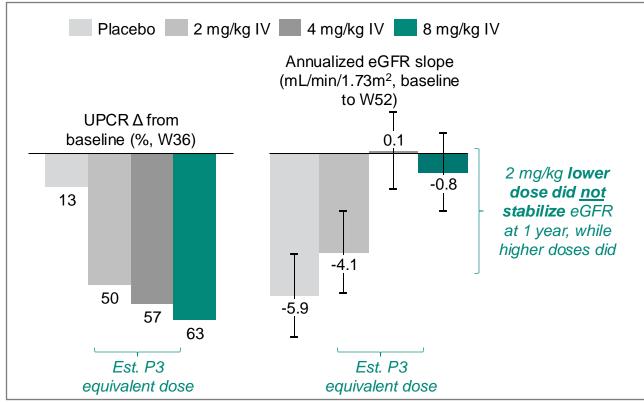




Sibeprenlimab is potentially under-dosed in ongoing Phase 3 trial

- Sibeprenlimab dosed as a single 400mg SC injection Q4W in ongoing global Phase 3 VISIONARY trial.
- 400 mg SC Q4W equates to ~3.5 mg/kg IV for average IgAN patient (2.5-6 mg/kg).
- Estimated Phase 3 equivalent dose range demonstrated lower efficacy on key endpoints in Phase 2 ENVISION trial (as seen on right).
- ~50% of HV in P1 SAD showed positive antidrug antibody activity following single SC dose, which may further impact PK, efficacy, and safety profile in Phase 3.





Potential under-dosing of sibeprenlimab creates additional opportunity for JADE-001 to demonstrate potential best-in-class clinical activity for patients.



Potential path to early clinical proof-of-concept and accelerated approval in the US

| MOA | Program | Discovery | Phase 1 Initiation | Potential Healthy Volunteer Data | Potential Indications |
|------------|----------|-----------|--------------------|-------------------------------------|--------------------------|
| anti-APRIL | JADE-001 | Ongoing | 2H 2025 | 1H 2026 | IgAN |

- NHP and Phase 1 PK/PD could provide early signals of clinical activity; IgA reduction in health volunteers has been observed to be highly correlated with clinical activity.
- 9-month proteinuria data predictive of kidney function preservation, supports potential for accelerated approval and faster path to market prior to eGFR confirmatory data.

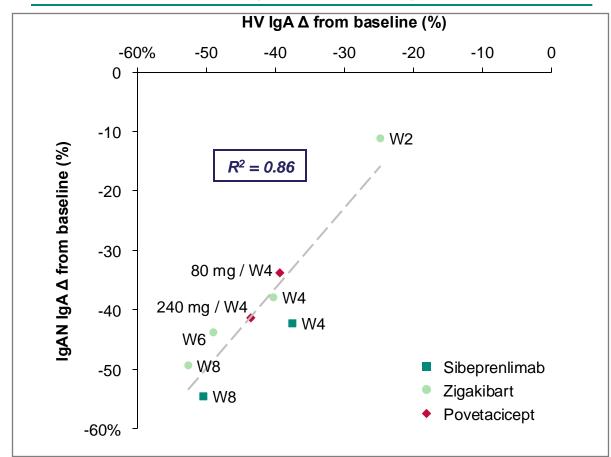
Proof-of-concept IgA healthy volunteer data expected in 1H 2026



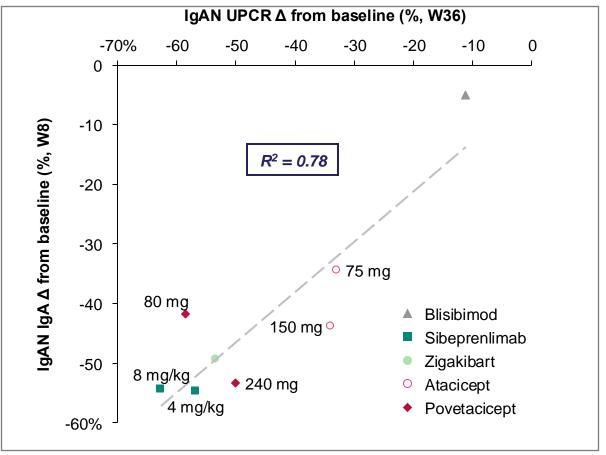
IgA reduction in healthy volunteers is the critical inflection point for clinical development in IgAN

IgA reduction in HVs has been observed to be **highly correlated** with IgA reduction in IgAN patients

...and IgA reduction was observed to correlate with W36 UPCR reduction, the **endpoint for accelerated approval**



Presentation); Anthera 2017 10-K; 2024 Lafayette (KI Reports); 2024 Madan (ASN Presentation)





Pipeline opportunities beyond IgAN



Additional Jade programs expected to focus on best-in-class product profiles in high-value inflammation and immunology indications



I&I indications with significant market opportunity



Potential best-inclass and bestin-indication product profile



Potential rapid path to clinical PoC



Expected minimal competition



Jade team expertise

Evaluating additional opportunities to **build pipeline of potentially best-in-class** I&I therapies.



Jade aims to develop transformative therapies for high-value inflammation and immunology indications

Jade is well capitalized to advance programs with ~\$300M* of committed funding from a syndicate of top healthcare investors



















| MOA | Program | Discovery | IND- enabling | Planned Clinical FIH | Planned Healthy Volunteer Data |
|-------------|----------|-----------|------------------|----------------------------|--------------------------------------|
| anti-APRIL | JADE-001 | | | 2H25 | 1H26 |
| Undisclosed | JADE-002 | | | 1H26 | |
| Undisclosed | JADE-003 | | | 1H27 | |



Estimated capitalization following close of transactions with Aerovate and pre-closing private placement

Shares on an as-**Expected ownership of Estimated** converted basis the combined company dividend per share Shares of common stock outstanding 28,867,711 1.6% **Aerovate** Shares of common stock outstanding 202,760,666 **Jade** (including shares underlying option grants) **Biosciences** Series A shares 428,776,000 98.4% N/A Shares of common stock 932,531,887 Pre-closing financing Pre-funded warrants 262,898,748 Estimated total shares of common stock of the 1,855,835,012 combined company post-closing*



^{*}Prior to closing, Aerovate expects to declare a cash dividend to pre-merger Aerovate stockholders, distributing excess net cash estimated to be approximately \$65 million.

**Please refer to AVTE's SEC filings for additional information, including the Registration Statement on Form S-4 that AVTE has filed in connection with the transaction.



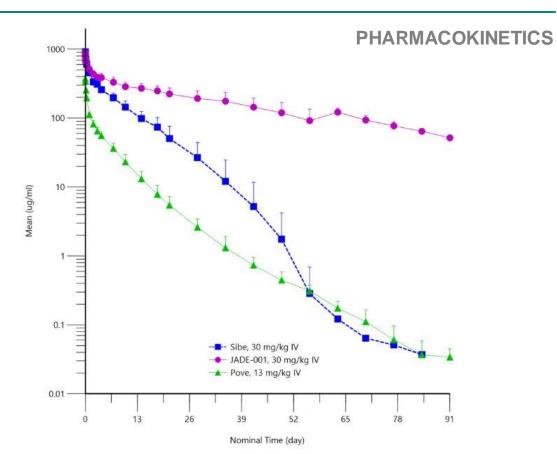
www.JadeBiosciences.com

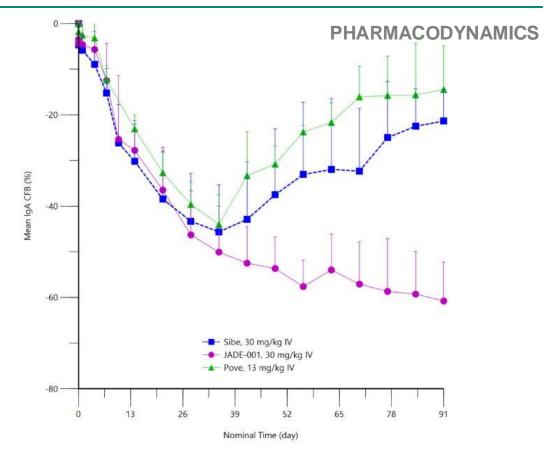
info@jadebiosciences.com

JADE-001 HLE strategy and profile in NHPs shows promise*

~3X increased half-life over sibeprenlimab in NHPs...

... which is **accompanied by prolonged IgA reduction** in NHPs following a single, saturating dose







Sources: Internal data

Note: *Data shown is from an initial clone. A development candidate has been selected from a pool of profiled clones. We have entered into an exclusive JADE-001 license agreement with Paragon. Sibeprenlimab (n=12) and JADE-001 (n=5) lead clone dosed at 30 mg/kg (single dose), Povetacicept (n=4) dosed at 13 mg/kg (equimolar, single dose). Comparison agents manufactured based on available sequences from patents / company releases. Studies are ongoing.