AEON BIOPHARMA

PrabotulinumtoxinA

Potential biosimilar for therapeutic indications

Corporate Presentation

October 2024

Forward-Looking Statements

This presentation includes forward-looking statements. All statements other than statements of historical facts contained in this presentation, including statements concerning possible or assumed future actions, business strategies, events or results of operations, and any statements that refer to projections, forecasts or other characterizations of future events or circumstances, including any underlying assumptions, are forward-looking statements. These statements may involve known and unknown risks, uncertainties and other important factors that may cause the actual results, performance or achievements of AEON Biopharma, Inc. ("AEON") to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. These statements may be preceded by, followed by or include the words "believes", "estimates", "expects", "projects", "forecasts", "may", "will", "should", "seeks", "plans", "scheduled", "anticipates" or "intends" or similar expressions. The forward-looking statements in this presentation are only predictions. AEON has based these forward-looking statements largely on AEON's current expectations and projections about future events and financial trends that AEON believes may affect its business, financial condition and results of operations.

These forward-looking statements are based upon estimates and assumptions that, while considered reasonable by AEON and its management, are inherently uncertain. Factors that may cause actual results to differ materially from current expectations include, but are not limited to: (i) the outcome of any legal proceedings that may be instituted against AEON or others; (ii) AEON's future capital requirements; (iii) AEON's ability to raise financing in the future; (iv) AEON's ability to continue to meet continued stock exchange listing standards; (v) the ability of AEON to implement its strategic initiatives, including the continued development of ABP-450 and potential submission of a Biologics License Application for therapeutic uses of ABP-450; (vi) the ability of AEON to satisfy regulatory requirements; (vii) the ability of AEON to defend its intellectual property; (viii) the possibility that AEON may be adversely affected by other economic, business, regulatory, and/or competitive factors; and (ix) other risks and uncertainties set forth in the section entitled "Risk Factors" and "Cautionary Note Regarding Forward-Looking Statements" in AEON's Annual Report on Form 10-K for the year ended December 31, 2023 and any current or periodic reports filed with the Securities and Exchange Commission (the "SEC"), which are available on the SEC's website at www.sec.gov.

Because forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified and some of which are beyond AEON's control, you should not rely on these forward-looking statements as predictions of future events. The events and circumstances reflected in AEON's forward-looking statements may not be achieved or occur, and actual results could differ materially from those projected in the forward-looking statements. Moreover, AEON operates in an evolving environment and a competitive industry. New risks and uncertainties may emerge from time to time, and it is not possible for management to predict all risks and uncertainties, nor can AEON assess the impact of all factors on AEON's 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 statements AEON may make in this presentation. As a result of these factors, although AEON believes that the expectations reflected in its forward-looking statements are reasonable, AEON cannot assure you that the forward-looking statements in this presentation will prove to be accurate. Except as required by applicable law, AEON does not plan to publicly update or revise any forward-looking statements contained herein, whether as a result of any new information, future events, changed circumstances, or otherwise. AEON qualifies all of its forward-looking statements by these cautionary statements. You should view this presentation completely and with the understanding that the actual future results, levels of activity, performance, events and circumstances of AEON may be materially different from what is expected.

This presentation concerns anticipated products that are under clinical investigation and which have not yet been approved for marketing by the FDA. These anticipated products are currently limited by Federal law to investigational use, and no representation is made as to their safety or effectiveness for the purposes for which they are being investigated.

Certain information contained in this presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and AEON's own internal estimates and research. AEON has not independently verified, and makes no representation as to the adequacy, fairness, accuracy or completeness of, any information obtained from third-party sources. In addition, all of the market data included in this presentation involves a number of assumptions and limitations, and there can be no guarantee as to the accuracy or reliability of such assumptions. Finally, AEON's own internal estimates and research have not been verified by any independent source.

Biosimilar Pathway - Faster to Market With Broader Indication Potential

Biosimilar Pathway	Pursuing the 351(k) regulatory pathway with **PrabotulinumtoxinA** as biosimilar to Botox Potential to receive approval for all Botox therapeutic indications (12 currently)
Limited Competition/Large Market	Only one other known biosimilar in active development Botox revenue ~$2.5B for US therapeutic indications – growing high single digits
Established Regulatory Pathway	Aligned with the FDA on the regulatory pathway during Q3 2024 meeting Comparative analytical assessment (CAA) studies anticipated to commence in Q4 2024
FDA Approved Manufacturing	PrabotulinumtoxinA approved in 2019 under aesthetic-only BLA (separately held by Evolus) Manufacturing site approved by FDA, EMA and Health Canada for aesthetic product
Substantial Existing Evidence	Previous analytical characterization provides evidence supporting functional and structural “similarity” Successfully completed Phase 2 study (September 2022) in cervical dystonia
Next Steps & Limited IP Risk	Plan to conduct BPD* Type 2 meeting with FDA in 2025 to review the results from the CAA studies and confirm the remainder of the proposed study package No neurotoxin composition-of-matter patents minimizes litigation risk

AEON BIOPHARMA

BPD: Biosimilar (Biological) Product Development

Experienced Management Team

Leadership team with relevant industry experience and track record of success

Marc Forth

Chief Executive Officer

- 25+ years of Biopharma experience
- Former US Business Lead for BOTOX® Therapeutic
- 16 years at Allergan dedicated to the entire BOTOX® franchise
- 7 years at TAP Pharmaceuticals responsible for Lupron Depot (Urology, Oncology and Gynecology)

Chad Oh, MD

Chief Medical Officer

- 30+ years of combined experience in academia and the pharmaceutical industry
- Responsible for multiple IND, NDA, and BLA submissions
- Chief, Division of Allergy and Immunology at Harbor-UCLA Medical Center
- Associate Professor, Department of Pediatrics at UCLA School of Medicine
- Published multiple scientific papers, books, book chapters, and abstracts, including 38 peer-reviewed original scientific papers

Alex Wilson

EVP, Chief Legal Officer & Secretary

- 12+ years of legal experience in corporate governance, mergers & acquisitions and capital markets
- Associate General Counsel of Glaukos Corporation, responsible for business development activities, capital markets, corporate governance and SEC reporting
- Counsel at O'Melveny & Myers

Jennifer Sy

VP, Corporate Controller

- 18+ years of finance and accounting experience in biotech, healthcare, technology and software industries
- Senior management roles, responsible for establishing stream-lined accounting and financial reporting functions for publicly-traded and privately-held companies
- Extensive experience in SPAC mergers, SEC reporting and ERP implementations

PrabotulinumtoxinA - Same 900 kDa Molecular Weight as Botox

	BOTOX® onabotulinumtoxinA AbbVie Inc.	AEON BIOPHARMA	XEOMIN® incobotulinumtoxinA Merz Pharma	Dysport® (abobotulinumtoxinA) Ipsen Group	DAXXIFY® daxibotulinumtoxinA-lanm injection Revance
Molecular Size	900 kDa	900 kDa	150 kDa	~400 kDa	150 kDa
Approved Therapeutic Indications	1. Chronic migraine 2. Overactive bladder 3. Detrusor overactivity 4. Pediatric detrusor overactivity 5. Adult upper limb spasticity 6. Adult lower limb spasticity 7. Pediatric upper limb spasticity 8. Pediatric lower limb spasticity 9. Cervical dystonia 10. Axillary hyperhidrosis 11. Blepharospasm 12. Strabismus	None	1. Blepharospasm 2. Cervical dystonia 3. Adult upper limb spasticity 4. Chronic sialorrhea	1. Cervical dystonia 2. Spasticity	1. Cervical dystonia
In Development	1. Episodic Migraine 2. Essential Tremor 3. IC/BPS	Biosimilar	Undisclosed	1. Neurogenic detrusor overactivity 2. Migraine (episodic & chronic)	1. Adult upper limb spasticity
FDA Approved	✓		✓	✓	✓
US Share	95%		2%	2%	

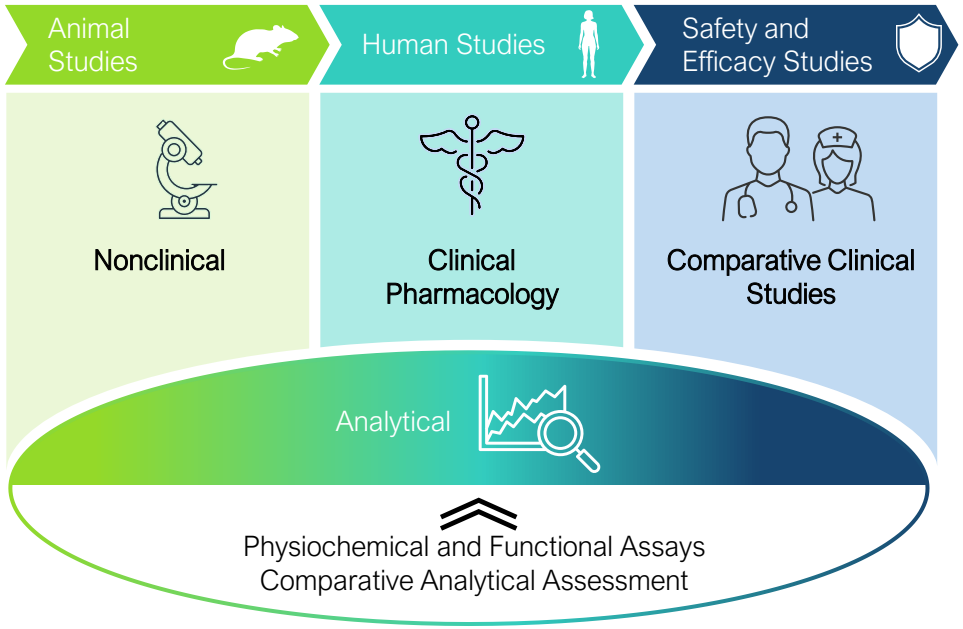
AEON BIOPHARMA

Sources: Decision Resources Group Therapeutic Botulinum Toxin Market Analysis Global 2021

Biosimilar Requirements for FDA Approval

FDA evaluates each proposed biosimilar and advises on the extent of testing to establish biosimilarity

1. **Establish manufacturing**
   - ✓ PrabotulinumtoxinA approved in 2019 as Jeuveau and manufactured by Daewoong[1]
2. **Analytical characterization**
   - ✓ Physiochemical and functional assays supportive of “similarity”
   - ○ Comparative analytical studies to confirm structural and functional similarity
3. **Animal studies**
   - ✓ Toxicology and pharmacology information
4. **Clinical studies**
   - ✓ Phase 2 in cervical dystonia
   - ○ Potential comparative Phase 3 program with clinical efficacy endpoint



FDA meeting in Q3 2024:

1. Aligned on conducting comparative analytical studies
2. Plan to meet in 2025 to review results and confirm remainder of the proposed study package

AEON BIOPHARMA

1. Manufacturing facilities for therapeutics use would require separate regulatory inspection
https://www.fda.gov/drugs/biosimilars/review-and-approval
https://www.fda.gov/media/82647/download

Seeking Approval of PrabotulinumtoxinA as a Biosimilar to Botox

Potential approval for all 12 therapeutic indications - >$2.5 B in US sales

FDA

- A biosimilar can meet the requirements for approval based on data from a clinical study that demonstrates safety and effectiveness in an appropriate condition[1]
- FDA may approve a biosimilar for indications without direct clinical studies in those indications if the manufacturer provides adequate scientific justification[1]

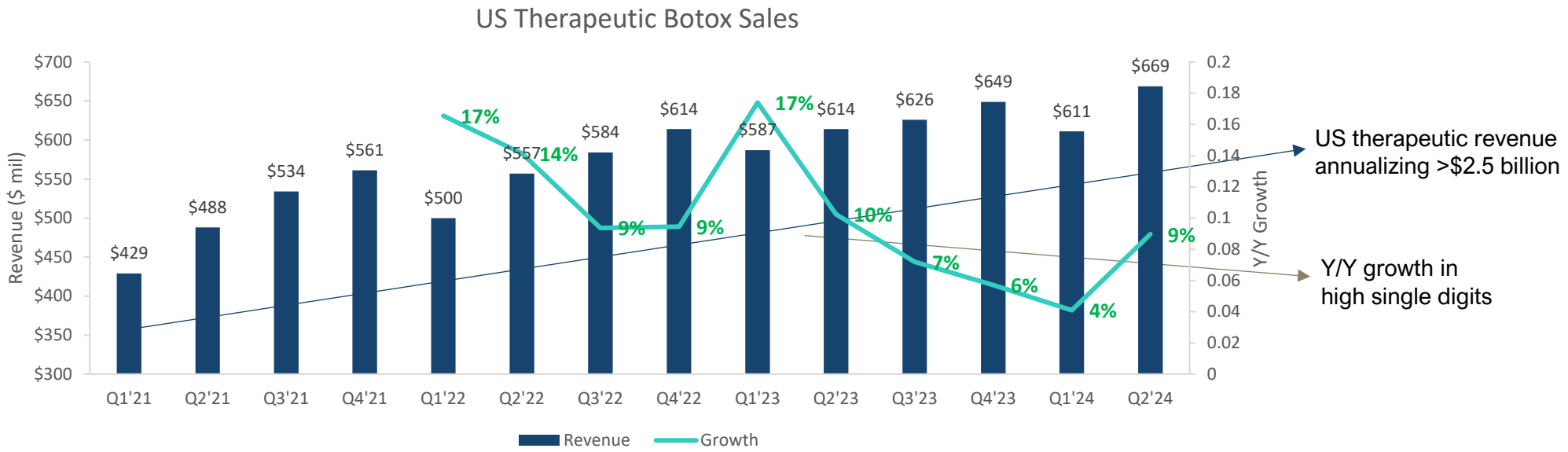
- Chronic migraine
- Overactive bladder
- Detrusor overactivity
- Pediatric detrusor overactivity
- Adult upper limb spasticity
- Adult lower limb spasticity
- Pediatric upper limb spasticity
- Pediatric lower limb spasticity
- Cervical dystonia
- Axillary hyperhidrosis
- Blepharospasm
- Strabismus

AEON BIOPHARMA

1. https://www.fda.gov/drugs/biosimilars/review-and-approval

Botox US Therapeutic Sales 2021-present – 95% Share of US Market

$2.5B in US therapeutic sales in 2023 continues to show consistent growth



Anticipated Volume Growth Drivers

- **Current indications:** Organic growth in current indications driven primarily by continued investment in disease awareness and growing patient populations
- **New indications:** Development in therapeutic specialties that do not currently have a toxin treatment option
- **Improved reimbursement:** Favorable dynamics to facilitate coverage at current and projected pricing levels

AEON BIOPHARMA

Source: AbbVie quarterly earnings reports

AEON BIOPHARMA

Cervical Dystonia

Phase 2 completed

Potential comparative Phase 3 to support BLA submission

Cervical Dystonia - Gold Standard Indication to Establish Toxin Efficacy

Phase 2 successfully completed in 2022

The Disorder

- ~50,000 US patients
- Cervical dystonia is a chronic condition with no cure
- Painful and debilitating twisting movements of neck and shoulders
- Botulinum toxin injection is the standard of care
- Established outcome measures and regulatory pathway

Foundational Indication

- CD has been the foundational disorder used to establish efficacy in the therapeutic setting during clinical development of botulinum toxins
- Regulatory endpoints well-established

Phase 3-Ready

- Phase 2 program was successfully completed in 2022
- Anticipate Phase 3 program would include a head-to-head comparison to Botox® to demonstrate therapeutic equivalence if there are residual uncertainties after completion of analytical assessments

AEON BIOPHARMA

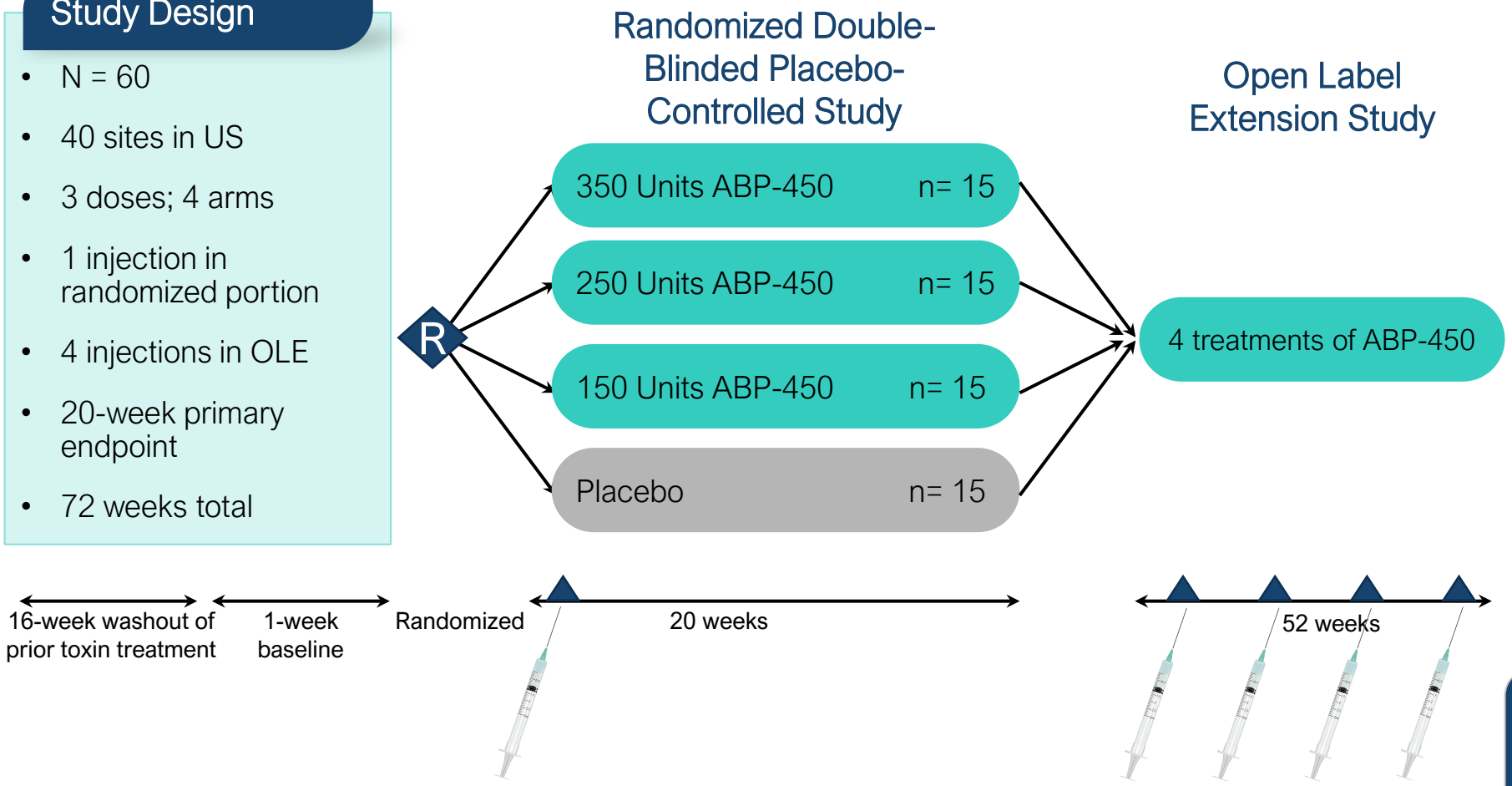
Sources: Company estimates based on 2017 US Census Projections
Defazio, Descriptive Epidemiology of Cervical Dystonia (2013)
Richardson, American Academy of Neurology - Dystonia Treatment (2017)

Cervical Dystonia Phase 2 Dose Ranging Study Design

Data reported September 2022 - 17 months after first patient dosed

Study Design

- N = 60
- 40 sites in US
- 3 doses; 4 arms
- 1 injection in randomized portion
- 4 injections in OLE
- 20-week primary endpoint
- 72 weeks total



Endpoints

Primary:

- Safety of ABP-450

Secondary:

- Change in TWSTRS
- PGI-C and CGI-C
- PGI-S and CGI-S

Exploratory:

- C-SSRS
- Dysphagia Score

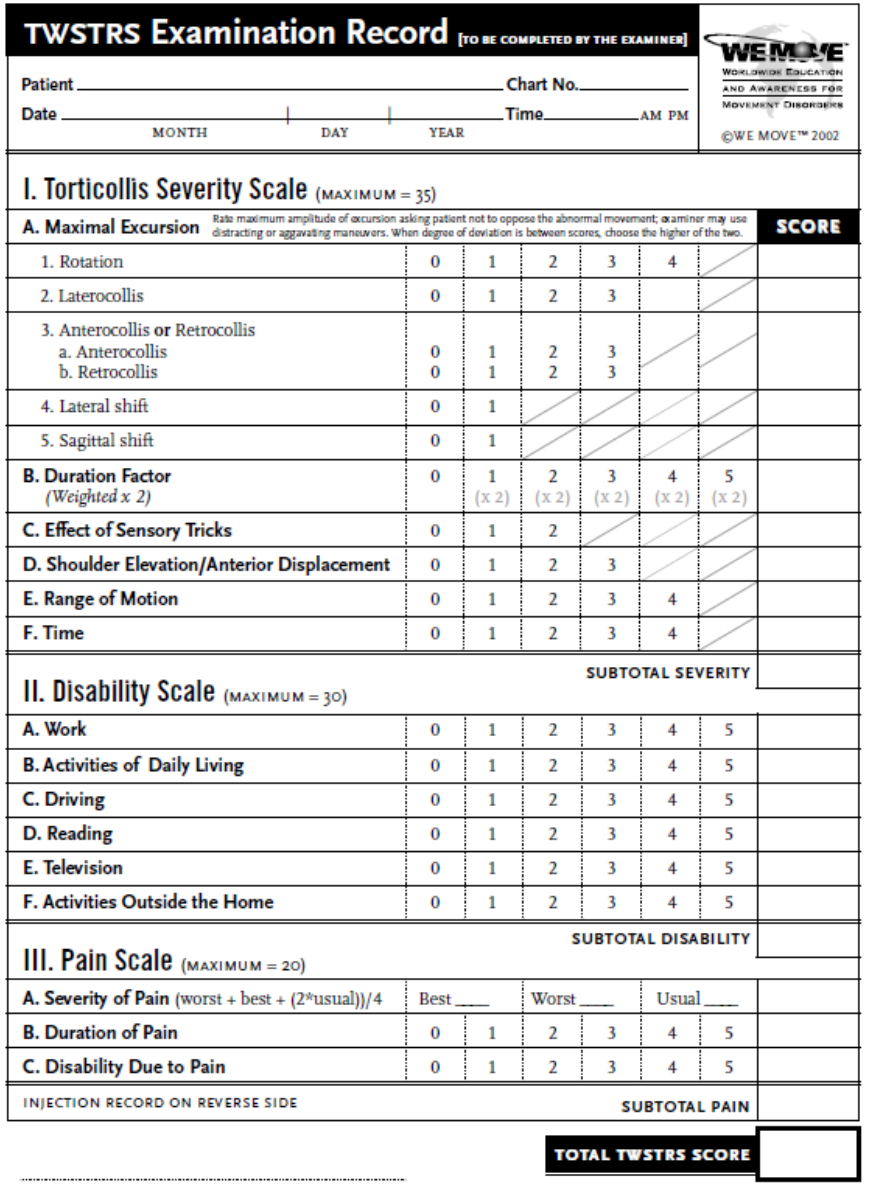
- First patient dosed April 2021
- Phase 2 top line data reported in September 2022

AEON BIOPHARMA

Toronto Western Spasmodic Torticollis Rating Scale (TWSTRS)

TWSTRS is well-established primary endpoint for toxin approvals

- FDA accepted primary endpoint most often used in neurotoxin studies in cervical dystonia as basis for approval.
- Maximum score of 85 (most severe)
  - Decreasing TWSTRS score indicates improvement
  - 3 subscales: severity, disability, and pain
- Validated outcome parameter
- Change from baseline in TWSTRS score was utilized in Aeon Phase 2 study and will be primary endpoint for Phase 3.



TWSTRS Examination Record [TO BE COMPLETED BY THE EXAMINER]

WE MOVE — Worldwide Education and Awareness for Movement Disorders

Patient _____ Chart No. _____

Date _____ (MONTH / DAY / YEAR) Time _____ AM PM

©WE MOVE™ 2002

I. Torticollis Severity Scale (MAXIMUM = 35)

A. Maximal Excursion — Rate maximum amplitude of excursion asking patient not to oppose the abnormal movement; examiner may use distracting or aggravating maneuvers. When degree of deviation is between scores, choose the higher of the two.							SCORE
1. Rotation	0	1	2	3	4		
2. Laterocollis	0	1	2	3			
3. Anterocollis or Retrocollis							
a. Anterocollis	0	1	2	3			
b. Retrocollis	0	1	2	3			
4. Lateral shift	0	1					
5. Sagittal shift	0	1					
B. Duration Factor *(Weighted x 2)*	0	1 (x 2)	2 (x 2)	3 (x 2)	4 (x 2)	5 (x 2)	
C. Effect of Sensory Tricks	0	1	2				
D. Shoulder Elevation/Anterior Displacement	0	1	2	3			
E. Range of Motion	0	1	2	3	4		
F. Time	0	1	2	3	4		
						SUBTOTAL SEVERITY	

II. Disability Scale (MAXIMUM = 30)

A. Work	0	1	2	3	4	5	
B. Activities of Daily Living	0	1	2	3	4	5	
C. Driving	0	1	2	3	4	5	
D. Reading	0	1	2	3	4	5	
E. Television	0	1	2	3	4	5	
F. Activities Outside the Home	0	1	2	3	4	5	
						SUBTOTAL DISABILITY	

III. Pain Scale (MAXIMUM = 20)

A. Severity of Pain (worst + best + (2*usual))/4	Best ___		Worst ___		Usual ___		
B. Duration of Pain	0	1	2	3	4	5	
C. Disability Due to Pain	0	1	2	3	4	5	
INJECTION RECORD ON REVERSE SIDE						SUBTOTAL PAIN	

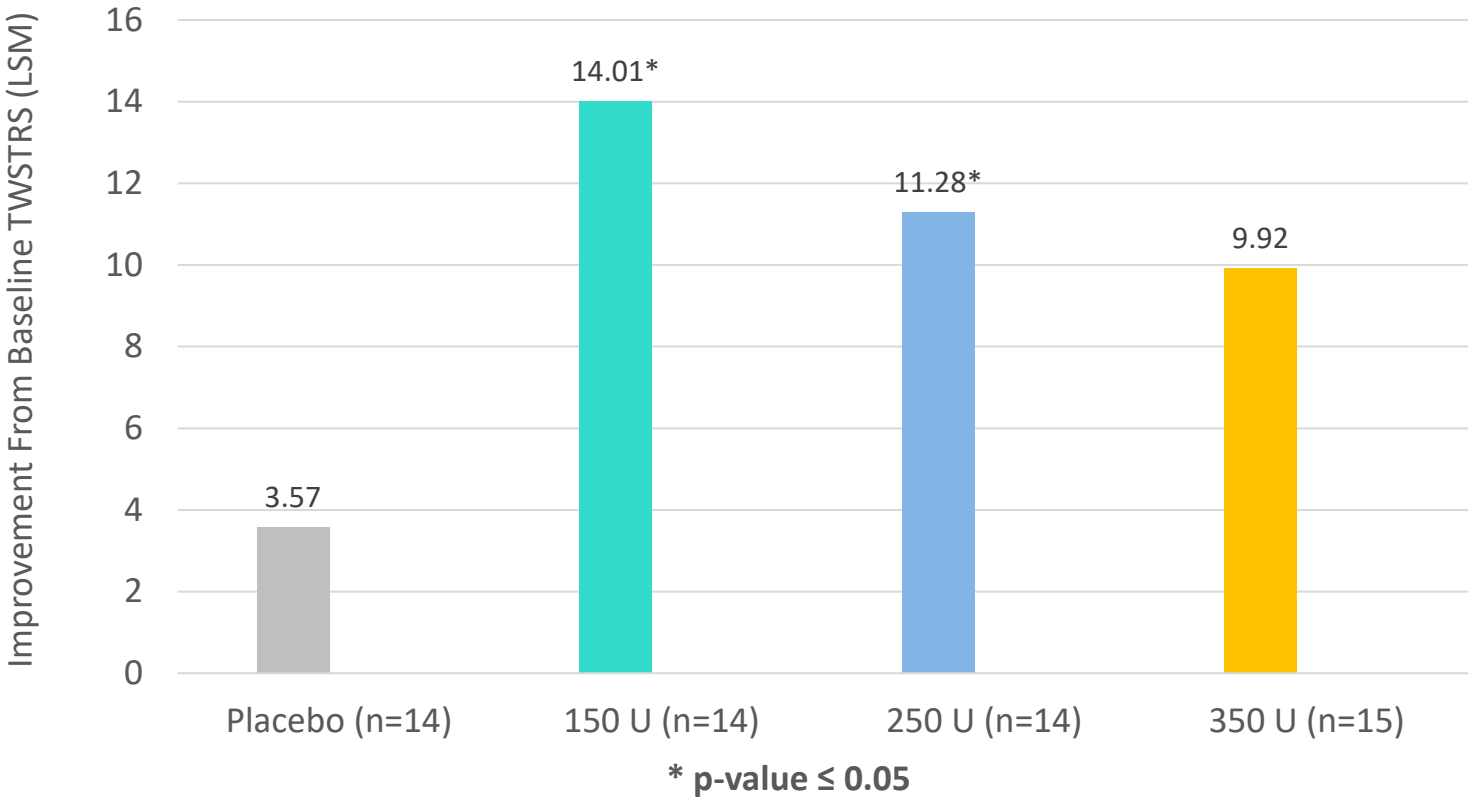
TOTAL TWSTRS SCORE

PHYSICIAN'S SIGNATURE

AEON BIOPHARMA

Primary Efficacy Endpoint: Change from Baseline TWSTRS at Week 4

200 U dose will be utilized in Phase 3



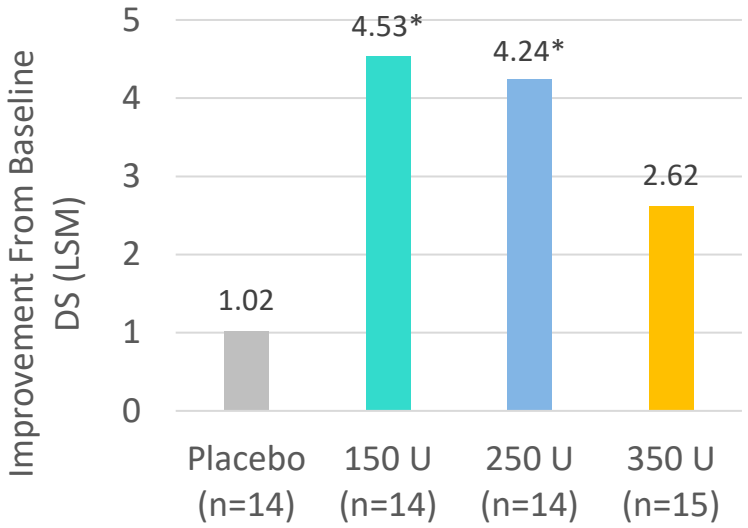
- 150 U and 250 U demonstrated statistically significant improvement over placebo.
  - p=0.0070 (150 U vs. Placebo)
  - p=0.0406 (250 U vs. Placebo)
  - p=0.0864 (350 U vs. Placebo)
- Treatment effect between active doses was not statistically significant.
  - p=0.4624 (150 U vs. 250 U)
  - p=0.2598 (150 U vs. 350 U)
  - p=0.7071 (250 U vs. 350 U)

AEON BIOPHARMA

Secondary Efficacy Endpoint at Week 4 (TWSTRS – Subscales)

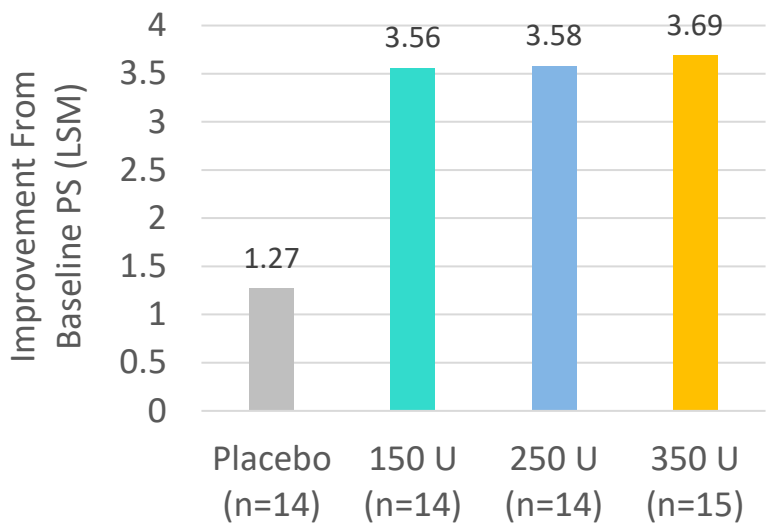
PrabotulinumtoxinA demonstrated consistency across the 3 subscales

Disability Subscale



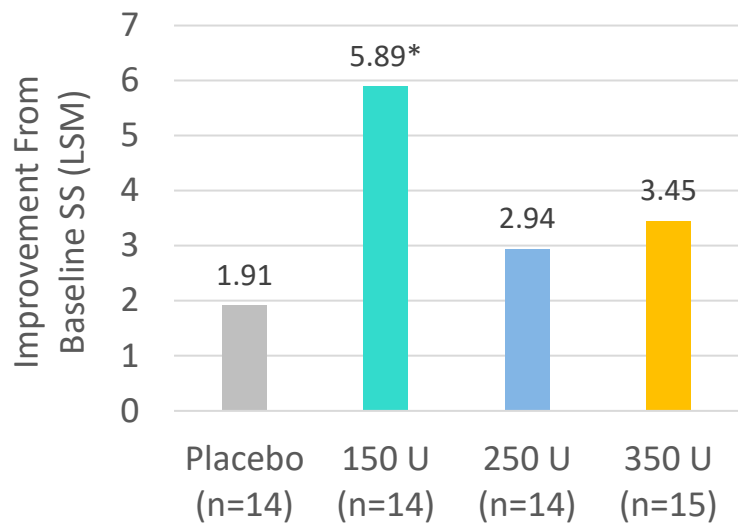
Statistics Test Result:
p=0.0258 (150 U vs. Placebo)
p=0.0420 (250 U vs. Placebo)
p=0.2942 (350 U vs. Placebo)

Pain Subscale



Statistics Test Result:
p=0.1351 (150 U vs. Placebo)
p=0.1332 (250 U vs. Placebo)
p=0.1081 (350 U vs. Placebo)

Severity Subscale



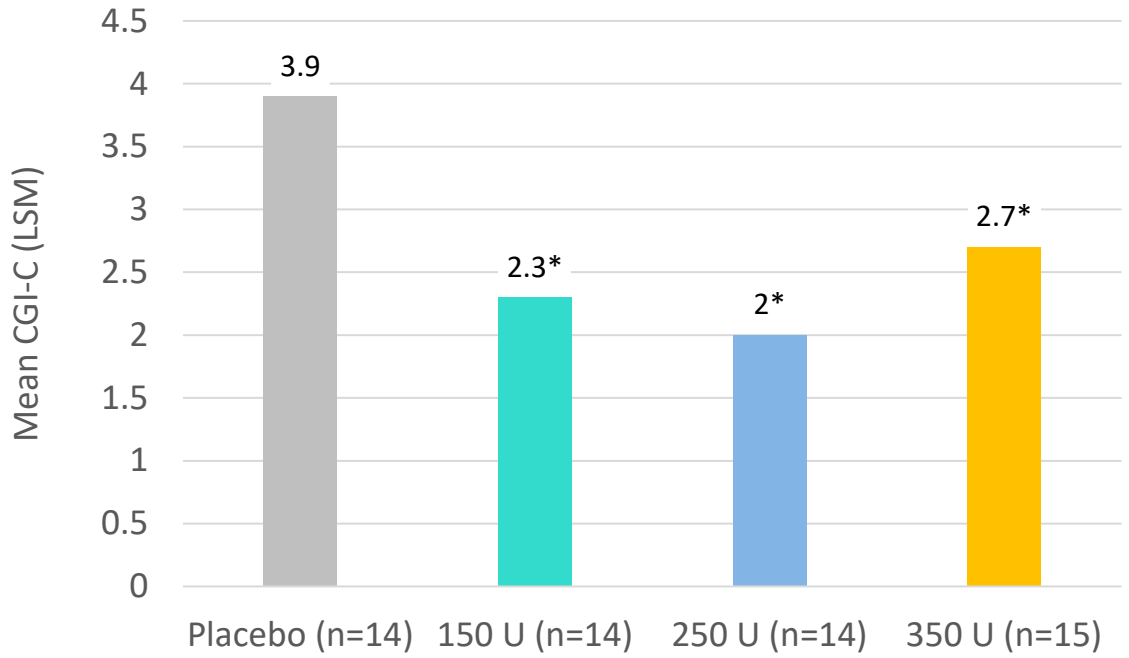
Statistics Test Result:
p=0.0027 (150 U vs. Placebo)
p=0.4290 (250 U vs. Placebo)
p=0.2173 (350 U vs. Placebo)

AEON BIOPHARMA

Secondary Efficacy Endpoint at Week 4: Clinical & Patient Global Impression of Change (CGI-C & PGI-C)

PrabotulinumtoxinA demonstrated statistically significant improvement on both PRO instruments

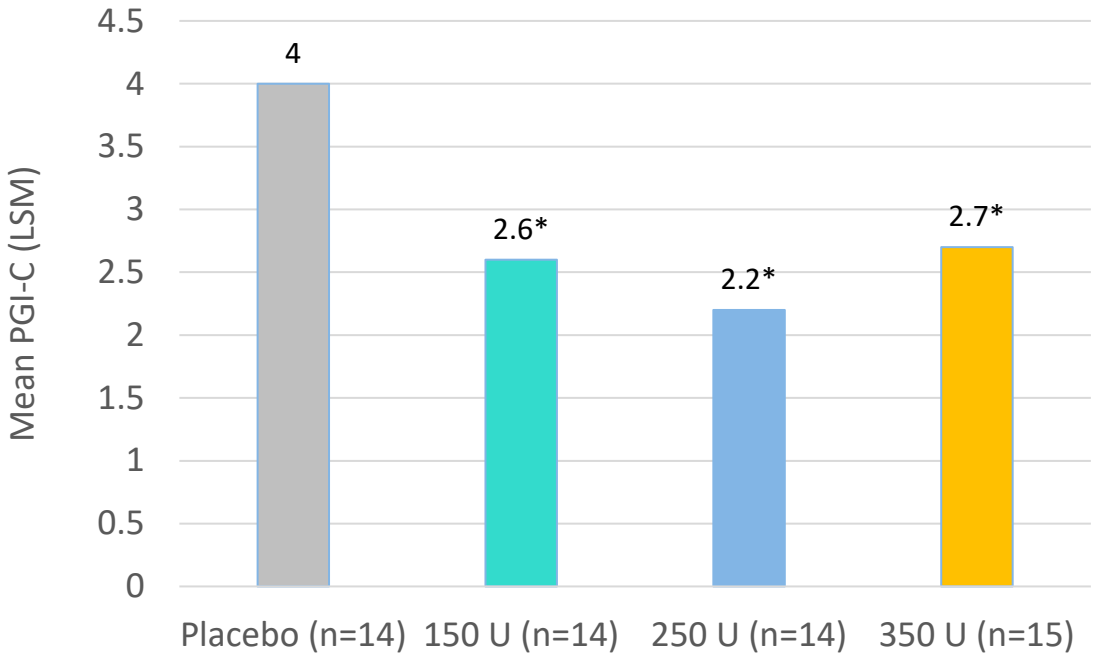
Clinical Global Impression of Change



*** p-value <0.05**

Statistics Test Result:
p=0.0010 (150 U vs. Placebo)
p=0.0001 (250 U vs. Placebo)
p=0.0095 (350 U vs. Placebo)

Patient Global Impression of Change



*** p-value <0.05**

Statistics Test Result:
p=0.0017 (150 U vs. Placebo)
P<0.0001 (250 U vs. Placebo)
p=0.0028 (350 U vs. Placebo)

AEON BIOPHARMA

Safety Summary

AE Summary	Placebo (N=14) n, %	ABP-450 150 Units (N=14) n, %	ABP-450 250 Units (N=16) n, %	ABP-450 350 Units (N=15) n, %	TOTAL ABP-450 (N=45) n, %
ANY TREATMENT-EMERGENT ADVERSE EVENT (TEAE)	9 (64.3%)	8 (57.1%)	12 (75%)	11 (73.3%)	31 (68.9%)
ANY SERIOUES TEAE	0	0	0	0	0
ANY TREATEMENT-RELATED TEAEs* (TRTEAE)	2 (14.3%)	3 (21.4%)	8 (50%)	5 (33.3%)	16 (35.6%)
Dysphagia#	0	0	2 (12.5%)	3 (20%)	5 (11.1%)
Muscular Weakness	0	2 (14.3%)	0	1 (6.7%)	3 (6.7%)
Headache	0	0	1 (6.3%)	1 (6.7%)	2 (4.4%)
Joint swelling	0	0	1 (6.3%)	0	1 (2.2%)
Neck pain	1 (7.1%)	0	1 (6.3%)	0	1 (2.2%)
Torticollis	0	0	1 (6.3%)	0	1 (2.2%)
Nausea	0	0	1 (6.3%)	0	1 (2.2%)
Dizziness	0	0	1 (6.3%)	0	1 (2.2%)
Head discomfort	0	1 (7.1%)	0	0	1 (2.2%)
Presyncope	0	0	0	1 (6.7%)	1 (2.2%)
Feeling abnormal	0	0	1 (6.3%)	0	1 (2.2%)
Injection site pain	1 (7.1)%	1 (7.1%)	0	0	1 (2.2%)
Injection site pruritus	0	0	1 (6.3%)	0	1 (2.2%)
Malaise	0	0	1 (6.3%)	0	1 (2.2%)
Diplopia	0	0	1 (6.3%)	0	1 (2.2%)
Rash macular	0	0	0	1 (6.7%)	1 (2.2%)

* All TRTEAEs were either mild or moderate in severity and transient in nature.

\# All dysphagia cases were mild.

AEON BIOPHARMA

Phase 2 Data Conclusions

- **Phase 2 trial met primary and other key endpoints, supporting the safety and efficacy of PrabotulinumtoxinA in reducing signs and symptoms associated with CD.**

- **PrabotulinumtoxinA demonstrated adverse event rates similar to other botulinum toxins.**
  - Zero discontinuations due to Treatment-Emergent Adverse Events (TEAEs)
  - Low rate of treatment-related TEAEs (TRAEs)
  - Zero dysphagia cases in the 150 U arm and low rate of dysphagia (11%) and muscle weakness (6.7%) overall
  - All TRAEs were mild to moderate in severity and transient in nature

- **PrabotulinumtoxinA demonstrated efficacy similar to other botulinum toxins.**
  - TWSTRS at Week 4 improved 14.01 points in 150 U; 11.28 points in 250 U; 9.92 points in 350 U; 3.57 points in placebo
    - Statistical significance in lower dose arms (150 U and 250 U) vs. placebo and numerical improvement in high dose arm (350 U) vs. placebo
  - Patient Global Impression of Change (PGI-C) demonstrated statistically significant improvement in all three ABP-450 dose groups over placebo
  - Clinical Global Impression of Change (CGI-C) demonstrated statistically significant improvement in all three ABP-450 dose groups over placebo

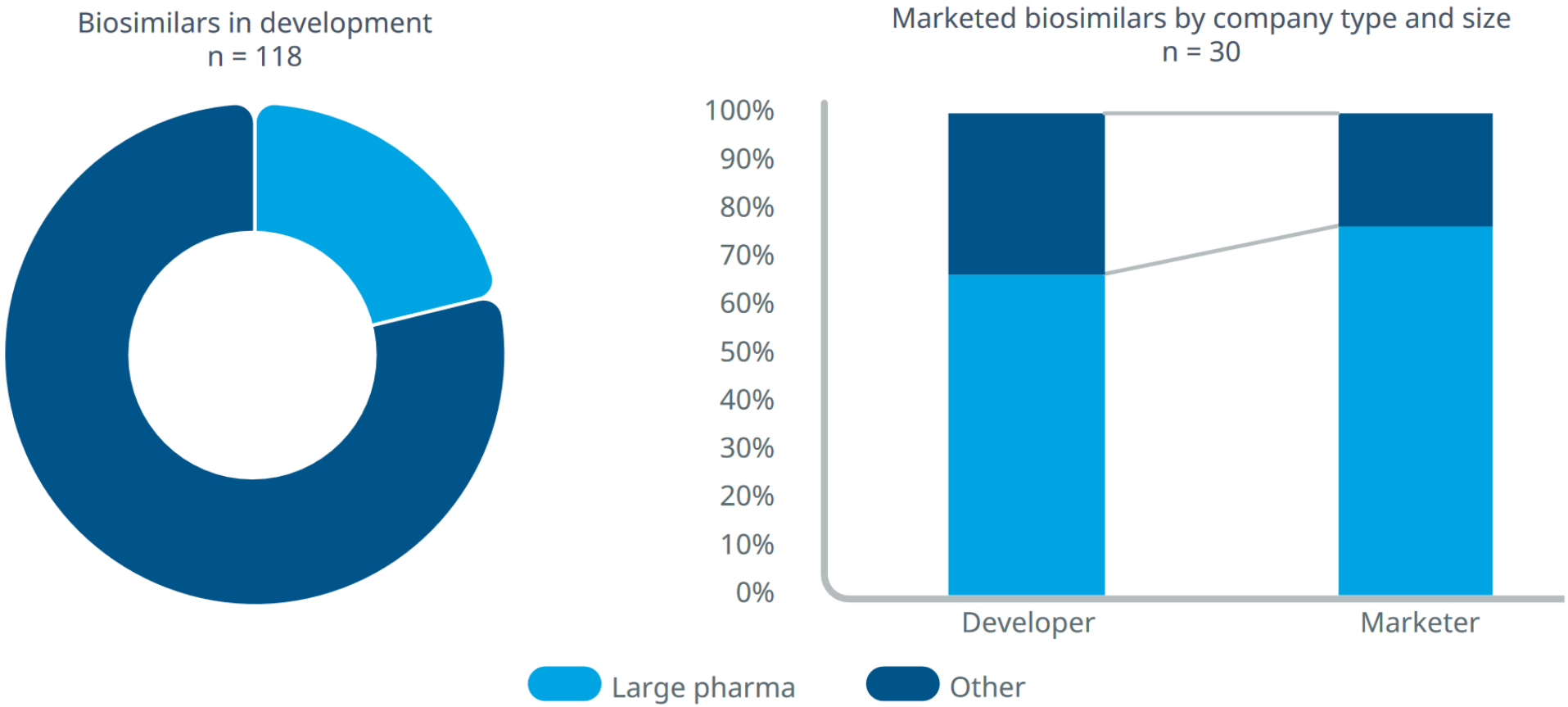
AEON BIOPHARMA

Biosimilar Market Landscape

Favorable regulatory environment
Higher penetration with more recent launches
Still limited competition and predictable pricing dynamics

New Biosimilar Development is Driven by Smaller Companies

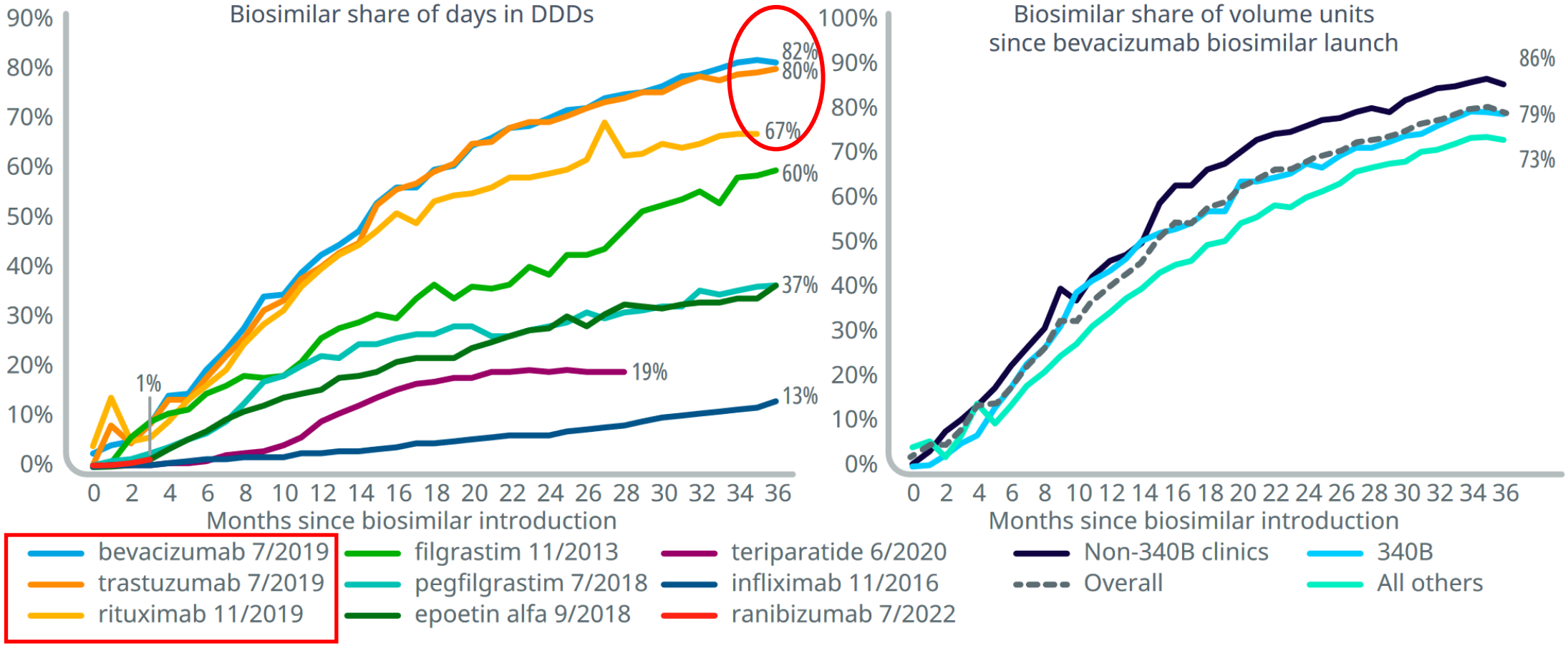
~80% of new biosimilars being developed at small companies, but most marketed by larger pharma



Reproduced with permission; IQVIA "Biosimilars in the United States 2023-2027"
IQVIA Global Biosimilars Database, Sep 2022; IQVIA Institute, Nov 2022.

More Recent Biosimilar Launches are Achieving Higher Shares

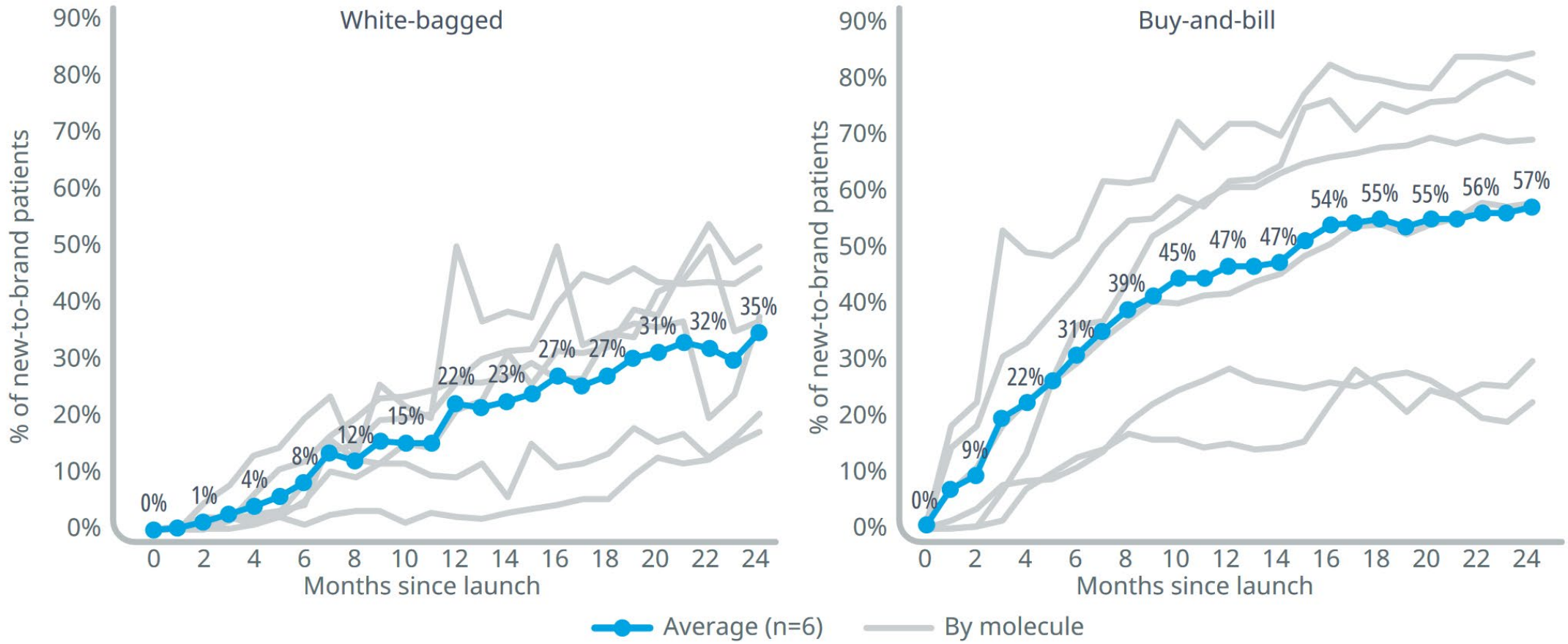
3 launches in 2019 achieved ~70% penetration within 3 years



Reproduced with permission; IQVIA "Biosimilars in the United States 2023-2027"
IQVIA MIDAS, IQVIA DDD, Oct 2022; IQVIA Institute, Dec 2022

Stronger Uptake of Biosimilars in Buy-and-Bill Markets

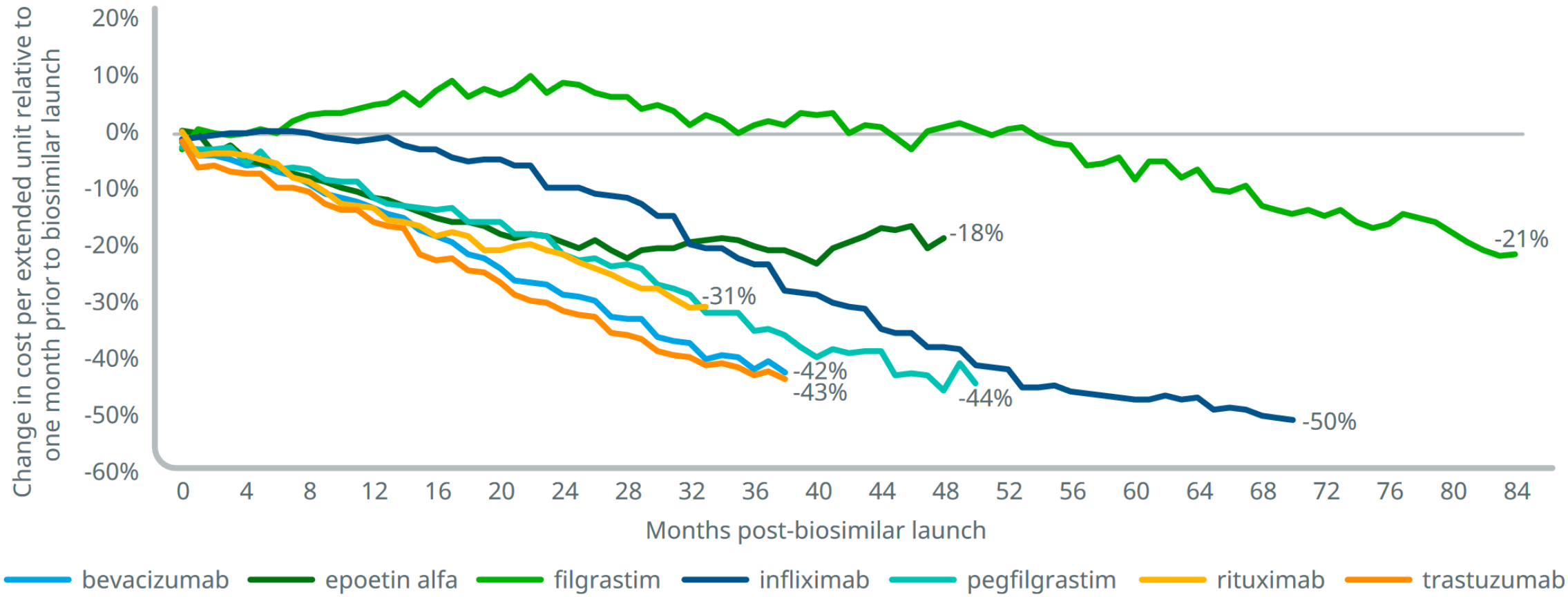
Physicians have incentive to select one product over another



Reproduced with permission; IQVIA "Biosimilars in the United States 2023-2027"
IQVIA LAAD Medical Procedures Claims, Sep 2022; US Market Access Strategy Consulting, Dec 2022.

Biosimilar Pricing Dynamics

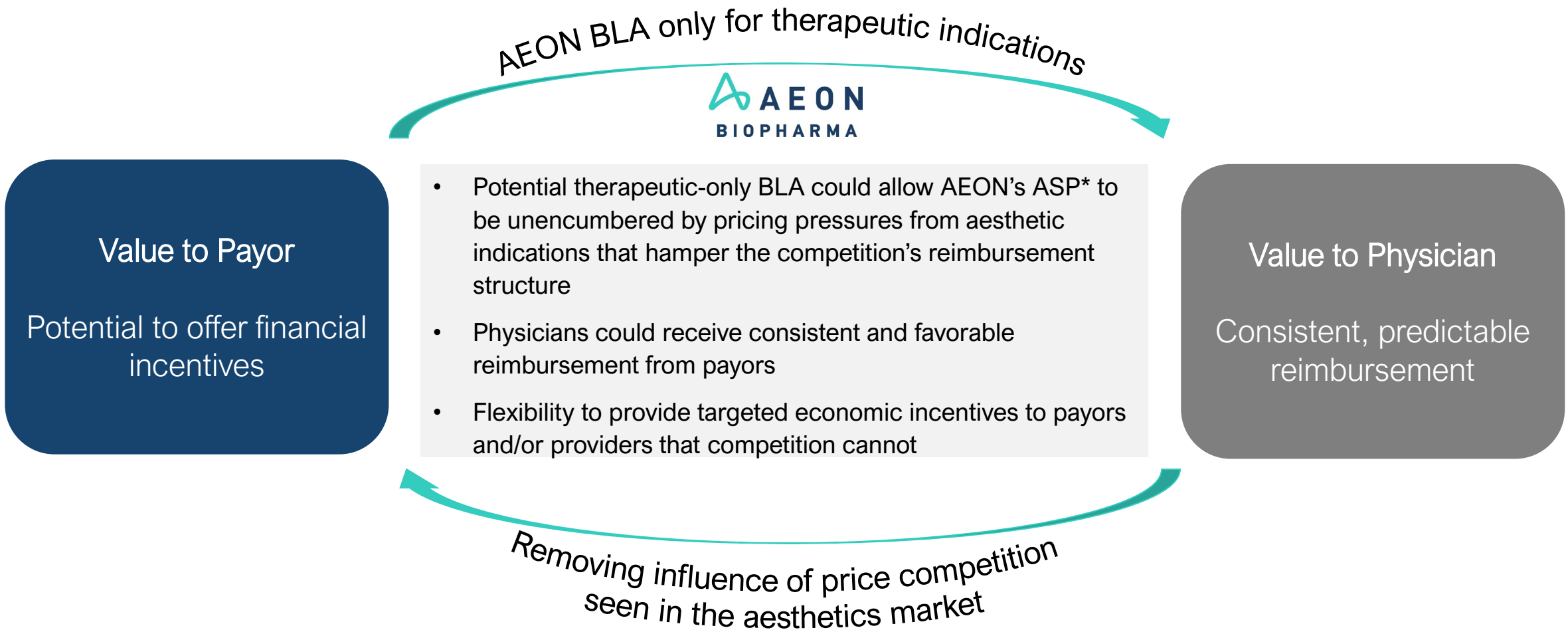
Price discounts in the 18-50% range within 3 years of launch



Reproduced with permission; IQVIA "Biosimilars in the United States 2023-2027"
IQVIA National Sales Perspective, US Market Access Strategy Consulting, Dec 2022.

AEON Model Could Allow Reimbursement Based Solely on Therapeutic Pricing

No competitive botulinum product has a separate BLA exclusively for therapeutic indications



*Average selling price

Summary and Key Milestones

Key points

- PrabotulinumtoxinA is the most advanced 900 kDa toxin (same molecular weight as BOTOX) in development
- Substantial analytical characterization has been previously completed
- PrabotulinumtoxinA manufacturing for aesthetic indications is already FDA approved* and well-established
- Positive Phase 2 results demonstrate PrabotulinumtoxinA safety and efficacy in cervical dystonia
- Approval as biosimilar provides potential access to all 12 therapeutic BOTOX indications

Upcoming events

- Q4 2024 – Initiate comparative analytical studies
- 2025 – Expect to conduct a Biosimilar Biological Product Development (BPD) Type 2 meeting with FDA to review the results from the analytical studies and confirm remainder of proposed study package

AEON BIOPHARMA

Developed and commercialized under brand name Jeuveau® (Evolus, Inc.)

Thank You

AEON BIOPHARMA