UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d)

of the Securities Exchange Act of 1934

June 28, 2024

Date of Report (Date of earliest event reported)

ARS Pharmaceuticals, Inc.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) 001-39756 (Commission File Number) 81-1489190 (IRS Employer Identification No.)

11682 El Camino Real, Suite 120 San Diego, California (Address of principal executive offices)

92130 (Zip Code)

Registrant's telephone number, including area code: (858) 771-9307

Not Applicable

(Former name or former address, if changed since last report.)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligations of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

D Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

D Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.0001 par value per share	SPRY	The Nasdaq Stock Market LLC

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).

Emerging growth company 🗵

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Item 7.01. Regulation FD Disclosure.

On June 28, 2024, ARS Pharmaceuticals, Inc. (the "Company") made updates to the corporate presentation that it originally filed earlier today for use in meetings with investors, analysts and others. The revised presentation is available through the Company's website and a copy is attached as Exhibit 99.1 to this Current Report on Form 8-K and incorporated by reference herein.

The information under this Item 7.01 of this Current Report on 8-K, including Exhibit 99.1, is furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities of that section or Sections 11 and 12(a)(2) of the Securities Act of 1933, as amended. The information shall not be deemed incorporated by reference into any other filing with the Securities and Exchange Commission made by the Company, whether made before or after today's date, regardless of any general incorporation language in such filing, except as shall be expressly set forth by specific references in such filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

- Exhibit No. Description
- 99.1 <u>Company Presentation, dated June 28, 2024.</u>
- 104 Cover Page Interactive Data File (embedded within the Inline XBRL document).

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

ARS Pharmaceuticals, Inc.

Date: June 28, 2024

By: /s/ Richard Lowenthal Richard Lowenthal, M.S., MSEL President and Chief Executive Officer



Forward-looking statements

Statements in this presentation that are not purely historical in nature are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Forwardlooking statements in this presentation include, without limitation, statements regarding: the anticipated timing for regulatory review decisions on the neffy NDA and MAA; ARS Pharma's belief that neffy will be approved for the treatment of Type I allergic reactions; ARS Pharma's belief and expectations regarding the labeling for neffy; the timing for the potential U.S. launch of neffy, if approved; the potential market, demand and expansion opportunities for neffy; ARS Pharma's expected competitive position; whether the results will be sufficient to demonstrate that neffy is at least as effective as injectable epinephrine; the timelines for potential regulatory filings, approvals and commercialization of neffy in ex-US regions; ARS Pharma's marketing and commercialization strategies, including potential partnerships in foreign jurisdictions; potential benefits of neffy, if approved, including the likelihood that doctors will prescribe neffy and that allergy patients and caregivers will choose to carry and dose neffy compared to needle-bearing options; the expectation of neffy attaining coverage, including without restriction for 80% of commercial lives within a year of launch; ARS Pharma's anticipated cash, cash equivalents and short-term investments on hand upon any future approval and launch of neffy; the expected size, composition and reach of ARS Pharma's sales force; the availability and functionality of neffyExperience and neffyConnect; the anticipated pricing and co-pay buydown; the anticipated timing and costs of future studies and commercialization efforts, and their impact on operating runway; ARS Pharma's projected operating runway; expected intellectual property protection; and any statements of assumptions underlying any of the foregoing. These forward-looking statements are subject to the safe harbor provisions under the Private Securities Litigation Reform Act of 1995. Because such statements are subject to risks and uncertainties, actual results may differ materially from those expressed or implied by such forward-looking statements. Words such as "anticipate," "could," "demonstrate," "expect," "indicate," "may," "plan," "potential," "will" and similar expressions are intended to identify forward-looking statements. These forward-looking statements are based upon ARS Pharma's current expectations and involve assumptions that may never materialize or may prove to be incorrect. Actual results and the timing of events could differ materially from those anticipated in such forward-looking statements as a result of various risks and uncertainties, which include, without limitation: the PDUFA target action date may be further delayed due to various factors outside ARS Pharma's control; the ability to obtain and maintain regulatory approval for neffy; the results of the new clinical trial may not support the approval of neffy; results from clinical trials may not be indicative of results that may be observed in the future; potential safety and other complications from neffy; the labelling for neffy, if approved; the scope, progress and expansion of developing and commercializing neffy; potential for payers to delay, limit, or deny coverage for neffy; the size and growth of the market therefor and the rate and degree of market acceptance thereof vis-à-vis intramuscular injectable products; ARS Pharma's ability to protect its intellectual property position; uncertainties related to capital requirements; and the impact of government laws and regulations. Additional risks and uncertainties that could cause actual outcomes and results to differ materially from those contemplated by the forward-looking statements are included under the caption "Risk Factors" in ARS Pharma's Quarterly Report on Form 10-Q for the quarter ended March 31, 2024, filed with the Securities and Exchange Commission ("SEC") on May 9, 2024. This and other documents ARS Pharma files with the SEC can also be accessed on ARS Pharma's website at ir.ars-pharma.com by clicking on the link "Financials & Filings" under the "Investors & Media" tab.

The forward-looking statements included in this presentation are made only as of the date hereof. ARS Pharma assumes no obligation and does not intend to update these forward statements, except as required by law.





Potential to Transform the Treatment of Type I Allergic Reactions

- *neffy*[®]: first potential "no needle, no injection" solution for Type I allergic reactions to address an unmet market need
- Positive CHMP Opinion (EU decision) with FDA reviewing same data package for the U.S. with assigned Oct 2, 2024 PDUFA date (physician's labeling received from FDA and discussions ongoing to finalize label)
- Registration program demonstrates comparable PK and PD, without risk of needle-related safety concerns, fear and hesitation
- Significant opportunity to disrupt and expand current epinephrine injectables market, which is highly dissatisfied
- Potential multi-billion-dollar market driven by HCP and consumer preference and adoption
- NCE-like IP exclusivity potential until at least 2038
- **\$223.6 million in cash and short-term investments** as of 3/31/2023 with an anticipated >\$200 million at anticipated FDA approval in H2 2024



Anaphylaxis is Accompanied by Many Frequent Symptoms



4 References: 1. Shaker MS, et al. J Allergy Clin Immunol, 2020. 2. Pistiner M, et al. J Allergy Clin Immunol Pract. 2021. 3. Jalil M, et al. Abstract at AAAAI 2020 Virtual Meeting. 4. Gonzelez-Estrada A, et al. Ann Allergy Asthma Immunol. 2018. 5, Lee S, et al. J Allergy Clin Immunol. 2017. 6, Lee S, et al. J Allergy Clin Immunol Pract. 2014. 7, Manixannan V, et al. Am J Emerg Med. 2014. 8. Wood RA, et al. J Allergy Clin Immunol. 2017. 6, Lee S, et al. J Allergy Clin Immunol. 2018. 7, Manixannan V, et al. Am J Emerg Med. 2014. 8. Wood RA, et al. J Allergy Clin Immunol. 2014. 9. Wash KE, et al. Pharmacoepidemio Durg Saf 2013. 10, Decker WW, et al. J Allergy Clin Immunol. 2008. 11, Allergy Clin Immunol. 2018. 14, Web Mergy Clin Immunol. 2018. 14, Am Allergy Saftma Immunol. 2019. 14, BW Wood RA, et al. Pharmacoepidemio Durg Saf 2013. 10, Decker WW, et al. J Allergy Clin Immunol. 2018. 14, Web Mergy Clin Immunol. 2018. 14, Web Mergy Clin Immunol. 2018. 14, Mergy Clin Immunol. 2018. 14, Web Mergy Clin Immunol. 2018. 14, Mergy Clin Immunol. 2018. 14, Web Mergy Clin Immunol. 2018. 14, Mergy Clin Immunol. 2019. 14, Mergy Clin Immunol. 2019. 14, RU Web Mergy Clin Immunol. 2019. 24, RU Web Mergy Clin Im



Epinephrine: The First Line of Defense Against Anaphylaxis

Patients with Type 1 Severe Allergic Reactions are prescribed epinephrine to use at symptom onset

- Used for over 100 years
- Well-known mechanism of action, and only drug known to reverse a systemic allergic reaction
- · Well-established efficacy and safety profile

Products approved based on pharmacologic properties, not clinical efficacy studies

- All approved products demonstrate efficacy (90% response on a single dose) despite different pharmacokinetic (PK) properties
- · Clinical studies are considered unethical/unfeasible

All approved products are needle-based

 High unmet need for needle-free, easy-to-carry epinephrine remains





Unmet Need / Current Challenges Vast Majority of Type I Allergy Patients Face Significant Limitations with Current Treatment Options

PROBLEM: ONLY 10% - 20% of	NO TREATMENT AVAILABLE		DELAY IN TREATMENT		
patients with active Rx use as indicated ⁷	~50% of patients carry ¹ (<20% carry two)	~25% - 60% do not administer ^{1,3 5, 6}	~40% - 60% of patients delay ²	23% - 35% fail to dose correctly ⁴	
SOLUTION: neffy	SMALL	NO NEEDLE NO INJECTION	EASIER AND MORE CONSISTENT DOSING	RELIABLE	
	 Fits in your pocket; easy to carry the recommended 2 devices ~10% of cases require repeat doses of epinephrine¹ 	 Rapid administration without a needle No risk of needle-related injuries; lacerations² or cardiotoxic blood vessel injections Less hesitation to dose 	 100% of untrained adults and children can dose <i>neffy</i> successfully⁷ High bioavailability, low 2 mg dose of <i>neffy</i> achieves comparable PK without overexposure risk including any side effects that mimic anaphylaxis 	 99.999% delivery of effective dose in reliability testing; not obstructed by any anaphylaxis symptoms; no inhalation required 24-month shelf-life at room temperature, with up to 3 months at high temperatures (122°F) 	

References: 1. Warren CM, et al. Ann Allergy Asthma immunol. 2018. 2. Rooney E, et al. Poster Presentation at ACAV 2022 (Louioville, KY). 3. Brooks C, et al. Ann Allergy Asthma immunol. 2017. 4. El Turki A, et al. Emerg Med J. 2017. 5. Asthma and Allergy Foundation of American Patient Survey Report 2019. 6. Mehta GD, et al. Expert Rev Clin Immunol. 2023. 7. ASS company estimates based on IQVIA data and references 1 through 6. 4, Data on file from neffy human factors studies.





Registrational studies demonstrate comparability on both PD surrogates for efficacy and PK with *neffy*

III. PD and PK Data

- 2 mg neffy met all clinical endpoints
- PD surrogates for efficacy comparable to approved products (SBP/HR ≥ approved injection products)
- Rapid and significant response on PD surrogates for efficacy observed even 1 minute after dosing
- PK bracketed by approved products (exposures ≥ IM/SC for efficacy, < EpiPen for safety)
- Repeat doses (including during rhinitis) within range of approved injection products

Safety Data

 Adverse events generally mild in nature with no meaningful nasal irritation or pain up to 4 mg dose

(1)

- Most common adverse events (>5%) were mild nasal discomfort (9.7%) and mild headache (6%), with no correlation of nasal discomfort to pain or irritation
 - Mean VAS pain scores between 5 to 8 out of 100
 - No irritation based on formal assessment
- No serious adverse events in any clinical study
- No risk of needle-related injuries or blood vessel injections with *neffy*

ARS

Positive CHMP Opinion (EMA recommendation for approval) received on June 27, 2024 Response to FDA submitted on April 2, 2024 followed by up to 6-month FDA review

FDA Status Update

- ARS is nearing the final stages in the FDA review. ARS has received physician labeling (prescribing information or "PI") from FDA, with ongoing discussions with FDA to finalize labeling
- ARS believes that the Division of Pulmonology, Allergy and Critical Care has completed review including physician labeling, with work ongoing at other peripheral groups at FDA
- neffy labeling expected to be consistent with new AAAAI anaphylaxis guidelines¹ that leave it to
 physician discretion as to whether to seek emergency medical assistance after administration,
 which may reduce hesitancy to dose and lead to broader adoption of neffy
- Labeling expected to include both pharmacodynamic data showing *neffy* response on SBP and HR even 1 minute after dosing *neffy* as well as pharmacokinetic data

9 References: 1. Golden DBX, et al. Anaphylaxis: A 2023 Practice Parameter Update. Annols of Allergy, Asthma and Immunology. (February 2024).



Results from *neffy* 2 mg Studies Satisfies Bracketing Approach agreed with FDA to Reference Historic Efficacy and Safety



- FDA focused on PK properties to ensure efficacious and safe epinephrine exposures within range of approved products ("Bracketing")
- Minimum exposure must be ≥ IM/SC (efficacy)
- Maximum exposures must be < EpiPen (safety)
- No difference in efficacy between all injection products
- ~90% response to single dose irrespective of device



Second Dose Frequency Demonstrates Similar Efficacy Between IM and Autoinjectors (the only FDA approved products today)



- Analysis of 12 studies with 100% autoinjector (≥ 80% EpiPen) or 100% IM-needle-and-syringe use in community or ED setting¹⁻¹¹
- Differences in PK profile across products do not impact efficacy based on need for repeat dosing to resolve symptoms

11 References: 1, Patel N, et al. J Allergy Clin Immunol. 2021. 2. Kahveci M, et al. Pediatr Allergy Immunol. 2020. 3. Oya S, et al. J Emerg Med. 2020. 4. Kondo A, et al. Air Med J. 2016. 5. Cardona V, et al. Int Arch Allergy Immunol. 2017. 6. Arkwright PD: J Allergy Clin Immunol. 2008. 7. Gold MS & Sainsbury R. J Allergy Clin Immunol. 2020. 8. Nomark L, et al. Clin Exp Allergy. 2011. 9. Solder L, et al. J Allergy Clin Immunol. 2002. 1. The Mark Allergy J Clin Immunol. 2020. 8. Nomark L, et al. Clin Exp Allergy. 2011. 9. Solder L, et al. J Allergy Clin Immunol. 2002. 1. The Mark Allergy J Clin Immunol. 2020. 1. The Mark Allergy J Clin Immunol. 2020. 8. Nomark L, et al. Clin Exp Allergy. 2011. 9. Solder L, et al. J Allergy Clin Immunol. 2002. 1. The Mark Allergy J Clin Immunol. 2020. 8. Nomark L, et al. Clin Exp Allergy. 2011. 9. Solder L, et al. J Allergy Clin Immunol. 2020. 1. The Mark Allergy J Clin Immunol. 2020. 8. Nomark L, et al. Clin Exp Allergy. 2011. 9. Solder L, et al. J Allergy Clin Immunol. 2020. 1. The Mark Allergy J Clin Immunol. 2020. 8. Nomark L, et al. Clin Exp Allergy. 2011. 9. Solder L, et al. J Allergy Clin Immunol. 2020. 1. The Mark Allergy J Clin Immunol. 2020. 8. Nomark L, et al. Clin Exp Allergy. 2011. 9. Solder L, et al. J Allergy Clin Immunol. 2020. 1. The Mark Allergy J Clin Immunol. 2020. 8. Nomark L, et al. Clin Exp Allergy. 2011. 9. Solder L, et al. J Allergy Clin Immunol. 2020. 1. The Mark Allergy J Clin Immunol. 2020. 8. Nomark L, et al. Clin Exp Allergy J Clin Immunol. 2020. 8. Nomark Allergy J Clin Immun



Robust response on PD surrogate markers for efficacy shows engagement of receptors that reverse anaphylaxis symptoms



12 Integrated analysis of ARS clinical studies (EPI-15 and EPI-16)



Integrated data from ARS clinical studies, FDA Briefing Document May 2023 PADAC for NDA/BLA# 214697 (neffy) 13

PK/PD profile and ability to dose may be influenced by anaphylaxis itself, so FDA asked ARS to evaluate rhinitis in clinical studies

 Intranasal formulation least impacted by anaphylaxis symptoms compared to alternate noninjectable routes

- Nasal symptoms or rhinitis only impact only 4% of cases (analysis of 4,805 US anaphylaxis events)¹⁻¹²
- ARS successfully evaluated patients with rhinitis, which responded positively to single and repeat doses of *neffy*

Anaphylaxis Symptom	US %	Intranasal	Sublingual	Oral*	Inhalation*	
Nasal symptoms or rhinitis	4%	х			х	
Oropharyngeal edema	10%		x	х	х	
Vomiting / Emesis	20%		х	х	х	
Dysphagia	23%			x	x	
Laryngeal Edema	24%			х	х	
Bronchospasm	24%				х	
Intraoral Edema or Tongue Swelling	24%		х	Х	х	
Angioedema (e.g. face, lips, tongue or larynx)	45%		x	х	х	
Difficulty Breathing / Dyspnea	55%				х	

Potential effect on <u>ability to dose or absorption profile</u> by theoretical route of administration for epinephrine

* insufficient oral and inhalation systemic absorption due to rapid conjugation and oxidation in GI tract or difficulty taking in enough puffs¹⁴

14 References: 1. Pistiner M, et al. J Allergy Clin Immunol Pract. 2021. 2. Jalil M, et al. Abstract at AAAAI 2020 Virtual Meeting. 3. Gonzelez-Estrada A, et al. Ann Allergy Asthma Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2017. 5. Lee S, et al. J Allergy Clin Immunol Pract. 2014. 6. Manivannan V, et al. Am J Emorg Med. 2014. 7. Wood RA, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2018. 4. Lee S, et al. J Allergy Clin Immunol. 2019. 4. Key S, et al. J Allergy Clin Immunol. 2019. 4. Key S, et al. Pediatrics. 2010. 4. Simons KJ, et al. J Allergy Clin Immunol. 2014. Note that some publications do not specify angleedema symptom subtype. Angloedema subtype Inequency aggregated when reported.



neffy on track for potential US launch in H2 2024 with market exclusivity potential until at least 2038

Extensive studies in the lab and clinic completed to develop a proprietary product with expected NCElike exclusivity

- Issued composition of matter patent (US10,576,156) on Intravail[®] + epinephrine provides foundational exclusivity blocking any generic products. Method of treatment patents (US11,173,209; US11,191,838) block other alkyl glycosides.
- Issued method of treatment patent (US10,682,414, US11,744,895, US11,717,571, US11,191,655) also blocks intranasal epinephrine product using a different technology using a low dose (<4 mg)
- PCT patent granted in Europe (EP19751807), UK (GB2583051), Japan (JP6941224), Canada (3088909), Australia (AUS2019217643), Korea (10-2375232), China (2019800010042), with same claims as the US



Commercialization Strategy





Significant Opportunity to Address Unmet Needs in Current US Severe Allergic Reaction Market



Epidemiology prevalence data estimates ~40M patients with type 1 allergic reactions²⁻¹⁰

~20M diagnosed and under physician care



Consistent Market Growth (Units) +6.5% CAGR since 2010, +12.7% YoY in 2023¹



Promotional Responsiveness ~50% increase over market growth trend with consumer promotion (2010 to 2015¹)



(1) do not carry (~50%), (2) do not inject (25-60%), (3) wait to inject (40-60%) or (4) dose incorrectly (23-35%)

over the last 3 years¹¹

~\$1 billion net today based on generic autoinjector pricing¹

~3.3M don't fill regularly, haven't refilled or haven't filled a written Rx in 2022¹¹



17 References: 1, Based on IQVIA prescription data (~5.2 million two-packs sold in 2023) and weighted average generic/branded epinephrine auto-injector net pricing, 2. Gupta RS, et al. Pediatrics. 2011. 4. Gupta RS, et al. Pediatrics. 2018. 4. Gupta RS, et al. Journal Context Sold and So



neffy has the ability to address the unmet need and is aligned with what healthcare providers, patients and parents want¹



18 References: 1. ARS market research on file. 2. Lowenthal R, et al. Presentation at AAAAI 2023 (San Antonio, Texas). 3. Kaplan H, et al. Presentation at ACAAI 2022 (Louisville, Kentucky).





Physicians supportive of adopting *neffy* into practice



References: 1. ARS market research on file.





Two-Thirds of Allergists and Half of GPs Ready to Prescribe *neffy* as Soon as Possible; Majority of Pediatricians Expected to Prescribe within One Year



20 References: ARS market research on file.

ARS



21 References: 1. Kaplan H, et al. Presentation at ACAAI 2022 (Louisville, Kentucky). 2. Warren CM, et al. Ann Allergy Asthma Immunol. 2018. 3. ARS market research on file.





~72% of Respondents would Make a Special Appointment to Discuss *neffy* with their HCP

Action Taken to Discuss *neffy* with HCP

- Make a special in-person appointment to discuss neffy
- Make a special telehealth appointment to discuss neffy
- Wait until my next regular appointment to discuss neffy
- Wait to see if my doctor wanted to discuss neffy with me



Respondents who may ask their HCP about neffy, Aug-23: Total (n=476), Patient (n=244), Caregiver (n=232) % of respondents

22 References: ARS market research on file.

ARS



neffy Strategic Objectives







Drive Adoption within Specialty and High Decile Prescribers

Healthcare Provider Launch Objectives

- Commercial force of ~110 Sales and Virtual Representatives and Area Sales Managers
- Education, awareness, and resources to drive adoption (*neffy* Experience)
- Calling on 12,500 Allergy Specialists and High Decile Prescribers
 - Reaching 40-45% of Prescriptions from all HCPs -> 55% of Prescriptions including colocated HCPs (~50,000 HCPs)
 - Reaching >80% of Prescriptions from Allergists and Pediatricians



ARS





neffy shows robust and rapid clinical resolution of oral food challenge anaphylaxis symptoms (preview of *neffy* experience)

Efficacy Study of *neffy* in Oral Food Challenge Induced Anaphylaxis (EPI-JP-03, n = 15 pediatric subjects)¹

Clinical Response Rate (%)

neffy (EPI-JP-03) 100.0%

100% of patients responded to a single dose of *neffy* in the first 15 minutes, and did not require a second dose of epinephrine per treatment guidelines

100% of patients experienced complete resolution of the anaphylaxis symptoms with single dose of $neffy^2$

16 min median time to complete resolution of anaphylaxis following single dose of *neffy*

neffy Experience Program (rescue therapy at allergy challenge clinics)

- Enable real-world experience with neffy
- Target allergist offices that conduct inoffice food challenge testing
- <u>HCPs</u> will have the ability to gain firsthand knowledge of *neffy's* effectiveness
- <u>Patients</u> undergoing allergy challenge will also be exposed to *neffy*



25 25 References: 1. Ebisawa M, et al. Presentation at AAAAI 2024 (Washington DC), 2. 100% of EPI-JP-03 patients dosed with neffy did not require a second dose in the first 15 minutes per guidelines because a response was not being observed, and 100% of patients achieved complete resolution of symptoms. To the 15 minutes per guidelines because a response was not being observed, and 100% of patients achieved complete resolution of symptoms. To the 15 minutes per guidelines because a response was not being observed, and 100% of patients achieved complete resolution of symptoms. This is consistent with the 12.8% frequency of biphasic reactions reported in oblinave with a largery Gin and Protect 2021.





Committed to ensuring *neffy* access for all patients

Key findings from discussions with the major payers and PBMs:

- High degree of interest in *neffy and* positive receptivity in early conversations; proactively requesting clinical
 presentations prior to approval
- Epinephrine is covered as a pharmacy benefit, and we expect to achieve coverage without restriction for 80% of commercial lives within a year of launch
- ARS is committed to access and affordability we will offer a co-pay buydown to \$25 for commercial patients, a cash
 price of \$199, and a Patient Assistance Program for uninsured or underinsured
- *neffy*connect will assist in managing coverage by providing patients, caregivers and healthcare providers with information regarding support programs and financial aid

"If this is priced properly, this could be a '**state-of-the-art therapy**' for patients." – PBM "This is a **game-changer**; it really addresses the unmet needs we currently have in this space, specifically the safety and tolerability issues." – **Payer** "There is no value in delaying access to a product like this and nothing to prior authorize (PA). We can't PA if the patient needs it." – PBM

_

26

ARS



27

Create Awareness & Motivate Patients and Caregivers to Request *neffy*

Consumer Launch Objectives

- Drive awareness & motivate patients and caregivers to request *neffy* by name
- Enable patients and caregivers to feel fully prepared to act during a potential crisis moment
- Activate patients and caregivers to share their *neffy* story to encourage peer uptake





Intranasal Analog Comparison: Seizure Rescue Market Valtoco and Nayzilam Share Growth



28 References: 1. IQVIA prescription data (2023)

ARS

US Epinephrine Market Evolution Due to the Availability of *neffy Supports Significant Revenue Opportunity*¹



29 References: 1. ARS company estimates and market research on file. 2. Market estimates based only on prescription volume from community use epinephrine autoinjector products, not intramuscular injection vials and syringes, 3. Net sales estimate are based on current autoinjector pricing (90% + of current volume is generic), not branded or innovator epinephrine product pricing



neffy Shows Robust and Rapid Clinical Responses in Treatment-Resistant Urticaria; Phase 2b outpatient study to initiate in 2024



References: 1. Patil D, et al. Prevalence and clinical profile of patients with chronic spontaneous urticaria in the USA. American Acat Emergency Medicine (2018). 3. Bernstein J, et al. Frequency of angloedema in chronic spontaneous urticaria: Report from the Urtica ual Meeting (March 2022), 2. Barniol C, et al. Annals of y of Asthma and Immunology Annual Meeting (February 2024) of De 30

Significant Ex-US opportunity for *neffy*



References:: Calendar Year 2023 IQVIA MIDAS (USD MNF) 31

Multiple Attributes Contribute to *neffy*'s Potential Best-in-Class Epinephrine Product Profile



Does it work?

- PK/PD response shows onset within 1 minute after dosing
- Rapid efficacy profile in OFC anaphylaxis (100% response rate in first 15 min), as well as treatment-resistant urticaria
- Predictable dose-proportional PK/PD profile within range of approved injection products even under realworld co-morbidities (e.g. rhinitis)
- Only anaphylaxis symptom that may alter PK/dosing is rhinitis, and for *neffy*, no negative impact on PK/PD
- 99.999% reliable sprayer device tens of millions of units sold annually in US



Is it safe?

- Benign safety profile mild nasal discomfort (9.7%) and mild headache (6%)
- No risk of injury (no needle) and minimal risk of overdose even with population variability (high bioavailability, low dose)
- Side effects do not mimic anaphylaxis, which could confound clinical monitoring and treatment



Will patients use it?

- Benign safety profile mild nasal discomfort and headache
- Palatable no meaningful pain/irritation, no taste/smell
- Small fits in pocket
- Easy to use 100% of adults and children can use without training (even passerby's); ability to dose not obstructed by anaphylaxis symptoms

ARS



