
**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

Date of Report (Date of earliest event reported): January 12, 2026

CABALETTA BIO, INC.

(Exact name of Registrant as Specified in Its Charter)

Delaware
(State or Other Jurisdiction
of Incorporation)

001-39103
(Commission File Number)

82-1685768
(IRS Employer
Identification No.)

**2929 Arch Street
Suite 600
Philadelphia, Pennsylvania**
(Address of Principal Executive Offices)

19104
(Zip Code)

Registrant's Telephone Number, Including Area Code: (267) 759-3100

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 obligation 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)

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

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, par value \$0.00001 per share	CABA	The Nasdaq Global Select Market

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 January 12, 2026, Cabaletta Bio, Inc. (“Cabaletta” or the “Company”) issued a press release announcing its 2026 strategic priorities (the “Press Release”). A copy of the Press Release is furnished herewith as Exhibit 99.1 to this Current Report on Form 8-K.

The information contained in Item 7.01 of this Current Report on Form 8-K, including Exhibit 99.1 and 99.2 attached hereto, is being furnished and shall not be deemed to be “filed” for the purposes of Section 18 of the Exchange Act, or otherwise subject to the liabilities of that section and shall not be incorporated by reference in any filing under the Securities Act or the Exchange Act, except as shall be expressly set forth by specific reference in such filing.

Item 8.01 Other Events.

On January 12, 2026, the Company posted to the “Investors & Media” section of the Company’s website at www.cabalettabio.com an updated corporate presentation (the “Corporate Presentation”). A copy of the Corporate Presentation is attached hereto as Exhibit 99.2 to this Current Report on Form 8-K and incorporated herein by reference.

On January 12, 2026, the Company issued the Press Release announcing its 2026 strategic priorities.

Translate registrational pathways with rese-cel into a pipeline in a product across autoimmune diseases

- **Initiation of myositis registrational cohort:** Cabaletta initiated the U.S. Food and Drug Administration (FDA)-aligned dermatomyositis (DM) and antisynthetase syndrome (ASyS) registrational cohort in December 2025. These subtypes affect approximately 70,000 patients in the U.S., with DM comprising approximately 60,000 patients. The registrational cohort is expected to evaluate 17 patients with a 16-week primary endpoint of moderate or major total improvement score response while off immunomodulators and on no or low-dose steroids. Data from the Phase 1/2 RESET-Myositis® trial presented at ACR Convergence 2025 demonstrated that all DM patients with sufficient follow-up who would have met key inclusion criteria in the registrational cohort achieved the registrational primary endpoint with durability throughout the follow-up period as long as one year. Based on that data, Cabaletta elected to expand the registrational trial by 3 patients to permit enrollment of approximately 14 DM patients aligned with natural U.S. prevalence estimates. If successful, data from this cohort will support Cabaletta’s first projected Biologics License Application (BLA) submission for rese-cel in myositis next year.
- **FDA alignment on new registrational cohort designs in SLE and LN:** Cabaletta has aligned with the FDA on registrational cohort designs in RESET-SLE to evaluate the current rese-cel weight-based dose of 1 million cells/kg in a single infusion with preconditioning, including two independent, single-arm cohorts, one consisting of patients with non-renal systemic lupus erythematosus (SLE) and one consisting of patients with lupus nephritis (LN), each evaluating approximately 25 patients with unique endpoints in each cohort. Cabaletta will provide an update on next steps for these cohorts later this year subject to dose-ranging data evaluating rese-cel without preconditioning in lupus patients.
- **Additional RMAT designation granted and registrational cohort alignments and initiations anticipated in 2026:** The FDA has recently granted a Regenerative Medicine Advanced Therapy (RMAT) designation to rese-cel for the treatment of systemic sclerosis. Cabaletta is continuing to engage with the FDA to align on registrational cohort designs for RESET-SSc™ and anticipates providing an update regarding registrational alignment for RESET-SSc in 1H26 and RESET-MG™ in mid-2026.

Advance fully automated, scalable manufacturing with Cellares to support the anticipated post-approval market expansion of rese-cel

- **Automated manufacturing of rese-cel using the Cellares Cell Shuttle™ and Cellares Cell Q™ to initiate imminently:** Investigational New Drug (IND) amendment clearance has been obtained to use the Cellares Cell Shuttle to manufacture rese-cel. This is a first for any autologous CAR T program. The IND submission included three engineering runs that demonstrated product consistency compared to existing rese-cel manufacturing runs at current contract development and manufacturing organizations (CDMOs) and is the result of the collaboration between Cabaletta and Cellares since 2023. This follows the previously announced completion of the Technology Adoption Program which successfully demonstrated the ability of Cellares’ Cell Shuttle to automate the rese-cel manufacturing process. Cabaletta anticipates clinical manufacturing data in the first half of 2026, which is intended to confirm overall supply chain GMP readiness, including supply chain logistics, for Cellares-produced rese-cel implementation across the rese-cel portfolio. The Company continues to work with its existing manufacturing partners to support the myositis registrational trial and launch-readiness efforts for rese-cel. The Cellares Integrated Development and Manufacturing Organization (IDMO) Smart Factory can enable unprecedented scale with minimal capital investment, rapid expansion to global capacity, lower manufacturing cost and improve scheduling flexibility for rese-cel after commercialization.

Expand the clinical experience of rese-cel and in combination with process innovations to deliver an industry-leading therapy for patients and physicians

- **No preconditioning dose-escalation ongoing in RESET-PV:** Following the presentation of the first rese-cel data demonstrating biologic activity and early clinical responses without preconditioning at the 2025 European Society of

Gene & Cell Therapy Annual Congress, Cabaletta is now evaluating rese-cel at a higher dose without preconditioning in patients with pemphigus vulgaris with additional patients currently enrolled. Additional durability data from patients dosed at the initial dose and initial clinical data from patients dosed at the higher dose are expected in 1H26.

- **No preconditioning cohort added in RESET-SLE:** Cabaletta has incorporated a dose-escalation cohort without preconditioning in RESET-SLE, which is the current focus for the trial. This decision was based on the safety and activity data at the initial dose evaluating rese-cel without preconditioning in the RESET-PV study and the clinical responses observed in lupus following complete B cell depletion after administration of rese-cel with preconditioning. Pending dose-ranging clinical data anticipated in 2026, Cabaletta will evaluate pursuing alignment with the FDA on a registrational pathway for the no preconditioning cohort.
- **Complete Phase 1/2 data readouts across three RESET™ trials expected in 1H26:** Following the presentation of complete Phase 1/2 clinical data from RESET-Myositis cohorts in 2025, Cabaletta anticipates complete Phase 1/2 clinical data from cohorts in RESET-SLE, RESET-SSc and RESET-MG in 1H26.

About rese-cel (resecabtagene autoleucel)

Rese-cel (formerly referred to as CABA-201) is an investigational, autologous CAR T cell therapy engineered with a fully human CD19 binder and a 4-1BB co-stimulatory domain, designed specifically for the treatment of autoimmune diseases. Administered as a single, weight-based infusion, rese-cel is intended to transiently and deeply deplete CD19-positive cells, with the goal of resetting the immune system and achieving durable clinical responses without the need for chronic therapy. Cabaletta is evaluating rese-cel in the RESET™ (REstoring SELF-Tolerance) clinical development program, which includes multiple ongoing company-sponsored trials across a diverse and growing range of autoimmune diseases in rheumatology, neurology and dermatology.

About Cabaletta Bio

Cabaletta Bio (Nasdaq: CABA) is a late-stage clinical biotechnology company focused on developing and launching the first curative targeted cell therapies designed specifically for patients with autoimmune diseases. The CABA™ platform encompasses two complementary strategies which aim to advance the discovery and development of engineered T cell therapies with the potential to become deep and durable, perhaps curative, treatments for a broad range of autoimmune diseases. The lead CARTA (Chimeric Antigen Receptor T cells for Autoimmunity) strategy is prioritizing the development of rese-cel, a 4-1BB-containing fully human CD19-CAR T cell investigational therapy. Rese-cel is currently being evaluated in the RESET™ (REstoring SELF-Tolerance) clinical development program spanning multiple therapeutic areas, including rheumatology, neurology and dermatology. Cabaletta Bio's headquarters and labs are located in Philadelphia, PA. For more information, please visit www.cabalettabio.com and connect with us on LinkedIn.

Forward-Looking Statements

This press release contains “forward-looking statements” of Cabaletta Bio within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, including without limitation, express or implied statements regarding: Cabaletta’s business plans and objectives as a whole; Cabaletta’s ability to realize its vision of launching the first curative targeted cell therapy designed specifically for patients with autoimmune diseases; Cabaletta’s ability to successfully complete research and further development and commercialization of its drug candidates in current or future indications, including the timing and results of Cabaletta’s clinical trials and its ability to conduct and complete clinical trials; expectation that clinical results will support rese-cel’s safety and activity profile; statements regarding the timing of interactions with regulatory authorities, including such authorities’ review of safety information from Cabaletta’s ongoing clinical trials and alignment with regulatory authorities on potential registrational pathway for rese-cel; Cabaletta’s ability to leverage its emerging clinical data and its efficient development strategy; Cabaletta’s plans to advance a new generation of autologous innovations that can support scalable outpatient use with attractive margins and minimal capital investment; Cabaletta’s belief that clinical data without preconditioning, if durable, may further increase access for patients; Cabaletta’s ability to capitalize on and potential benefits resulting from its research and translational insights; the clinical significance of the clinical data read-out at upcoming scientific meetings and timing thereof; Cabaletta’s expectations around the potential success and therapeutic benefits of rese-cel, including its belief that rese-cel has the potential to reset the immune system and achieve durable clinical responses without the need for chronic therapy; the Company’s advancement of separate Phase 1/2 clinical trials of rese-cel in patients with SLE, myositis, SSc, gMG and PV and advancement RESET-MS trial, including updates related to status, enrollment, safety data, efficiency of clinical trial design and timing of data read-outs or otherwise; Cabaletta’s plans to submit a BLA for rese-cel in myositis in 2027 and obtain regulatory approval from the FDA and other regulatory authorities, among others.

Any forward-looking statements in this press release are based on management’s current expectations and beliefs of future events and are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements. These risks and uncertainties include, but are not limited to: risks related to regulatory filings and potential clearance; the risk that signs of biologic activity or persistence may not inform long-term results; Cabaletta’s ability to demonstrate sufficient evidence of safety, efficacy and tolerability in its preclinical studies and clinical trials of rese-cel; the risk that the results observed with the similarly-designed construct employed in academic publications, including due to the dosing regimen, are not indicative of the results we seek to achieve with rese-cel; risks that results from one program may not translate to results for another program; risks that modifications to trial design or approach may not have the intended benefits and that the trial design may need to be further modified; risks related to clinical trial site activation, delays in enrollment generally or enrollment rates that are lower than expected; delays related to assessment of clinical trial results; risks related to unexpected safety or

efficacy data observed during clinical studies; risks related to volatile market and economic conditions and public health crises; Cabaletta's ability to retain and recognize the intended incentives conferred by Orphan Drug Designation, Fast Track Designation and Regenerative Medicine Advanced Therapy designation or other designations for its product candidates, as applicable; risks related to Cabaletta's ability to protect and maintain its intellectual property position; risks related to fostering and maintaining successful relationships with Cabaletta's collaboration and manufacturing partners; uncertainties related to the initiation and conduct of studies and other development requirements for its product candidates; the risk that any one or more of Cabaletta's product candidates will not be successfully developed and/or commercialized; and the risk that the initial or interim results of preclinical studies or clinical studies will not be predictive of future results in connection with future studies. For a discussion of these and other risks and uncertainties, and other important factors, any of which could cause Cabaletta's actual results to differ from those contained in the forward-looking statements, see the section entitled "Risk Factors" in Cabaletta's most recent annual report on Form 10-K as well as discussions of potential risks, uncertainties, and other important factors in Cabaletta's other subsequent filings with the Securities and Exchange Commission. All information in this press release is as of the date of the release, and Cabaletta undertakes no duty to update this information unless required by law.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

99.1 [Press Release issued by the registrant on January 12, 2026, furnished herewith.](#)

99.2 [Cabaletta Bio, Inc. Corporate Presentation, dated January 2026, filed herewith.](#)

104 Cover Page Interactive Data File (embedded within the Inline XBRL Document).

SIGNATURE

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

CABALETTA BIO, INC.

Date: January 12, 2026

By: _____ /s/ Steven Nichtberger
Steven Nichtberger
Chief Executive Officer and President
(Principal Executive Officer)



Cabaletta Bio Announces 2026 Strategic Priorities

Registrational myositis trial actively enrolling with planned 17-patient cohort and 2027 rese-cel BLA submission – including an outpatient dosing option using a single weight-based dose

IND amendment cleared to manufacture rese-cel with the automated, scalable Cellares platform based on multiple successful engineering runs; clinical manufacturing data expected in 1H26 to confirm GMP readiness, including supply chain logistics

New durability data without preconditioning and higher dose initial clinical data from RESET-PV™ expected in 1H26; dose-ranging data from RESET-SLE™ without preconditioning anticipated in 2026

Complete Phase 1/2 data anticipated in lupus, scleroderma and myasthenia gravis in 1H26

FDA alignment on registrational study achieved in SLE and LN for small single-arm cohorts; strategically prioritizing no preconditioning regimen pending dose-ranging data

PHILADELPHIA, Jan. 12, 2026 -- Cabaletta Bio, Inc. (Nasdaq: CABA), a late-stage clinical biotechnology company focused on developing and launching the first curative targeted cell therapies designed specifically for patients with autoimmune diseases, today announced its 2026 strategic priorities to support development and launch of rese-cel (resescabtagene autoleucel) while advancing innovations to efficiently increase scale through automated manufacturing and expanding access for patients with autoimmune diseases.

"In 2026, we are focused on enrolling our pivotal myositis trial to support the planned rese-cel BLA submission next year while advancing paradigm-changing innovations that have the potential to generate a scalable commercial business with attractive margins and minimal capital investment. Fully automated manufacturing, the potential for outpatient use and progress on our no preconditioning approach each provide important advantages for rese-cel, for patients and for Cabaletta," said Steven Nichtberger, M.D., Chief Executive Officer of Cabaletta. "The safety profile of a single, weight-based dose of rese-cel gives us confidence in the potential for outpatient treatment with rese-cel. In addition, the emerging clinical data in patients dosed without preconditioning, if durable, may further increase access for patients with significant unmet need."

2026 Strategic Priorities and Recent Progress:

Translate registrational pathways with rese-cel into a pipeline in a product across autoimmune diseases

- **Initiation of myositis registrational cohort:** Cabaletta initiated the U.S. Food and Drug Administration (FDA)-aligned dermatomyositis (DM) and antisynthetase syndrome (ASyS) registrational cohort in December 2025. These subtypes affect approximately

70,000 patients in the U.S., with DM comprising approximately 60,000 patients. The registrational cohort is expected to evaluate 17 patients with a 16-week primary endpoint of moderate or major total improvement score response while off immunomodulators and on no or low-dose steroids. Data from the Phase 1/2 RESET-Myositis[®] trial presented at ACR Convergence 2025 demonstrated that all DM patients with sufficient follow-up who would have met key inclusion criteria in the registrational cohort achieved the registrational primary endpoint with durability throughout the follow-up period as long as one year. Based on that data, Cabaletta elected to expand the registrational trial by 3 patients to permit enrollment of approximately 14 DM patients aligned with natural U.S. prevalence estimates. If successful, data from this cohort will support Cabaletta's first projected Biologics License Application (BLA) submission for rese-cel in myositis next year.

- **FDA alignment on new registrational cohort designs in SLE and LN:** Cabaletta has aligned with the FDA on registrational cohort designs in RESET-SLE to evaluate the current rese-cel weight-based dose of 1 million cells/kg in a single infusion with preconditioning, including two independent, single-arm cohorts, one consisting of patients with non-renal systemic lupus erythematosus (SLE) and one consisting of patients with lupus nephritis (LN), each evaluating approximately 25 patients with unique endpoints in each cohort. Cabaletta will provide an update on next steps for these cohorts later this year subject to dose-ranging data evaluating rese-cel without preconditioning in lupus patients.
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Advance fully automated, scalable manufacturing with Cellares to support the anticipated post-approval market expansion of rese-cel

- **Automated manufacturing of rese-cel using the Cellares Cell ShuttleTM and Cellares Cell QTM to initiate imminently:** Investigational New Drug (IND) amendment clearance has been obtained to use the Cellares Cell Shuttle to manufacture rese-cel. This is a first for any autologous CAR T program. The IND submission included three engineering runs that demonstrated product consistency compared to existing rese-cel manufacturing runs at current contract development and manufacturing organizations (CDMOs) and is the result of the collaboration between Cabaletta and Cellares since 2023. This follows the previously announced completion of the Technology Adoption Program which successfully demonstrated the ability of Cellares' Cell Shuttle to automate the rese-cel manufacturing process. Cabaletta anticipates clinical manufacturing data in the first half of 2026, which is intended to confirm overall supply chain GMP readiness, including supply chain logistics, for Cellares-produced rese-cel implementation across the rese-cel portfolio. The Company continues to work with its existing manufacturing partners to support the myositis registrational trial and launch-readiness efforts for rese-cel. The Cellares Integrated Development and Manufacturing Organization (IDMO) Smart Factory can enable unprecedented scale with minimal

capital investment, rapid expansion to global capacity, lower manufacturing cost and improve scheduling flexibility for rese-cel after commercialization.

Expand the clinical experience of rese-cel and in combination with process innovations to deliver an industry-leading therapy for patients and physicians

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- **Complete Phase 1/2 data readouts across three RESET™ trials expected in 1H26:** Following the presentation of complete Phase 1/2 clinical data from RESET-Myositis cohorts in 2025, Cabaletta anticipates complete Phase 1/2 clinical data from cohorts in RESET-SLE, RESET-SSc and RESET-MG in 1H26.

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therapeutic areas, including rheumatology, neurology and dermatology. Cabaletta Bio's headquarters and labs are located in Philadelphia, PA. For more information, please visit www.cabalettabio.com and connect with us on LinkedIn.

Forward-Looking Statements

This press release contains "forward-looking statements" of Cabaletta Bio within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, including without limitation, express or implied statements regarding: Cabaletta's business plans and objectives as a whole; Cabaletta's ability to realize its vision of launching the first curative targeted cell therapy designed specifically for patients with autoimmune diseases; Cabaletta's ability to successfully complete research and further development and commercialization of its drug candidates in current or future indications, including the timing and results of Cabaletta's clinical trials and its ability to conduct and complete clinical trials; expectation that clinical results will support rese-cel's safety and activity profile; statements regarding the timing of interactions with regulatory authorities, including such authorities' review of safety information from Cabaletta's ongoing clinical trials and alignment with regulatory authorities on potential registrational pathway for rese-cel; Cabaletta's ability to leverage its emerging clinical data and its efficient development strategy; Cabaletta's plans to advance a new generation of autologous innovations that can support scalable outpatient use with attractive margins and minimal capital investment; Cabaletta's belief that clinical data without preconditioning, if durable, may further increase access for patients; Cabaletta's ability to capitalize on and potential benefits resulting from its research and translational insights; the clinical significance of the clinical data read-out at upcoming scientific meetings and timing thereof; Cabaletta's expectations around the potential success and therapeutic benefits of rese-cel, including its belief that rese-cel has the potential to reset the immune system and achieve durable clinical responses without the need for chronic therapy; the Company's advancement of separate Phase 1/2 clinical trials of rese-cel in patients with SLE, myositis, SSc, gMG and PV and advancement RESET-MS trial, including updates related to status, enrollment, safety data, efficiency of clinical trial design and timing of data read-outs or otherwise; Cabaletta's plans to submit a BLA for rese-cel in myositis in 2027 and obtain regulatory approval from the FDA and other regulatory authorities, among others.

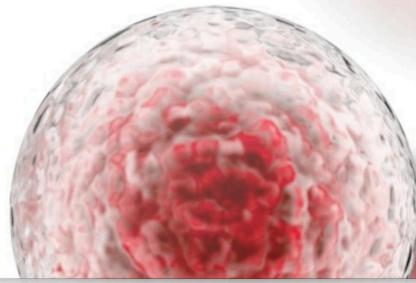
Any forward-looking statements in this press release are based on management's current expectations and beliefs of future events and are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements. These risks and uncertainties include, but are not limited to: risks related to regulatory filings and potential clearance; the risk that signs of biologic activity or persistence may not inform long-term results; Cabaletta's ability to demonstrate sufficient evidence of safety, efficacy and tolerability in its preclinical studies and clinical trials of rese-cel; the risk that the results observed with the similarly-designed construct employed in academic publications, including due to the dosing regimen, are not indicative of the results we seek to achieve with rese-cel; risks that results from one program may not translate to results for another program; risks that modifications to trial design or approach may not have the intended benefits and that the trial design may need to be further modified; risks related to clinical trial site activation, delays in enrollment generally or enrollment rates that are lower than expected; delays related to assessment of clinical trial results; risks related to unexpected safety or efficacy data observed during clinical studies; risks related to volatile market and economic conditions and public health crises; Cabaletta's ability to retain and recognize the intended incentives conferred by Orphan Drug Designation, Fast Track Designation and Regenerative Medicine Advanced Therapy designation or other designations for its product candidates, as

applicable; risks related to Cabaletta's ability to protect and maintain its intellectual property position; risks related to fostering and maintaining successful relationships with Cabaletta's collaboration and manufacturing partners; uncertainties related to the initiation and conduct of studies and other development requirements for its product candidates; the risk that any one or more of Cabaletta's product candidates will not be successfully developed and/or commercialized; and the risk that the initial or interim results of preclinical studies or clinical studies will not be predictive of future results in connection with future studies. For a discussion of these and other risks and uncertainties, and other important factors, any of which could cause Cabaletta's actual results to differ from those contained in the forward-looking statements, see the section entitled "Risk Factors" in Cabaletta's most recent annual report on Form 10-K as well as discussions of potential risks, uncertainties, and other important factors in Cabaletta's other subsequent filings with the Securities and Exchange Commission. All information in this press release is as of the date of the release, and Cabaletta undertakes no duty to update this information unless required by law.

Contacts:

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Chief Financial Officer
investors@cabalettabio.com

Cabaletta Bio[®]



Corporate Presentation

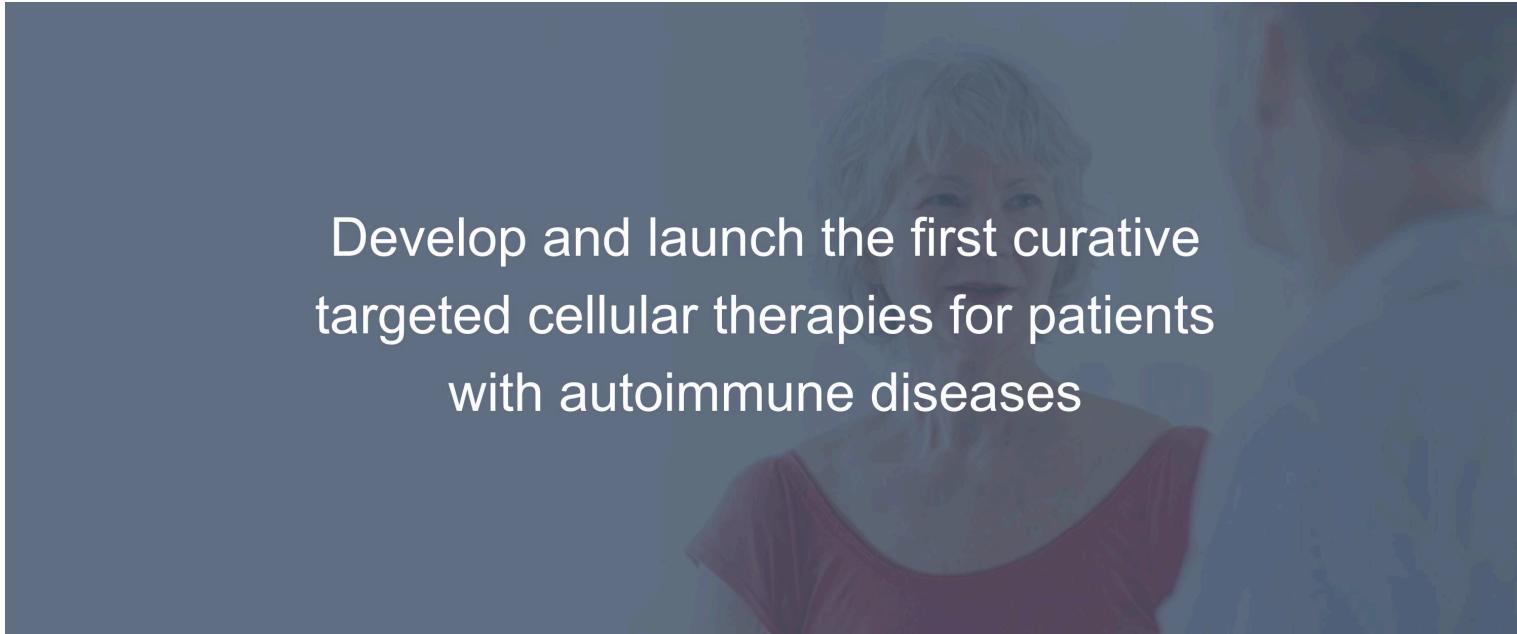
JANUARY 2026

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Disclaimer

This presentation, including any printed or electronic copy of these slides, the talks given by the presenters, the information communicated during any delivery of the presentation and any question and answer session and any document distributed at or in connection with the presentation (collectively, the "Presentation") has been prepared by Cabaletta Bio, Inc. ("we," "us," "our," "Cabaletta" or the "Company") and may contain "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995 relating to our business, operations, and financial conditions, and include, but are not limited to, express or implied statements regarding our current beliefs, expectations and assumptions regarding: our business, future plans and strategies for our technology; our ability to grow our autoimmune-focused pipeline; the ability to capitalize on and potential benefits resulting from our research and translational insights, including those related to any similarly-designed constructs or dosing regimens; the anticipated market opportunities for rese-cel in patients with autoimmune diseases; the Company's business plans and objectives; our expectations around the potential success and therapeutic and clinical benefits of rese-cel, as well as our ability to successfully complete research and further development and commercialization of our drug candidates in current or future indications, including the timing and results of our clinical trials and our ability to conduct and complete clinical trials; expectation that clinical results will support rese-cel's safety and activity profile; our plan to leverage increasing clinical data and a unique development program for rese-cel; the timing, clinical significance and impact of clinical data read-outs, including the progress, results and clinical data from each of the patients dosed with rese-cel in the Phase 1/2 RESET-Myositis, RESET-SLE, RESET-SSc, RESET-MG and RESET-PV trials and our other planned activities with respect to rese-cel; our belief that rese-cel has the potential to provide drug-free, durable, transformative clinical responses, through an immune reset; the Company's advancement of separate Phase 1/2 clinical trials of rese-cel and advancement of the RESET-PV and RESET-MS trials, with and without preconditioning, as applicable, including updates related to status, safety data, efficiency of clinical trial design and timing of data read-outs or otherwise; our ability to leverage our experience in autoimmune cell therapy; our ability to enroll the requisite number of patients, dose each dosing cohort in the intended manner and timing thereof, and advance the trial as planned in our Phase 1/2 clinical trials of rese-cel; the timing any planned regulatory filings for our development programs, including IND applications and interactions with regulatory authorities, including such authorities' review of safety information from our ongoing clinical trials and alignment with regulatory agencies on potential registrational pathway for rese-cel in various indications, and the timing of alignment of trial design related thereto; our ability to successfully complete our preclinical and clinical studies for our product candidates, including our ability to progress the trial; our plans and expectations regarding automated scalable manufacturing and no preconditioning and its potential to expand and accelerate access; our expectations that automation and elimination of preconditioning and apheresis will enhance patient experience; our expectation and timing for clinical manufacturing data with Cellares' automated manufacturing process and its ability to confirm GMP readiness, including supply chain logistics; our ability to increase enrollment from our rapidly expanding clinical network in the RESET clinical trial program in the US and Europe; our ability to obtain and maintain regulatory approval of our product candidates, including our expectations regarding the intended incentives conferred by and ability to retain regulatory designations and the anticipated initiation of registrational cohorts and potential BLA submission; our expectation and timing for completion of dosing of most disease-specific cohorts; our belief regarding alignment with FDA on registrational trial design and timing thereof; our expectations regarding opportunities based on market research; our ability to accelerate our pipeline to approval and launch and to develop transformative therapies for patients, including in collaboration with academic and industry partners and the ability to optimize such collaborations on, including timing thereof, our development programs; our ability to contract with third-party suppliers and manufacturers; our ability to execute our manufacturing strategy to enable expansion of clinical supply and efficiently scale commercial supply for rese-cel; our potential commercial opportunities, including value and addressable market, for our product candidates. Words such as, but not limited to, "look forward to," "believe," "expect," "anticipate," "estimate," "intend," "plan," "would," "should" and "could," and similar expressions or words, identify forward-looking statements.

Various risks, uncertainties and assumptions could cause actual results to differ materially from those anticipated or implied in our forward-looking statements. Such risks and uncertainties include, but are not limited to, risks related to the success, cost, and timing of our development activities and clinical trials, risks related to our ability to demonstrate sufficient evidence of safety, efficacy and tolerability in our clinical trials, the risk that the results observed with the similarly-designed construct, including, but not limited to, dosing regimen, are not indicative of the results we seek to achieve with rese-cel, the risk that signs of biologic activity or persistence may not inform long-term results, risks related to clinical trial site activation or enrollment rates that are lower than expected, risks that modifications to trial design or approach may not have the intended benefits and that the trial design may need to be further modified; our ability to protect and maintain our intellectual property position, risks related to our relationships with third parties, uncertainties related regulatory agencies' evaluation of regulatory filings and other information related to our product candidates, our ability to retain and recognize the intended incentives conferred by any regulatory designations, risks related to regulatory filings and potential clearance, the risk that any one or more of our product candidates will not be successfully developed and commercialized, the risk that the results of preclinical studies or clinical studies will not be predictive of future results in connection with future studies, risks related to volatile market and economic conditions and our ability to fund operations and continue as a going concern. New risks and uncertainties may emerge from time to time, and it is not possible to predict all risks and uncertainties. Except as required by applicable law, we do 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. Although we believe the expectations reflected in such forward-looking statements are reasonable, we can give no assurance that such expectations will prove to be correct. Accordingly, you are cautioned not to place undue reliance on these forward-looking statements. No representations or warranties (expressed or implied) are made about the accuracy of any such forward-looking statements. For a discussion of these and other risks and uncertainties, and other important factors, any of which could cause our actual results to differ materially from those contained in the forward-looking statements, see the section entitled "Risk Factors" in our most recent annual report on Form 10-K and quarterly report on Form 10-Q, as well as discussions of potential risks, uncertainties, and other important factors in our other filings with the Securities and Exchange Commission. Certain information contained in this Presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and the Company's own internal estimates and research. While the Company believes these third-party sources to be reliable as of the date of this Presentation, it has not independently verified, and makes no representation as to the adequacy, fairness, accuracy or completeness of, any information obtained from third-party sources. The Company is the owner of various trademarks, trade names and service marks. Certain other trademarks, trade names and service marks appearing in this Presentation are the property of third parties. Solely for convenience, the trademarks and trade names in this Presentation are referred to without the ® and TM symbols, but such references should not be construed as any indicator that their respective owners will not assert, to the fullest extent under applicable law, their rights thereto.



Develop and launch the first curative
targeted cellular therapies for patients
with autoimmune diseases

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Rese-cel¹: Delivering on the promise of CD19-CAR T in autoimmunity

Pivotal myositis study enrolling; automated manufacturing & new clinical data with no preconditioning in 2026

- **Autologous CAR T has delivered reliable, durable, transformative outcomes for autoimmune patients**
 - Rese-cel data: immunomodulator-free efficacy with a favorable safety profile using a single weight-based dose
 - Complete phase 1/2 data expected in lupus, systemic sclerosis & myasthenia gravis in 1H26
- **Myositis: 17 patient single-arm registrational study with expected 2027 BLA includes potential for outpatient infusion**
 - Primary endpoint: moderate TIS off immunomodulators & on no or low dose steroids² at 16 weeks, aligned with FDA
 - All phase 1/2 patients with sufficient f/u who would have met inclusion criteria met the registrational primary endpoint³
- **Safety profile in first 40 patients dosed with preconditioning (PC) supports outpatient administration⁴**
 - 95% - No CRS (~67%) or Grade 1 CRS (~28% - fever); 95% - No ICANS
- **Fully automated manufacturing by Cellares may provide unprecedented scale & efficiency for autologous CAR T**
 - IND amendment cleared for automated, scalable manufacturing of rese-cel based on multiple engineering runs
- **No preconditioning: low dose cohort with early near-complete symptom resolution in 2/3 autoimmune patients^{3,5}**
 - Dose-ranging data in RESET-SLE and RESET-PV anticipated throughout 2026

**Safety profile of rese-cel in autoimmune patients supports outpatient use;
Automated scalable manufacturing and no preconditioning can expand & accelerate access**

ASyS – antisynthetase syndrome; BLA – biologics license application; CRR – complete renal response; DM – dermatomyositis; f/u – follow-up; LN – lupus nephritis; mo. – months; MG – myasthenia gravis; PV – pemphigus vulgaris; SLE – systemic lupus erythematosus; SSc – systemic sclerosis; TIS – total improvement score.

1. resecatagene autoleucel; CABA-201

2. Low dose steroids is defined as 50% reduction from baseline or ≤7.5 mg/day.

3. As of data cut-off on September 11, 2025.

4. As of data cut-off on October 30, 2025

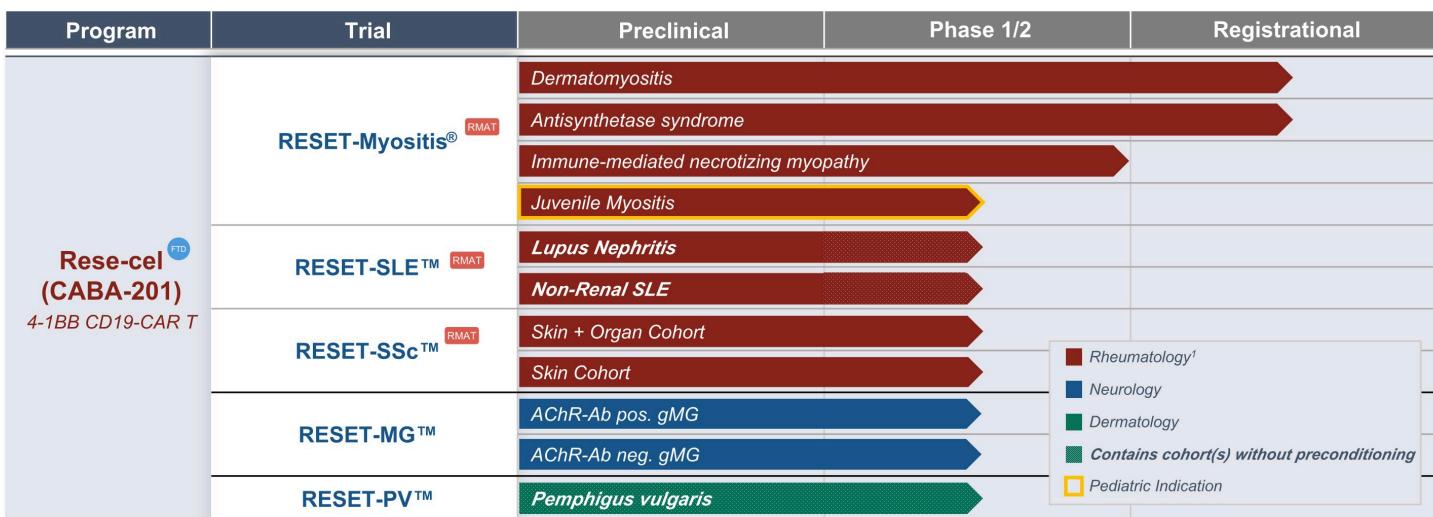
5. Basu, S. RESET-PV: Initial clinical and translational data evaluating rese-cel without preconditioning in pemphigus vulgaris. Presented at ESGCT 2025; October 6-10, 2025; Seville, Spain.

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Innovative clinical strategy to support accelerated regulatory path

FDA aligned on myositis and SLE registrational designs; SSc and MG alignment anticipated in 1H26



RESET™ – REstoring SElf-Tolerance; Ab – Antibody; AChR – Acetylcholine receptor; gMG – Generalized myasthenia gravis; PV – Pemphigus vulgaris; SLE – Systemic lupus erythematosus; SSc – Systemic sclerosis

1. Myositis patients can also be treated by neurologists or dermatologists; lupus nephritis patients can also be treated by nephrologists.

● FDA Fast Track Designation received in dermatomyositis, SLE and lupus nephritis, systemic sclerosis, generalized myasthenia gravis and multiple sclerosis.

■ FDA Regenerative Medicine Advanced Therapy (RMAT) received in myositis, SLE, LN and systemic sclerosis.

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Multiple catalysts anticipated in next 12 months

Innovations to enhance scalability and eliminate preconditioning can expand current opportunity

Rese-cel <i>Resecabtagene autoleucel</i>	Expected Timing	Expected Milestone
	1H26	Clinical manufacturing experience with automated Cellares Platform
	1H26	No preconditioning dose-ranging data in PV
	1H26	Complete Phase 1/2 data in SLE/LN, SSc and MG
	1H26 & mid-26	FDA alignment on registrational designs for SSc (1H26) and MG (mid-26)
	1H26 & 2H26	No preconditioning dose ranging data in SLE/LN
	2H26	Initiate enrollment in 2nd registrational trial

Myositis BLA submission on track for 2027

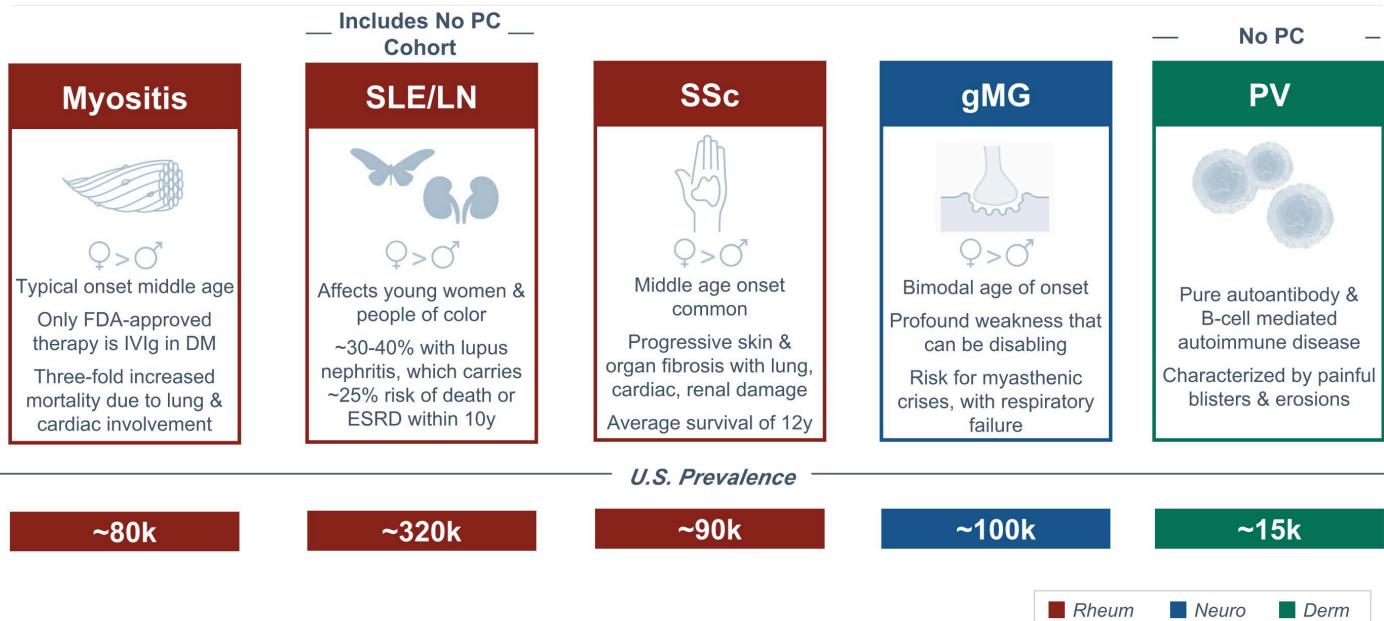


Rese-cel: Clinical Profile and Commercial Opportunity

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RESET™ program advancing trials in a broad portfolio of diseases

Broad portfolio with six RESET trials designed to address high unmet need and realize the potential of rese-cel



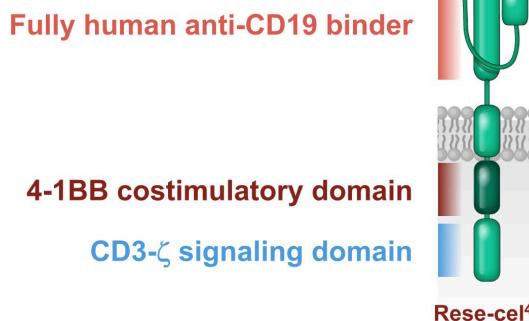
SLE – Systemic lupus erythematosus; DM – Dermatomyositis; SSc – Systemic sclerosis; gMG – Generalized myasthenia gravis; PC – Preconditioning; ESRD – End-stage renal disease; PV – pemphigus vulgaris

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Rese-cel: CD19-CAR T specifically designed for autoimmunity

Rese-cel binder with similar *in vitro* & *in vivo* activity to construct used in academic studies in autoimmunity^{1,3}



Rese-cel product design & clinical / translational data

4-1BB costimulatory domain with fully human binder

- Binder with similar affinity & biologic activity to academic FMC63 binder while binding to the same epitopes^{1,2}

Same weight-based dose as in academic studies

- Potential to provide immune reset based on initial clinical and translational data⁵

Patients treated with rese-cel have shown compelling clinical responses with safety data that supports autoimmune development⁶

1. Peng BJ, et al. Mol Ther Methods Clin Dev. 2024;32(2):101267.

2. Dai, Zhenyu, et al. "Development and functional characterization of novel fully human antiCD19 chimeric antigen receptors for T-cell therapy." Journal of Cellular Physiology 236.8 (2021): 5832-5847.

3. Müller, Fabian, et al. "CD19 CAR T-Cell Therapy in Autoimmune Disease—A Case Series with Follow-up." New England Journal of Medicine 390.8 (2024): 687-700.

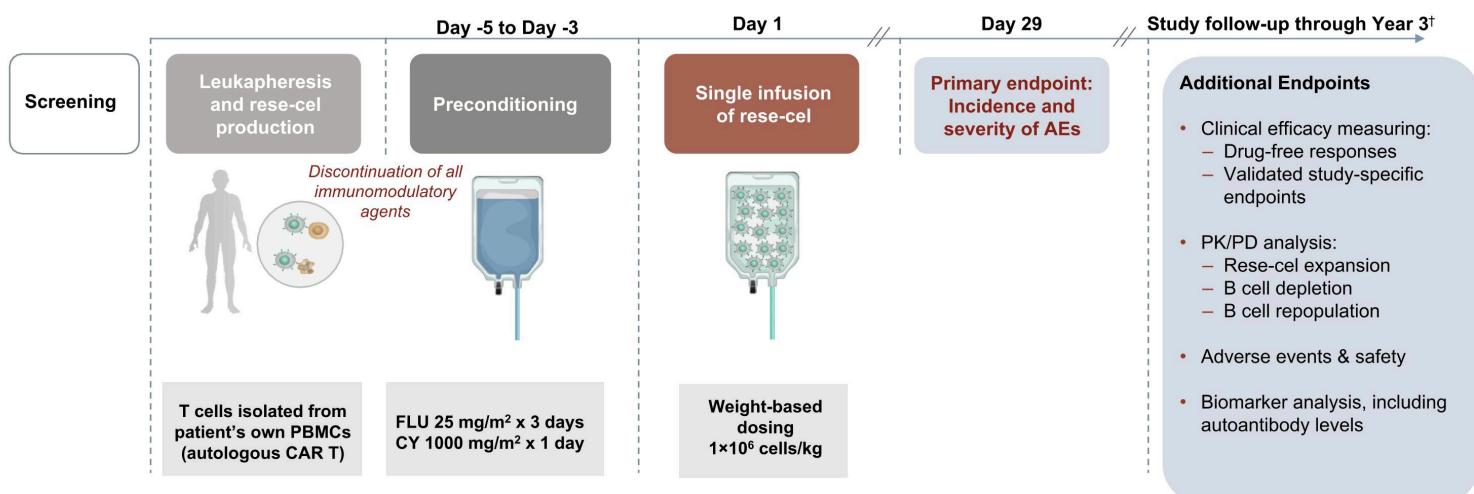
4. Maschan, Michael, et al. "Multiple site place-of-care manufactured anti-CD19 CAR-T cells induce high remission rates in B-cell malignancy patients." Nature Communications 12, 7200 (2021) Transmembrane domain in rese-cel is CD8a vs. TNFRSF19 (Troy) utilized in the academic construct. The two transmembrane domains have not been shown to have a significant difference in function or IFN γ production in preclinical studies. The CD8a transmembrane domain is employed in isagenleucel.

5. Volkov, Jenell, et al. "Case study of CD19 CAR T therapy in a subject with immune-mediated necrotizing myopathy treated in the RESET-Myositis phase I/II trial." Molecular Therapy 32.11 (2024): 3821-3828. Cabaletta Bio[®]

6. Abstract 1733: Safety and Efficacy of CABA-201, a Fully Human, Autologous 4-1BB Anti-CD19 CAR T Cell Therapy in Patients with Immune-Mediated Necrotizing Myopathy and Systemic Lupus Erythematosus from the RESET-MyositisTM and RESET-SLETM Clinical Trials. ACR 2024.

RESET™ clinical trials have consistent design principles¹

Many of the RESET trials share common elements of preconditioning, dose, and study design



[†]Follow up period encompasses at least 15 years in total, aligned to regulatory guidance for CAR T cell therapies.

AE, adverse event; CABA, Cabaletta Approach to B cell Ablation; FLU, fludarabine; CY, cyclophosphamide; PBMC, peripheral blood mononuclear cell; PD, pharmacodynamics; PK, pharmacokinetics; RESET, REStoring SElf-Tolerance; SLE, systemic lupus erythematosus; SSc, systemic sclerosis.

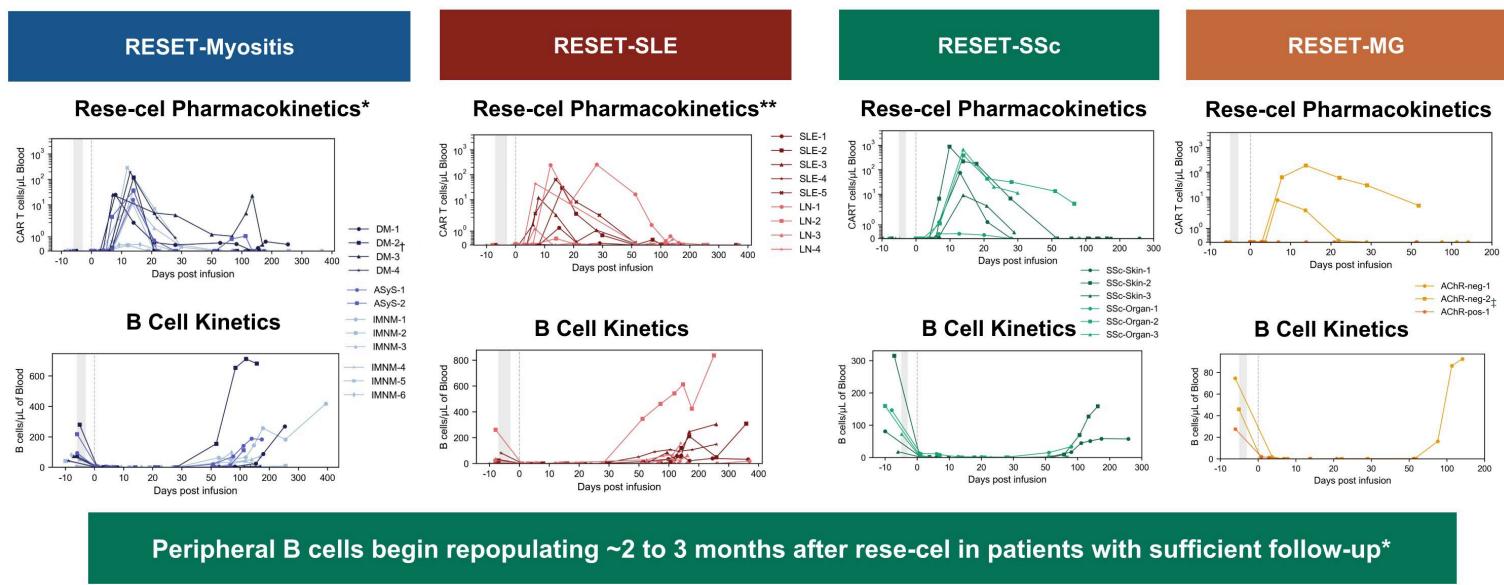
Cabaletta Bio: Data on file; 1. Peng BJ, et al. Mol Ther Methods Clin Dev. 2024;32(2):101267.

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Rese-cel expansion & B cell kinetics across indications*

Peak rese-cel expansion and transient peripheral B cell depletion occurred within ~2 weeks post infusion



Peripheral B cells begin repopulating ~2 to 3 months after rese-cel in patients with sufficient follow-up*

*All data is as of 11 Sep, 2025, except DM-3 which includes Week 24 data as of 08 Oct 2025.

**LN-1 had prolonged rese-cel detection due to TCR activation that corresponded to longer time to B cell repopulation. LN-4: follow up ongoing

† DM-3 rese-cel PK at Week 20 was artificially elevated due to low circulating lymphocyte counts.

‡ Reduced rese-cel expansion observed in AChR-pos-1 may be attributed to patient's continued use of azathioprine, a prohibited medication, until day of infusion (Day 1).

ASyS, antisynthetase syndrome; CAR, chimeric antigen receptor; DM, dermatomyositis; IMM, immune-mediated necrotizing myopathy; LN, lupus nephritis; rese-cel, resescabtagene autoleucel; RESET, REstoring SElf-Tolerance; SLE, systemic lupus erythematosus; SSc, systemic sclerosis, TCR, T cell receptor.

Cabaletta Bio. Data on file.

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Demographics & CRS/ICANS in 1st 40 patients dosed with rese-cel

Across 4 RESET™ studies, 95% of patients with no CRS or Grade 1 CRS (fever) and 95% with no ICANS¹

Baseline characteristics of autoimmune disease patients treated with rese-cel				
	RESET-Myositis	RESET-SLE	RESET-SSc	RESET-MG
Number of patients	15	10	9	6
Age, years, mean (SD)	51.7 (14.6)	30.4 (7.6)	53.1 (12.3)	57.5 (9.8)
Sex, % female	53.3	80.0	66.7	66.7
Duration of disease, years, mean (SD)	5.4 (3.7)	9.8 (5.0)	2.2 (1.3)	5.1 (5.3)

Incidence, severity and onset of CRS and ICANS in the 1 st 28 days in patients treated with rese-cel				
	RESET-Myositis	RESET-SLE	RESET-SSc	Total
CRS [‡] , n (%)	5 (33.3)	3 (30.0)	4 (44.4)	13 (32.5% CRS)
CRS Grade 1, n (%)	5 (33.3)	3 (30.0)	3 (33.3)	0 (0.0)
CRS Grade 2, n (%)	–	–	1 (11.1)	1 (16.7)
Time to CRS onset, days* (mean)	7.4	7.3	8.5	7.7 days
CRS duration [†] , days (mean)	4.6	3.0	3.0	3.5 days
ICANS [‡] n (%) (Grade)	–	1 (10) (G4)	1 (11.1) (G3)	–
Time to ICANS onset, days (mean)	–	9.0	8.0	8.5 days
ICANS duration, days (mean)	–	3.0	3.0	3.0 days

^{*}Days relative to rese-cel infusion.

[†]Events occurring within 7 days of each other are considered as 1 episode. IMNM-3 CRS duration includes preceding event of fever which was consistent with CRS definition.

[‡]Graded per ASTCT Consensus Grading Criteria.

1. Presented at ASH 2025 with data cut-off as of October 30, 2025.

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CAR T may eliminate active disease & use of expensive medications

Rese-cel safety profile permits outpatient administration which can facilitate favorable reimbursement

Safety barrier posed by CAR T therapies in oncology affects reimbursement

Cancer patients experience early and frequent CRS/ICANS CAR T therapy, which increases inpatient admissions and shifts Medicare reimbursement to the DRG system.

Majority of oncology patients treated with CAR T therapy experience CRS within first 5 days post-infusion¹

Many cancer patients are insured under Medicare, which has inpatient **DRG-018** reimbursement



Outpatient administration of rese-cel can facilitate favorable reimbursement

Commercial

Myositis & SSc patients often commercially insured (60%-75%)^{2,3}



CRS less frequent & severe, delayed onset → potential outpatient administration



Outpatient CAR T infrastructure exists at many centers

Medicare

Outpatient administration supports viable Part B Medicare payments



RESET clinical site footprint can be leveraged to generate early adopters

1. Ferreri, Christopher J., and Manisha Bhutani. "Mechanisms and management of CAR T toxicity." *Frontiers in Oncology* 14 (2024): 1396490.
2. Simeyer-Tomic KE, et al. *BMC Musculoskelet. Discord.* 2012 Jun 15;13:103. doi: 10.1186/1471-2474-13-103.
3. Gale, Sara L., et al. "Characterizing disease manifestations and treatment patterns among adults with systemic sclerosis: a retrospective analysis of a US healthcare claims population." *Rheumatology and therapy* 7.1 (2020): 89-99.

RESET™ program designed for outpatient administration at launch

Outpatient administration reduces administrative burden and improves patient and provider accessibility



INPATIENT MODEL

Limited patient beds and resource infrastructure

- ✖ Increases inpatient resource pressure:
↑ total cost of care, human resource and bed space demands
- ✖ Reduces eligible patients treated



OUTPATIENT MODEL

More favorable safety profile permits reduced need for inpatient admission

- ✓ Reduces use of hospital resources; Increases throughput
- ✓ Reduces conflicts with cancer patient use of in-patient beds

Rese-cel commercial model – manufacturing and COGM

Health status of patient population and slower disease progression improve manufacturing cost efficiency

✗ In oncology, disease progress & out of specification (OOS) rates increase costs and reduce margins

Late-stage oncology patients have high drop-off rate due to rapid disease progression and compromised T cell fitness, leading to higher manufacturing OOS rates^{1,2,3}

Increased OOS rates; ↑ COGM
+ ↓ revenue since out of spec products not reimbursed

Disease progression reduces revenue capture because unused product not reimbursed

Reduced eligible patients, resulting in economies of scale not being achieved

Manufacturing capacity constraints → delayed commercial ramp-up

✓ Rese-cel manufacturing can lead to reduced COGM via higher success rate and automation potential



Autoimmune patients are not heavily pretreated with chemotherapy → more fit immune cells that support reliable manufacture, reducing COGM



Autoimmune patients typically do not progress as rapidly as cancer patients → more reliable revenue realization for manufactured product



Building manufacturing capacity at CDMOs to enable successful launch; Cellares automation has the potential to facilitate post-approval expansion

COGM – Cost of goods manufactured

1. U.S. Food and Drug Administration. Kymriah (tisagenlecleucel) Prescribing Information. Revised 2025. U.S. Food and Drug Administration <https://www.fda.gov/media/107296/download>

2. U.S. Food and Drug Administration. Breyanzi (lisocabtagene maraleucel) Prescribing Information. Revised 2025. U.S. Food and Drug Administration <https://www.fda.gov/media/145711/download>

3. U.S. Food and Drug Administration. Yescarta (axicabtagene ciloleucel) Prescribing Information. Revised 2025. U.S. Food and Drug Administration <https://www.fda.gov/media/108377/download>

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Myositis: Unmet Need & Clinical Data

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Myositis: High rates of disability & increased risk of mortality

Highly concentrated treatment network in the US; dermatomyositis represents ~75% of this market

High disease burden: disability & mortality

- Typical patient is a middle-aged female who experiences muscle weakness, fatigue, pain, shortness of breath and difficulty swallowing
 - Moderate to severe disability (40% to 65%)¹
 - Assisted walking devices (18% to 38%)¹
- The **risk of mortality is ~3 times higher** than the general population, primarily due to cancer and lung & cardiac complications²
 - ~20% mortality < 5 years with standard immunosuppressive treatment³

*"I find it **very difficult** to get up from a regular chair; I need boosters or assistance from somebody else. Walking, my **gait has really suffered**. My stability walking has suffered as well, and I **can't lift anything more than five or eight pounds**. So doing stuff is difficult. Bending down is very difficult. **I can't get up from the floor if I fall.**"*



"John"

61-year-old male with ASyS⁴
~10 yrs since diagnosis

*"It just **affected every aspect** of my life. Just work, family, social life, own wellbeing. It just pours into everything else with that."*



"Erica"

44-year-old female with DM⁴
~2.5 yrs since diagnosis

Subtype prevalence in the U.S.

~60,000 pts^{5,6}
Dermatomyositis (DM)

~15,000 pts^{7,8}
Anti-synthetase syndrome (ASyS)

~7,500 pts^{5,9}
Immune-mediated necrotizing myopathy (IMNM)

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- Opinc AH, Brzezinska OE, Mekowska JS. Disability in idiopathic inflammatory myopathies: questionnaire-based study. *Rheumatol Int*. 2019;39(7):1213-1220.
- Marie I. Morbidity and mortality in adult polymyositis and dermatomyositis. *Curr Rheumatol Rep*. 2012;14(3):275-285.
- Schipoli E, Phillips K, MacDonald PM, Crawford L, Somers EC. Predictors of survival in a cohort of patients with polymyositis and dermatomyositis: effect of corticosteroids, methotrexate and azathioprine. *Arthritis Res Ther*. 2012;14(1):R22.
- Primary market research conducted via third-party, blinded interviews with myositis patients, conducted in 2024.
- Khoo 2023 6, Kronzer 2023 7, Coffey 2021 8, Dahai 2022 9, Shelley 2022

Myositis: Limited treatment options for ~80k U.S. patients

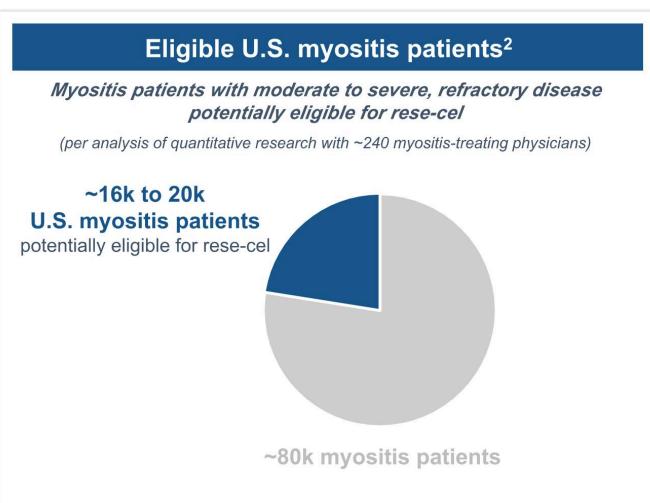
IVIg is the only approved therapy (only for patients with the adult dermatomyositis subtype)

➤ Autoimmune disease with B cells component

- Idiopathic inflammatory myopathies (IIMs, or myositis) are a group of autoimmune diseases characterized by inflammation and muscle weakness

➤ Limited treatment options¹

- Common therapies: steroids plus an immunomodulator (i.e. methotrexate, azathioprine, mycophenolate, rituximab)
- IVIg (intravenous immunoglobulin), the only FDA-approved therapy, is approved in adult dermatomyositis
- Therapies can carry potential long-term side effects such as serious infections and organ damage
- Despite existing therapies, disease is often refractory
- Two therapies in Phase 3 development, Brepocitinib and Vyvgart®, demonstrated improvement with chronic administration added onto existing immunomodulatory medications

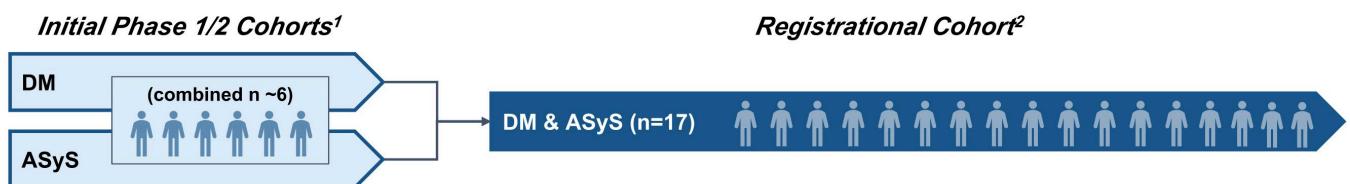


1. Lundberg, Ingrid E., et al. "Idiopathic inflammatory myopathies." *Nature Reviews Disease Primers* 7.1 (2021): 86.

2. Analysis from quantitative survey of U.S. myositis-treating physicians, conducted 2Q25. N = ~240.

FDA aligned on key design elements of myositis registrational cohort

FDA alignment achieved in Type C meeting; single-arm evaluation of DM/ASyS sub-types at 16 weeks in a 17-patient cohort



- Expansion of current RESET-Myositis trial to include registrational cohort in DM / ASyS (~60k / ~15k US patients)
- Primary Endpoint:** Moderate or Major TIS response @ Week 16 off all immunomodulators and off or on low-dose³ steroids
- Expanded trial to 17 patients to ensure approximately 14 DM patients can enroll based on natural U.S. prevalence estimates
- Confirmed current dose of 1 million cells/kg in a single infusion
- Safety database ~100 autoimmune patients at ≥1-month of follow-up (with at least 35 myositis patients)
 - ~70% of the safety database already enrolled across the RESET clinical development program⁴

Registrational trial initiated with planned 2027 BLA submission

TIS, total improvement score.

1. Pediatric submission based on data available at the time of adult submission from ongoing Ph 1/2 study (no new study) to support pediatric label claim
2. Size of myositis registrational cohort based on key statistical parameters aligned upon with the FDA and background remission rate in myositis.
3. Low dose steroids is defined as 50% reduction from baseline or ≤7.5 mg/day.
4. As of October 24, 2025.

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Baseline characteristics: First 13 patients in RESET-Myositis*

All patients had active, refractory disease despite multiple immunomodulatory agents, including IVIg

	DM N=4	ASyS N=2	IMNM N=6	JIIM N=1
Mean age, years (min, max)	~58 (45, 72)	~44 (39, 48)	~55 (33, 64)	14
Female, n (%)	3 (75)	1 (50)	1 (17)	1 (100)
Years since diagnosis, mean (min, max)	3.0 (2.0, 3.6)	9.2 (3.6, 14.8)	4.5 (1.4, 8.8)	8.5
Myositis-specific autoantibody	50% TIF1-γ 25% NXP, 25% SAE	100% Jo-1	67% HMGCR 33% SRP	NXP-2
Baseline disease activity[†]				
Mean MMT-8	109.6	129.5	122.0	134.0
Median CK, U/L	40.0	311.5	2214.5	176.0
Mean CDASI-A	26	N/A	N/A	N/A
Prior RTX[‡]	75%	100%	50%	100%
Prior IVIg[‡]	100%	100%	83%	100%
Therapies at Screening				
Systemic GCs	75%	100%	67%	0
≤2 IMs	50%	50%	100%	0
≥3 IMs	50%	50%	0%	100%

*As of 11 Sep, 2025.

[†]Baseline disease activity = activity before preconditioning.

[‡]Reflects any exposure to RTX and IVIg prior or at time of study entry. RTX is not allowed within approximately 6 months of Screening.

ASyS, antisynthetase syndrome; CDASI-A, Cutaneous Dermatomyositis Disease Area and Severity Index – Activity; CK, creatine kinase; DM, dermatomyositis; GC, glucocorticoid; HMGCR, 3-hydroxy-3-methylglutaryl-coenzyme A reductase; IM, immunomodulatory medication; IMNM, immune-mediated necrotizing myopathy; IVIg, intravenous immunoglobulin; JIIM, juvenile idiopathic inflammatory myopathy; MMT-8, manual muscle testing 8; NXP, nuclear matrix protein; N/A, not applicable; RESET, REstoring SElf-Tolerance; RTX, rituximab; SAE, small ubiquitin-like modifier activating enzyme; SRP, signal recognition particle; TIF1, transcription intermediary factor 1; U/L, units per liter.

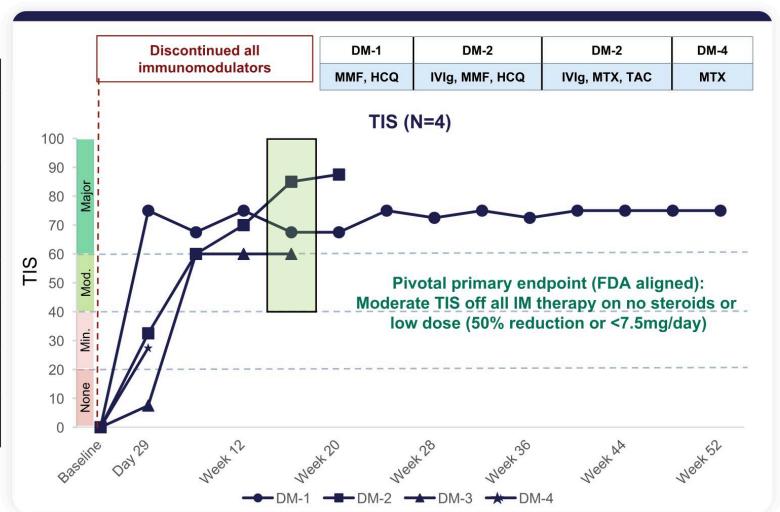
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DM: Efficacy data following rese-cel infusion*

3 of 3 patients with DM with sufficient follow-up achieved major TIS responses at Week 16

Assessment at Week 16	DM Patients (baseline autoantibody)			
	DM-1 (SAE)	DM-2 (None detected [†])	DM-3 (TIF1- γ)	DM-4 (TIF1- γ)
IM-free	✓	✓	✓	✓‡
Low dose or no GC	✓	✓	✓	✓‡
TIS Response	Major	Major	Major	N/A§
Complete and transient B cell depletion	✓	✓	✓	✓‡
Antibody trend¶	↓	N/A	↓	N/A§
Meets pivotal primary endpoint	✓	✓	✓	N/A§



After discontinuation of all IM medications, 3 of 3 DM patients achieved the FDA-aligned 16-week primary endpoint for the upcoming pivotal study of at least moderate TIS response

*As of 11 Sep, 2025.

† Historical NXP-2 autoantibody, but none detected at Pre-preconditioning (Baseline) visit. ‡ At latest follow-up (Day 29). § Insufficient follow-up. ¶ Reflects trend from baseline to latest timepoint. DM, dermatomyositis; FDA, Food and Drugs Administration; GC, glucocorticoids; HCQ, hydroxychloroquine; IM, immunomodulatory medication; IVIg, intravenous immunoglobulin; mg, milligrams; MMF, mycophenolate mofetil; MTX, methotrexate; N/A, not available; NXP, nuclear matrix protein; rese-cel, resecatagene autoleucel; SAE, small ubiquitin-like modifier activating enzyme; TAC, tacrolimus; TIF1- γ , transcription intermediary factor 1 gamma; TIS, total improvement score.

Cabaletta Bio: Data on File.

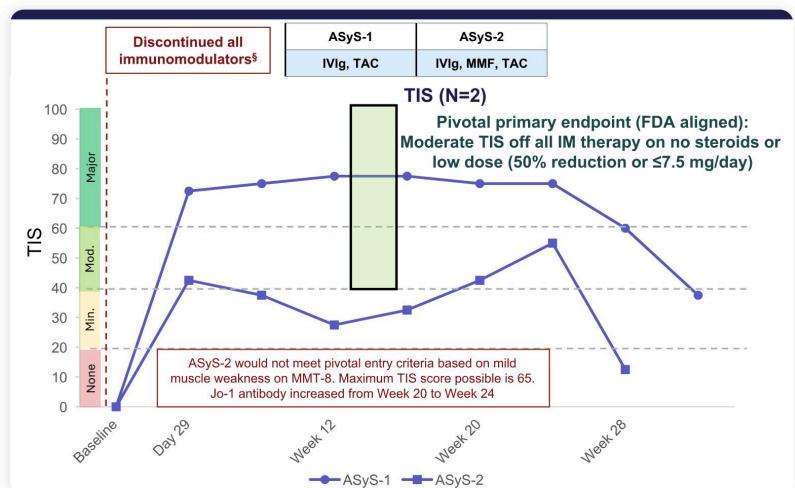
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ASyS: Efficacy data following rese-cel infusion*

Patient who would meet key inclusion criteria in registrational cohort achieved a major TIS response at Week 16

Assessment at Week 16	ASyS (baseline autoantibody)	
	ASyS-1 (Jo-1)	ASyS-2 (Jo-1)
IM-free	✓	✓
Low dose or no GC	✓	✓
TIS response	Major	Minimal
Complete and transient B cells depletion	✓	✓
Antibody trend [†]	↓‡	↓→‡
Meets pivotal primary endpoint	✓	✗



Responses to CD19-CAR T among some ASyS patients may be time-limited by the recurrence or persistence of pathogenic autoantibodies¹⁻³ from CD19-negative long-lived plasma cells despite complete B cell depletion

*As of 11 Sep, 2025.

[†]Reflects trend from baseline to latest timepoint antibody results are available (Week 24 for both patients). In ASyS-2, Jo-1 antibody level trended up from Week 20 to Week 24 but was lower than baseline.

[‡]Based on the research-based, qualified, quantitative Luminex assay. [§]ASyS-1 to minimal response at latest follow-up (Week 32); treated with GC bursts and obinutuzumab; ASyS-2 to no response at latest follow-up (Week 28); treated with GC burst.

ASyS, antineutrophil cytoplasmic autoantibody-associated vasculitis; FDA, Food and Drugs Administration; GC, glucocorticoids; IM, immunomodulatory medication; IVIg, intravenous immunoglobulin; mg, milligrams; MMF, mycophenolate mofetil; N/A, not available; rese-cel, resecatagene autoleucel; TAC, tacrolimus; TIS, total improvement score.

1. Cabaletta Bio: Data on File. 2. Pinal-Fernandez I, et al. Ann Rheum Dis. 2024;83(11):1549-1560. 3. Galindo-Feria AS, et al. Best Pract Res Clin Rheumatol. 2022;36(2):101767. 4. Müller, F, et al. Nat Med. 2025;31(6):1793-1797.

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Rese-cel Manufacturing Strategy & Innovation

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Rese-cel commercial process preliminary comparability established

Reliable process with >90% manufacturing success rate in first ~70 patients¹



- Process A - Early clinical process
- Process B – Commercial-ready manufacturing process
 - Substantially closed process reducing contamination risk
 - Partially automated manufacturing process improving process consistency
 - 3-fold higher capacity per facility footprint than original Process A
- FDA feedback received on comparability between Process A vs. Process B
 - Alignment on preliminary data enables use of previously dosed patients in safety database

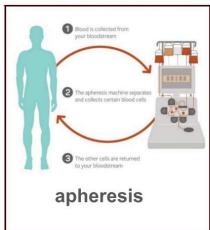
1. Across Process A and Process B; only 1 failure attributed to patient starting material.

Advancing breakthrough innovations to improve scalability and costs

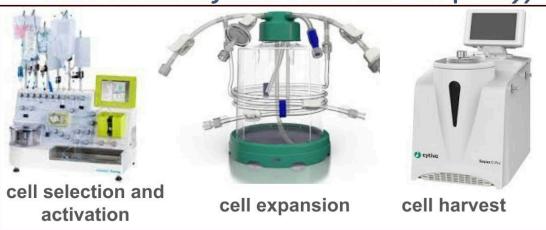
Automation and elimination of preconditioning and apheresis could enhance patient experience

CURRENT

T cell collection



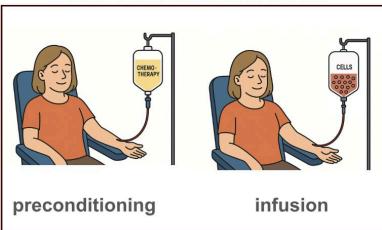
Rese-cel manufacture and harvest (9 day)



Product release



Rese-cel administration



INNOVATIONS

Blood draw to replace apheresis^{1,2}



Cellares Cell Shuttle³

- Fully closed, end-to-end automation
- Rapid & global scalability
- Shorter turn-around-time

One outpatient infusion without preconditioning⁴

1. Stratton et al, ESGCT 2024. Poster available at <https://www.cabalettabio.com/technology/posters-publications>

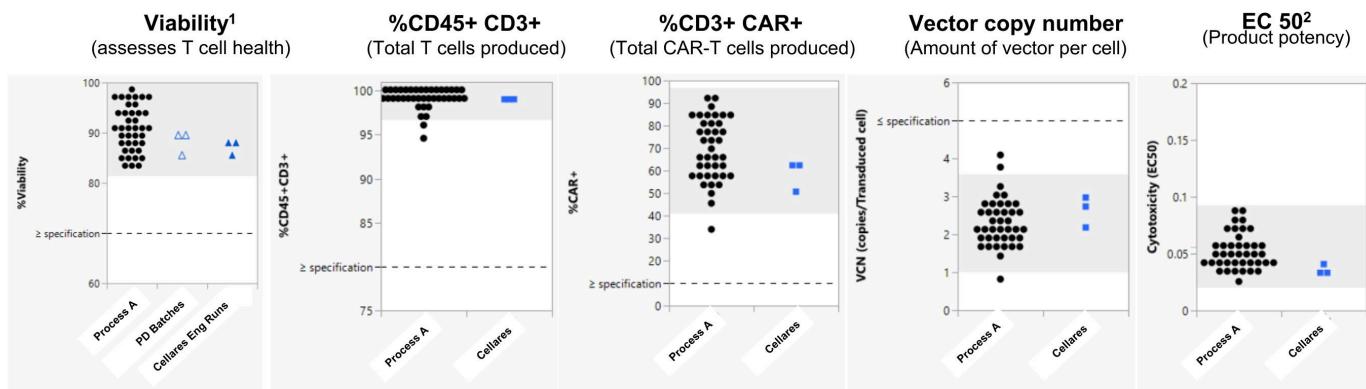
2. (https://d1io3yog0oux5.cloudfront.net/_cdcc45a1b07d9c1e0fc529e815f21ec3/cabalettabio/db/947/8240/pdf/Whole+Blood+Mfg+Poster+ESGCT+2024.pdf)

3. Automation run feasibility completed under TAP program, see PR on cellares.com (<https://www.cellares.com/news/cellares-and-cabalettabio-successfully-complete-manufacturing-technology-adoption-program-for-rese-cel-using-the-cell-shuttletm-platform/>)

4. Under evaluation in an ongoing study in Pemphigus Vulgaris (NCT004422912); presented at ESGCT Conference 2025, presentation is available at <https://www.cabalettabio.com/technology/posters-publications>.

Rese-cel engineering runs with Cellares supported INDa clearance

Three successful engineering runs³ completed in 2025 led to IND amendment (INDa) clearance



Clinical manufacturing experience with Cellares' automated manufacturing process anticipated in 1H26, which will confirm GMP readiness, including supply chain readiness, with the Cellares manufacturing platform

Note: Shaded areas represent historical ranges defined by tolerance intervals that covers 90% of the population with 95% confidence.

1. Cellares use Celleca for cell count to enable automated testing, while historical Process A data were collected using NC200. Data generated in Cabaletta Analytical Development lab using NC200 showed Engineering batches are within historical ranges.

2. Effective Concentration 50, which is a measurement of product potency in a validated luciferase-based assay, designed for potency release testing on manufactured product.

Lower EC50 indicates greater potency of product.

3. Shaded area in the graphs indicate range of process comparability, based on historic process data, and as aligned with FDA.



A woman with short brown hair, wearing a red t-shirt, is smiling and looking towards the camera. She is in a hospital room, with a medical monitor and a person's arm visible in the background.

Rese-cel – Initial Dose Data without Preconditioning

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Summary of rese-cel without preconditioning (PC), initial dose cohort*

Early clinical activity observed without preconditioning; low dose rese-cel may be a ‘threshold’ dose

- Clear evidence of biologic and clinical activity in all three PV patients in the initial dose cohort
 - PDAI improvements were present in all three and were compelling in two of the three patients
 - All patients remain off all immunomodulators while GCs are being tapered from low doses
- Peripheral B cell elimination was observed in the two patients with the greatest clinical response
 - BAFF induction in these two patients was at the low end of the range of rese-cel with PC
- Rese-cel persistence without PC was similar to patients who received rese-cel with PC
 - Peak persistence was not impacted by absence of PC and occurred slightly later without PC
- IFNy induction in non-PC patients was at the higher end of the range observed in PC patients
 - Higher levels may be attributable to higher B cell burden in PV patients and/or absence of preconditioning
- Rese-cel was generally well tolerated in PV patients without PC¹
 - Based on limited data in the first three patients without PC, CRS rate was similar in rese-cel patients with PC

*As of 11 September 2025. Cabaletta Bio: Data on file.

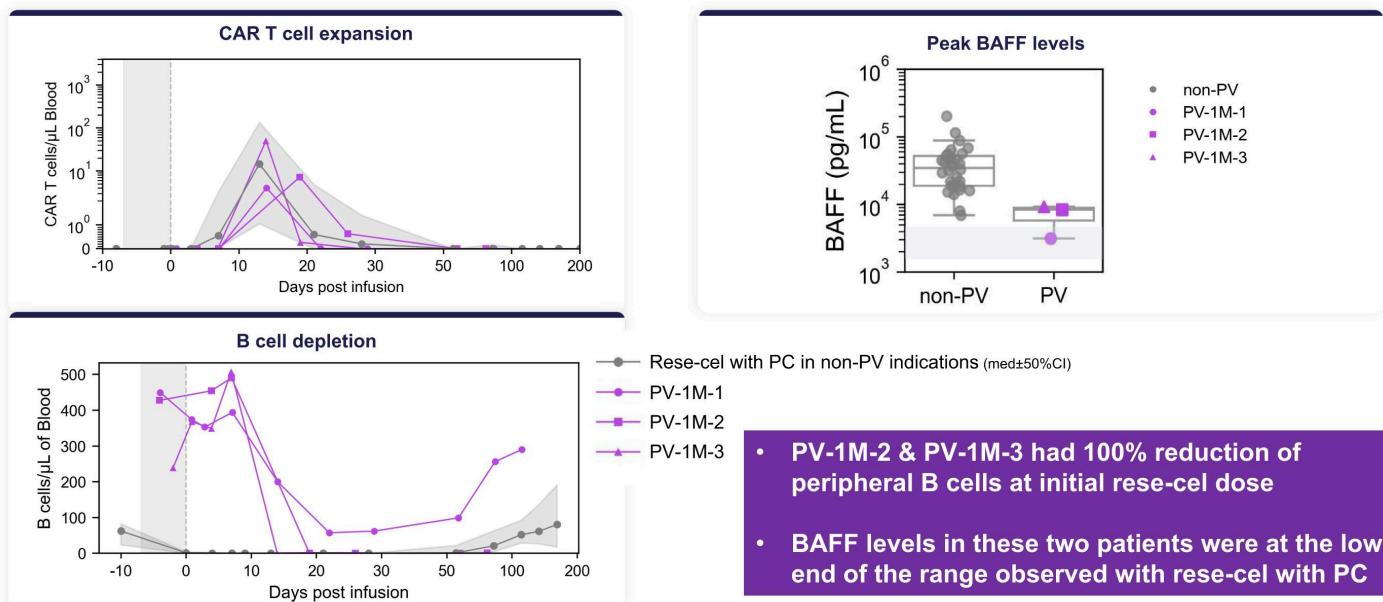
BAFF, B cell activating factor; CRS, cytokine release syndrome; GC, glucocorticoids; PDAI, pemphigus disease area index; PV, pemphigus vulgaris; rese-cel, resacabtagene autoleucel; IFNy, interferon-gamma
1. Standard preconditioning in RESET trials consists of fludarabine 25 mg/m² x 3 days and cyclophosphamide 1000 mg/m² x 1 day.

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Similar PK & B cell depletion in rese-cel treated patients without PC*

Similar magnitude of rese-cel expansion & B cell depletion kinetics in patients treated with and without PC



*As of 11 September 2025.

Gray vertical dotted line indicates day of rese-cel infusion (study visit Day 1). Gray shading in BAFF plot is range of median serum BAFF induction observed in PV patients following rituximab (Nagel et. al, 2009 *Journal of Investigative Dermatology* and Hébert et. al, 2021 *Frontiers in Immunology*).

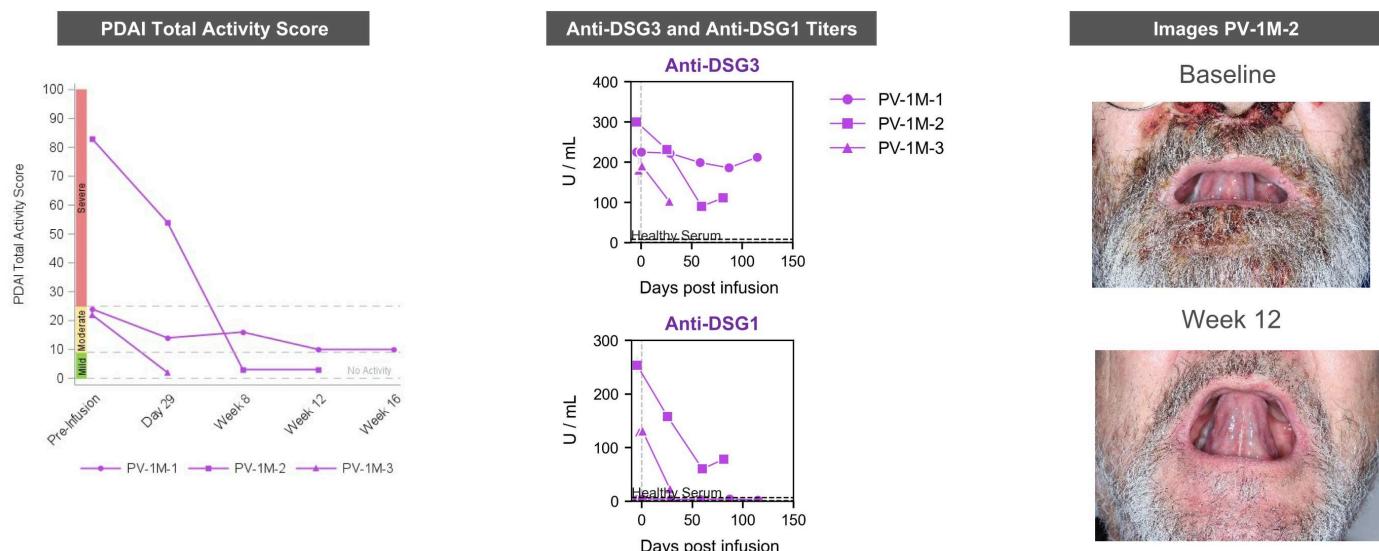
Cabaletta Bio: Data on file.

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Early clinical activity of rese-cel without preconditioning*

Near complete resolution of clinical symptoms and rapid reduction in autoantibodies in 2 of 3 patients

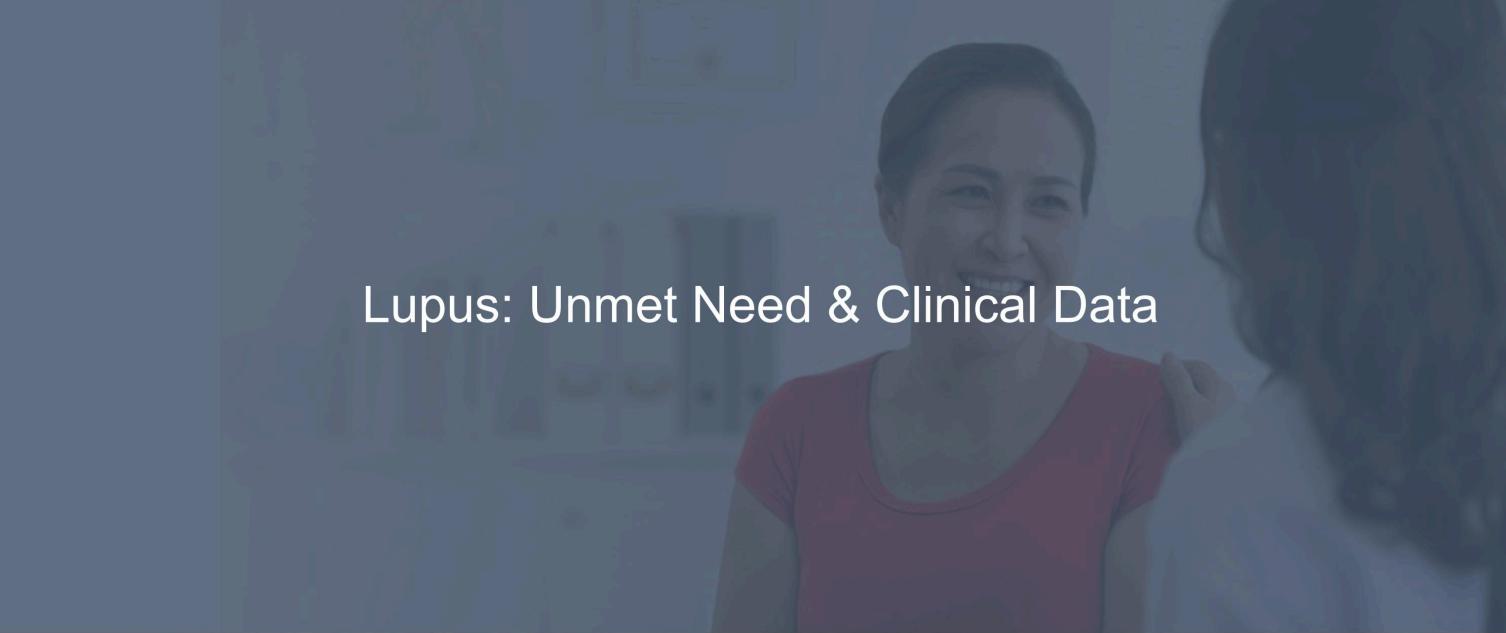


PDAI improvements were most significant in the two patients who experienced peripheral B cell elimination; all three patients were off immunomodulators as of the data cut-off

*As of 11 September 2025. Cabaletta Bio: Data on file. Disease severity intervals as defined Krain RL, et al. Br J Dermatol. 2021;184(5): 975–977.
Gray vertical dotted line indicates day of rese-cel infusion (study visit Day 1).

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Lupus: Unmet Need & Clinical Data

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SLE & LN: Represent a high unmet clinical need

Increased mortality risk & negative impact on quality of life for patients with SLE & LN

➤ SLE is a chronic autoimmune condition that can affect nearly every organ system¹

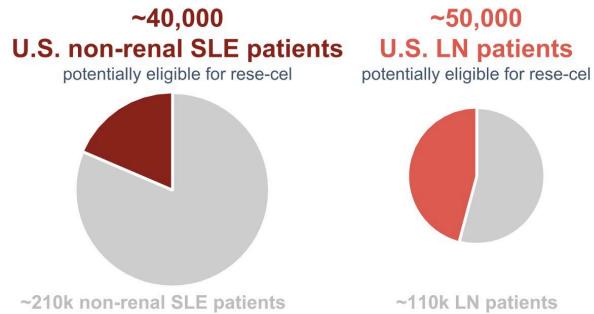
- Most common in women, with disease onset generally between ages of 20-40 years
- Common symptoms include severe fatigue, joint pain and swelling, skin rashes, ulcers & Raynaud's phenomenon
- >50% of patients develop permanent widespread organ damage, caused by disease & current treatments²
- Standardized mortality ratio from 2.4-4.5 for SLE patients^{3,4}

➤ ~30-40% of SLE patients develop LN, with inflammation & damage within the kidneys

- LN may present silently or with symptoms such as proteinuria, hematuria, swelling & elevated blood pressure
- 10-30% of patients with LN will progress to ESRD, requiring dialysis or transplantation within the first decade of their disease^{5,6}

Eligible U.S. Non-Renal SLE & LN patients⁷

*SLE patients with moderate to severe, refractory disease & LN patients with refractory disease potentially eligible for rese-cel
(per analysis of quantitative research with ~150 lupus-treating physicians)*



Market research indicates opportunity to achieve superior penetration and potentially further expand the market through introducing a no preconditioning CAR T alternative for patients

ESRD: end-stage renal disease; LN: lupus nephritis; SLE: systemic lupus erythematosus.
1. Zen M, et al. Eur J Intern Med. 2023;112:45-51. 2. Rahmen P, et al. Lupus. 2001;10(2):93-96. 3. Singh, R, et al. Lupus 27:10 (2018): 1577-1581. 4. Murimi-Worstell, I., et al. BMJ 10.5 (2020): e031850. 5. Lichtenleiter, J. Natura review rheumatology 20.11 (2024): 699-711. 6. Tektonidou, M. Arthritis & rheumatology 68.6 (2016): 1432-1441. 7. Results from quantitative survey of U.S. lupus-treating physicians (rheumatologists & nephrologists), conducted 2Q25. N = ~150.

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Baseline characteristics: First 9 patients in RESET-SLE*

All patients had active, refractory disease and had failed multiple B cell-targeted therapies

Cohort	Non-renal SLE (n=5)	LN (n=4)
Age, years, mean (min, max)	~34 (26, 44)	~26 (18, 35)
Female, n (%)	4 (80)	3 (75)
Time from diagnosis to screening, years, mean (min, max)	11.5 (6.1, 17.3)	7.3 (2.2, 15.7)
Autoantibodies (%)	dsDNA: 100% Sm: 60%	dsDNA: 75% Sm: 75%
Baseline disease activity†	SLEDAI-2K (median)	
	10	16
	UPCR (mg/mg) (median)	
	1.09§	3.45
Therapies at screening:		
Systemic GCs	80%	50%
≤2 SLE immunomodulators‡	60%	50%
≥3 SLE immunomodulators‡	40%	50%
GC dose at screening, mg/day, mean (min, max)	13.4 (0, 30)	6.25 (0, 20)

*As of 11 Sep, 2025.

†Baseline disease activity = activity before preconditioning.

‡SLE medications may include biologics, anti-malarials, and immunosuppressants.

§N=2 patients included in UPCR analysis: SLE-1 had pure Class V LN and extra-renal SLE disease activity and SLE-5 had Class II LN with moderate to severe chronicity and extra-renal disease activity that met inclusion criteria for the non-renal cohort.

dsDNA, double-stranded DNA; GC, glucocorticoid; LN, lupus nephritis; RESET, RESToring SElf-Tolerance; SLE, systemic lupus erythematosus; SLEDAI-2K, SLE Disease Activity Index 2000; Sm, Smith;

UPCR, urine protein-to-creatinine ratio.

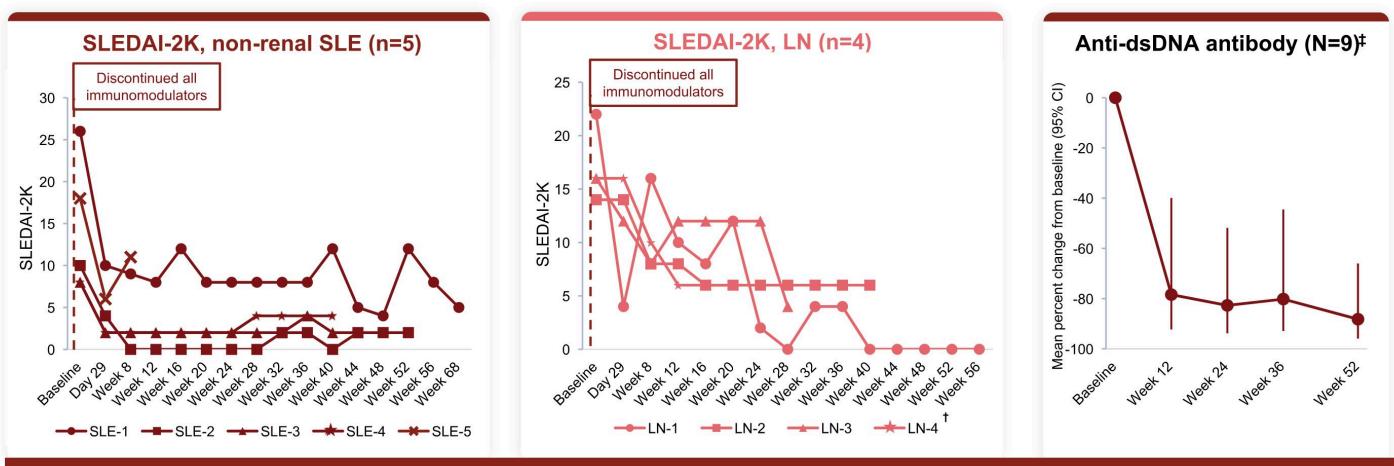
Cabaletta Bio: Data on File.

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Efficacy data following rese-cel infusion*

Improvements in SLEDAI-2K over time and significant reduction in anti-dsDNA antibodies after discontinuing immunomodulators



Clinical & translational data in lupus for rese-cel with preconditioning (PC) along with initial no PC data in PV support expansion of simplified no PC regimen into lupus; initial clinical data anticipated in 2H26

*As of 11 Sep 2025

†Week 20 urinalysis components of the SLEDAI-2K (WBC, RBC and casts) imputed from Week 16 for total SLEDAI-2K score.

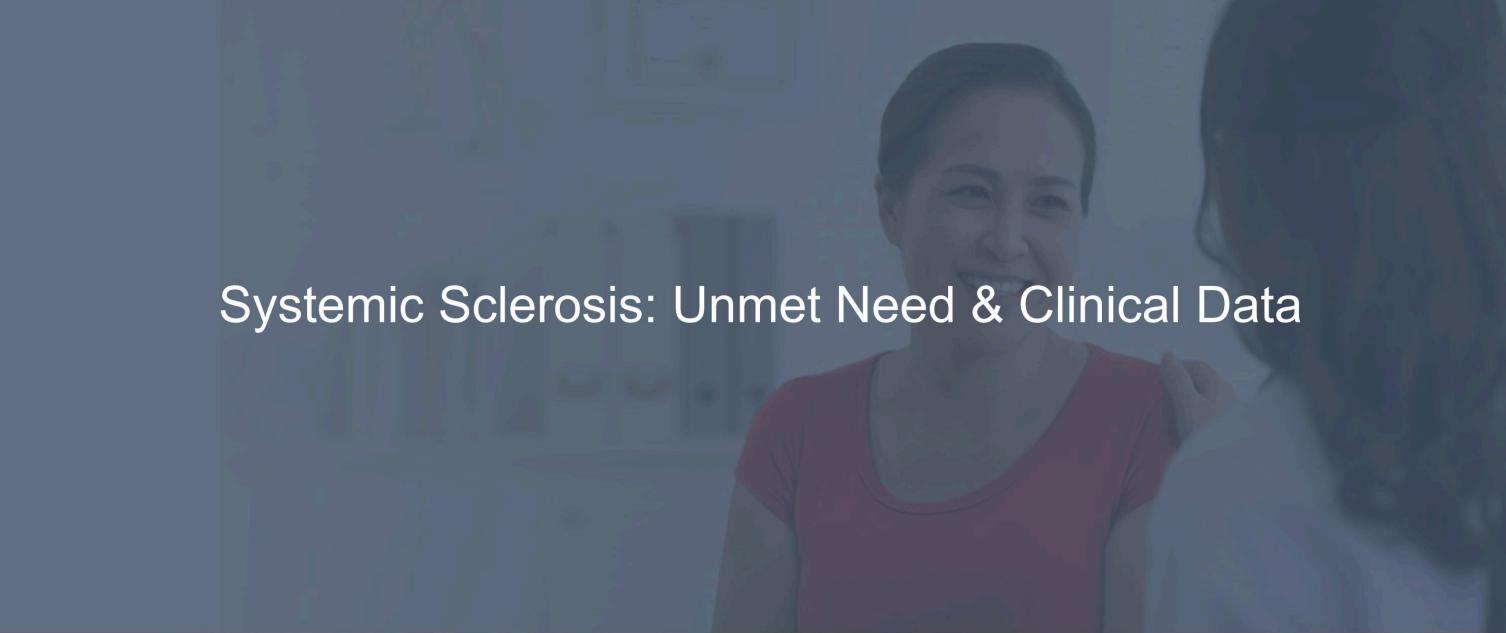
‡Assessed by ELISA at a central lab at baseline, weeks 12, 24, 36 and 52.

dsDNA, double-stranded DNA; LN, lupus nephritis; RBC, red blood cell; rese-cel, resescabtagene autoleucel; SLE, systemic lupus erythematosus; SLEDAI-2K, Systemic Lupus Erythematosus Disease Activity Index 2000; WBC, white blood cell.

Cabaletta Bio: Data on File.

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Systemic Sclerosis: Unmet Need & Clinical Data

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Systemic sclerosis: Profound unmet need & limited options

Associated with progressive morbidity and high mortality^{1,2}

➤ Rare, potentially life-threatening autoimmune disease¹

- Characterized by progressive skin & internal organ fibrosis¹
- Deep, tissue-level B cell-driven autoimmunity, with activated B cells & autoantibodies, promotes inflammation & organ damage³

➤ Patients experience a progressive & often fatal course

- Typically, middle age onset and more common in females¹
- Highest mortality of all rheumatological diseases & significant burden from persistent skin & organ manifestations^{4,5}
 - Mean survival is ~12 years from diagnosis
- Need for disease-modifying therapies across all SSc subsets⁵
 - FDA-approved agents for SSc-ILD slow but do not stabilize or improve lung progression
 - Approved based on 1-year primary endpoints
 - No existing treatments capable of halting SSc pathology other than AHSCT, which carries high risk

Eligible U.S. SSc patients⁶

SSc patients with early, active disease potentially eligible for rese-cel
(per quantitative research with ~100 SSc-treating physicians)

~12,000-15,000
U.S. SSc patients
potentially eligible for rese-cel



~90k SSc patients
(~40% with clinically significant ILD)

AHSCT, autologous hematopoietic stem cell transplantation; ILD, interstitial lung disease; SSc, systemic sclerosis.
1. Allanore Y, et al. Nat Rev Dis Primers. 2015;1:15002. 2. Denton CP, et al. Lancet. 2017;390(10103):1685–1699. 3. Thoreau B, et al. Front Immunol. 2022;13:933468. 4. Truchetet ME, et al. Clin Rev Allergy Immunol. 2023;64(3):262–283. 5. Pope JE, et al. Nat Rev Rheumatol. 2023;19(4):212–226. 6. Results from quantitative survey of U.S. SSc-treating physicians (rheumatologists), conducted 3Q25. N = ~100.

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Baseline characteristics: First 6 Patients in RESET-SSc*

All patients had active, refractory disease and were on 1 to 3 disease-specific therapies at screening

Patient / Cohort	Severe Skin Cohort			Organ Cohort		
	SSc-Skin-1	SSc-Skin-2	SSc-Skin-3	SSc-Organ-1	SSc-Organ-2	SSc-Organ-3
Age, sex	66 F	55 F	59 M	70 M	43 F	60 F
Disease duration (y)	~2	~0.5	~2	~5	~2	~1
Autoantibodies	RNA Pol III	Scl-70	RNA Pol III	□	Scl-70	Scl-70
Baseline[†] mRSS	42	38	45	12	9	24
Baseline[†] HAQ-DI	2.25	2.125	2.875	0.75	0.50	2.50
Baseline[†] PFTs (% predicted)	FVC: 91 DLCO: 70	FVC: 93 DLCO: 58	FVC: 50 DLCO: 89	FVC: 69 DLCO: 58	FVC: 76 DLCO: 66	FVC: 83 DLCO: 78
ILD presence[‡]	✓	□	□	✓	✓	✓
Therapies at Screening	MMF	GC, MPA	MMF	MMF, TOC, NIN	GC, TOC	MMF, IVIg, HCQ

*As of 11 Sep, 2025; primary endpoint is incidence and severity of adverse events through Day 29

[†]Baseline disease activity = activity before preconditioning.

[‡]Per patient history and HRCT.

DLCO, % predicted diffusing capacity for carbon monoxide; FVC, forced vital capacity; GC, glucocorticoid; HAQ-DI, Health Assessment Questionnaire Disability Index; HCQ, hydroxychloroquine; HRCT, high-resolution computed tomography; ILD, interstitial lung disease; IVIg, intravenous immune globulin; MMF, mycophenolate mofetil; MPA, mycophenolic acid; mRSS, modified Rodnan skin score; NIN, nintedanib; SAE, serious adverse event; PFT, pulmonary function test; RESET, RESToring SELF-Tolerance; RNA Pol III, ribonucleic acid polymerase III; Scl-70, anti-topoisomerase I antibody; SSc, systemic sclerosis; TOC, tocolizumab; y, years.

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SSc: Efficacy data following rese-cel infusion*

As of the data cut-off, 4 of 4 SSc patients with ≥ 12 weeks follow-up had FVC stabilization or improvement

Patient / Cohort	Severe Skin Cohort			Organ Cohort		
	SSc-Skin-1	SSc-Skin-2	SSc-Skin-3	SSc-Organ-1	SSc-Organ-2	SSc-Organ-3
Latest follow-up	Week 48	Week 24	Day 29	Week 16	Week 12	Day 29
GC-free	✓	✓	✓	✓	✓	— ^{##}
IM-free	✓	✓	✓	✓	✓	✓
Antibody and trend[†]	RNA Pol III	Scl-70 **	RNA Pol III; too early	None detected	Scl-70	Scl-70; too early
Revised CRISS-25[‡] (time to response)	✓ Week 12	✓ Week 24	N/A	✓ Week 12	✓ Week 12	N/A
Revised CRISS-50[‡] (time to response)	✓ Week 12 [§]	✓ Week 24	N/A	—	✓ Week 12	N/A
mRSS (baseline to latest follow-up)	42→23	38→27	45→32	12→6	9→4	24→22
FVC[¶] [%] (baseline to latest follow-up)	91→105	93→100	N/A	69→72	76→77	N/A
DLCO[¶] [%] (baseline to latest follow-up)	70→81	58→75	N/A	58→58	66→75	N/A

SSc patients were able to achieve meaningful clinical responses off all immunomodulators and off or tapering steroids

*As of 11 Sep, 2025; primary endpoint is incidence and severity of adverse events through Day 29.

[†]Reflects trend from baseline to latest available timepoint.

[‡]Revised CRISS is evaluated at Weeks 12, 24, 36, and 52. PFTs from Week 24 are carried forward for Week 36 evaluation.

[§]Revised CRISS-50 met at Weeks 12 and 36. Not met at Week 24.

[¶]DLCO and FVC are evaluated at Weeks 12 and 24.

**Based on the research-based, qualified, quantitative Luminox assay.

^{##}Tapering GC.

CRISS, Composite Response Index in Systemic Sclerosis; DLCO, % predicted diffusing capacity for carbon monoxide; FVC, forced vital capacity; GC, glucocorticoid; IM, immunomodulatory medication; mRSS, modified Rodnan Skin Score (measure of skin thickness in SSc across 17 body areas, with a maximum score of 51); N/A, not applicable; rese-cel, resecatagene autoleucel; RNA Pol III/RP11, ribonucleic acid polymerase III; Scl-70, Cabaletta Bio: Data on File.

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Myasthenia Gravis: Unmet Need & Clinical Data

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Myasthenia gravis: Significant disease & treatment burden

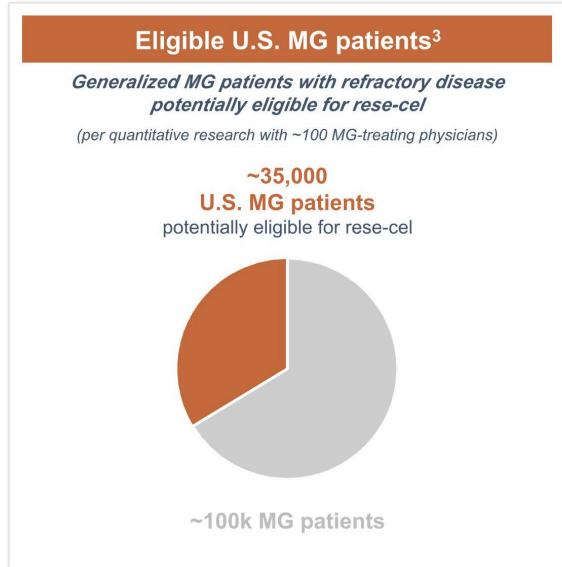
High impact of disease due to patient symptoms & cost burden, particularly for refractory patients

➤ Serious, chronic autoimmune neuromuscular disorder¹

- Characterized by defective transmission at the neuromuscular junction, resulting in weakness of the skeletal muscles
- Typically associated with autoantibodies (e.g. AChR, MuSK, LRP4)
- Symptoms range from ocular involvement, including double vision and ptosis, to severe weakness of the limb, bulbar, trunk, and respiratory muscles, which is worsened with exertion
- Mortality rate estimated to be 5-9%, primarily driven by myasthenic crises, or respiratory crises requiring ventilation²

➤ Treatments have transient effect & involve long-term broad immunosuppression¹

- Available therapeutic options focus on specific symptoms and can be associated with serious long-term side effects
- Mainstays include steroids, immunosuppressants (e.g., mycophenolate), FcRn antagonists, complement inhibitors and rituximab
- MG represents a significant healthcare cost burden in the US, particularly for patients whose disease is inadequately controlled



1. Gilhus NE, et al. *Eur J Neurol*. 2024. 2. Dresser L, et al. *J Clin Med*. May 2021. 3. Results from quantitative survey of U.S. MG-treating physicians (neurologists), conducted 3Q25. N = ~100.

Baseline characteristics: First 4 patients in RESET-MG*

Patient / Cohort (latest follow-up)	AChR Positive		AChR Negative	
	AChR-pos-1 (Week 8)	AChR-pos-2 (Week 4)	AChR-neg-1 (Week 20)	AChR-neg-2 (Week 8)
Age, sex	62, M	44, F	54, F	70, F
Disease duration (approx. years)	1	6	4	1
Autoantibodies	AChR	AChR	Seronegative [‡]	Seronegative [‡]
QMG[†]	11	18	22	21
MG-ADL[†]	15	13	17	14
Therapies at screening	GC, AZA, IVIg, PYR	EFG, PYR	GC, PYR, PLA	PYR, MMF, ROZ
Other prior therapies	–	GC, IVIg, MMF, AZA, ECU, PLA	IVIg, AZA, RTX, ECU, EFG	IVIg
GC dose at screening (mg/day)	25	–	15	–

*As of 11 Sep, 2025.

[†]Baseline disease activity = activity before preconditioning

[‡]Seronegative = no anti-AChR, anti-MuSK and anti-LRP4 antibodies

AChR, acetylcholine receptor; AZA, azathioprine; ECU, eculizumab; EFG, efgartigimod; GC, glucocorticoid; IVIg, intravenous immunoglobulin; MG, myasthenia gravis; MG-ADL, MG – Activities of Daily Living; MMF, mycophenolate mofetil; PLA, plasmapheresis; PYR, pyridostigmine; ROZ, rozałolixizumab; RTX, rituximab; QMG, Quantitative Myasthenia Gravis Score; RESET, REstoring SElf-Tolerance.

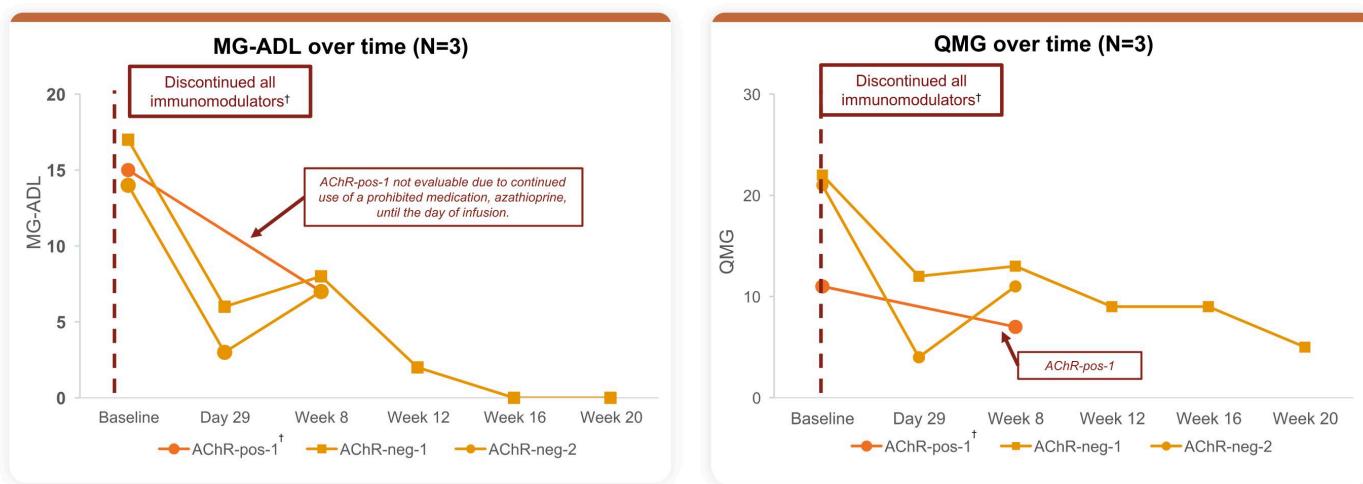
Cabaletta Bio: Data on File.

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MG: Efficacy data following rese-cel infusion*

As of latest follow-up, both evaluable patients showed improvement off immunomodulators and steroids



RESET-MG is now fully enrolled in both cohorts
Cabaletta plans to align with FDA on the registrational cohort design in mid-26

*As of 11 Sep. 2025.

[†]AChR-pos-1, Day 29 visit data unavailable. In AChR-pos-1, azathioprine, a prohibited medication, was continued until the day of infusion (Day 1). IVIg was stopped prior to rese-cel infusion and restarted 4 weeks after infusion for continued MG symptoms.

AChR, acetylcholine receptor; AZA, azathioprine; IVIg, intravenous immunoglobulin; MG, myasthenia gravis; MG-ADL, MG – Activities of Daily Living; QMG, Quantitative Myasthenia Gravis Score; rese-cel, resecatagene autoleucel.

Cabaletta Bio: Data on file.

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Corporate Summary

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Cabaletta Bio leadership

Track record of operational success evaluating & developing novel cell therapy candidates in autoimmunity

LEADERSHIP TEAM



SCIENTIFIC ADVISORY BOARD

Aimee Payne, M.D., Ph.D.
Co-Founder and Co-Chair
Carl June, M.D.
Iain McInnes, Ph.D., FRCP, FRSE, FMedSci

Michael C. Milone, M.D., Ph.D.
Co-Founder and Co-Chair
Georg Schett, M.D.
Jay Siegel, M.D.

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Multiple catalysts anticipated in next 12 months

Innovations to enhance scalability and eliminate preconditioning can expand current opportunity

Rese-cel <i>Resecabtagene autoleucel</i>	Expected Timing	Expected Milestone
	1H26	Clinical manufacturing experience with automated Cellares Platform
	1H26	No preconditioning dose-ranging data in PV
	1H26	Complete Phase 1/2 data in SLE/LN, SSc and MG
	1H26 & mid-26	FDA alignment on registrational designs for SSc (1H26) and MG (mid-26)
	1H26 & 2H26	No preconditioning dose ranging data in SLE/LN
	2H26	Initiate enrollment in 2nd registrational trial

Myositis BLA submission on track for 2027



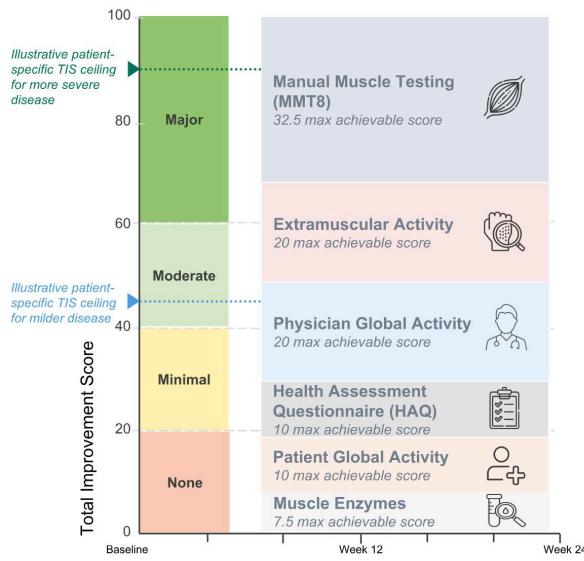
Appendix

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Myositis outcomes captured through validated composite endpoint

TIS is a composite tool measuring a patient's relative improvement from their baseline

Total improvement score (TIS) components



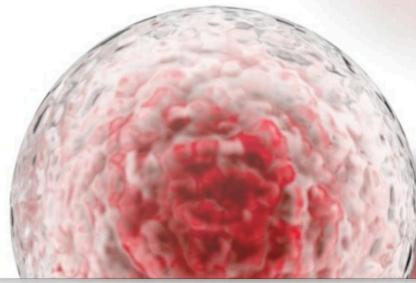
- TIS developed via conjoint analysis based continuous model using **absolute percentage change** in 6 core set measures (CSM): MMT8, Extramuscular Activity, Physician Global Activity, Health Assessment Questionnaire, Patient Global Activity, and Muscle Enzymes
- TIS is the sum of improvement scores in the 6 CSMs, with **ceiling of potential effect likely higher in DM and ASyS than in IMNM given minimal extramuscular involvement**

1. ASyS – antisynthetase syndrome; CSM – core set measure; DM – dermatomyositis; IMNM – immune-mediated necrotizing myopathy; IVIg – intravenous immunoglobulin.
2. Aggarwal R et al. NEJM. 2022;387(14):1264-1278.

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Corporate Presentation

JANUARY 2026

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