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): September 11, 2023

DAY ONE BIOPHARMACEUTICALS, INC.

(Exact name of registrant as specified in its charter)

001-40431 83-2415215 Delaware (State or other jurisdiction of incorporation) (IRS Employer Identification No.) (Commission File Number) 2000 Sierra Point Parkway, Suite 501 94005 (Zip Code) Brisbane, California (Address of principal ex Registrant's telephone number, including area code: (650) 484-0899 (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: $\ \square$ 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: Name of each exchange Title of each class

Common Stock, par value \$0.0001 per share Symbol(s) DAWN on which registered
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. $\ \Box$

Item 7.01 Regulation FD Disclosure.

On September 11, 2023, Day One Biopharmaceuticals, Inc. (the "Company") issued a press release announcing updated clinical data from the FIREFLY-1 trial and the completion of its rolling New Drug Application ("NDA") submission to the U.S. Food and Drug Administration (the "FDA") for tovorafenib as a monotherapy in relapsed or progressive pediatric low-grade glioma ("pLGG").

Additionally, on September 11, 2023, the Company updated its corporate presentation to reflect the updated data from FIREFLY-1 and the completion of the NDA submission

A copy of the press release is attached as Exhibit 99.1 to this Current Report on Form 8-K. A copy of the updated corporate presentation is attached as Exhibit 99.2 to this Current Report on Form 8-K.

The information furnished in this Item 7.01, including Exhibits 99.1 and 99.2, shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference into any other filing under the Exchange Act or the Securities Act of 1933, as amended, except as expressly set forth by specific reference in such a filing.

Item 8.01 Other Events.

On September 11, 2023, the Company announced updated clinical data from the FIREFLY-1 trial. Program updates and updated data are summarized as follows:

FIREFLY-1 Program Update

In May 2023, the Company initiated a rolling submission of an NDA to the FDA based on data from the FIREFLY-1 trial with a data cutoff as of December 22, 2022. An updated Clinical Study Report was submitted to the FDA with an additional six months of safety and efficacy data through June 5, 2023. On September 11, 2023, the Company announced the completion of the rolling NDA submission to the FDA for tovorafenib.

Updated FIREFLY-1 Data

FIREFLY-1 is an open-label, pivotal Phase 2 trial, which treated a total of 137 patients across two study arms. Arm 1 evaluated tovorafenib in 77 patients as a once-weekly monotherapy in patients aged 6 months to 25 years with relapsed or progressive pLGG. The primary endpoint of the trial is overall response rate ("ORR") by Response Assessment for Neuro-Oncology High-Grade Glioma ("RANO-HGG") criteria. Secondary endpoints include ORR by Response Assessment in Pediatric Neuro-Oncology Low-Grade Glioma ("RAPNO-LGG"), progression-free survival, duration of response ("DOR"), time to response, clinical benefit rate and safety. The NDA submission also includes an exploratory analysis of ORR by Response Assessment for Neuro-Oncology Low-Grade Glioma ("RANO-LGG"). All data have been assessed by a blinded Independent Review Committee.

New data from the FIREFLY-1 trial, with a data cutoff of June 5, 2023, are described below:

RANO-HGG (n=69 evaluable) data, the primary endpoint of the trial:

- 67% ORR (complete response ("CR") + partial response ("PR"))
- 93% clinical benefit rate ("CBR") (CR + PR + stable disease ("SD"))
 - 17% (n=12) CR
 - 49% (n=34) PR
 - 26% (n=18) SD
- At the time of data cutoff, the median DOR based on RANO-HGG criteria was 16.6 months (95% CI: 11.6, not estimable)

Among a total of 77 treated patients:

• The median duration of tovorafenib treatment was 15.8 months, with 66% (n=51) of patients on treatment at the time of data cutoff

Safety data, based on the 137 patients treated in both Arm 1 and Arm 2 of FIREFLY-1, indicated monotherapy tovorafenib to be generally well-tolerated. The vast majority of adverse events were Grade 1 or Grade 2, with most common side effects reported related to tovorafenib being change in hair color (76%), fatigue (44%), maculopapular rash (41%), dry skin (33%) and dermatitis acneiform (30%). The most commonly reported treatment-related lab abnormalities were CPK elevation, LDH elevation, anemia, hypophosphatemia and AST elevation. Nearly all of the lab abnormalities had no clinical manifestations and did not require clinical intervention or change in study treatment.

The NDA submission also included the evaluation of responses by RAPNO-LGG and RANO-LGG. Those results include:

RAPNO-LGG (n=76 evaluable) data, a key secondary endpoint of the trial:

- 51% ORR (CR + PR + minor response ("MR"))
- 82% CBR (CR+ PR + MR + SD)
 - 37% (n=28) PR
 - 14% (n=11) MR
 - 30% (n=23) SD
- At the time of data cutoff, the median DOR based on RAPNO-LGG criteria was 13.8 months (95% CI: 11.3, not estimable)

RANO-LGG (n=76 evaluable) data, an exploratory analysis of the trial:

- 53% ORR (CR + PR + MR)
- 83% CBR (CR + PR + MR + SD)
 - 26% (n=20) PR
 - 26% (n=20) MR
 - 30% (n=23) SD
- At the time of data cutoff, the median DOR based on RANO-LGG criteria was 14.4 months (95% CI: 11.0, not estimable)

Item 9.01 Financial Statements and Exhibits

(d) Exhibits

Exhibit	
No.	Description
99.1	Press Release, dated !

Press Release, dated September 11, 2023

99.2 <u>Corporate Presentation</u>

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

Forward-Looking Statements

This Current Report on Form 8-K contains forward-looking statements within the meaning of the U.S. Private Securities Litigation Reform Act of 1995 and other federal securities laws. Any statements contained herein that do not describe historical facts, including, but not limited to, statements we make regarding our ability to obtain regulatory approval for, and commercialize, tovorafenib, including the acceptance by the FDA of our NDA submission for tovorafenib, our future results of operations and financial position, business strategy, market size, potential growth opportunities, nonclinical and clinical development activities, efficacy and safety profile of our product candidates, potential therapeutic benefits and economic value of our product candidates, our ability to maintain and recognize the benefits of certain designations received by product candidates, the timing and results of nonclinical studies and clinical trials, commercial collaboration with third parties, and our ability to recognize milestone and royalty payments from commercialization agreements, the expected impact of global business or macroeconomic conditions, including as a result of inflation, rising interest rates, instability in the global banking system and geopolitical conflict, on our operations, and the receipt and timing of potential regulatory

approvals and commercialization of product candidates. Such risks and uncertainties include, among others, the risks identified in the Company's filings with the Securities and Exchange Commission ("SEC"), including its Quarterly Report on Form 10-Q for the quarter ended June 30, 2023, filed with the SEC on August 7, 2023, and other reports as filed with the SEC. The Company cautions you not to place undue reliance on any forward-looking statements, which speak only as of the date they are made. The Company undertakes no obligation to update publicly any forward-looking statements to reflect new information, events or circumstances after the date they were made or to reflect the occurrence of unanticipated events.

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 thereunto duly authorized.

DAY ONE BIOPHARMACEUTICALS, INC.

Date: September 11, 2023

By: /s/ Charles N. York II, M.B.A.
Charles N. York II, M.B.A.
Chief Operating Officer and Chief Financial Officer



Day One Announces Updated FIREFLY-1 Data for Tovorafenib and Completion of Rolling NDA Submission to FDA for Relapsed or Progressive Pediatric Low-Grade Glioma (pLGG)

Overall response rate (ORR) greater than 50% across three assessment criteria

Median duration of tovorafenib treatment of 15.8 months as of June 5, 2023, with 66% of patients remaining on treatment

FDA filing decision expected by mid-November

BRISBANE, Calif., Sept. 11, 2023 – Day One Biopharmaceuticals (Nasdaq: DAWN) ("Day One" or the "Company"), a clinical-stage biopharmaceutical company dedicated to developing and commercializing targeted therapies for people of all ages with life-threatening diseases, today announced the recently completed submission of the rolling New Drug Application (NDA) to the U.S. Food and Drug Administration (FDA) for tovorafenib as a monotherapy in relapsed or progressive pediatric low-grade glioma (pLGG). The Company anticipates the FDA will file the rolling NDA by mid-November 2023.

pLGG is the most common brain tumor diagnosed in children, with patients suffering profound tumor and treatment-associated morbidities that can impact their life trajectory over the long term. For the majority of patients in the relapsed setting, there is no standard of care and no approved therapies.

"We believe that tovorafenib, if approved, could change the treatment landscape for children living with this chronic and relentless disease," said Jeremy Bender, Ph.D., chief executive officer of Day One. "The NDA submission of tovorafenib is a significant milestone for Day One and an important step towards bringing a potential new targeted therapy to children with brain cancer."

The Company initiated the rolling submission of the NDA in May 2023 based on data from the FIREFLY-1 trial with a data cutoff as of December 22, 2022. An updated Clinical Study Report (CSR) was submitted to the FDA with an additional six months of safety and efficacy data through June 5, 2023

FIREFLY-1 is an open-label, pivotal Phase 2 trial, which treated a total of 137 patients across two study arms. Arm 1 evaluated tovorafenib in 77 patients as a once-weekly monotherapy in patients aged 6 months to 25 years with relapsed or progressive pLGG. The primary endpoint of the trial is ORR by Response Assessment for Neuro-Oncology High-Grade Glioma (RANO-HGG) criteria. Secondary endpoints include ORR by Response Assessment in Pediatric Neuro-Oncology Low-Grade Glioma (RAPNO-LGG), progression-free survival (PFS), duration of response (DOR), time to response, clinical benefit rate and safety. The NDA submission also includes an exploratory analysis of ORR by Response Assessment for Neuro-Oncology Low-Grade Glioma (RANO-LGG). All data have been assessed by a blinded Independent Review Committee (IRC).

Updated FIREFLY-1 Data Demonstrate Consistent and Durable Response

New data from the FIREFLY-1 trial, with a data cutoff of June 5, 2023, are described below. Detailed data will be presented at an upcoming medical conference

RANO-HGG (n=69 evaluable) data, the primary endpoint of the trial:

- 67% ORR (complete response (CR) + partial response (PR))
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Among a total of 77 treated patients:

· The median duration of tovorafenib treatment was 15.8 months, with 66% (n=51) of patients on treatment at the time of data cutoff

Safety data, based on the 137 patients treated in both Arm 1 and Arm 2 of FIREFLY-1, indicated monotherapy tovorafenib to be generally well-tolerated. The vast majority of adverse events were Grade 1 or Grade 2, with most common side effects reported related to tovorafenib being change in hair color (76%), fatigue (44%), maculopapular rash (41%), dry skin (33%), and dermatitis acneiform (30%). The most commonly reported treatment-related lab abnormalities were CPK elevation, LDH elevation, anemia, hypophosphatemia and AST elevation. Nearly all of the lab abnormalities had no clinical manifestations and did not require clinical intervention or change in study treatment.

The NDA submission also included the evaluation of responses by RAPNO-LGG and RANO-LGG. Those results include:

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Tovorafenib was granted Rare Pediatric Disease Designation for relapsed or progressive pLGG and, as such, may qualify for receipt of a priority review voucher, if tovorafenib is approved by the FDA in this indication. Based on Day One's current operating plan, management believes it has sufficient capital resources to fund anticipated operations into 2026.

About Pediatric Low Crade Cliena

Pediatric low-grade glioma (pLGG) is the most common brain tumor diagnosed in children, accounting for 30% - 50% of all central nervous systems tumors. BRAF wild-type fusions are the most common cancer-causing genomic alterations in pLGG. These genomic alterations are also found in severe adult and pediatric solid tumors.

Pediatric low-grade glioma can impact a child's health in many ways depending on tumor size and location, including vision loss and motor dysfunction. There are no approved therapies for the vast majority of patients with pLGG, and current treatment approaches are associated with potential acute and life-long adverse effects. While most children with pLGG survive their cancer, children who do not achieve remission following surgery may face years of increasingly aggressive therapies. Due to the indolent nature of pLGG, patients generally receive multiple years of systemic therapy.

About FIREFLY-1

FIREFLY-1 is evaluating tovorafenib as once-weekly monotherapy in patients aged 6 months to 25 years with relapsed or progressive pLGG harboring a known activating BRAF alteration. The trial is being conducted in collaboration with the Pacific Pediatric Neuro-Oncology Consortium (PNOC). The primary endpoint is overall response rate (ORR), defined as the proportion of patients with confirmed response based upon RANO-HGG criteria. Secondary and exploratory endpoints include the overall response rate based on RAPNO-LGG criteria, RANO-LGG criteria and volumetric analyses, progression-free survival, safety, functional outcomes, and quality of life measures. RANO-HGG, RANO-LGG and RAPNO-LGG are assessed by blinded independent central review. Additional information about FIREFLY-1 may be found at ClinicalTrials.gov. using Identifier NCT04775485.

About the Pacific Pediatric Neuro-Oncology Consortium

The Pacific Pediatric Neuro-Oncology Consortium (PNOC) is an international consortium with study sites within the United States, Canada, Europe and Australia dedicated to bringing new therapies to children and young adults with brain tumors.

About Tovorafenib

Tovorafenib is an investigational, oral, brain-penetrant, highly-selective type II RAF kinase inhibitor designed to target a key enzyme in the MAPK signaling pathway, which is being investigated in primary brain tumors or brain metastases of solid tumors. Tovorafenib has been studied in over 325 patients to date. Currently tovorafenib is under evaluation in a pivotal Phase 2 clinical trial (FIREFLY-1) among pediatric, adolescent and young adult patients with relapsed or progressive pLGG, which is an area of considerable unmet need with no approved therapies for the vast majority of patients. Tovorafenib is also being evaluated alone or as a combination therapy for adolescent and adult patient populations with recurrent or progressive solid tumors with MAPK pathway aberrations (FIRELIGHT-1).

Tovorafenib has been granted Breakthrough Therapy and Rare Pediatric Disease designations by the U.S. Food and Drug Administration (FDA) for the treatment of patients with pLGG harboring an activating RAF alteration. Tovorafenib has also received Orphan Drug designation from the FDA for the treatment of malignant glioma, and from the European Commission (EC) for the treatment of glioma.

About Day One Biopharmaceuticals

Day One Biopharmaceuticals is a clinical-stage biopharmaceutical Company that believes when it comes to pediatric cancer, we can do better. We put kids first and are developing targeted therapies that deliver to their needs. Day One was founded to address a critical unmet need: the dire lack of therapeutic development in pediatric cancer. The Company's name was inspired by "The Day One Talk" that physicians have with patients and their families about an initial cancer diagnosis and treatment plan. Day One aims to re-envision cancer drug development and redefine what's possible for all people living with cancer—regardless of age—starting from Day One.

Day One partners with leading clinical oncologists, families, and scientists to identify, acquire, and develop important emerging cancer treatments. The Company's lead product candidate, tovorafenib, is an investigational, oral, brain-penetrant, highly-selective type II RAF kinase inhibitor. The Company's pipeline also includes pimasertib, an investigational, oral, highly-selective small molecule inhibitor of mitogen-activated protein kinases 1 and 2 (MEK-1/-2). Day One is based in Brisbane, California. For more information, please visit www.dayonebio.com or find the Company on LinkedIn or X/Twitter.

Cautionary Note Regarding Forward-Looking Statements

This press release contains "forward-looking" statements within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995, including, but not limited to: Day One's plans to develop cancer therapies, expectations from current clinical trials, the execution of the Phase 2 and Phase 3 clinical trials for tovorafenib as designed, any expectations about safety, efficacy, timing and ability to complete clinical trials, release data results, the ability of Day One to obtain regulatory approvals for tovorafenib and other candidates in development, including the acceptance by the FDA of Day One's NDA submission for tovorafenib, and the ability of tovorafenib to treat pLGG or related indications.

Statements including words such as "believe," "plan," "continue," "expect," "will," "develop," "signal," "potential," or "ongoing" and statements in the future tense are forward-looking statements. These forward-looking statements involve risks and uncertainties, as well as assumptions, which, if they do not fully materialize or prove incorrect, could cause our results to differ materially from those expressed or implied by such forward-looking statements.

Forward-looking statements are subject to risks and uncertainties that may cause Day One's actual activities or results to differ significantly from those expressed in any forward-looking statement, including risks and uncertainties in this press release and other risks set forth in our filings with the Securities and Exchange Commission. These forward-looking statements speak only as of the date hereof and Day One specifically disclaims any obligation to update these forward-looking statements or reasons why actual results might differ, whether as a result of new information, future events or otherwise, except as required by law.

DAY ONE MEDIA

Laura Cooper, Head of Communications media@dayonebio.com

DAY ONE INVESTORS

LifeSci Advisors, PJ Kelleher pkelleher@lifesciadvisors.com

Day One Biopharmaceuticals

Targeted Therapies for People of All Ages
September 2023

Disclaimer

This presentation and the accompanying oral commentary contain forward-looking statements that are based on our management's beliefs and assumptions and on information currently available to our management. Forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified. In some cases, you can identify forward-looking statements by terminology such as "may," "will," "should," "could," "expect," "plan," anticipate," "believe," "estimate," "predict," "intend," "potential," "would," "continue," "ongoing" or the negative of these terms or other comparable terminology. Forward-looking statements include all statements other than statements of historical fact contained in this presentation, including information concerning our future financial performance, including the sufficiency of our cash, cash equivalents and short-term investments to fund our operations, business plans and objectives, timing and success of our planned nonclinical and clinical development activities, the results of any of our strategic collaborations, including the potential achievement of milestones and provision of royalty payments thereunder, timing and results of nonclinical studies and clinical trials, efficacy and safety profiles of our product candidates, execution of the Phase 2 and Phase 3 clinical trials for tovorafenib and the Phase 1b/2 clinical trial for tovorafenib and pimasertib as designed, any expectations about safety, efficacy, timing and ability to complete clinical trials and to obtain regulatory approvals for tovorafenib and other candidates in development, including the acceptance by the U.S. Food and Drug Administration of our New Drug Application for tovorafenib, the ability of tovorafenib to treat pediatric low-grade glioma (pLGG) or related indications, the potential therapeutic benefits and economic value of our product candidates, potential growth opportunities, competitive position, industry environment and potential market opportunities, our ability to

Forward-looking statements are subject to known and unknown risks, uncertainties, assumptions and other factors. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. These factors, together with those that are described under the heading "Risk Factors" contained in our most recent Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission ("SEC") and other documents we file from time to time with the SEC, may cause our actual results, performance or achievements to differ materially and adversely from those anticipated or implied by our forward-looking statements.

In addition, statements that "we believe" and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based upon information available to us as of the date of this presentation, and although we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete, and our statements should not be read to indicate that we have conducted a thorough inquiry into, or review of, all potentially available relevant information. These statements are inherently uncertain and investors are cautioned not to unduly rely upon these statements. Furthermore, if our forward-looking statements prove to be inaccurate, the inaccuracy may be material. In light of the significant uncertainties in these forward-looking statements, you should not regard these statements as a representation or warranty by us or any other person that we will achieve our objectives and plans in any specified time frame, or at all. We undertake no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. In addition, projections, assumptions and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.





Cancer Drug Development For People Of All Ages

A Mission That Creates Value



- Develop medicines for genomically-defined cancers
- Establish first-in-class position through rapid registration pathways
- Expand to adolescent and adult populations in parallel and pursue those opportunities with the same commitment we do for children

Nasdaq: DAWN IPO: 2021 Founded: 2018

Financial Position

Runway into 2026

Growing Portfolio

- Lead program FIREFLY-1:
 - Completion of rolling NDA submission to FDA
- Frontline trial (FIREFLY-2) underway
- Clinical-stage MEKi asset (pimasertib), in-licensed for combination trial with tovorafenib
- Research collaboration and license agreement for preclinical program targeting VRK.



3 P NDA data set included analysis of primary (ORR by RANO-HGG) and secondary (ORR by RAPNO-LGG, PFS) efficacy endpoints, safety, and exploratory analyses (including ORR by RANO-LGG).



Our Pipeline

Product Candidate	Indication	Preclinical	Phase 1	Phase 2	Phase 3	Recent & Anticipated Milestones
Tovorafenib (DAY101) Type II RAF Inhibitor • FDA Breakthrough Therapy	Relapsed pLGG	FIREFLY-1¹ (pivotal)		©		Topline data presented: September 2023 Rolling NDA submission complete: September 2023 FDA filing decision expected: Mid-November 2023
PDA Breaktinough Therapy Designation for relapsed pLGG FDA Rare Pediatric Disease Designation (PRV Etigible) for pLGG	Frontline pLGG	FIREFLY-2 (pivotal)			(a)	First patient dosed: March 2023
 FDA Orphan Drug Designation for malignant glioma EC Orphan Designation for glioma 	RAF-altered solid tumors ² (monotherapy)	FIRELIGHT-1*	(6)			First patient dosed: November 2021 Poster presented: April 2023
Pimasertib MEK 1/2 Inhibitor	MAPK-altered solid tumors (Combo w/tovorafenib)	FIRELIGHT-1*				First patient dosed: May 2022
VRK1 Program ⁴ VRK1 Inhibitor	Pediatric and adult cancers					In-ticensed: August 2023



*Includes patients ≥12 years of age. ¹ FIREFLY-1 Arm 1 expected to support registration. ² DAY101 adult monotherapy Phase 1 dose escalation and expansion trial previously completed. ³ Pimasertib Phase 1 dose escalation and expansion trial previously completed. pLGG, pediatric low-grade glioma. Tovorafenib and Pimasertib are investigational products. Safety and efficacy have not been established by any health authority. ⁴ Research collaboration and license agreement with Sprint Bioscience for exclusive worldwide rights to a research-stage program targeting VRK1.





Tovorafenib (DAY101)

Type II RAF Inhibitor

Pediatric Low-Grade Glioma (pLGG): The Most Common Type Of Brain Tumor In Children

PLGGs are chronic and relentless, with patients suffering profound tumor and treatment-associated morbidity that can impact their life trajectory over the long term⁶

A Serious and Life-Threatening Disease

- An estimated 26,000 children/young adults are living with BRAF-altered pLGGs in the U.S. today^{1,2}
- Surgery plays a significant role in treatment, but 70% of patients require systemic therapy^{3,4}
- For the majority of patients in the relapse setting, there
 is no standard of care and no approved therapies
- ~70% of pLGGs have BRAF alterations, of these ~85% are BRAF fusions and ~15% are BRAF V600E mutations⁵
- Majority of patients have many years of treatment until the tumors typically senesce by their mid-20s

Disease Symptoms⁷

Cerebral gliomas:

Seizures, muscle weakness, behavioral changes

Hypothalamic gliomas:

Endocrine dysfunction and visual deficits

Optic pathway gliomas:

Decreased vision (acuity and/or fields), bulging or misalignment of eyes

Cerebellar gliomas:

Impaired balance, coordination or depth perception

Brain stem gliomas:

Difficulty swallowing or with speech, abnormal breathing



¹ CBTRUS, Qaddoumi et al 2009, Schreck et al 2019, ClearView Analysis; ² SEER US complete prevalence counts of patients aged under 25 with Brain and Other Nervous Systems tumors as of January 1, 2017. Estimated prevalence are Day One calculations based on publicly available data. ³ Ostrum OT et al., Neuro Oncol. 2015; 16(Suppl 10):x1-x36; ⁴ De Blank P. et al., Curr Opin Pediatr. 2019 Feb; 31(1):21-27. ⁵ Jones DTW et al., Cancer Res. 2008; 68:8673–77. ⁶ Traunwieser T et al., Neurooncol Adv. 2020; 2:vdaa094. ⁷ Sievert AJ, Fisher MJ. Pediatric low-grade gliomas. *J Child Neurol.* 2009;24(11):1397-1408. doi:10.1177/0883073809342005.



Conventional Treatments Can Be Disruptive To Childhood and Can Have Significant Long-Term Consequences

Surgery

- · Significant recovery times
- Risks of complications
- Resection may be limited by location of tumor
- Potential for functional deficits based on location of tumor and extent of resection

Chemotherapy

- Requirement for indwelling catheter and weekly infusions
- Risk of neutropenia, hypersensitivity reactions, nausea and vomiting and peripheral neuropathy

Radiation

- · Risk of secondary malignancy
- Risk of malignant transformation
- Risk of vascular proliferation and stroke
- Neurocognitive impact, depending on location of tumor and radiation field

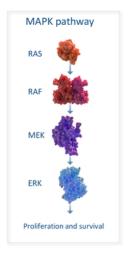
High unmet need for an effective therapy for the majority of pLGG relapsed or progressive patients that is minimally disruptive to their lives.

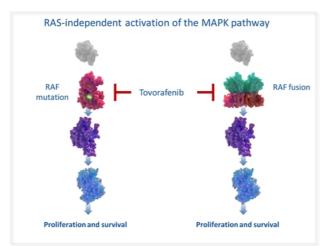


Source: 1. Heitzer AM, Raghubar K, Ris MD, et al. Neuropsychological functioning following surgery for pediatric low-grade glioma: a prospective longitudinal study. J Neurosurg Pediatr. 2019;1-9. doi:10.3171/2019.9.PEDS19357.2. Bryant R. Managing side effects of childhood cancer treatment. J Pediatr Nurs. 2003;18(2):113-125. doi:10.1053/jpdn.2003.11.3. Zahnreich S, Schmidberger H. Childhood cancer: occurrence, treatment and risk of second primary malignancies. Concers (Basel). 2021;13(11):2607. doi:10.3390/cancers/13112607. d. National Cancer Institute. Fertility issues in girls and women wilt cancer. http://www.cancer.gov. Accessed June 13, 2022.5. Alessi I., Caroleo A.M., de Palma L., Mastronuzzi A., Pro S, Colafati G.S, Boni A., Della Vecchia N., Velardi M., Evangelisti M., et al. Short and Long-Term Toxicity in Pediatric Cancer Treatment: Central Nervous System Damage. Cancers. 2022;14:1540. doi: 10.3390/cancers14061540.



Tovorafenib (DAY101) Inhibits Both BRAF Fusions And BRAF V600 Mutations



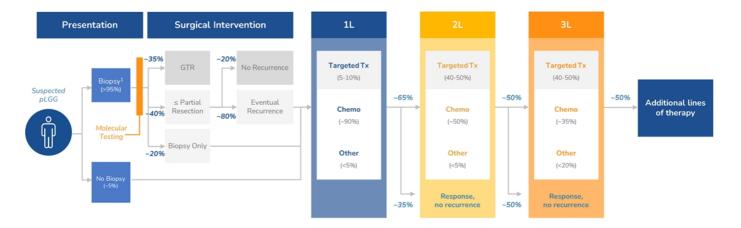


- Tovorafenib (DAY101) is an investigational, oral, selective, CNS-penetrant, type II RAF inhibitor that was designed to inhibit both monomeric and dimeric RAF kinase
 - Activity in tumors driven by both RAF fusions and BRAF V600E mutations
 - Tablet and pediatric-friendly liquid suspension
 - Once weekly dosing
- Currently approved type I BRAFi are indicated for use in patients with tumors bearing BRAF V600E mutations
 - Type I BRAF inhibitors cause paradoxical MAPK activation in the setting of wild-type RAF, increasing the risk of tumor growth in BRAF fusion-driven





The Current pLGG Treatment Paradigm Reflects The Unrelenting Nature Of This Chronic Brain Tumor



Because many pLGGs undergo senescence when patients reach their 20s, the goal of therapy is to **maximize tumor control** while **minimizing treatment-associated toxicities** from surgery, chemotherapy, and radiation. As a result, a large number of pLGG patients will undergo **multiple lines of systemic therapy** over the course of their disease.



Source: Physician Interviews, Bandopadhayay et al. Pediatric Blood Cancer. 2014; Sievert and Fischer. J Child Neurol. 2009; ClearView Analysis. GTR: Gross Total Resection ¹Molecular testing of biopsied samples occurs in all patients. Kandels et. al. Retrospective analysis of comprehensive SIOP registry; Hargrave et. al. Phase I/II; Fangusaro et. al. Phase II



Pivotal Phase 2 Trial Of Monotherapy Tovorafenib (DAY101) In Relapsed Progressive pLGG (FIREFLY-1) - Fully Enrolled & Data Submitted to FDA



Trial Design

- Three arm, open-label, global registrational phase 2 trial
- Pivotal Arm 1 (recurrent/progressive pLGG, n=77): harboring a KIAA1549-BRAF fusion or BRAF V600E mutation
- Arm 2 (expanded access recurrent/progressive LGG, n=60): harboring an activating RAF alteration
- Arm 3 (extracranial solid tumors): harboring an activating RAF fusion

Endpoints (Pivotal Arm 1)

- Primary endpoint: ORR based on RANO-HGG1, assessed by blinded independent central review
- Secondary endpoints: ORR by RAPNO-LGG² assessed by blinded independent central review; PFS, DoR; TTR, CBR; safety
- Exploratory analyses: ORR and CBR by RANO-LGG $^{\rm 3}$ assessed by blinded independent central review

Key Inclusion Criteria

- 6 months 25 years of age
- RAF-altered tumor
 ≥1 prior line of systemic therapy with radiographic progression
- Prior use of MAPK pathway targeted therapy was



Eligibility evaluation

Treatment period: minimum of 2 years or until progression or toxicity/intolerability



June 5, 2023 data cutoff. ¹Wen PY, et al. J Clin Oncol. 2010;28(11):1963-1972. ² Fangusaro J, et al. Lancet Oncol. 2020;21(6):e305–316. ³ van den Bent MJ, et al. Lancet Oncol. 2011;12(6):583-593. Abbreviations: CBR, clinical benefit rate; IRC, independent review committee; C, cycle; D, day; LGG, low-grade glioma; ORR, objective response rate; PFS, progression-free survival; DoR, duration of response; QW, once weekly; TTR, time to response; RANO, Response Assessment in Neuro-Oncology; RAPNO, Response Assessment in Pediatric Neuro-Oncology; MAPK, mitogen-activated protein kinase For more information, please refer to NCT04775485





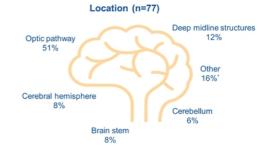
Topline Data from Pivotal Phase 2 FIREFLY-1 Trial

June 5, 2023 data cutoff

FIREFLY-1 Baseline Patient Characteristics



Characteristic	Arm 1 (n=77)
Median age, years (range)	8 (2-21)
Sex, n (%) Male Female	40 (52) 37 (48)
Race, n (%) Black or African American Asian White Multiple Other Not reported	2 (3) 5 (6) 41 (53) 3 (4) 6 (8) 20 (26)
Number of lines of prior systemic therapy Median (range) 1, n (%) 2, n (%) ≥3, n (%)	3 (1-9) 17 (22) 21 (27) 39 (51)
Prior MAPK pathway targeted therapy, n (%)	46 (60)







June 5, 2023 data cutoff. *Includes tumors that were extending into multiple regions of the brain, leptomeningeal disease, and/or spinal disease. #Includes 6 patients with BRAF duplication and 2 with BRAF rearrangement per FISH (Fluorescence in situ hybridization) or ISH (in situ hybridization). MAPK, mitogen-activated protein kinase.



Topline Data From Ongoing, Fully Enrolled And NDA Submitted Pivotal Phase 2 FIREFLY-1 Trial – June 5, 2023 Data Cutoff



	RANO-HGG (n=69)*	RAPNO-LGG (n=76)*	RANO-LGG (N=76)*
ORR, n (%)	46 (67%)	39 (51%)	40 (53%)
CBR, n (%)	64 (93%)	62 (82%)	63 (83%)
Best Overall Response, n (%)			
Complete Response (CR)	12 (17%)	, <u>L</u>	-
Partial Response (PR; >=50% reduction in SPPD)	34 (49%)	28 (37%)	20 (26%)
Minor Response (MR; >=25 to <50% reduction in SPPD)	NA	11 (14%)	20 (26%)
Stable Disease (SD; +25% to -25% change in SPPD)	18 (26%)	23 (30%)	23 (30%)
Duration of Response (DOR) (months)			
Median DOR (95% CI)	16.6 (11.6, not estimable)	13.8 (11.3, not estimable)	14.4 (11.0, not estimable)

Median duration of tovorafenib treatment of 15.8 months, with 66% of patients remaining on treatment



June 5, 2023 data cutoff. RANO-HGG ORR (CR+ PR). RAPNO-LGG & RANO-LGG ORR (CR + PR + MR), SPPD, Sum of Perpendicular Diameters. CBR, Clinical Benefit Rate (CR + PR + MR + SD). * Indicates th response criteria—evaluable patients within the n=77 Arm I population.



Tovorafenib (DAY101) Safety Data (n=137)



- Safety data, based on the 137 patients treated in both Arm 1 and Arm 2 of FIREFLY-1, indicated monotherapy tovorafenib to be generally well-tolerated
- The vast majority of adverse events were Grade 1 or Grade 2, with most common treatment-related side effects, excluding laboratory abnormalities, being change in hair color (76%), fatigue (44%), maculopapular rash (41%), dry skin (33%) and dermatitis acneiform (30%)
- The most commonly reported treatment-related lab abnormalities were CPK elevation, LDH elevation, anemia, hypophosphatemia and AST elevation. Nearly all of the lab abnormalities had no clinical manifestations and did not require clinical intervention or change in study treatment



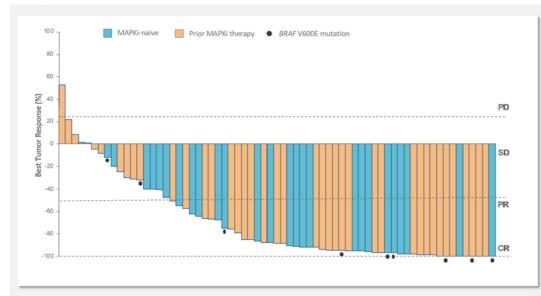




Data from Pivotal Phase 2 FIREFLY-1 Trial

December 22, 2022 data cutoff

Tumor Response To Tovorafenib (DAY101) For All Patients With RANO-HGG Evaluable Lesions (n=69) – December 22, 2022 Data Cutoff



Response (IRC)	RANO-HGG¹ Evaluable n=69
ORR (cCR + cPR + uPR), n (%)	46 (67%)*
Clinical benefit rate, n (%) cCR, cPR/uPR, or SD cCR, cPR/uPR, or SD for 12 mo+	64 (93%) 49 (71%)
Best overall response, n (%) CR	4 (6%)
PR (includes 3 uPR)	42 (61%)
SD	18 (26%)
PD	4 (6%)
Not evaluable	1 (1%)

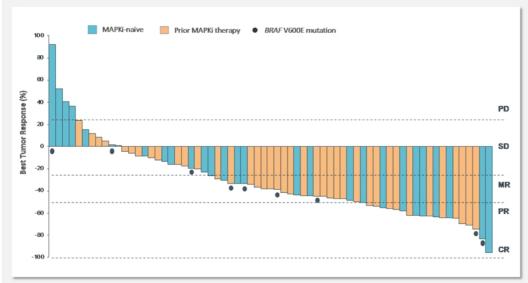
All 3 patients with uPR remain on treatment as of May 23, 2023



Dec 22, 2022 data cutoff. Percents may not add to 100% due to rounding. Two of 69 patients are not shown in the waterfall plot; one patient passed away due to progressive disease (not related to tovorafenib) before the first imaging assessment and one did not receive T1 Gd+ follow-up imaging. *P<0.001 from two-sided exact binomial test to test null hypothesis of ORR=21% based on Bouffet et al. 21 Wen PY, et al. J Clin Oncol. 2010;28(11):1963-1972.* Bouffet E, et al. J Clin Oncol. 2012;39(12):1358-1363. CBR, clinical benefit rate; CCR, confirmed completed response; PR, confirmed partial response; CR, complete response; BGG, high-grade glioma; IRC, independent radiology review committee; MAPKi, mitogen-activated protein kinase inhibitor; MR, minor response; ORR, overall response rate; PD, progressive disease; PR, partial response; RANO, Response Assessment in Neuro-Oncology; SD, stable disease; uPR, unconfirmed partial response. There are 17 patients with stable disease of less than 12 months duration and at the time of the data cutoff, 11 remain on treatment.



Tumor Response To Tovorafenib (DAY101) For All Patients With RAPNO-LGG Evaluable Lesions (n=69*) – December 22, 2022 Data Cutoff



Response (IRC)	RAPNO-LGG¹ Evaluable n=69
ORR (cCR + cPR/uPR + cMR/uMR), n (%)	35 (51%)
Clinical benefit rate, n (%) cCR, cPR/uPR, cMR/uMR, or SD cCR, cPR/uPR, cMR/uMR, or SD for 12mo+	60 (87%) 36 (52%)
Best overall response, n (%) CR	0 (0%)
PR (includes 4 uPR)	17 (25%)
MR (includes 4 uMR)	18 (26%)
SD	25 (36%)
PD#	8 (12%)
Not evaluable	1 (1%)

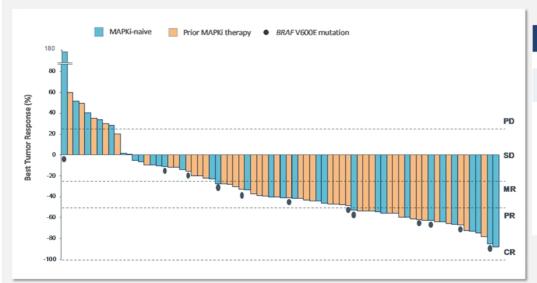
All 4 patients with uPR and 3 patients with uMR remain on treatment as of May 23, 2023



Dec 22, 2022 data cutoff. Percents may not add to 100% due to rounding. Two of 69 patients not shown in waterfall plot; one patient passed away due to progressive disease (not related to tovorafenib) before the first imaging assessment and one patient had visual progressive disease but no evaluable T2 measurements at the time of progression. *Pending adjudication. *Engusaro J, et al. Lancet Oncol. 2020;21(6):e305-316.*PD for RAPNO-LGG was not used to determine treatment discontinuation; patients could continue treatment if there was no PD based on RANO-HGG per investigator's assessment. CBR, clinical benefit rate; CCR, confirmed completed response; CMR, confirmed minor response; CPR, confirmed partial response; CR, complete response; HGG, high-grade glioma; IRC, independent radiology review committee; LGG, low-grade glioma; MAPKi, mitogen-activated protein kinase inhibitor; MR, minor response; ORR, overall response rate; PD, progressive disease; PR, partial response; RANO, Response Assessment in Neuro-Oncology; RAPNO, Response Assessment in Pediatric Neuro-Oncology; SD, stable disease; uMR, unconfirmed minor response; uPR, unconfirmed partial response. There are 28 patients with stable disease of less than 12 months duration and at the time of the data cutoff, 11 remain on treatment.



Tumor Response To Tovorafenib (DAY101) For All Patients With RANO-LGG Evaluable Lesions (n=76) – December 22, 2022 Data Cutoff



Response (IRC)	RANO-LGG ¹ Evaluable n=76
ORR (cCR + cPR/uPR + cMR/uMR), n (%)	37 (49%)
Clinical benefit rate, n (%) cCR, cPR/uPR, cMR/uMR, or SD cCR, cPR/uPR, cMR/uMR, or SD for 12mo+	63 (83%) 39 (51%)
Best overall response, n (%) CR	0 (0%)
PR (includes 8 uPR)	20 (26%)
MR (includes 2 uMR)	17 (22%)
SD	26 (34%)
PD#	11 (14%)
Not evaluable§	2 (3%)

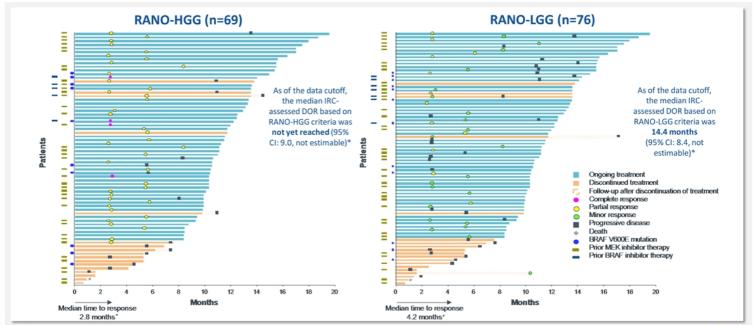
All 8 patients with uPR and 2 patients with uMR remain on treatment as of May 23, 2023



Dec 22, 2022 data cutoff. Percents may not add to 100% due to rounding. "PD for RANO-LGG was not used to determine treatment discontinuation; patients could continue treatment if there was no PD based on RANO-HGG per investigator's assessment. Two of 76 patients are not shown in the waterfall plot; one patient passed away due to progressive disease (not related to tovorafenib) before the first imaging assessment, and one patient with missing T1 Gd+ imaging at baseline was deemed NE at all timepoints but had a best SPPD decrease of 65% on T2 imaging. ¹ van den Bent MJ, et al. Lancet Oncol. 2011;12(6):583-593. BL, baseline; CBR, clinical benefit rate; CCR, confirmed completed response; CMR, confirmed minor response; CR, comfirmed partial response; CR, complete response; HGG, high-grade glioma; IRC, independent radiology review committee; LGG, low-grade glioma; MAPKI, mitogen-activated protein kinase inhibitor; MR, minor response; CRR, overall response rate; PD, progressive disease; PPR, partial response; RANO, Response Assessment in Neuro-Oncology; SD, stable disease; SPPD, sum of perpendicular diameters; uMR, unconfirmed minor response; uPR, unconfirmed partial response. There are 27 patients with stable disease of less than 12 months duration and at the time of the data cutoff, 19 remain on treatment.



Duration Of Tovorafenib (DAY101) Therapy For All Patients With RANO-HGG & RANO-LGG Evaluable Lesions – December 22, 2022 Data Cutoff







Estimated BRAF-Altered pLGG Patient Population In The U.S.

Estimated BRAF-Altered Patients in the U.S.



- An estimated 26,000 children/young adults are living with BRAF-altered (BRAF fusions or BRAF V600E mutations) pLGGs in the U.S. today¹⁻⁵
- Despite significant disease burden, many pLGGs undergo senescence when patients reach their 20s driving the need to both maximize tumor control while minimizing treatment-associated toxicities
- As a result, a large number of pLGG patients will undergo multiple lines of systemic therapy over the course of their disease
- Based on progression free survival curves modeled from published literature, the estimated addressable pool of recurrent or progressive pLGG patients is ~2,000-3,000⁶ per year at steady state



¹ Selt F, van Tilburg CM, Bison B, et al. Response to trametinib treatment in progressive pediatric low-grade glioma patients. J Neurooncol. 2020;149(3):499-510. doi:10.1007/s11060-020-03640-3.² Ryall S, Tabori U, Hawkins C. Pediatric low-grade glioma in the era of molecular diagnostics. Acta Neuropathol Commun. 2020;8(1):30. doi:10.1186/s40478-020-00902-z. ³ SEER US complete prevalence counts of patients aged under 25 with Brain and Other Nervous Systems tumors as of January 1, 2017. ⁴ CBTRUS, Qaddoumi et al 2009, Schreck et al 2019, ClearView Analysis. ⁵ US Census. Estimated annual incidence, estimated revealence, and estimated recurrent/progressive total addressable patient population are Day One calculations based on publicly available data. ⁶ Source: Internal market research conducted by EpidStrategies, A Division of ToxStrategies, Inc. on behalf of Day One.



Key Takeaways From FIREFLY-1 Data And Next Steps

- Clinically meaningful data from FIREFLY-1 for pediatric patients with recurrent or progressive LGG harboring BRAF fusions or BRAF V600E mutations ("BRAF-altered")
 - 67% ORR by RANO-HGG (primary endpoint)
 - 51% ORR by RAPNO-LGG (secondary endpoint)
 - 53% ORR by RANO-LGG (exploratory endpoint)
- Deepening of responses observed in patients from December 2022 to June 2023 data cutoffs across all three assessment criteria
- Responses were observed in patients with either BRAF fusion or BRAF V600E mutations ("BRAF-altered")
- Responses seen in a heavily-pretreated population where the majority (60%) of patients progressed on or after one or more prior MAPK inhibitors
- Completed rolling NDA submission to FDA for relapsed or progressive pLGG, announced in September 2023
- Safety and tolerability profile indicating monotherapy tovorafenib to be generally welltolerated

Next Steps

 FDA filing decision expected by mid-November 2023







FIREFLY-2/LOGGIC

Pivotal Phase 3 Trial of Tovorafenib (DAY101) in Frontline pLGG

FIREFLY-2/LOGGIC Pivotal Phase 3 Trial Of Tovorafenib (DAY101) In Frontline pLGG



Trial Design

- Randomized, global, registrational Phase 3 trial of monotherapy tovorafenib (DAY101) vs SoC chemotherapy
- Eligibility: Patients aged 6 months to <25 years with LGG harboring a RAF alteration and requiring first-line systemic therapy
- Tovorafenib (DAY101) available as tablets and pediatric-friendly liquid suspension
- Patients who progress after stopping tovorafenib (DAY101) may be rechallenged
- Patients who progress in the SoC arm during or post-treatment may crossover to receive tovorafenib

Endpoints

- Primary endpoint: ORR based on RANO-LGG criteria, assessed by blinded independent central review¹
 - The ORR primary analysis is expected to occur ${\sim}12\,\text{months}$ after the last patient randomized
- Key secondary endpoints: PFS and DoR by RANO criteria, ORR by RAPNO criteria
- Other secondary endpoints: changes in neurological and visual function, safety, and tolerability
- · Key exploratory objectives: QoL and health utilization measures





* COG or SIOPe-LGG regimen. Abbreviations: CHG, chiasmatic, hypothalamic glioma; DoR, duration of response; LGG, low-grade glioma; ORR, objective response rate; QoL, quality of life; QW, once weekly; SoC, standard of care. Primary endpoint of FIREFLY-2 will be ORR by RANO-LGG (2017) following full approval by FDA on March 16, 2023 of dabrafenib with trametinib in pediatric patients with low-grade glioma with a BRAF V600E mutation who require systemic therapy based on a study with the same primary endpoint.





FIRELIGHT-1

Phase 1b/2 Trials Evaluating Tovorafenib (DAY101) as a Monotherapy and as a Combination with Pimasertib

Phase 2 Study Of Monotherapy Tovorafenib (DAY101) In Solid Tumors (FIRELIGHT-1)

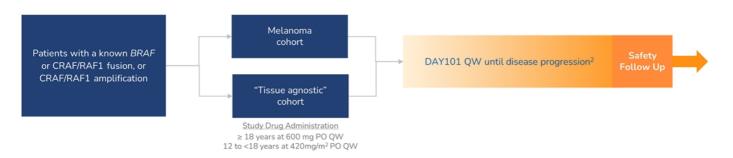


Trial Design¹

- Single arm, open-label, global phase 1b/2a trial
- n = 40 patients (approximately)
- Eligibility: Patients aged 12 years and older with nonhematologic tumor with an activating BRAF fusion, CRAF/RAF1 fusion, or CRAF/RAF1 amplification

Endpoints

- Primary endpoint: ORR by RECIST version 1.1 for non-CNS solid tumors and RANO-HGG criteria for any CNS tumors
- Secondary endpoints: safety and additional efficacy parameters



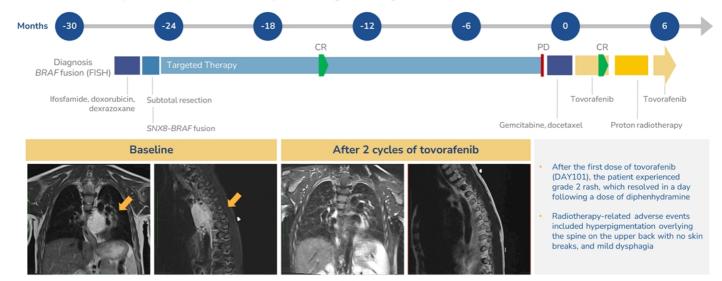


Abbreviations: ORR, objective response rate; QW, once weekly; PO, by mouth; BRAF, B-Raf proto-oncogene. ¹Umbrella master study – DAY101-102 (main protocol) DAY101 and MAPK pathway aberration, Sub-study 1 monotherapy (DAY101-102a), Sub-study 2 MEK combo (DAY101-102b). ²DAY101 QW until disease progression, intolerable toxicity, withdrawal of consent, or death



Activity of Tovorafenib (DAY101) In SNX8:BRAF Fusion Spindle Cell Sarcoma

A male child spindle cell sarcoma, 5-years of age at diagnosis









Pimasertib

MEK1/2 Inhibitor

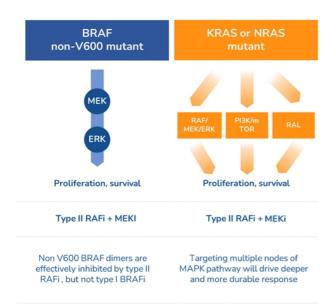
Pimasertib: Investigational Allosteric MEK1/2 Inhibitor With Demonstrated Activity In MAPK-Driven Solid Tumors

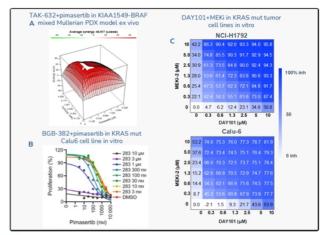
- Pimasertib is an investigational orally-bioavailable, selective, non-competitive MEK1/2 inhibitor in-licensed from Merck KGaA in February 2021
- Extensive non-clinical and clinical development work through Phase 2, including a solid tumor trial in Japan and combinations with other MOAs
- Main AEs typical for all in-class allosteric MEK inhibitors (GI, CPK elevation, skin rash, visual disturbances)
- Nearly three-fold higher CNS penetration than other MEKi inhibitors (trametinib or selumetinib)
- Pimasertib showed monotherapy clinical activity, including an improvement in median PFS versus dacarbazine in NRAS mutant melanoma
- Combination with tovorafenib (DAY101) and other targeted therapies may unlock the full value of pimasertib in advanced solid tumors



Day One

Vertical MAPK Pathway Inhibition With Tovorafenib (DAY101) And Pimasertib May Unlock Potential Synergy For Adult Solid Tumors





- A Type II RAFi + MEKi is synergistic in BRAF fusion melanoma PDX model ex vivo (internal data)
- B Sensitivity of KRAS Q61 mutant cells to pimasertib is enhanced when cells are treated with the type II BRAF inhibitor BGB-283 (Yuan et al., Mol Onc 2020)
- C Tovorafenib (DAY101) + MEK inhibitor is synergistic in KRAS G12C and Q61 mutant tumor cells (Venetsanakos et al., 2021 AACR poster presentation)





Tovorafenib (DAY101) / Pimasertib Combination In Solid Tumors (FIRELIGHT-1)

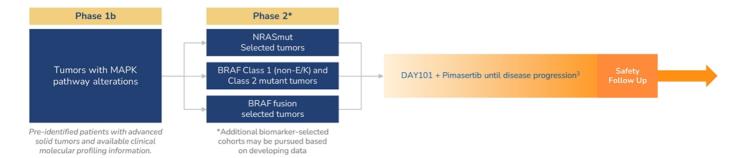


Trial Design¹

- Combination dose escalation, global phase 1b/2 trial²
- Phase 1b, BOIN (adaptive), n = 10/cohort (approximately)
- Phase 2, Simon 2-stage, n = 25/cohort (approximately)
- Eligibility: Patients aged 12 years and older, dose escalation will be performed in advanced solid tumor patients with any MAPK alteration. Expansion cohorts will focus on indications with a potential path to accelerated approval

Endpoints

- Phase 1b: PK, PD and Safety, MTD/RP2D
- Phase 2: Efficacy (ORR, DOR)

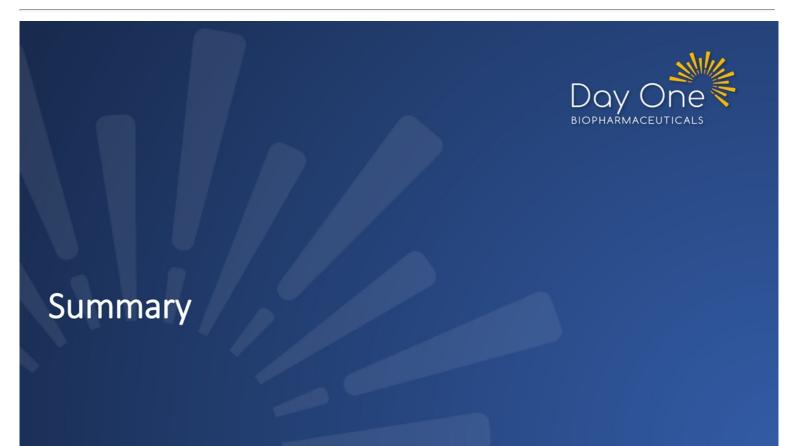




Abbreviations: BOIN, Bayesian Optimal Interval Design; BRAF, B-Raf proto-oncogene, serine/threonine kinase; MAPK, mitogen-activated protein kinase; NRAS, neuroblastoma rat sarcoma viral oncogene.

1 Umbrella master study — DAY101-102 (main protocol) DAY101 and MAPK pathway aberration, Sub-study 1 monotherapy (DAY101-102a), Sub-study 2 MEK combo (DAY101-102b). Intend to open U.S. and ex-U.S. clinical sties. DAY101+ Pimasertib until disease progression, intolerable toxicity, withdrawal of consent, or death





Financial Summary: DAWN

Cash, cash equivalents and short-term investments as of June 30, 2023: \$442.9 million (no debt)

~87.0 million shares of common stock outstanding as of August 1, 2023

\$ Millions	Six Months Ended 6/30/23	Six Months Ended 6/30/22
R&D Expense	\$60.0	\$37.6
G&A Expense	\$35.1	\$26.9
Net Loss	\$88.3	\$64.3

Projected cash runway into 2026

FIREFLY-1: Pivotal Phase 2 clinical trial of tovorafenib (DAY101)

- Initiated rolling NDA¹ in May 2023
- Topline data presented in September 2023
- Rolling NDA submission to the FDA for tovorafenib as a monotherapy in relapsed or progressive pLGG announced in September 2023
- FDA filing decision expected by mid-November 2023

FIREFLY-2/LOGGIC: Pivotal Phase 3 clinical trial of tovorafenib (DAY101) in newly diagnosed pLGG

First patient dosed in March 2023



All financial and share information is unaudited. ¹NDA data set will include analysis of primary (ORR by RANO-HGG) and secondary (ORR by RAPNO, PFS) efficacy endpoints, safety, and exploratory analyses (including ORR by RANO-LGG). ²Amended clinical study report will include safety and efficacy data from a planned June 2023 data cutoff.



Next Steps

FIREFLY-1

- Initiated rolling NDA in May 2023
- New topline data presented in September 2023
- Completion of rolling NDA submission to the FDA for tovorafenib as a monotherapy in relapsed or progressive pLGG announced in September 2023
- FDA filing decision expected by mid-November 2023



- Advance tovorafenib as a frontline therapy for patients with pLGG
- Currently activating sites and enrolling patients



FIRELIGHT-1

- Evaluate tovorafenib in combination and as monotherapy in adolescent and adult populations
- Monotherapy abstract presented at EADO in April 2023

Commercial

Continue investment in market and launch preparation activities

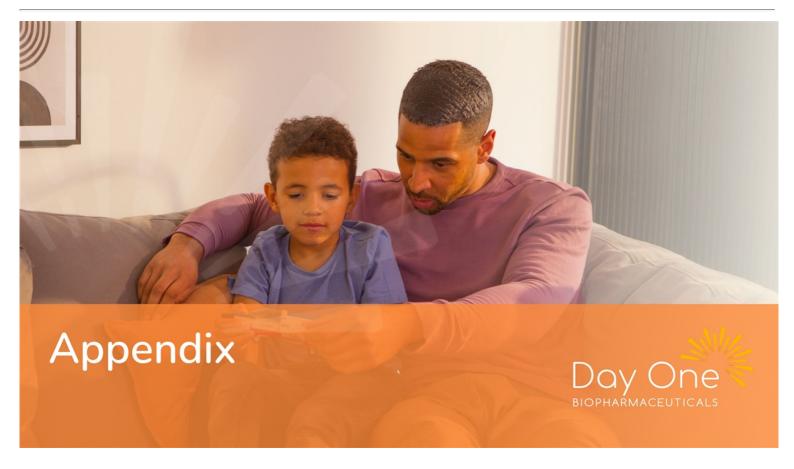
Business Development

- Research collaboration and license agreement for preclinical program targeting VRK1 Further investment in business development activities to expand our multiple asset

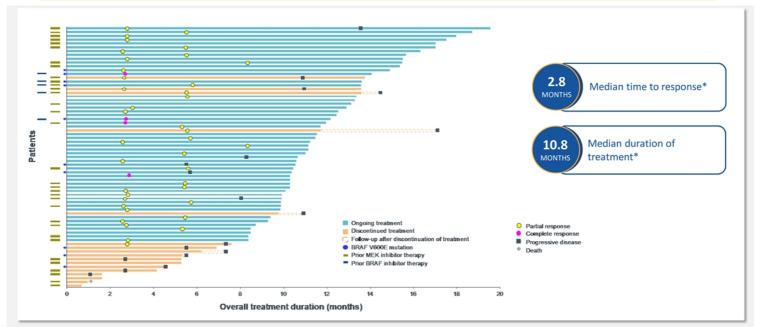


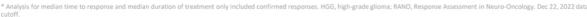
nded clinical study report will include safety and efficacy data from a planned June 2023 data cutoff.





Duration Of Tovorafenib (DAY101) Therapy For All Patients With RANO-HGG Evaluable Lesions (n=69)

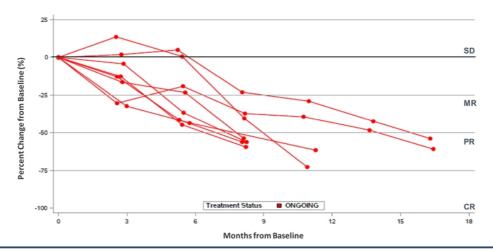






All RANO-LGG Unconfirmed PR Patients Continue On Treatment With Demonstrable Deepening Of Response (n=8)





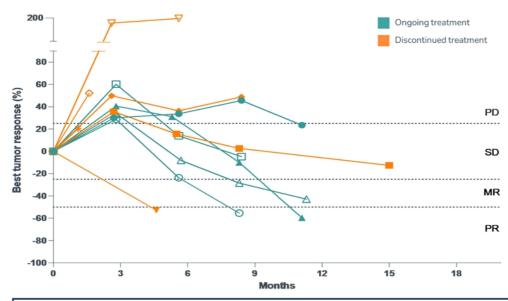
All 8 patients with unconfirmed partial response by RANO-LGG remain on treatment as of May 23, 2023



pider plot for SPPD – baseline and after treatment (RANO-LGG by IRC) – unconfirmed PR patients EOT status based on May 23, 2023 EDC data. Individual patient response data is current as of the data cuto



Nearly Half Of Patients With Best Response Of PD By RANO-LGG Have Tumor Stabilization And Response With Continued Treatment (n=11)



5/11 patients with best response of PD by RANO-LGG remain on treatment as of May 23, 2023



ndividual patient response data is current as of the data cutoff of December 22, 2022; treatment status data is current as of May 23, 2023.



Tovorafenib (DAY101) Safety Data (n=136)



	Treatment-emergent AEs		Treatment-
Preferred term, n (%)	Any grade	Grade ≥3	Any grade
Any AE	136 (100)	68 (50)	133 (98)
air color changes	96 (71)		96 (71)
tigue	68 (50)	4 (3)	54 (40)
miting	59 (43)	3 (2)	24 (18)
sh maculo-papular	56 (41)	10 (7)	51 (38)
adache	53 (39)	1 (1)	27 (20)
exia	43 (32)	2 (1)	15 (11)
sea	40 (29)	-	21 (15)
skin	39 (29)		34 (25)
matitis acneiform	37 (27)	1 (1)	36 (26)
stipation	36 (26)	-	28 (21)
reased appetite	35 (26)	4 (3)	25 (18)
staxis	34 (25)		22 (16)

- The vast majority of treatment-emergent AEs were Grade 1 or 2
- 39 patients (29%) required dose modifications due to treatment-related AEs
 - Dose interruptions were brief, with the median time of dose interruption being 2 weeks
- 5 patients (4%)* discontinued due to AE, with 4 patients (3%) discontinuing due to treatment-related AEs
- The most commonly reported lab abnormalities were CPK elevation, anemia, hypophosphatemia, and AST elevation
 - Nearly all had no clinical manifestations and did not require clinical intervention or change in study treatment

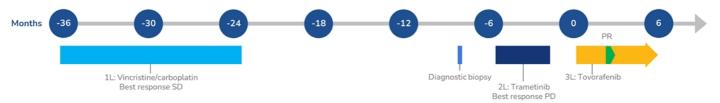


Dec 22, 2022 data cutoff. Table shows treatment-emergent AEs with frequency ≥25% of any grade. Rash erythematous treatment-emergent: any grade, 14 (10%); grade ≥3 1 (1%); treatment-related: any grade, 14 (10%), grade ≥3 1 (1%). *One patient had 2 events (shunt malfunction [not related to tovorafenib] and tumor hemorrhage [related to tovorafenib]). AEs, adverse events.

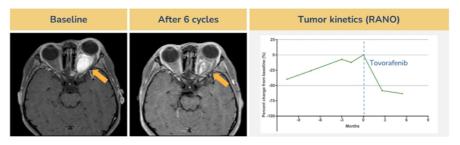


Case Study: Activity Of Tovorafenib (DAY101) In KIAA1549-BRAF Fusion Optic Pathway Glioma

A 7-years-old female child with an optic pathway glioma, with very poor vision, entropion, folliculitis, eczema, mouth ulceration and xerosis



- PR (-58%) and improvement in vision reported at cycle 3
- · AEs included grade 3 erythematous rash requiring dose interruption and dose reduction (400 mg QW to 300 mg QW in cycle 1), and grade 2 eczema and maculopapular rash
- Patient continues to receive weekly tovorafenib



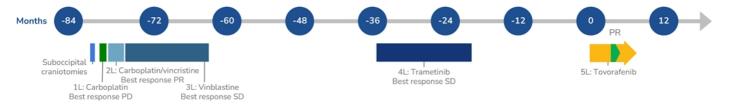


Apr 14, 2022 data cutoff. Tovorafenib is an investigational agent. Safety and efficacy have not been established by any health authority.

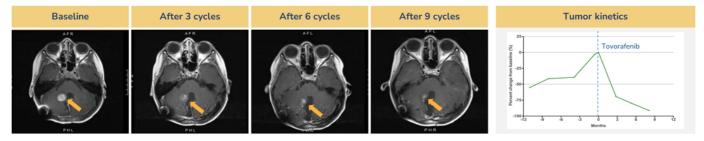


Case Study: Activity Of Tovorafenib (DAY101) In KIAA1549-BRAF Fusion Posterior Fossa Pilocytic Astrocytoma

An 8-years-old female child with a posterior fossa pilocytic astrocytoma, eczema, nausea and constipation



- PR (-69%) at cycle 3 with 500 mg QW tovorafenib, with a deepening of response (80% and 91% in cycles 6 and 9, respectively) over time AEs included grade 2 decrease in neutrophil count, pustular rash, and upper respiratory infection
- Patient continues to receive weekly tovorafenib





Apr 14, 2022 data cutoff. Tovorafenib is an investigational agent. Safety and efficacy have not been established by any health authority.

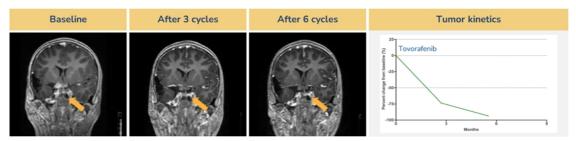


Case Study: Activity Of Tovorafenib (DAY101) In BRAF V600E Mutation Deep Midline Astrocytoma

A 9-year-old female child with deep midline BRAF V600E-mutant astrocytoma with precocious puberty



- PR (-74%) at cycle 3, with a deepening of response (-94%) at cycle 6
 AEs included grade 3 maculopapular rash and increased CPK, requiring drug interruption and dose reduction (500 mg QW to 400 mg QW in cycle 1)
 Tovorafenib dose was re-escalated back to 500 mg QW in cycle 4; patient continues on treatment



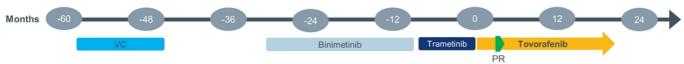


Apr 14, 2022 data cutoff. Tovorafenib is an investigational agent. Safety and efficacy have not been established by any health authority.

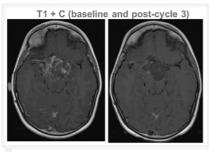


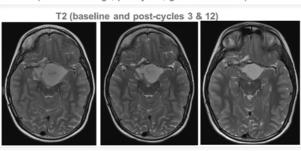
Case Study: Activity Of Tovorafenib (DAY101) In KIAA1549-BRAF Fusion Optic Pathway Glioma

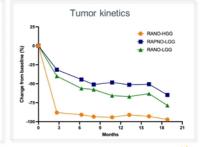
8-year-old boy with relapsed pilomyxoid astrocytoma of the optic pathway, with visual loss in right eye, visual field loss in left eye, fatigue, intermittent nausea/vomiting, intermittent headaches, anorexia, and temperature regulation disorder



- Initiated treatment with tovorafenib 400 mg/QW following 3 prior therapies, including binimetinib and trametinib, which were discontinued due to PD
- At cycle 3, PR (-88%) per RANO-HGG, and MR (-32% and -40%) per RAPNO-LGG and RANO-LGG, respectively
 - Sustained improvements in visual acuity reported; logMAR change $0.2 \rightarrow 0$
 - PD criteria met (-94% to -91%) with RANO-HGG at cycle 15; continued treatment as investigator deemed no radiographic progression with subsequent reduction in target lesion (-97%)
- AEs were G2 (drug eruption, elevated CPK) and G1 (hair color change, paronychia, growth retardation)









Dec 22, 2022, data cut-off. AEs, adverse events; C, contrast; CPK, creatine phosphokinase; G, grade; HGG, high-grade glioma; LGG, low-grade glioma; logMAR, Logarithm of the Minimum Angle of Resol MR, minor response; PD, progressive disease; PR, partial response; QW, once weekly; RANO, Response Assessment in Neuro-Oncology; RAPNO, Response Assessment in Pediatric Neuro-Oncology; VC, vincristine-carboplatin.



FIREFLY-2/LOGGIC: Pivotal Phase 3 Study Of Tovorafenib (DAY101) In Newly Diagnosed pLGG

- Collaboration between Day One and the LOGGIC consortium, internationally recognized experts in pLGG research
 - Coupled with the LOGGIC-CORE molecular diagnostic program
 - Worked jointly on the study design and discussions with the U.S. and EU regulatory authorities



LOGGIC: LOw Grade Glioma In Children

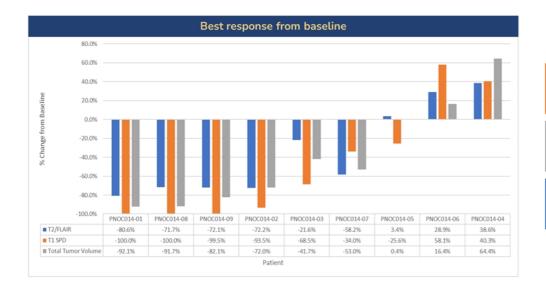








Results From Independent Radiology Review Of PNOC014



RANO-HGG: Response assessment for neurooncology-high grade glioma

Volumetric image analysis (exploratory)

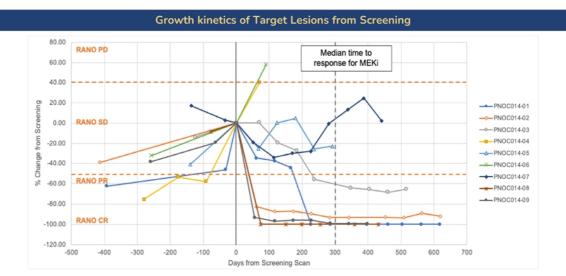
RAPNO: Response assessment for pediatric neuro-oncology (exploratory)



Date of data cutoff: 02 JAN 2020. Wright K et. al. Neuro Oncology Abstract CTNI-19. 2020



Multiple Rapid, Deep And Durable Responses Observed Following Initiation Of Tovorafenib (DAY101) Treatment Of pLGG Patients In PNOC014





Day One

Drug-related Adverse Events Observed for Tovorafenib (DAY101) in PNOC014 Showed Favorable Safety and Tolerability Profile in pLGG

DAY101 AF summary

- Most common toxicity: skin
- AEs reversible and all manageable
- Single, reversible Grade 3 event
- No Grade 4 AEs
- No dose reductions (vs. 40% of patients on selumetinib montherapy required dose reductions)

Drug-related AEs for Tovorafenib (DAY101)

Toxicities	Grade 1-2		
Anemia	6 (67%)		
Hypophosphatemia	4 (44%)		
Fatigue	5 (55%)		
Rash	8 (89%)		
Achromotrichia	7 (78%)		
Pruritis	6 (67%)		
Photosensitivity	1 (11%)		
Nevus	7 (78%)		
Alopecia	3 (34%)		
Epistaxis	2 (22%)		
Dry skin	3 (34%)		
Myalgias/arthralgias	3 (34%)		
Anorexia	2 (22%)		
Cheilitis	3 (34%)		
Hypermagnesemia	1 (11%)		
Bleeding gums	1 (11%)		
Increased AST	4 (44%)		
Nausea/vomiting	3 (33%)		
CPK elevation		1 (11%)	
Weight loss	2 (22%)		

Drug-related AEs for selumetinib

Toxicities	Grade 1-2	Grade 3	Grade 4
Increased ALT	20 (40%)	1 (2%)	
CPK elevation	34 (68%)	5 (10%)	
Diarrhea	27 (54%)	2 (4%)	
Decreased ejection fraction	19 (38%)	1 (2%)	
Gastric haemorrhage		1 (2%)	
Headache	14 (28%)	1 (2%)	
Decreased lymphocyte count	19 (38%)		1 (2%)
Neutropenia	14 (28%)	3 (6%)	
Paronychia	19 (38%)	3 (6%)	
Rash (acneiform)	29 (58%)	2 (4%)	
Rash (maculopapular)	26 (52%)	5 (10%)	
Skin infection	7 (14%)	1 (2%)	
Tooth infection		1 (2%)	
Weight gain	5 (10%)	1 (2%)	
Vomiting	22 (44%)		
Nausea	21 (42%)		
Increased AST	25 (50%)		
Anemia	28 (56%)		
Pruritis	10 (20%)		
Dyspnea	30 (60%)		



