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): June 3, 2024

ZENTALIS PHARMACEUTICALS, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization) 001-39263 (Commission File Number) 82-3607803 (I.R.S. Employer Identification No.)

1359 Broadway, Suite 801 New York, New York 10018 (Address of principal executive offices) (Zip Code)

(212) 433-3791 (Registrant's telephone number, include area code)

N/A

(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))

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

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

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.001 par value per share	ZNTL	The Nasdaq Global 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 \Box

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.

Beginning on June 3, 2024, spokespersons of Zentalis Pharmaceuticals, Inc. (the "Company") plan to present the information in the Corporate Presentation furnished as Exhibit 99.1 to this Current Report on Form 8-K (this "Current Report") and incorporated herein by reference at conferences and in meetings with investors and analysts.

The information contained in Item 7.01 of this Current Report (including Exhibit 99.1 attached hereto) 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 in any filing under the Securities Act of 1933, as amended, or the Exchange Act, whether made before or after the date hereof, except as expressly provided by specific reference in such a filing.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

The following Exhibit 99.1 relating to Item 7.01 shall be deemed to be furnished, and not filed:

ExhibitNo.	Description
<u>99.1</u>	Corporate Presentation, dated June 2024.
104	Cover Page Interactive Data File (embedded within the inline XBRL document)

SIGNATURES

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 hereunto duly authorized.

ZENTALIS PHARMACEUTICALS, INC.

Date: June 3, 2024

By:

/s/ Kimberly Blackwell, M.D. Kimberly Blackwell, M.D. Chief Executive Officer



Exhibit 99.1

Corporate Presentation

June 2024 Nasdaq: ZNTL

Forward Looking Statements and Disclaimer

Proceedings of the U.S. Private Securities Litigation Reform Act of 1995. All statements contained in this presentation (including oral commentary that accompanies this presentation) contains forward-looking statements, including without limitation statements regarding the optential for accoscible (2043) to be betwind to be a blockburst opportunity, the potential allocity of azenoscrib to a array of tumor types; including in combination with molecularly targeted agents; the potential indiges granulates; planed clinical trials for our product candidates, including our product candidates, including our product candidates, including our stratewest regort the potential for statements registrational date, the potential of azenoscrib to adverse array of tumor types; the potential for studes to be registrational ator, the potential date, the potential of azenoscrib to adverse array of tumor types; the potential for studes to the registrational date, the potential of azenoscrib to adverse array of tumor types; the potential for studes to the registrational date, the potential of azenoscrib to adverse array of tumor types; the potential for studes to the registrational concer, the potential of azenoscrib to adverse array of tumor types; the potential for studes to the registrational concer to be potential for azenoscrib. The potential for studes to the registration and concer to be protectice data tumwers and the potential benefits thereof, including in platitum sensitive ovarian cancer; the potential for azenoscrib to potential for azenoscrib to potential for azenoscrib to product candidates, the potential for azenoscrib to product candidates, the potential for azenoscrib to product candidates, the target profiles and outpential potential for azenoscrib to product candidates, the target profiles and to potential for azenoscrib to product candidates, the target profiles and the potential benefits of the design of our product candidates, the target profiles and the potential benefits of the design of our product candidat

This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and other data about our industry. These data involve a number of assumptions and limitations, and you are cautioned not to give undue weight to such data and 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 like. Neither we nor our affliates, advisors or representatives makes any representation as to the accuracy or completeness of that data or undertaket and real after the date of this

ZENTALIS' and its associated logos are trademarks of Zentalis and/or its affiliates. All other trademarks, trade names and service marks appearing in this presentation are the property of their respective owners. All website addresses given in this presentation are for information only and are not intended to be an active link or to incorporate any website information into this document.

Zentalis' product candidates are investigational drugs and have not yet been approved by the U.S. Food and Drug Administration or any other regulatory authority

Zentalis

Advancing Azenosertib

First-in-class WEE1 Inhibitor with Broad Franchise Potential

Highly Specific Agent Targeting WEE1

- Clinical-stage asset generating potentially registrational data
- Intermittent dosing allows for maximized efficacious exposures
- Differentiated from and years ahead of other agents against this target in development

Blockbuster Opportunit

- At least 2 gynecologic malignancies (PROC/USC)
 Expanding to a broad array of tumor types in
- combination with molecularly targeted agents
- More than 10 ongoing and planned trials
- Potential first NDA in 2026

Real Impact for Patients

- Monotherapy efficacy; 37% ORR and 6.5 month mPFS in heavily pretreated ovarian and USC*
- Excellent safety and tolerability profile compared to other commercially successful anti-cancer agents
- Established dosing and efficacy in combination with multiple chemotherapeutic agents

Positioned to Execute

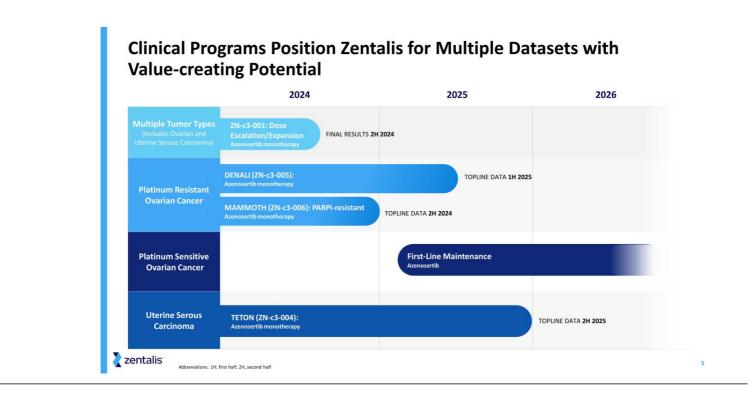
- Deep oncology expertise
- Industry-leading scientific and clinical advisors
- Partnerships with Pfizer and GSK
- Cash runway into mid-2026

Zentalis Abbreviations: PROC, platinum resistant ovarian cancer; USC, uterine serous carcinoma; ORR, objective response rate; NDA, New Drug Application; mPFS, median progression free survival statements comparing azenosertib to other agents, not head-to-head comparisons

*Data cut-off: October 25, 2023 3

Building Azenosertib Franchise in Gynecologic Cancers and Beyond

		INDICATION	TRIAL NAME + DEVELOPMENT APPROACH	Phase 1	Phase 1b	Phase 2	Phase 3	EXPECTED MILESTONES
		Platinum Sensitive Ovarian Cancer	Planned trial in 1L maintenance setting					Add'l details 2H 2024, Expect initiation 2025
	ပသူ	Platinum Resistant Ovarian Cancer	DENALI (ZN-c3-005) Monotherapy					Topline data anticipated 1H 2025
	DLOGI	PARPi Resistant Ovarian Cancer	MAMMOTH (ZN-c3-006) Azenosertib monotherapy, or with niraparib				sk	Topline data anticipated 2H 2024
	GYNECOLOGIC MALIGNANCIES	Uterine Serous Carcinoma	TETON (ZN-c3-004) Monotherapy, FDA Fast Track Designation					Topline data anticipated 2H 2025
Azenosertib	ωĘ	Platinum Resistant Ovarian Cancer	ZN-c3-002 Azenosertib + multiple chemo backbones					Data presented at ASCO 2023
WEE1 Inhibitor		Solid Tumors	ZN-c3-001 Monotherapy					Final results anticipated 2H 2024
	YPES	Osteosarcoma	ZN-c3-003 Azenosertib + gemcitabine					Final results presented at ASCO 2024
	OTHER TUMOR TYPES	BRAF Mutant Colorectal Cancer	ZN-c3-016 Azenosertib + encorafenib and cetuximab		Pfizer			Initial data anticipated 2H 2024
	IR TUP	Pancreatic Cancer	Azenosertib + gemcitabine					Investigator initiated stua
	OTHE	Breast Cancer	ZAP-IT Azenosertib + carboplatin + pembrolizumab					Investigator initiated stud
ZN-d5 BCL-2 Inhibitor		Acute Myeloid Leukemia	ZN-d5-004C ZN-d5 + azenosertib					Initial data anticipated 2H 2024



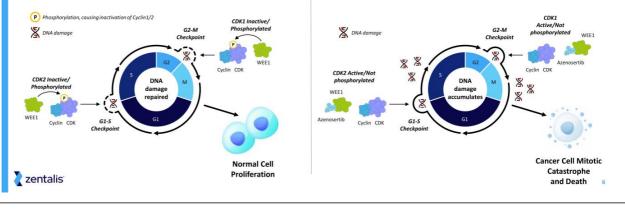
Azenosertib Mechanism of Action – Inhibitor of WEE1, Master Cell Cycle Regulator

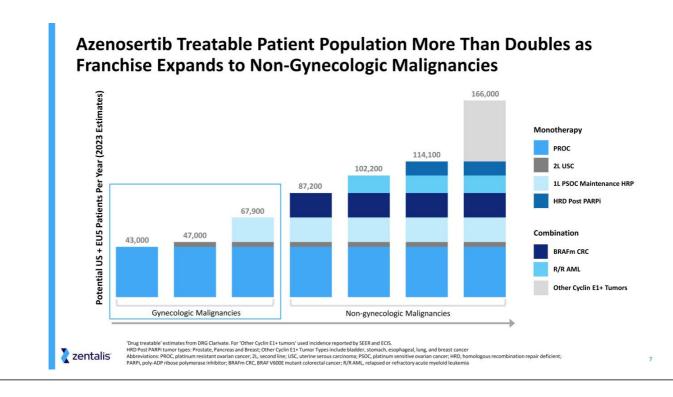
Normal Cell Cycle Regulation

- CDKs and their cyclin binding partners promote progression through the cell cycle
- Following DNA damage, WEE1 kinase phosphorylates and inactivates Cyclin/CDK complexes at both G1-S and G2-M checkpoints to halt the cell cycle and allow for repair
- Upon DNA repair, cells progress through the cell cycle and proliferate

Cancer Cell and Azenosertib

- In cancer cells, oncogene induced replication stress (e.g. Cyclin E1 activation or a driver mutation) leads to high levels of DNA damage and genomic instability
- Cancers with high levels of replication stress are sensitized to WEE1
 inhibition via azenosertib
- Inhibition of WEE1 activates CDKs and increases DNA damage to intolerable levels, resulting in mitotic catastrophe and cell death





Azenosertib Monotherapy Results Monotherapy Anti-tumor Activity in Gynecologic Malignancies with Favorable Safety and Tolerability Profile

Longer Follow Up Improves Duration of Benefit

Strong Safety and Tolerability of Azenosertib Monotherapy

		37% Objective Response Rate using intermittent dosing in ovarian and USC patients	
CORPORATE CALL	Ø	Established monotherapy RP2D of 400 mg 5:2	
June 6, 2023	Ð	Doubled steady state drug exposure compared to continuous dosing	
UPDATED		Median follow up has increased by nearly 5 months and mPFS has increased to 6.5 months	
DATA Nov 6, 2023	İŻ	Maintained excellent safety and tolerability with intermittent dosing	

Abbreviations: USC, uterine serous carcinoma; RP2D: recommended Phase 2 dose; 5:2 refers to administration schedule of five days on therapy and two days off; mPFS, median progression free survival

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Intermittent Monotherapy Patient Population Was Heavily Pretreated and Treatment Refractory

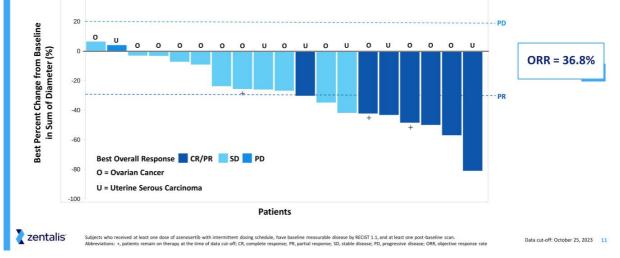
	USC	HGSOC
	N=6	N=13
Prior Lines of Treatment		
Median (Range)	3.5 (1-6)	6 (2-11)
Platinum Resistant* (N, %)	5 (83.3)	5 (38.5)
Platinum Refractory** (N, %)	NA	8 (61.5)
Prior Therapies (N, %)		
Prior PARP Inhibitor	1 (16.7)	10 (76.9)
Prior Experimental Agents	0 (0.0)	5 (38.5)
Prior VEGF Inhibitor	5 (83.3)	11 (84.6)
Prior Anti-PD-1/PD-L1	6 (100)	1 (7.7)

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USC and HGSOC subjects who received at least one dose of azenosertib with intermittent dosing schedule, have baseline measurable disease by RECIST 1.1, and at least one post-baseline scan. *Platinum Resistant: For USC patients, received prior platinum therapy. For HGSOC patients, progression within 90-180 days of prior dose of a platinum-based regimen in any line of therapy. **Platinum Refractory: Progression within 90 days of prior dose of a platinum-based regimen in any line. Progression date based on progression date if available or start date of next therapy. Abbreviations: USC, uterine serous carinoms, HGSOC, high grade serous ovarian cancer; PARP, poly-ADP ribose polymerase; VEGF, vascular endothelial growth factor; PD-1/PD-11, programmed cell death protein 1/programmed death ligand 1.

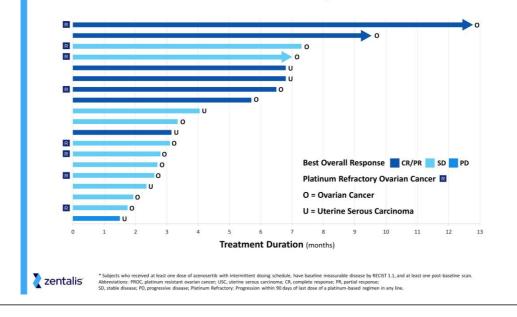
Monotherapy, ZN-c3-001

Monotherapy Azenosertib Results in a 37% Confirmed Response Rate In Both Platinum Resistant Ovarian Cancer and Uterine Serous Carcinoma

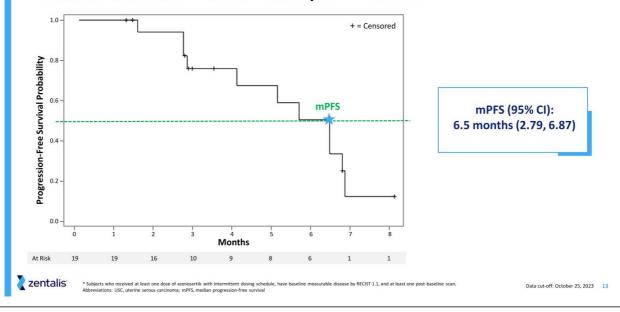


Data cut-off: October 25, 2023 12

Monotherapy Azenosertib Has Meaningful and Durable Benefit to Platinum Resistant Ovarian Cancer/USC Patients



Monotherapy Azenosertib Has Meaningful and Durable Benefit to Platinum Resistant Ovarian Cancer/USC Patients

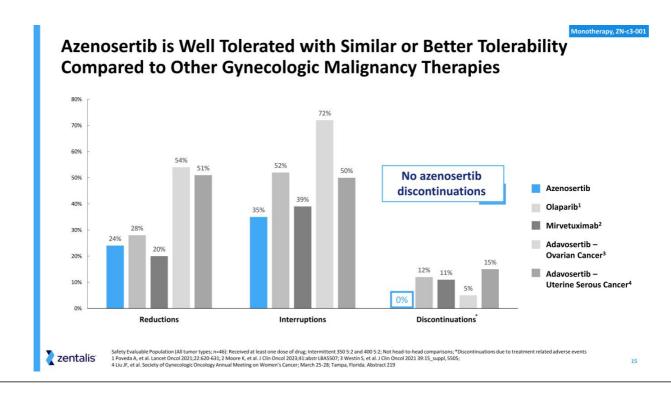


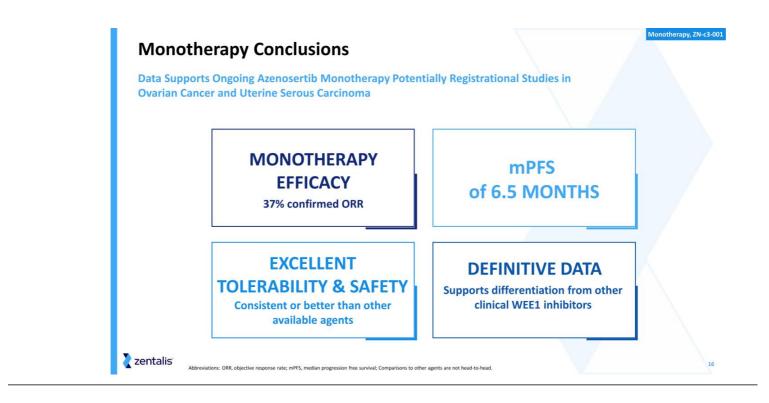
Azenosertib Monotherapy Continues to Demonstrate Excellent Safety Profile with Additional Patients Across Tumor Types^{*}

Treatment Related AEs, n (%)

Nausea	20 (43.5)	2 (4.3)		18 (39.1)	5 (10.9)
Diarrhea	22 (47.8)	4 (8.7)	Hematologic		
Vomiting	8 (17.4)	1 (2.2)	Anemia	11 (23.9)	5 (10.9)
Decreased appetite	4 (8.7)	1 (2.2)	Thrombocytopenia	9 (19.6)	4 (8.7)
Dehydration	5 (10.9)	0	Neutropenia	9 (19.6)	7 (15.2)

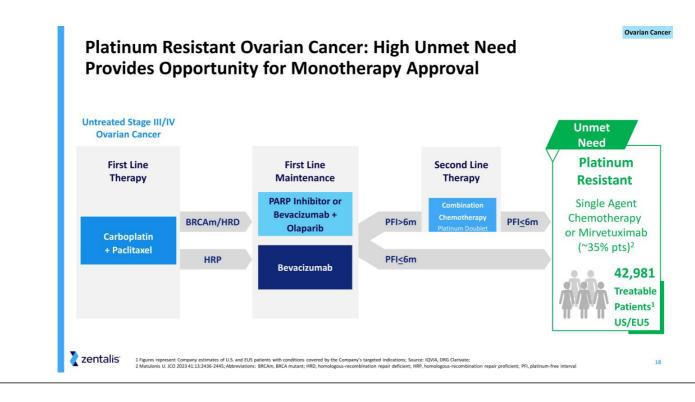
2 centalis *Safety Evaluable Population (All tumor types; n=46) as of Sept 27, 2023 versus n=27 reported on June 6, 2023 corporate call: Received at least one dose of drug; Intermittent 350 5:2 and 400 5:2; Treatment Related AEs > 10% for entire trial and treatment related AEs of interest. Abbreviations: AE, adverse event; 5:2, 5:days of treatment followed by 2:days off treatment to advect of the september 27, 2023 14





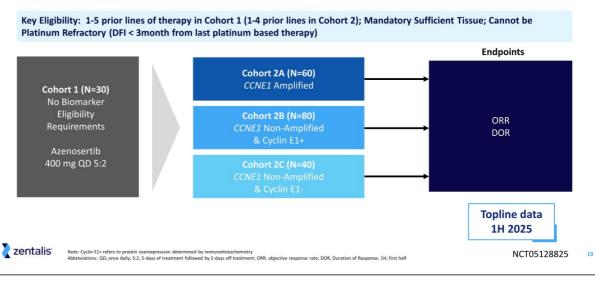
Phase 2 Trials of Azenosertib

Potential Paths to Registration in Platinum Resistant Ovarian Cancer and Uterine Serous Carcinoma



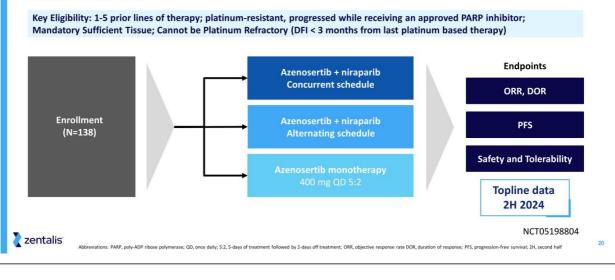
DENALI (ZN-c3-005): Prospective Evaluation of *CCNE1* Amplification and Cyclin E1+ in Platinum Resistant High-Grade Serous Ovarian Cancer

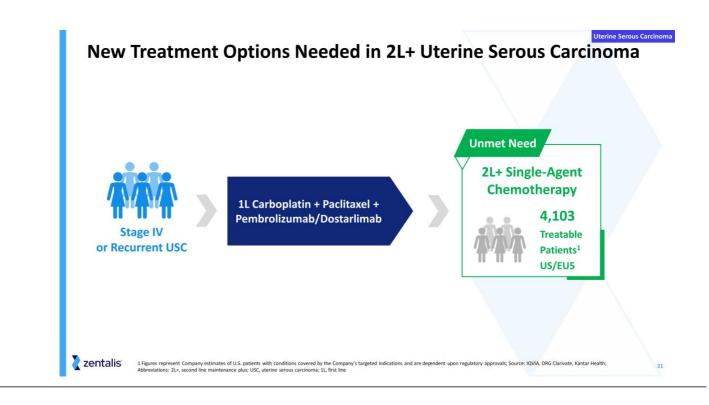
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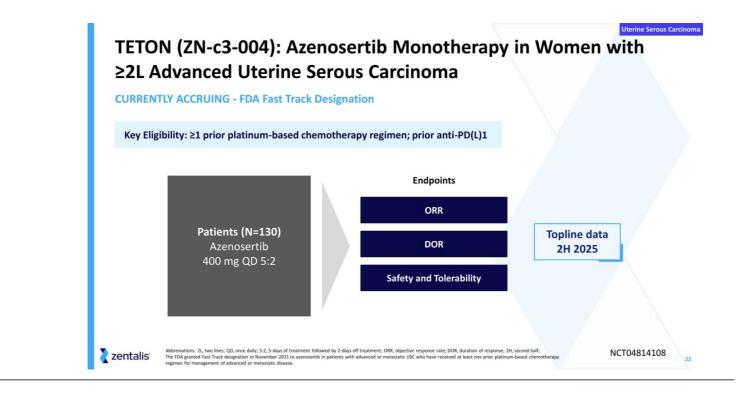


Overlan Cancer MAMMOTH (ZN-c3-006): Phase 1/2 Study of Azenosertib in Combination with Niraparib or Alternating with Niraparib or as a Monotherapy in Patients with PARP-Resistant High-Grade Epithelial Ovarian Cancer

CURRENTLY ACCRUING



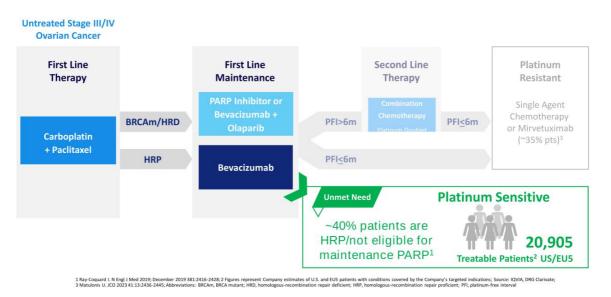


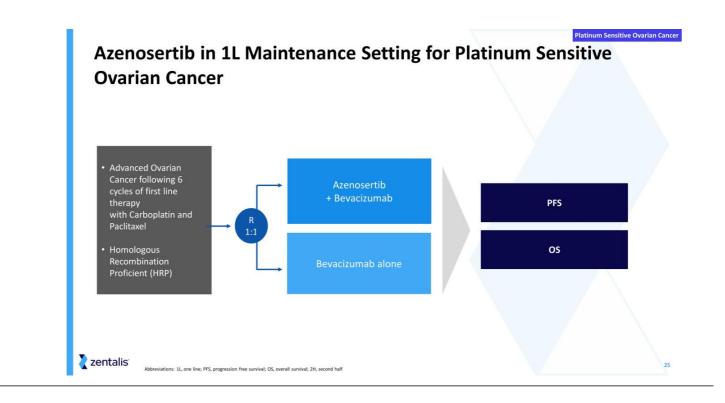


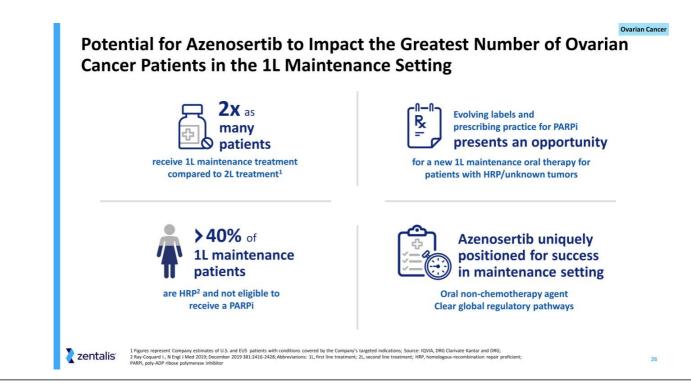
Azenosertib in Platinum Sensitive Ovarian Cancer

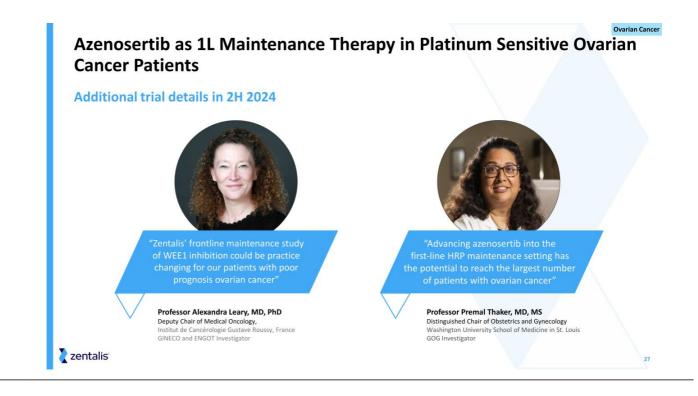
1L Maintenance Opportunity to Provide Prolonged Benefit for a Larger Number of Patients

Opportunity for Azenosertib in First Line Maintenance in Homologous Repair Proficient (HRP) Platinum Sensitive Ovarian Cancer



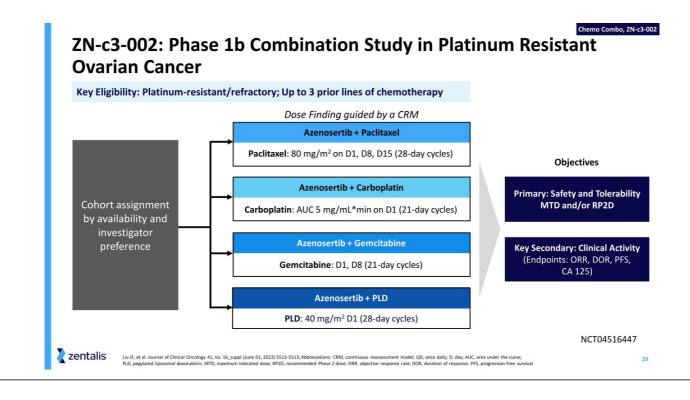






Azenosertib Combination with Chemotherapy

Clinical Data Shows Strong Efficacy and Favorable Safety Profile in Platinum Resistant Ovarian Cancer



Encouraging Efficacy and Durability with Azenosertib* in Combination with Chemotherapy in Platinum Resistant Ovarian Cancer

Endpoint	Azenosertib + Paclitaxel (N=26)	Azenosertib + Carboplatin (N=36)	Azenosertib + Gemcitabine (N=18)	Azenosertib + PLD (N=35)	Total (N=115)
Response-Evaluable* (N)	22	28	13	31	94
ORR (confirmed), N (%)	11 (50.0)	10 (35.7)	5 (38.5)	6 (19.4)	32 (34.0)
Median DOR (95% CI) in months	5.6 (3.8-NE)	11.4 (8.3-NE)	6.2 (NE)	7.3 (1.5-NE)	8.3 (5.6-12.4)
Clinical Benefit Rate (CR + PR + SD for ≥ 16 weeks), N (%)	18 (81.8)	16 (57.1)	6 (46.2)	24 (77.4)	64 (68.1)
Median PFS (95% CI) in months	7.4 (5.5-NE)	10.4 (3.3-14.5)	8.3 (3.3-NE)	6.3 (3.7-11.0)	9.0 (5.8-13.7)

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*Response-evaluable subjects are treated subjects with baseline measurable disease per RECIST version 1.1 and at least one post-baseline assessment. All objective responses were confirmed per RECIST v 1.1. Data include patients on all schedules of asenoserib plus chemotherapy. Lu JF, et al. Journal of Clinical Oncolegy 41, no. 16, suppl (June 01, 2023) 5513-5513; Abbreviations: PLD, pegviated liposonal dosorubicin; ORR, objective response rate; DCB, Auroins of response; Cl, confidence interval; NE, not estimable; CR, complete response; PR, partial response; SD, stable disease; PFS, progression-free survival; RECIST, response evaluation oriteria in solid tumors

Data cut-off: April 10, 2023 30



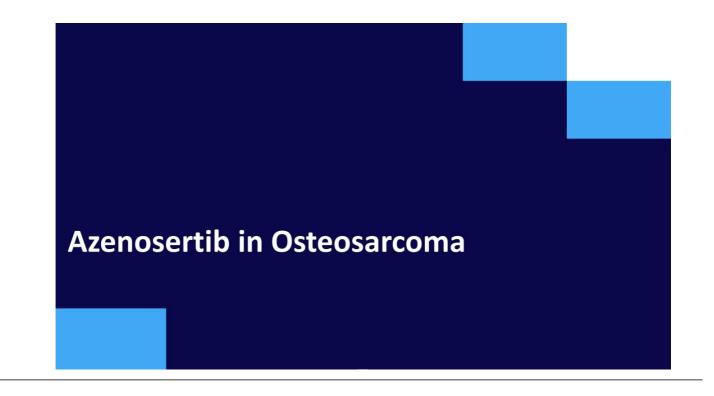
Azenosertib^{*} in Combination with Chemotherapy Demonstrates Favorable Safety Profile

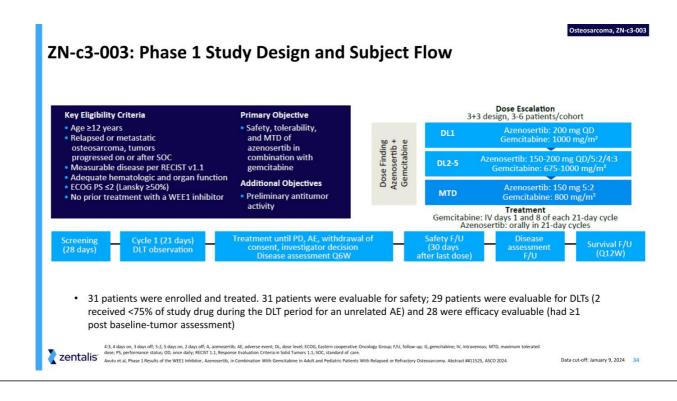
Treatment-Related Adverse Event ≥20% N (%)		Azenosertib + Paclitaxel (N=19)		Azenosertib + Carboplatin (N=14)		Azenosertib + Carboplatin (N=8)		Azenosertib + Gemcitabine (N=10)		Azenosertib + PLD (N=8)		Total (N=59)	
N.I.	70)	All Doses*		All Doses		Doses ≤ MTD		All Doses**		All Doses*			
Gra	ıde	All Gr	Gr ≥3	All Gr	Gr ≥3	All Gr	Gr ≥3	All Gr	Gr ≥3	All Gr	Gr ≥3	All Gr	Gr ≥3
	Neutropenia	11 (57.9)	5 (26.3)	7 (50.0)	1 (7.1)	4 (50.0)	0	7 (70.0)	4 (40.0)	3 (37.5)	3 (37.5)	28 (54.9)	13 (25.5)
Hematologic	Thrombo- cytopenia	4 (21.1)	0	9 (64.3)	5 (35.7)	4 (50.0)	2 (25.0)	8 (80.0)	6 (60.0)*	3 (37.5)	3 (37.5)	24 (47.1)	14 (27.5)
	Anemia	8 (42.1)	1 (5.3)	10 (71.4)	4 (28.6)	4 (50.0)	1 (12.5)	5 (50.0)	2 (20.0)	2 (25.0)	1 (12.5)	25 (49.0)	8 (15.7)
	Nausea	7 (36.8)	1 (5.3)	6 (42.9)	0	3 (37.5)	0	5 (50.0)	0	4 (50.0)	1 (12.5)	22 (43.1)	2 (3.9)
Gastro- intestinal	Vomiting	2 (10.5)	1 (5.3)	2 (14.3)	0	2 (25.0)	0	1 (10.0)	0	4 (50.0)	1 (12.5)	9 (17.6)	2 (3.9)
	Diarrhea	6 (31.6)	1 (5.3)	5 (35.7)	0	3 (37.5)	0	6 (60.0)	0	2 (25.0)	0	19 (37.3)	1 (2.0)
Other	Fatigue	8 (42.1)	2 (10.5)	5 (35.7)	1 (7.1)	4 (50.0)	0	6 (60.0)	2 (20.0)	2 (25.0)	0	21 (41.2)	5 (9.8)
Zentalis	Validoses were at or below MID and were intermittent: **A MID for gencitable + azenosertib has not been determined, further dose cohorts are ongoing. Uu Jr, et al. Journal of Clinical Oncology 41, no. 16_suppl (June 01, 2023) 5513-5513; Abbreviations: MTD, maximum tolerated dose; PLD, pegylated lippoomal doorrubicin 31												

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Addition of Azenosertib to Single Agent Chemotherapy Increases Response Rates and Durability of Response in Ovarian Cancer Compared to Chemotherapy Alone

50%	50% Objective Response Rate with 7.4-month Progression Free Survival in paclitaxel combination
G	Superior durability in carboplatin combination with 10.4-month Progression Free Survival and 36% Objective Response Rate
	Overall tolerability of paclitaxel and carboplatin combinations compares favorably to SOC chemotherapy doublets paclitaxel-carboplatin or PLD-carboplatin
	Cyclin E1+ status associated with superior Objective Response Rate and longer Progression Free Survival across response-evaluable patient population
Zentalis uw JF, et a	II. Journal of Clinical Oncology 41, no. 16_suppl (June 01, 2023) 5513-5513; Abbreviations: SOC; standard of care; PLD, pegylated liposomal doxorubicin





Doses Evaluated and Dose-Limiting Toxicities

							MTD
	Azenosertib	200 mg QD	150 mg QD	200 mg 5:2	200 mg 5:2	200 mg 4:3	150 mg 5:2
Dose level	Gemcitabine	1000 mg/m ²	800 mg/m ²	800 mg/m ²	675 mg/m ²	800 mg/m ²	800 mg/m ²
Patients treated, n		9	5	3	6	2	6
Patients DLT-evalua	ble, n	8	5	3	5	2	6
Patients with DLTs,	n	3	2	2	1	1	0
DLT, n				2		·	
Grade 4 thromboo	ytopenia	3	0	1	1	0	
Grade 3 nausea/vomiting/diarrhea		0	1	0	0	0	
Grade 2 thrombocytopenia with bleeding		0	1	0	0	0	
AE leading to <759	% dose intensity	ala a					0
Grade 4 neutrop	penia	0	0	1	0	0	
Grade 2 thrombocytopenia		0	0	0	0	1	

No evidence of a drug-drug interaction between azenosertib and gemcitabine was observed

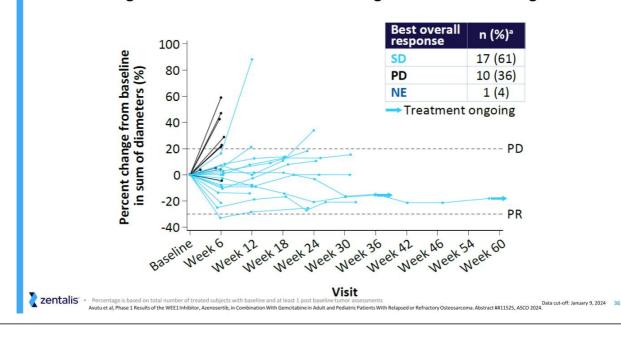
Pharmacokinetic results were consistent with those seen in azenosertib monotherapy and other chemotherapy combination studies with azenosertib

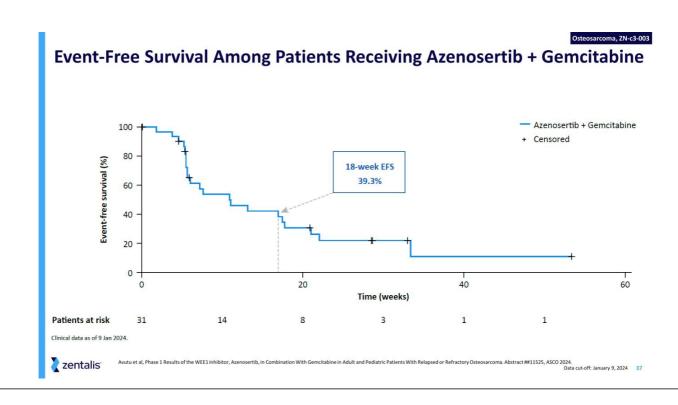
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Avutu et al, Phase 1 Results of the WEE1 Inhibitor, Azenosertib, in Combination With Gemcitabine in Adult and Pediatric Patients With Relapsed or Refractory Osteosarcoma. Abstract ##11525, ASCO 2024. Data cut-off: January 9, 2024 35



Percent Change From Baseline in the Sum of Longest Diameters for Target Lesions







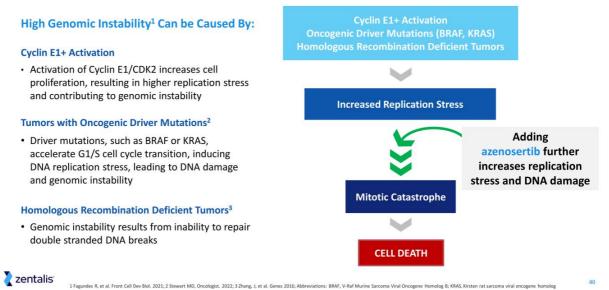
Treatment-Emergent Adverse Events Occurring in >20% of Patients

- The MTD was identified as Azenosertib 150 mg (5:2) + gemcitabine 800 mg/m²
- · Azenosertib + gemcitabine was associated with a manageable safety profile and no new safety signals were identified
- There were no grade 4 thrombocytopenia events or instances of febrile neutropenia at the MTD

Adverse Event	All Cohorts All Grades [n(%)] N=31	All Cohorts Grade ≥ 3 [n(%)] N=31	MTD All Grades [n(%)] n=6	MTD Grade <u>></u> 3 [n (%)] n=6
Thrombocytopenia (combined)	25 (80.6%)	13 (41.9%)	3 (50%)	2 (33.3%)
Anemia (combined)	15 (48.4%)	6 (19.4%)	2 (33.3%)	1 (16.7%)
Fatigue	15 (48.4%)	4 (12.9%)	4 (66.7%)	1 (16.7%)
Nausea	12 (38.7%)	0	1 (16.7%)	0
Leukopenia (combined)	11 (35.5%)	6 (19.4%)	1 (16.7%)	0
Neutropenia (combined)	11 (35.5%)	11 (35.5%)	0	0
Pyrexia	10 (32.3%)	1 (3.2%)	3 (50%)	0
Headache	9 (29%)	0	2 (33%)	0
Lymphopenia (combined)	8 (25.8%)	6 (19.4%)	2 (33%)	2 (33%)
ALT Increase	7 (22.6%)	0	1 (16.7%)	0
Constipation	7 (22.6%)	0	1 (16.7%)	0
Diarrhea	7 (22.6%)	1 (3.2%)	1 (16.7%)	0
Hypoalbuminemia	7 (22.6%)	1 (3.2%)	3 (50%)	1 (16.7%)
Hypokalemia	7 (22.6%)	2 (6.5%)	2 (33%)	1 (16.7%)

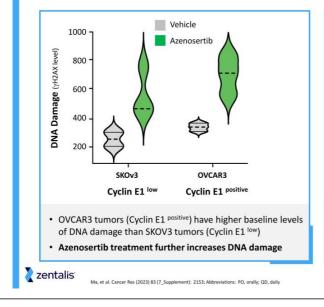


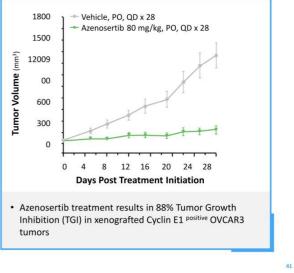
Multiple Mechanisms Leading to Genomic Instability Enhance Sensitivity to Azenosertib

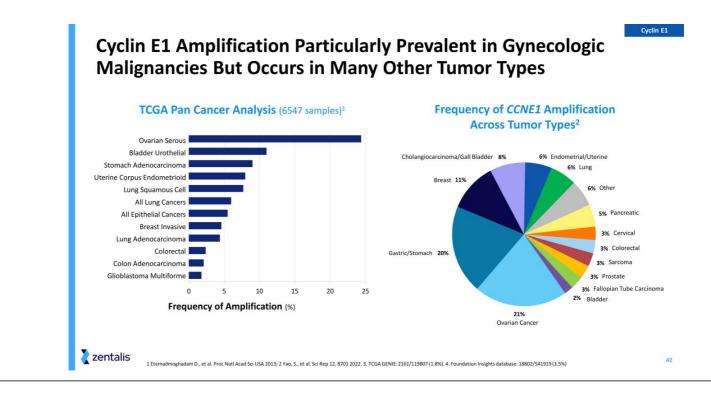


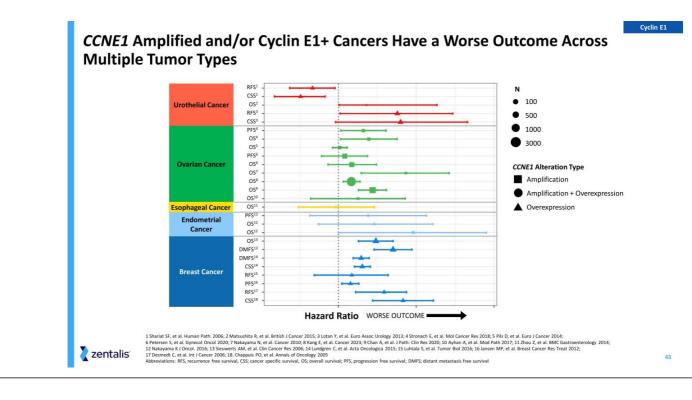


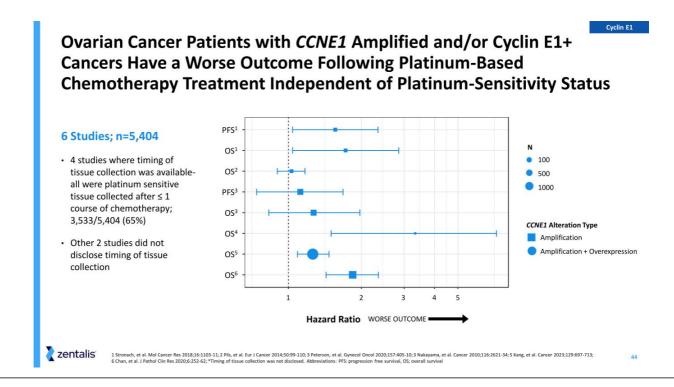
Azenosertib Results in Higher Levels of DNA Damage and Tumor Growth Inhibition in Cyclin E1 Positive Tumors

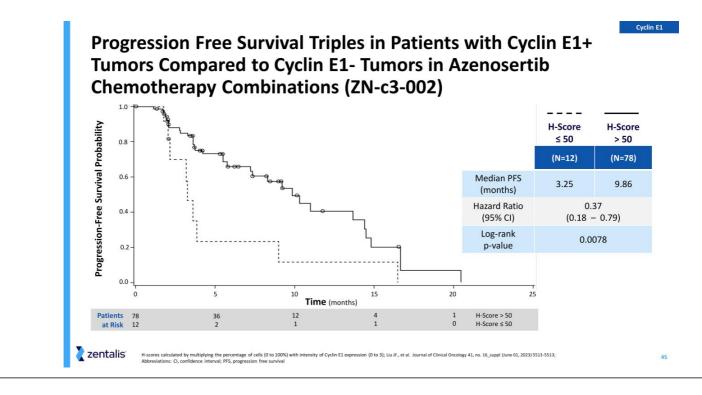


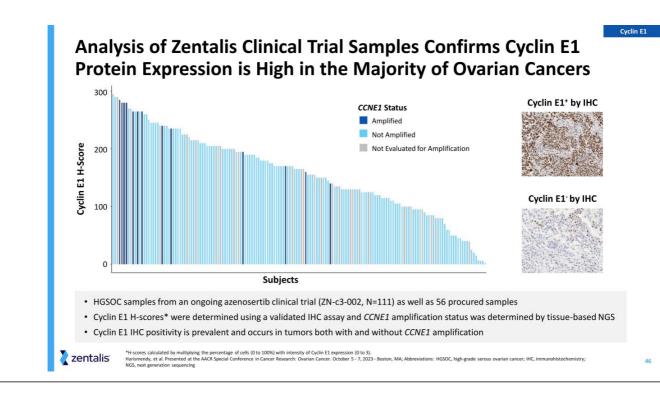




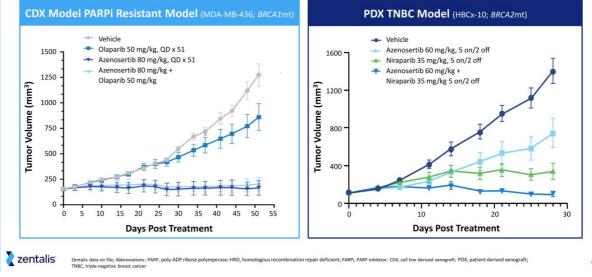






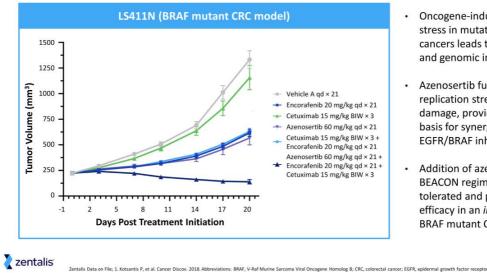


Monotherapy Azenosertib +/- PARP Inhibitor Combinations are Active in HRD Tumors, Including Models with Acquired PARP Resistance



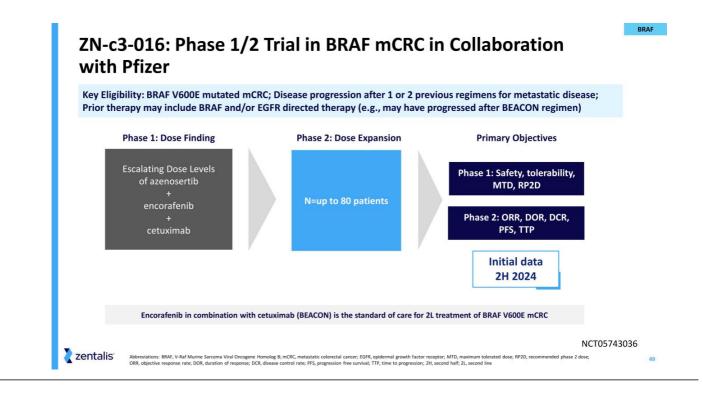
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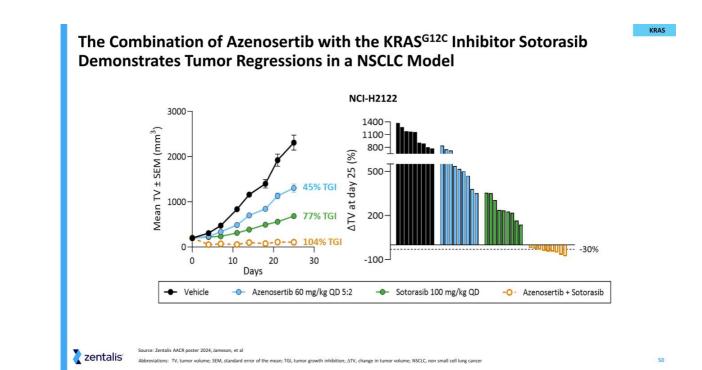
Preclinical Data Supports the Combination of Azenosertib with Encorafenib and Cetuximab (BEACON Regimen)

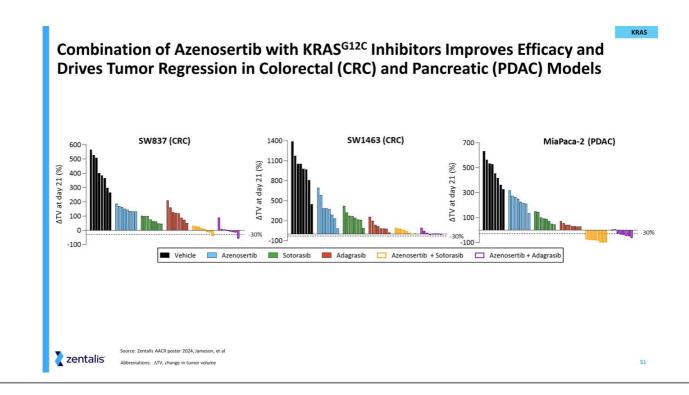


Oncogene-induced replication stress in mutationally driven cancers leads to DNA damage and genomic instability¹ BRAF

- Azenosertib further increases replication stress and DNA damage, providing mechanistic basis for synergy with EGFR/BRAF inhibition
- Addition of azenosertib to the BEACON regimen is well tolerated and provides superior efficacy in an *in vivo* model of BRAF mutant CRC





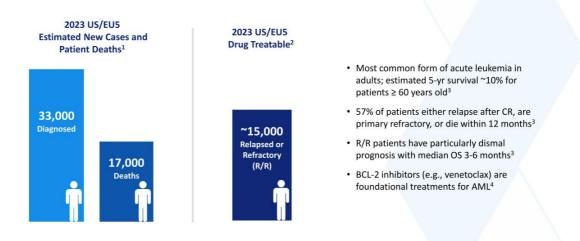


-	g Rationale Supports Ongoing Clinical Development of osertib in Cancers with High Genomic Instability	
	 Cyclin E1 status is predictive of azenosertib sensitivity in preclinical models DENALI (ZN-c3-005) is prospectively evaluating <i>CCNE1</i> amplification and Cyclin E1 IHC as potential patient enrichment strategies 	
	2 Azenosertib has monotherapy activity in multiple HRD models • MAMMOTH (ZN-c3-006) is evaluating monotherapy and combination with niraparib in PARP resistant, platinum resistant ovarian cancer	
	3 Azenosertib enhances the efficacy of BRAF + EGFR inhibition in preclinical models of colorectal cancer	
	 ZN-c3-016 is evaluating azenosertib in combination with encorafenib and cetuximab in BRAFV600E metastatic colorectal cancer 	
zentalis	Abbreviations: IHC, immunohistochemistry; PARP, poly-ADP ribose polymerase; BRAF, V-Raf Murine Sarcoma Viral Oncogene Homolog B; EGFR, epidermal growth factor receptor; HRD, homologous recombination repair deficient	52

BCL-2 Inhibitor (ZN-d5) in Combination with Azenosertib

Represents Opportunity to Address Acute Myeloid Leukemia Patients with Known Poor Prognosis and High Unmet Need

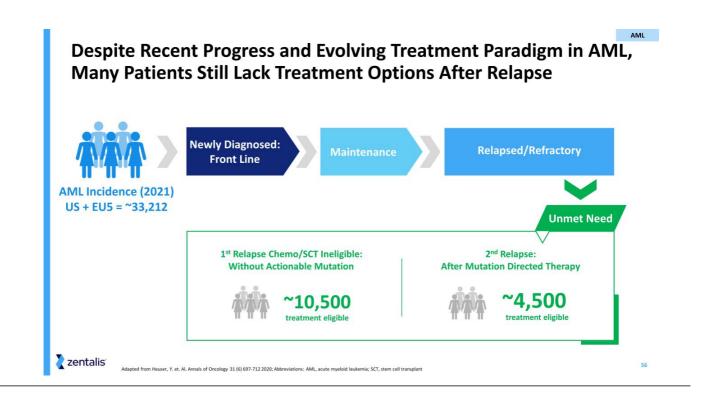
Relapsed/Refractory Acute Myeloid Leukemia Remains a Devastating Disease and Represents a Major Unmet Medical Need

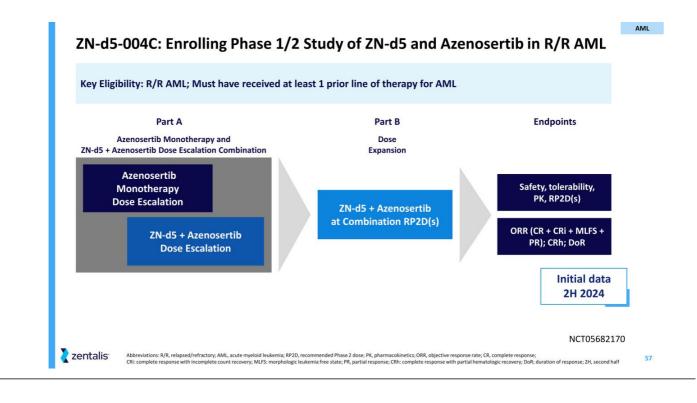


1. American Cancer Society. Cancer Facts & Figures 2023, SEER and ECIS. 2 Figures represent company best estimates based on US patients with conditions covered by the companies target indication. Sources DRG Clarivate, Kantar Health 3 Silmnom, 5, et al. Am J Hematol. 2023; 98(3): 502-526; 4 Mait Å, et al. The Cancer Journal 28(1):2022. March 28(1): 2023 American Ameri American A

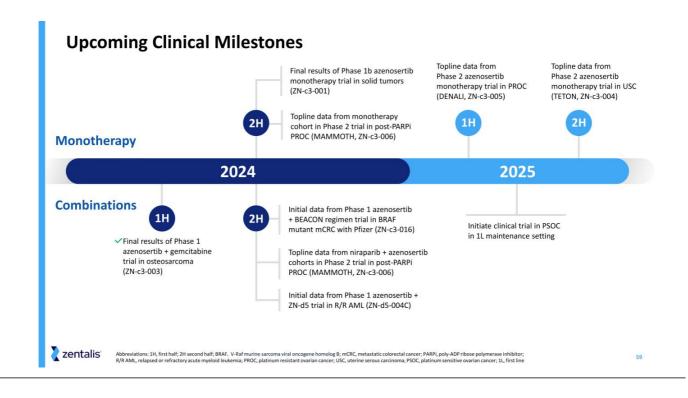
AML Combination of ZN-d5 and Azenosertib Results in Enhanced Apoptosis, DNA Damage and Synergistic Anti-Tumor Activity in an AML Model HL-60 (in vitro) ➡ Vehicle qdx 21 - Azenosertib 80 mg/kg qdx 21 6hr -O. ZN-d5 50 mg/kg + Azenosertib ---- ZN-d5 50 mg/kg qdx 21 80 mg/kg qdx 21 + ZN-d5 100 nM + _ 2800-Azenosertib 250 nM + + 2400-Tumor Volume (mm³) Actin 2000 1600 Caspase-3 1200 Cleaved-Apoptosis Caspase-3 800-Last Day of **DNA** damage γΗ2ΑΧ Treatment 400 -Q 0 0-0 Synergistic effects seen at 0 4 8 12 16 20 24 28 sub-efficacious doses of both agents **Days Post Treatment** Zentalis Izadi H, et al. AACR 2022 Cancer Res (2022) 82 (12_supplement):2591; Data / Report On File, Zentalis Pharmaceuticals

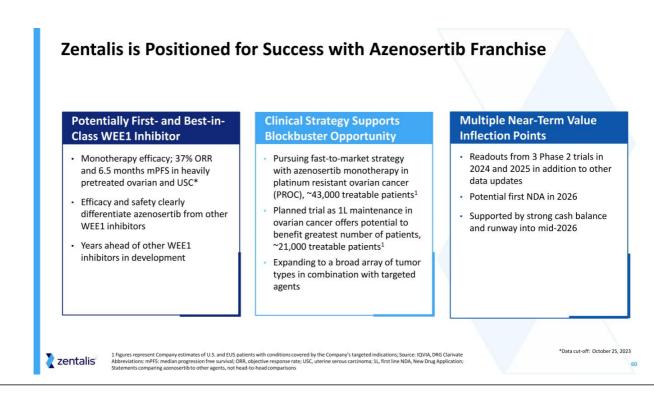
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