



INVESTOR PRESENTATION

Summer 2025

Developing Novel Therapeutics to Destroy Cancer

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BriaCell: Novel Immunotherapies to Fight Cancer

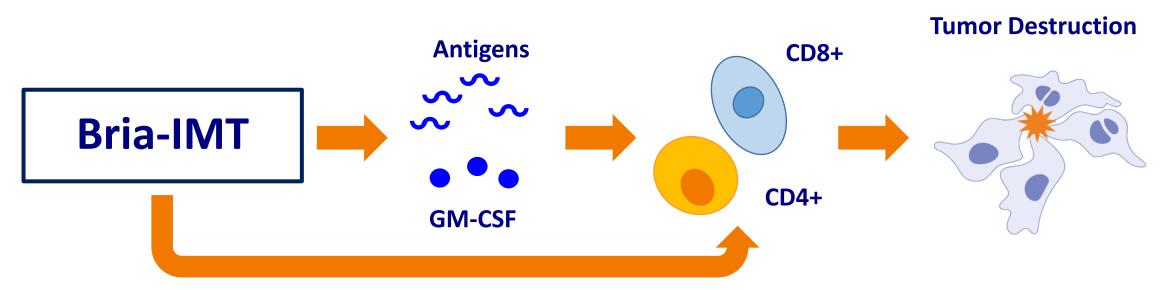


- Clinical stage immuno-oncology company developing an entirely new class of targeted immunotherapies to transform cancer care
- Lead drug candidate Bria-IMT™
 - Pivotal Phase 3 study underway in metastatic breast cancer (over 40K US deaths/year)
 - Phase 2 study demonstrated 2-fold increase in survival vs comparable patients in the literature
 - Unprecedented clinical benefit in checkpoint inhibitor (CPI) and antibody-drug conjugate (ADC) resistant patients
 - Remarkable clinical efficacy in patients with central nervous system (CNS) metastases
 - Awarded Fast Track designation by FDA
 - Single agent and combination check point inhibitor (+ CPI) activity
- Bria-OTS™ & Bria-OTS+™: Next generation, cell-based cancer immunotherapy platform
 - Ongoing Phase 1/2a study in breast cancer
 - Bucket trial with other cancer indications to be added
 - Next generation prostate cancer candidate scheduled to enter clinic 2025
 - National Cancer Institute SBIR awards
 - Bria-OTS+ more potent version of Bria-OTS

Bria-IMT: Lead Candidate



- Bria-IMT a cell based, patented, targeted immunotherapy
- Derived from a well characterized breast cancer cell line
- Expresses tumor antigens and GM-CSF to activate cancer fighting CD4+ and CD8+ T cells
- Stimulates the immune system to enhance targeted killing of cancer cells
- Off-the-shelf approach easy to distribute and administer
 - Cell are grown (cGMP), harvested, irradiated and cryopreserved for shipment to clinical sites where they are thawed and injected intradermally (upper back and thighs)



Bria-IMT Monotherapy Phase 2 Clinical Data



Evaluable Patients	HLA Match	Disease Control (CR, PR, and SD)	Disease Control in Immune Responders (DTH)
N=5	≥ 2	80% (4/5)	100% (4/4)
N=15	≥ 1	47% (7/15)	58% (7/13)
N=18	Any	50% (9/18)	60% (9/15)

- 27 total heavily pre-treated (median 5 prior regimens) metastatic breast cancer patients treated with Bria-IMT monotherapy regimen, 18 evaluable
- Presence of HLA-type matching correlates with response to Bria-IMT
- Immune response measured by delayed-type hypersensitivity (DTH) to Bria-IMT correlates with disease control
- Tolerability excellent with no dose-limiting toxicities
- Clinical benefit demonstrated: 1 PR and 8 SD in 15 evaluable immune responders

Bria-IMT Combination with CPIs

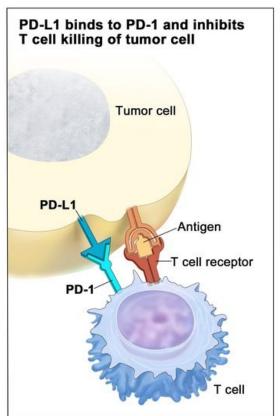


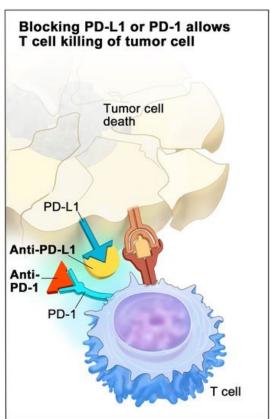
How Do CPIs Work?

- PD-L1 expression protects cancer cells from tumor antigen driven T-cell attack
- PD-1 and PD-L1 inhibitors, also known as CPIs, neutralize this immune suppression

Why combine Bria-IMT with CPIs?

- >90% of patients express PD-L1 in our studies
- Potential synergy between Bria-IMT activated immune system and CPI's unblocking of immune system
- BriaCell's hypothesis: Combining CPIs with Bria-IMT providing powerful synergistic anti-tumor activity



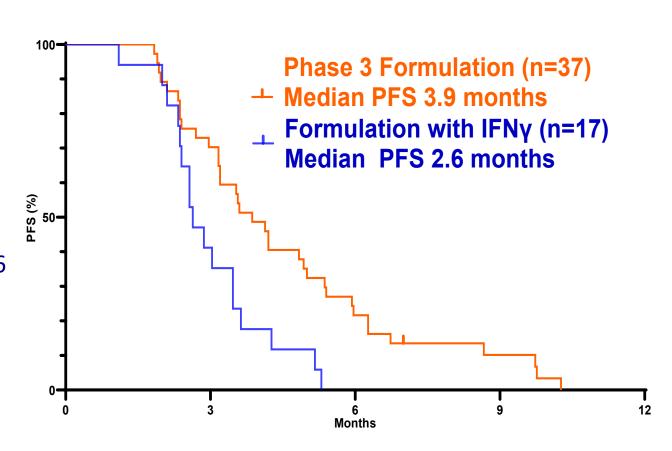


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Bria-IMT + CPI Phase 2 Study



- Total of 54 patients enrolled
 - ➤ 11 treated in combination with pembrolizumab
 - 44 treated in combination with retifanlimabone cross-over
- Median 6 prior regimens
- Evaluated 2 formulations:
 - \triangleright Bria-IMT treated with IFNy, n = 17
 - Bria-IMT not treated with IFNγ, n = 37
- Progression-free survival (PFS) 3.9 months vs 2.6 months favored no IFNγ (p<0.05)
- PFS of similar patients in the literature is 1.6-2.5 months¹
- Bria-IMT without IFNγ selected as formulation for Phase 3



Data presented at ASCO 2024 see Calfa et al. Journal of Clinical Oncology 42, 6_suppl https://doi.org/10.1200/JCO.2024.42.16_suppl.1022

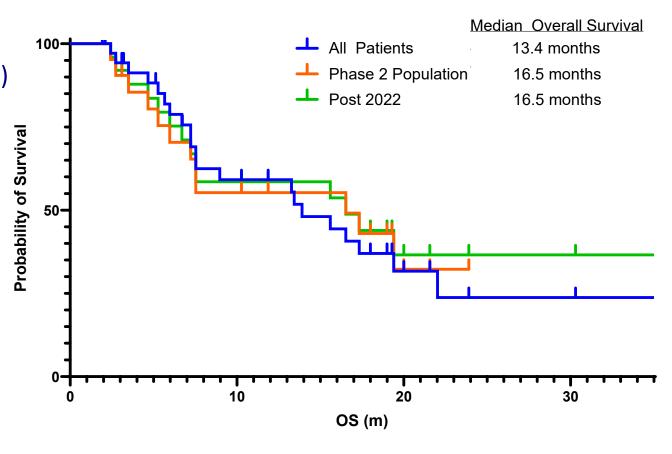
¹Cortes J, et al. Annals of Oncology 2018; Kazmi S, et al. Breast Cancer Res Treat. 2020 Aug 17; O'Shaughnessy J et al. Breast Cancer Res Treat. 2022; Tripathy D, et al. JAMA Oncol. 2022; Bardia A, et al. J Clin Oncol. 2024 May 20;42(15):1738-1744

Bria-IMT + CPI Overall Survival for Phase 3 Formulation



- 37 patients treated with Phase 3 formulation
 - ➤ 12 patients pre 2022
 - ➤ 25 patients post 2022
- Median 6 lines of prior therapies (range 2-13)
- Overall survival (OS) 13.4 months (pre and post 2022)
- Overall survival (OS) 16.5 months post 2022
- Overall survival (OS) 16.5 months in the randomized phase 2 population
- OS compares favorably to 5.9-9.8 months¹ reported in comparable metastatic breast cancer patients
- No dose limiting toxicities to date

Survival of Phase 3 Formulation Cohort by Time Period

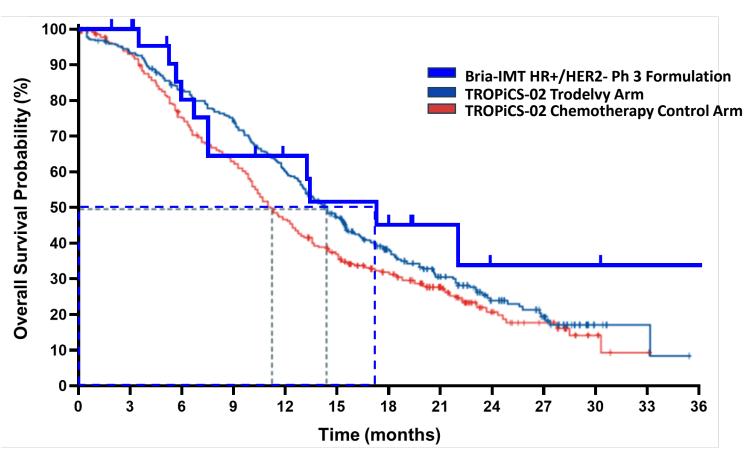


Bria-IMT + CPI Phase 2 Overall Survival vs Trodelvy



- 37 patients treated with Phase 3 formulation
 - ➤ 25 patients hormone receptor (HR) positive
- Overall survival (OS) 17.3 months for HR+ Patients
- Compares well to Trodelvy pivotal registration study
 - ➤ 14.4 months for Trodelvy
 - ➤ 11.2 months for single agent chemotherapy

Overall survival of Bria-IMT vs TROPiCS-02²



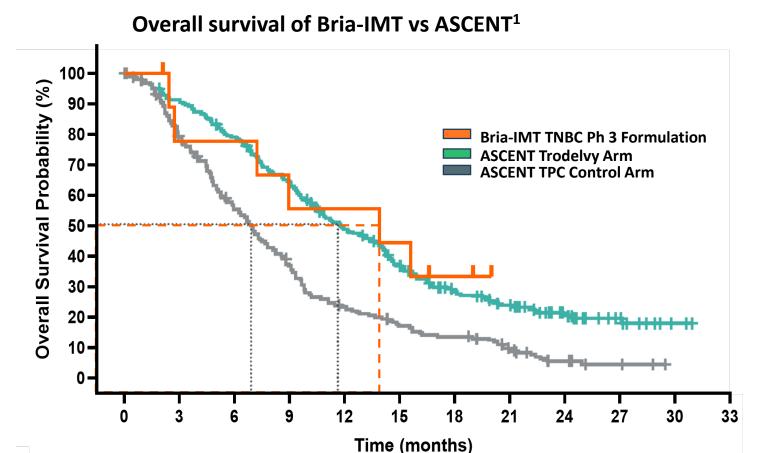
²Rugo, H. S., et al. The Lancet, 402(10411), 1423–1433.

ClinicalTrials.gov ID NCT03328026

Bria-IMT + CPI Phase 2 Overall Survival vs Trodelvy



- 37 patients treated with Phase 3 formulation
 - ➤ 10 patients with triple-negative breast cancer (TNBC)
- Overall survival (OS) 13.9 months for TNBC
- ➤ Compares favorably to Trodelvy pivotal registration study
 - ➤ 11.8 months for Trodelvy
 - ➤ 6.9 months for single agent chemotherapy



¹Bardia, A., et al Journal of Clinical Oncology, 42(15), 1738–1744

ClinicalTrials.gov ID NCT03328026

Comparison to Other Similar Patients



- ~4 months median progression-free survival (PFS) twice that seen in comparable patients treated with best available therapy, including antibody-drug conjugate (ADC) resistant patients^{1,2,3}
- Clinical benefit seen in 55% of evaluable patients in all subtypes of breast cancer
 - > Compared with 7-10% in comparable patients treated with best available therapy (the comparator for Phase 3)

	Progression-Free	Objective	Clinical Benefit
Study	Survival (months)	Response Rate (%)	Rate (%)
BriaCell's Phase 2 patients who received pivotal Phase 3			
study formulation (Bria-IMT regimen)	3.9	9.5*	55*
BriaCell's ADC Resistant Phase 2 patients who received			
pivotal Phase 3 study formulation (Bria-IMT regimen)	4.1	12**	53**
Bardia, A. et. al. ¹	1.7	4	8
Tripathy D. et. al. ²	1.9	3	10
O'Shaughnessy J. et. al. non-TNBC ³	2.3	4	7
O'Shaughnessy J. et. al. TNBC ³	1.6	5	10

^{*}Data is for evaluable patients, n=42 with 12 not evaluable.

References: Data is shown for the intent to treat population for the control group treated with treatment of physician's choice, which is the comparator in the BriaCell phase 3 study

^{**} Data is for evaluable patients, n = 17 with 6 not evaluable.

^{1.} Bardia A, et al. Final Results From the Randomized Phase III ASCENT Clinical Trial in Metastatic Triple-Negative Breast Cancer and Association of Outcomes by Human Epidermal Growth Factor Receptor 2 and Trophoblast Cell Surface Antigen 2 Expression. J Clin Oncol. 2024 May 20;42(15):1738-1744.

^{2.} Tripathy D, Tolaney SM, Tagliaferri M. Etirinotecan Pegol Treatment for Patients With Metastatic Breast Cancer and Brain Metastases-Reply. JAMA Oncol. 2022 Nov 1;8(11):1700-1701. jamaoncol.2022.4346. PMID: 36136348. This paper describes patients with brain metastases.

^{3.} O'Shaughnessy J, et al. Analysis of patients without and with an initial triple-negative breast cancer diagnosis in the 3 randomized ASCENT study of sacituzumab govitecan in metastatic triple-negative breast cancer. Breast Cancer Res Treat. 2022 Sep;195(2):127-139.

Robust Market Potential



		Prior		PFS	WW 2024	
Drug	Trial	Lines	ORR (%)	(months)	Sales* (Bil	\$)
Bria-IMT™	Ph 2	5.5	10	4.1		
KISQALI® (ribociclib)	Ph 1/2a (MBC previously Rx trastuzumab, pertuzumab, and trastuzumab emtansine) ¹	5	0	1.3	\$	3.0
KEYTRUDA® ** (pembrolizumab)	Ph 2 (MBC HER2 negative) ²	1	0	1.9	\$ 2	9.5
LYNPARZA® (Olaparib) + cediranib	Ph 1 (MBC triple negative) ³	3	0	3.7	\$	3.7
IBRANCE®	Ph 2a (MBC retinoblastoma+) ⁴	2	0	3.7	\$	4.4
(palbociclib)	Ph 2 (MBC HR+/HER2-) ⁵	2		6		
PERJETA® (pertuzumab)	Ph 1 (MBC) ⁶	2	0		\$	4.0
PERJETA® (pertuzumab) + docetaxel	Ph 1b (MBC) ⁷	2	0		_	
PERJETA® (pertuzumab) + Herceptin	Ph 2 (MBC HER2+ progressed on trastuzamab) ⁸	1-3	0	5	_	
TRODELVY® (sacituzumab govitecan-hziy)	Ph 1/2 MBC (TNBC; HR+ HER2-) ⁹	3	0	5.5	\$	1.3
Verzenio® (abemaciclib)	Ph 1/2 (HR+/HER2- MBC progressed on endocrine Rx and prior chemo) ¹⁰	4	0	6	\$	5.3
Verzenio® (abemaciclib)	Ph 1/2 (MBC HR+ Intracranial mets) ¹¹	1-12	5.2/0	4.4/2.7		
KADCYLA®	Ph 1 (MBC HER2+ failed trastuzamab) ¹²	4	21	~5.8	\$	2.2
(ado-trastuzumab emtansine)	Ph 1 (MBC HER2+ failed HER2 directed Rx) ¹³	5	26	4.6		
HERCEPTIN HYLECTA® (trastuzumab & hyaluronidase-oysk)	Ph 3 (HER2+ MBC) ¹⁴		26	4.6	\$	1.5
ENHERTU® (HER2low) (fam-trastuzumab deruxtecan-nxki)	Ph 2 ¹⁵	1	52		\$	3.8
ENHERTU® (HER2high) (fam-trastuzumab deruxtecan-nxki)	Ph 2 15	5	60			

\$2-5 billion Bria-IMT opportunity#

- *Worldwide sales figure is based on SEC filings
- **Approved for multiple cancer indications
- # Independent market analysis

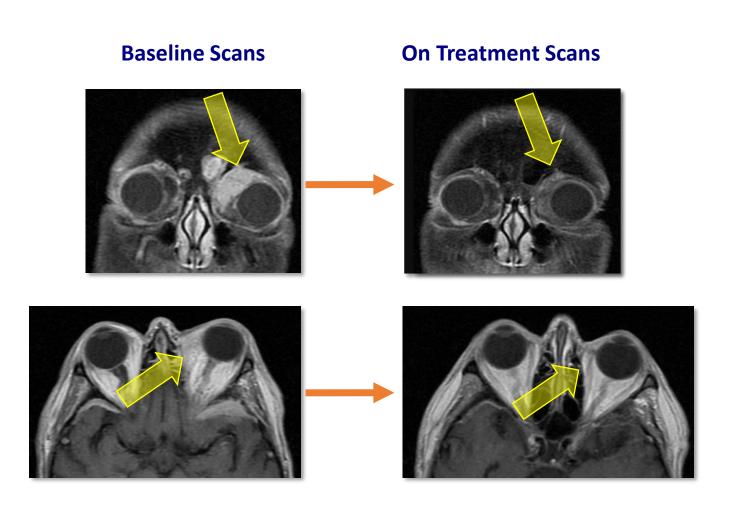
References:

- 1. https://pubmed.ncbi.nlm.nih.gov/31235441/
- 2. https://ascopubs.org/doi/10.1200/JCO.2023.41.16_suppl.1095
- 3. https://pubmed.ncbi.nlm.nih.gov/23810467/
- 4. https://pubmed.ncbi.nlm.nih.gov/25501126/
- 5. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8676999/
- 6. https://pubmed.ncbi.nlm.nih.gov/15699478/
- 7. https://pubmed.ncbi.nlm.nih.gov/18000498/
- 8. https://pubmed.ncbi.nlm.nih.gov/20124182/
- $\underline{9.\ https://www.nejm.org/doi/10.1056/NEJMoa1814213?url_ver=Z39.88-\\$
- 2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%200pubmed
- 10. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5581697/
- 11. https://aacrjournals.org/clincancerres/article/26/20/5310/82934/
- 12. https://pubmed.ncbi.nlm.nih.gov/20421541/
- 13. https://pubmed.ncbi.nlm.nih.gov/21172893/
- 14. https://www.thelancet.com/journals/lanonc/article/PIIS1470-2045(12)70329-7/abstract
- 15. https://pubmed.ncbi.nlm.nih.gov/36780610/;
- https://medicalinformation.astrazeneca-us.com/home/prescribing-information/enhertu.html

Bria-IMT + CPI Remarkable CNS Responder Case #1

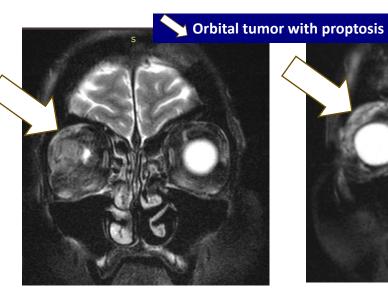


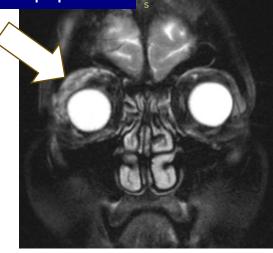
- Patient failed 13 prior regimens
- Baseline breast cancer metastases
- Behind the left eye (orbit)
- Outside lining of the brain (dura mater)
- Adrenal gland
- 6 months of treatment
- Orbital tumor completely resolved
- The patient judged an overall partial responder



Bria-IMT + CPI Remarkable CNS Responder Case #2



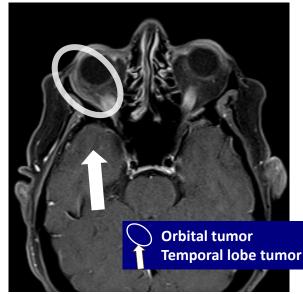




- Patient failed 8 prior regimens including ADC Enhertu®
- Baseline tumor status
 - Extensive proptosis (eye bulging) & brain (temporal lobe) metastasis
- Marked tumor reduction at 11 months
 - Near complete proptosis resolution at 3 months with orbit (eye socket) tumor: 42 mm → 28 mm
 - ➤ Brain temporal lobe tumor: 22 mm → 0
 - Overall, 56% reduction (PR)
 - Improvement in eye pain and reduction in tumor markers
- On study for >21 months



Pre-treatment



6 Months





12 Months

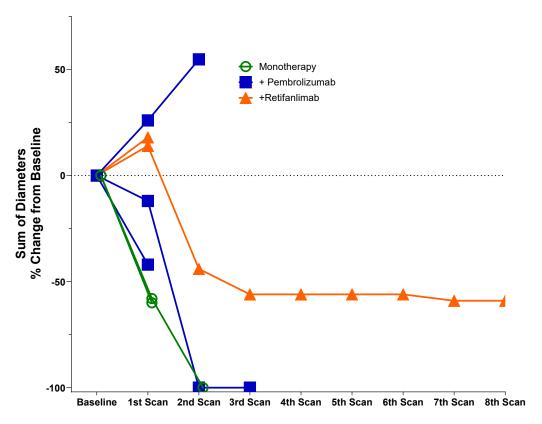
20 Months

Impressive CNS Response Rate in MBC Patients



- 71% (5/7) intracranial objective response rate (iORR)
 - ➤ Positive results in both Bria-IMT monotherapy and CPI combination
- iORR in comparable patients typically <20%^{1,2}
- Response across all subtypes of breast cancer
- Heavily pre-treated population includes 1 ADC resistant patient
- Planned CNS disease subgroup analysis in pivotal phase 3
- Data highlight strong Bria-IMT potential in CNS metastases

Intracranial Tumor Responses*



¹ Niwinska A, Pogoda K, Jagiello-Gruszfeld A, Duchnowska R. Intracranial Response Rate in Patients with Breast Cancer Brain Metastases after Systemic Therapy. Cancers (Basel). 2022 Feb 15;14(4):965. doi: 10.3390/cancers14040965. PMID: 35205723; PMCID: PMC8869862.

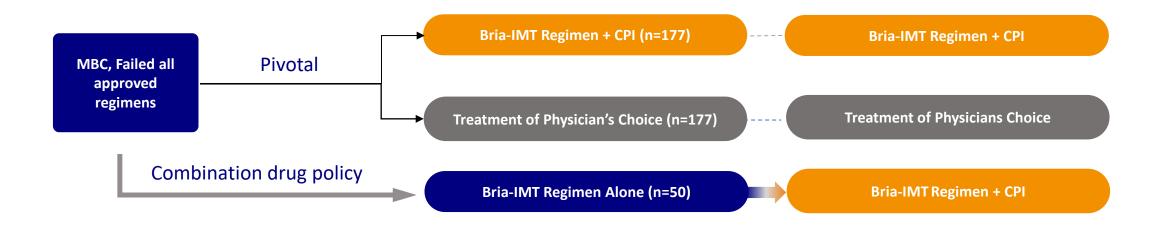
*Data in evaluable patients

² Tripathy D, Tolaney SM, Seidman AD, Anders CK, Ibrahim N, Rugo HS, Twelves C, Diéras V, Müller V, Du Y, Currie SL, Hoch U, Tagliaferri M, Hannah AL, Cortés J; ATTAIN Investigators. Treatment With Etirinotecan Pegol for Patients With Metastatic Breast Cancer and Brain Metastases: Final Results From the Phase III ATTAIN Randomized Clinical Trial. JAMA Oncol. 2022 Jul 1;8(7):1047-1052. doi: 10.1001/jamaoncol.2022.0514. PMID: 35552364; PMCID: PMC9100460.

Bria-IMT + CPI Pivotal Phase 3 Study



- Ongoing pivotal Phase 3 study in <u>A</u>dvanced <u>B</u>reast <u>C</u>ancer (Bria-ABC)
- Primary endpoint of overall survival
 - Interim efficacy at 144 events
 - > 97.5% powered to detect a 40% reduction in mortality
- Positive interim results could support FULL approval of Bria-IMT + CPI

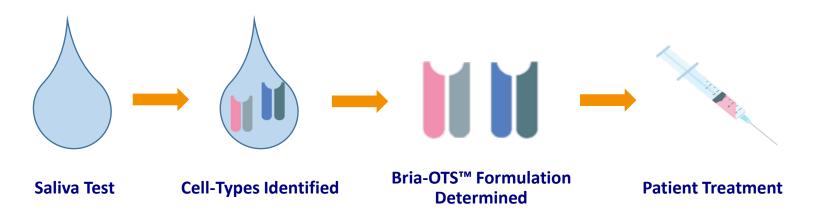


Analyze at 144 events. If hazard ratio (HR) is \leq 0.6, submit BLA. If > 0.6, continue to completion with HR target of 0.7

Bria-OTS Personalized & Off-The-Shelf

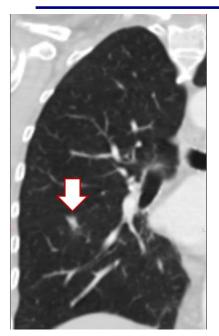


- BriaCell immunotherapy is most effective in human leukocyte antigen (HLA) type matched patients
- HLA typing identifies patient specific T cell presenting antigens necessary for immune response
- Bria-OTS expresses 15 HLA types in 4 cell lines, providing matched treatment to >99% of patients
- Simple saliva test delivers personalized Bria-OTS immunotherapy
- Breast cancer Phase 1/2a study enrolling
 - Bucket trial with other cancer indications to be added (prostate, melanoma and lung)
- Enhanced Bria-OTS+ to enter clinic 2025
 - Positive pre-IND meeting for Bria-OTS+ completed

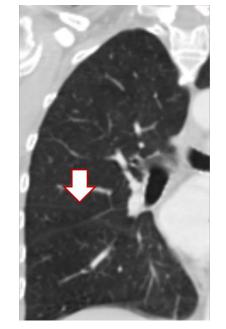


Bria-OTS Metastatic Breast Cancer Phase 1/2a

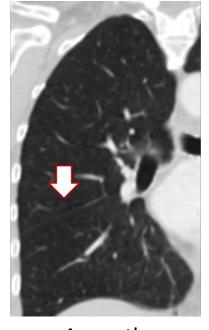




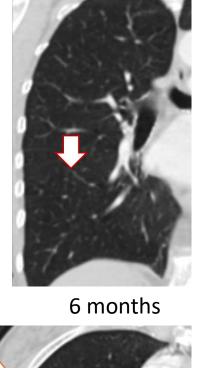
Pre-Treatment

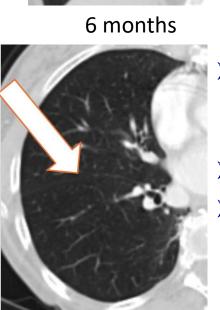


2 months



4 months

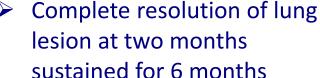




 Initial monotherapy dose escalation then dose expansion in combination with CPI

Up to 18 patients including 9 patient dose expansion

Results of first patient treated:





Multiple prior therapy failures







Development Timeline and Catalysts



Bria-IMT + CPI

Phase 2 safety & efficacy data with presentations at scientific conferences, DSMB updates on pivotal Phase 3 study

Phase 3 interim analysis

Potential BLA submission

Potential marketing approval

2H 2025

1H 2026

2H 2026

1H 2027

2H 2027

Bria-OTS/OTS+

Phase 1/2a dose escalation in breast cancer Initiation of Bria-BRES+ Ongoing data readouts from breast cancer study

> Bria-PROS+ IND Submission and Initiation of Clinical Study in prostate cancer

Continuous basket study readouts with additional indications (lung, melanoma and others)

Identify lead indications and initiate Bria-OTS+ pivotal registration study

Experienced Management





William V. Williams, MD, FACP President & CEO, Director

- Incyte, GlaxoSmithKline
- University of Pennsylvania



Giuseppe Del Priore, MD, MPH Chief Medical Officer

- Cancer Treatment Centers of America
- NYU School of Medicine, New York Presbyterian



Gadi Levin, CA, MBA
CFO & Corporate Secretary

- Arthur Andersen
- University of Cape Town, Bar Ilan University



Miguel A. Lopez-Lago, PhD Chief Scientific Officer

- Memorial Sloan-Kettering Cancer Center
- Stony Brook University, New York







Clinical Strategy Team involved in 20 previous drug or device approvals

Board of Directors





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Eight Capital, Dundee Securities, Wellington
 West Capital Markets and HSBC Securities



William V. Williams, MD, FACP President & CEO, Director

Incyte, GlaxoSmithKline



Vaughn Embro-Pantalony, MBA, FCPA, FCMA, CDir, ACC
Director

- Teva Novopharm Limited, Bayer Healthcare,
- Zeneca Pharma Inc.



Jane Gross, PhD Director

 aTyr Pharma Inc., ZymoGenetics Inc. (acq. by Bristol Myers Squibb)



Martin Schmieg, CPA
Director

Clear Intradermal Technologies, Inc., Sirna
 Therapeutics, Inc., Advanced Bionics Corporation



Rebecca A. Taub, MD Director

 Madrigal Pharmaceuticals, Hoffmann-La Roche Company, Bristol-Myers Squibb;

Capitalization Structure*



	Nasdaq: BCTX, BCTXW,BCTXZ TSX: BCT			
Share Price:	US\$7.49			
Shares Outstanding:	1.8M			
Market Cap:	US\$14.1M			
Options (US\$892.80 WAEP):	13k			
Warrants (US\$57.00 WAEP):	1.7M			

^(*) as of August 25, 2025

