KOL Call on MDNA55 for the Treatment of Recurrent Glioblastoma (rGBM)

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Speaker Panel



David A. Reardon, MD

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- Welcome message and introduction of KOLs
- GBM Background & Need for New Therapies (David Reardon)
- Clinical Efficacy of MDNA55 in rGBM (John Sampson)
- Benefits of a Propensity Matched External Control Arm (ECA) (Ruthie Davi)
- Incorporation of an ECA in a Planned rGBM Registration Trial (Amy McKee)
- Medicenna Overview (Fahar Merchant)
- Q&A



GBM Background & Need for New Therapies

David A. Reardon, MD

Professor of Medicine Harvard Medical School, Clinical Director of the Center for Neuro-Oncology Dana-Farber Cancer Institute



Therapeutic Challenges of GBM

- GBM is the most aggressive primary brain tumor characterized by rapid proliferation of undifferentiated cells, extensive infiltration and a high propensity to recur
- Blood Brain Barrier (BBB) blocks transport of large molecular therapies to the tumor
- Recurrent GBM patients have a compromised immune system following chemo-radiation which is further exacerbated by steroid use
- Tumor microenvironment (TME) comprises a majority of GBM tumor mass; the TME provides an immunosuppressive environment by supplying growth factors and nutrients to support tumor growth and survival¹.
- GBM is heterogeneous with a highly complex tumor biology
 - o IDH mutated vs. wild-type
 - o MGMT promoter methylated vs. unmethylated
- 1) Kennedy et al, JCO, 2013



Current Treatment Strategies for GBM are Ineffective



* Expression of the DNA repair protein O6-methylguanine-DNA methyltransferase (MGMT) is responsible for resistance to Temodar used in GBM treatment.



Treatments for GBM and rGBM

Very high Unmet Need - No available treatment options for GBM have a meaningful survival benefit

Newly Diagnosed GBM

- Treatments focus on preserving quality of life, neurological function, extending survival
- Standard of care (SOC) consists of:
 - Maximal resection possible
 - o Radiotherapy
 - \circ Temozolomide
 - o Gliadel
 - o Optune

Recurrent GBM*

- Virtually all patients relapse
- No defined SOC
- Therapies include:
 - o Avastin
 - \circ Lomustine
 - o Gliadel
 - o Optune
 - Salvage therapies (radiotherapy, temozolomide)
 - o Experimental therapies



^{*} Treatment options following recurrence are very limited and outcome generally unsatisfactory. The median overall survival (OS) is estimated to be 6-10 months with approved therapies

Key Prognostic Factors for GBM

CLINICAL	PROGNOSTIC ASSOCIATION				
FACTORS	FAVORABLE	POOR			
Younger Age	۲				
Older Age		X			
Higher KPS	۲				
Lower KPS		X			
Tumor resectability	۲				
Not eligible for resection		X			

GENETIC FACTORS	PROGNOSTIC ASSOCIATION			
	FAVORABLE	POOR		
Secondary GBM	۲			
Primary <i>de novo</i> GBM		X		
IDH gene Mutation	۲			
IDH gene Wild-type		X		
MGMT methylated	۲			
MGMT unmethylated		X		
IL4R Low-expression	۲			
IL4R Over-expression		X		



Primary de novo GBM is Associated with Poor Survival





Data of 340 patients with newly-diagnosed GBM were retrospectively analyzed. GBM type (*de novo* or secondary) was suggested to influence survival by univariate analysis.

No Surgery at Relapse Lowers Survival



Van Linde et al. J. Neurooncol, 2017

Data of 299 patients recurrent GBM were retrospectively analyzed. Different treatments were suggested to influence survival by univariate analysis.



High Steroid Use Negatively Impacts Survival



Overall Survival with respect to dexamethasone requirement from recurrent GBM subjects enrolled in the phase III with Best Standard of Care (BSC) chemotherapy (NCT00379470).



Unmethylated MGMT Promoter Associated with Poor Prognosis



Hegi et al. NEJM, 2005



Overall survival of 206 patients with newly diagnosed GBM for whom MGMT status could be evaluated irrespective of treatment assignment (RT or RT/TMZ).

GBM with *IDH* Wild-Type Status Associated with Aggressive GBM



Number and frequency of IDH1 and IDH2 mutations in gliomas and other types of tumors. Roman numerals in parentheses are the tumor grades according to histopathological and clinical criteria established by the World Health Organization.

Survival of adult patients with GBM with or without IDH gene mutations. Median survival was 31 months for the 14 patients with mutated IDH1/2, as compared with 15 months for the 115 patients with wild-type IDH1/2

Yan et al. NEJM, 2009

IL4R is Expressed in Majority of Brain Tumors, Including GBM

> 300 Patient Biopsies Analyzed Show IL-4R Over-Expression¹⁻⁷

Glioblastoma	Mixed Adult Glioma >83%	Mixed Pediatric Glioma 76%	Pediatric DIPG
Medulloblastoma	Adult Pituitary Adenoma 100%	Meningioma	Normal Brain Tissue 0%

- 1. Joshi BH, et. al. Cancer Res 2001;61:8058-8061.
- 2. Puri RK, et. al., Cancer Res 1996;56:5631-5637.
- 3. Kawakami M, et. al., Cancer. 2004 Sep 1; 101(5):1036-42.
- 4. Berlow NE, et al. PLoS One. 2018 Apr 5; 13(4):e0193565.

- 5. Joshi BH, et. al. British J of Cancer (2002) 86, 285 –291.
- 6. Chen L, et al. Neurosci Lett. 2007 Apr 24; 417 (1):30-5.
- 7. Puri S, et. al., Cancer. 2005 May 15; 103(10):2132-42.

High IL4R α Expression Predicts Poor Survival in GBM



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TME-Infiltrating MDSCs Express IL4R and Predict Poor Survival in GBM

TME-MDSCs show 12-fold increase in IL-4Rα expression compared to splenic myeloid cells



Surface expression of IL-4Ra on tumor-infiltrating and splenic CD11b+/Gr-1+ MDSCs from GL26 tumor-bearing mice.

Kamran N, et. al., (2017). Mol Ther 25:232-248

Dana-Farber



MDSC gene signature (based on the combined positive expression of CD11b, CD33, CD45, CD244, and CXCR2) negatively correlates with GBM patient prognosis. Statistical significance of survival was based on log-rank analysis. (N=112)

Otvos B et. al., (2016). Stem Cells 34:2026–2039

Prior Ph 3 Trials in GBM and rGBM

Failed Phase 3 Trials in rGBM with OS as Primary Endpoint (conducted between 2003 – 2019)

Agent (Sponsor)	Target/Class	Study Design	Control Arm	Total Subjects Enrolled
Edotecarin (Pfizer)	Topoisomerase I inhibitor	1:1 randomization	TMZ, Camustine, or LOM	118 (59 in SOC)
IL13-PE38QQR (INSYS Therapeutics)	IL13R-targeted toxin	2:1 randomization	Gliadel	296 (104 in SOC)
Bevacizumab (EORTC)	VEGF inhibitor	2:1 randomization	LOM	437 (149 in SOC)
Tumor Treating Fields (Novocure)	Device	1:1 randomization	Best active chemotherapy	237 (117 in SOC)
Toca 511 + Toca FC (Tocagen)	Retroviral vector	1:1 randomization	TMZ, LOM, or BEV	403 (202 in SOC)
VB-111 (VBL Therapeutics)	Angiogenesis inhibitor	1:1 randomization	BEV	256 (128 in SOC)
Nivolumab (BMS)	PD-1 inhibitor	1:1 randomization	BEV	369 (185 in SOC)



Overcoming the Pitfalls of Prior GBM Ph 3 Clinical Studies

- Ph 3 studies have less restrictive inclusion/exclusion criteria compared to Ph 2 due to need for faster enrolment
- False efficacy signal in Ph 2 (especially single arm studies) leading to Ph 3 efficacy failure
 - $_{\odot}$ For locally administered drugs, there was no method to ensure efficient drug delivery
 - o For orally or systemically administered drugs, BBB blocks transport of therapy to tumor
 - Absence of rational biomarkers to predict benefit
 - Inadequacy to recognize importance of the TME; need therapy to target both TME and the tumor
- A major contributor to the high failure rate is inadequate Ph 2 program that provides sub-optimal information for the "go/no go" decision to move to Ph 3 and the design of the Ph 3 trial



Clinical Efficacy of MDNA55 in rGBM

John H. Sampson, MD, PhD

Robert H. and Gloria Wilkins Distinguished Professor Dept of Neurosurgery and President of the Private Diagnostic Clinic Duke University School of Medicine



MDNA55: A Targeted Immunotherapy for GBM

MDNA55

Targets the IL4R, which is expressed in brain tumors and in the tumor microenvironment (TME), but not the healthy brain

Highly Selective

Avoids off-target toxicity

Disrupts the TME

By targeting IL4R positive cells found throughout the TME, MDNA55 unblinds the tumor to the body's immune system

Sustained Immune Memory Response

Anti-tumor immunity is initiated and remains active after MDNA55 is cleared

Targeting Domain Circularly Permuted Interleukin-4 (cplL-4)



Lethal Payload

Catalytic domain of *Pseudomonas* Exotoxin A (FDA approved Moxetumomab pasudotox)

> Efficient intracellular delivery of toxin payload





MDNA55-05 Phase 2b Study Design

Open-Label Single Arm Study in Recurrent GBM Patients (n=47) (NCT02858895)



High-Flow Image Guided CED Improves Distribution

PAST STUDIES 1st Generation CED



Inaccurate catheter placement Drug leakage due to backflow Inadequate tumor coverage

Image-guided catheter placement

New catheters prevent backflow

Real-time monitoring ensures tumor coverage

CURRENT STUDIES 2nd Generation High-flow CED



Saito and Tominaga (2012), Neurol Med Chir (Tokyo) 52, 531



MDNA55-05 Demographics and Safety

Patient Demographics	N=44		
Age (median, range)	55 years (34 – 77)		
Sex (Male)	27 / 44 (61%)		
KPS at Enrolment: 70, 80 90, 100	22 / 44 (50%) 22 / 44 (50%)		
De novo GBM	44 / 44 (100%)		
Poor candidates for repeat surgery	44 / 44 (100%)		
<i>IDH</i> Wild-type	37 / 37 (100%)		
Unmethylated MGMT	23 / 40 (58%)		
IL4R over-expression	21 / 40 (53%)		
Steroid use > 4mg/day	23 / 44 (52%)		
Max Tumor Diameter*	29.6 mm (8 – 59)		
# Prior Relapse: 1 , 2	35 (80%) , 9 (20%)		

MDNA55-05 Safety Profile

- No systemic toxicities
- No clinically significant laboratory abnormalities
- Drug-related AEs were primarily neurological/aggravation of pre-existing neurological deficits characteristic with GBM; manageable with standard measures.

Related AEs ≥ Grade 3 Occurring in ≥ 5% Subjects	Total N=47 [n (%)]
# of Subjects	10 (21.3)
Nervous system disorders	10 (21.3)
Brain Edema / Hydrocephalus	4 (8.5)
Hemiparesis	3 (6.3)
Seizure	3 (6.3)

*Based on central tumor assessments

Effect of MDNA55 Dose and IL4R Expression on Survival



Months Since MDNA55 Treatment

Duke University School of Medicine

MDNA55 Prolongs Survival Vs Eligibility-Matched External Control Arm (ECA)

2-Year Survival Rate > 20% in IL4RHi + IL4R^{Lo/HD} Subgroup



GROUP	N	mOS	OS-12	OS-24
MDNA55	32	14.5*	63%	24%
ECA*	40	7.0	18%	10%

* Survival calculated from date of relapse. Median OS from time of MDNA55 treatment is 14.0 months; OS-12 = 56%; OS-24 = 20%

 ECA comprised of patients meeting the same eligibility criteria of the Phase 2b study (≥ 18 yrs old, de novo GBM, 1st or 2nd relapse, not indicated for resection, KPS ≥ 70, IDH wild-type, Tumor size ≥1cm x ≤ 4cm, archived tissue from initial Dx) and received treatment at eligible relapse that included approved therapies (monotherapy or combination) for rGBM



MDNA55 is Effective in MGMT Promoter Unmethylated rGBM

MDNA55 is Potent in a Temozolomide-Resistant Population



GROUP	N	mOS	OS-12	OS-24
MDNA55 – <i>MGMT</i> Unmethyl	17	15.4*	71%	22%
ECA* – <i>MGMT</i> Unmethyl	11	6.2	9%	9%

* Survival calculated from date of relapse. Median OS from time of MDNA55 treatment is 14.9 months; OS-12 = 65%; OS-24 = 22%

 ECA comprised of patients meeting the same eligibility criteria of the Phase 2b study (≥ 18 yrs old, de novo GBM, 1st or 2nd relapse, not indicated for resection, KPS ≥ 70, IDH wild-type, Tumor size ≥1cm x ≤ 4cm, archived tissue from initial Dx) and received treatment at eligible relapse that included approved therapies (monotherapy or combination) for rGBM



Low-Dose Transient Avastin Following MDNA55 Treatment Extends Survival in IL4R^{Hi} + IL4R^{Lo/HD} Subgroup



GROUP	Ν	mOS	OS-12	OS-24
MDNA55 – On-study Low Dose Avastin Use	8	18.6	63%	38%
ECA– No On-study Avastin Use	7	6.1	43%	NE

- In the higher concentration cohorts (6 and 9 µg/mL; n=17), transient use of low-dose Avastin (5 mg/kg q2w or 7.5 mg/kg q3w) was allowed for management
 of symptom control and/or steroid sparing.
- Median number of cycles of Avastin was 3 cycles in both groups.
- In the higher concentration cohorts, 10 patients had Low IL4R, 5 patients had High IL4R, and 2 patients were unknown.

Tumor Control Following Pseudo-Progression: IL4R^{Hi} + IL4R^{Lo/HD} Subgroup



Shown are tumor responses assessed from nadir based on radiologic imaging only



Prolonged Progression-Free Survival After MDNA55 Treatment

Increase of > 100% in PFS-12 Compared to Standard Therapies

Therapy	N	mPFS	PFS-12			
MDNA55 Groups						
All Subjects	41	3.6*	27%			
IL4R ^{Hi} + IL4R ^{Lo/HD}	32	3.0*	24%			
Approved Therapies						
Avastin ¹	85	4.2	10%**			
Avastin ²	48	4.0	10%**			
Lomustine ³ 149 1.5 2%**						
Avastin + Lomustine ³	288	4.2	10%**			

* Assessed by mRANO criteria using radiologic data only

** Approximations based on Kaplan-Meier curve.

1) Friedman et al., 2009; 2) Kreisl et al. 2008, 3) Wick 2017



Encouraging Survival Results Compared to Approved Therapies



Benefits of a Propensity Matched External Control Arm (ECA)

Ruthie Davi, PhD Vice President, Data Science at Acorn AI, a Medidata company



Retrospective Matched-External Control Arm Study

For Comparison of Survival Against MDNA55-05 Study



Construction of the ECA

Baseline Characteristics used for Propensity Matching

- Age
- Sex
- KPS
- MGMT methylation status
- IL4R expression level
- Time from initial diagnosis to relapse
- Number of prior relapses
- Extent of resection at initial diagnosis
- Tumor size at relapse
- Tumor location at relapse
- Steroid use prior to treatment

STEP 1: Data preparation: data feasibility and quality, mapping, standardization, covariates

STEP 2: Estimate propensity scores: statistical models

STEP 3: Propensity score balancing algorithm - weighting

STEP 4: Evaluation of balance in baseline characteristics

STEP 5: Estimate treatment effect (outcome analysis), e.g., survival analysis for overall survival



Weighted Baseline Characteristics are Well Matched





Baseline Demographic and Disease Characteristics





Weighted Survival Analysis: All-Comers



Propensity score weighted estimates:

Group	Median (months)		Log- p	rank test -value
MDNA55 (n=43)	12.4	12.4		1426
ECA (n=40.8)	7.2		0.1420	
Comparison	Hazard Ratio	d Ratio 95% Confidence		ence Limits
MDNA55 vs ECA	0.634		0.392	1.026

Weighted Survival Analysis: IL4R^{Hi} + IL4R^{Lo/HD} Population



Adjusted Product-Limit Survival Estimates

Propensity score weighted estimates:

Group	Median (months)		Group Median (months)		Log- p	-rank test -value
MDNA55 (n=32)	15.7	5.7		1477		
ECA (n=33.86)	7.2		0.1177			
Comparison	Hazard Ratio	9	95% Confidence Limits			
MDNA55 vs ECA	0.523		0.300	0.913		

Incorporation of an ECA in a Planned rGBM Registration Trial

Amy McKee, M.D. VP, Regulatory Consulting Services



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Challenges Associated with a Traditional Randomized Controlled Trial (RCT) in rGBM

- Current NCCN guidelines specify "efficacy of SOC for rGBM is suboptimal and consideration of clinical trials is highly encouraged"
- Very high unmet need and dismal prognosis result in patients seeking experimental therapy in a trial where there is no risk of randomization to a control SOC arm
- > Blinding may be unfeasible (i.e. due to method of administration) inability to blind undermines the purpose of randomization
- Withdrawal prior to study therapy initiation of a significant percentage of participants randomized to the control arm may jeopardize the validity of the control arm experience and thereby undermine the value of a randomized trial design for the trial in question.
- Disproportionate discontinuation from SOC arm has been reported as a cause of study failure in GBM studies



Planned MDNA55 Phase 3 Trial – Hybrid Design with ECA



* Pooled control arm

SOC therapies allowed:

- Bevacizumab (Avastin®)
- Lomustine (CCNU, CeeNU[®], Gleostine[™])
- Temozolomide (Temodar®)
- Tumor Treating Fields (Optune®)
- Radiation Therapy



Planned MDNA55 Phase 3 Trial (cont.)

ECA Arm Details

- Subjects for ECA will be identified at same sites enrolling in MDNA55 treatment arm to reduce variability.
- ECA subjects will be required to have been treated for recurrence within 5 yrs to ensure contemporaneity.
- Subject will not be eligible for ECA unless all data capture requirements are met to mitigate risk of missing data.
- All efficacy endpoints including survival for the ECA will remain blinded until all data standardization and propensity score balancing has been completed.

Study Assumptions

- 90% power
- HR of MDNA55 vs. pooled control = 0.65
- 2-sided alpha = 0.05
- Effect size = 4.6 months in mOS time
- Drop-out rate = approximately 5%



Summary

- First randomized hybrid control arm with an ECA component for a registration trial in oncology
- > Trial design retains many elements preferred by FDA for a registration trial
 - > Large proportion of patients randomized
 - > OS endpoint
 - > All data elements required for ECA
- > Keys to FDA's acceptance of trial design
 - > Significant unmet medical need
 - > No substantive change in SOC for rGBM over the time period covered in the ECA
 - > Near-contemporaneous ECA by limiting to last 5 years
 - > Large effect size demonstrated in Phase 2b study
 - > Buy-in and, in fact, encouragement from FDA statistical review group



Medicenna Overview

Fahar Merchant, Ph.D. President & CEO, Medicenna Therapeutics



Expanding Pipeline Anchored by MDNA55 and MDNA11

Candidate	Indication	Discovery	Preclinical	Phase 1	Phase 2	Pivotal
MDNA55 IL-4 Toxin Fusion	Recurrent Glioblastoma (GBM)					
MDNA11 IL-2 Super Agonist	Cancer Immunotherapies					
MDNA413 IL-4/13 Super Antagonist	Solid Tumors					
MDNA132 IL13Rα2 selective IL-13	Solid Tumors					



MDNA55 Trial Design and Market Size Bolster Partnership Strategy

Market Size Estimated at \$2 Billion Annually

Tumor Type	Annual Incidence ¹	Projected Market ²
Recurrent Glioblastoma (rGBM)	33,300	\$650M
Metastatic Brain Cancer ³	91,500	\$1.30B
Pediatric Glioma	3,800	\$50M
Total	133,500	\$2.0B



Brain Cancer Next Steps

Pursue Partnership Strategy for Further Development

1. GLOBOCAN 2012 http://globocan.iarc.fr/Default.aspx

2. U.S., Europe and Japan

3. Metastatic Brain Cancer numbers from colon, breast and kidney cancer only



MDNA11: IL-2 Super Agonist for Cancer Immunotherapy

Next Steps

MDNA11 Next Steps	
Pre-CTA meeting (Complete)	





Initiate Phase 1 clinical trial (Mid 2021)



Report safety, PK/PD and biomarker results from Phase 1 monotherapy study (End 2021)

Advantages of Initiating Phase 1 in the UK



Dose escalation studies can begin at a higher initial dose



Increased prevalence of immune checkpoint inhibitor naïve patients



Trial can expand into the United States after completion of the dose escalation portion



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CANCER PREVENTION & RESEARCH INSTITUTE OF TEXAS



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