

J.P. Morgan 39th Annual Healthcare Conference

Gregory A. Demopulos, M.D. Chairman & Chief Executive Officer January 13, 2021





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Highly Diversified Pipeline to Drive Sustainable Growth



Omeros Controls All Economic Rights Across Its Programs and Platforms

	Program / (Candidate)	Molecule	Targeted Disease	Discovery	Pre- clinical	Phase 1	Phase 2	Phase 3	FDA Approval
Franchise (iCAB)	MASP-2, lectin pathway (narsoplimab (OMS721))	Ab	Stem Cell Transplant-Associated TMA					->	
			IgA Nephropathy			:		-	
			Atypical Hemolytic Uremic Syndrome			:		-	:
			Lupus Nephritis & Other Renal Diseases			:	>		
Franc			COVID-19				\Rightarrow		
Complement	MASP-3, alternative pathway (OMS906)	Ab	PNH and a Wide Range of Other Alternative Pathway Disorders						
Comp	MASP-2 (OMS1029)	Ab	Long-Acting 2 nd Generation Antibody Targeting Lectin Pathway Disorders		-				
	MASP-2, MASP-3, MASP-2/3	SM	Disorders of the Lectin and Alternative Pathways of Complement		-				
Addiction	PDE7 (OMS527)	SM	Addictions and Compulsive Disorders; Movement Disorders			-			
Addio	PPARγ (OMS405)	SM	Opioid and Nicotine Addiction				>		
Immuno- oncology	GPR174	SM	Cancer	-					
Imm	GPR161	SM	Cancer						
Other	GPCR Platform	SM	Immunologic, immuno-oncologic, CNS, Metabolic, CV, Musculoskeletal & Other Disorders	-					
0	Antibody Platform	Ab	Metabolic, CV, Oncologic, Musculoskeletal & Other Disorders	-					



Narsoplimab - MASP-2 Inhibitor



Narsoplimab and Regulatory Status

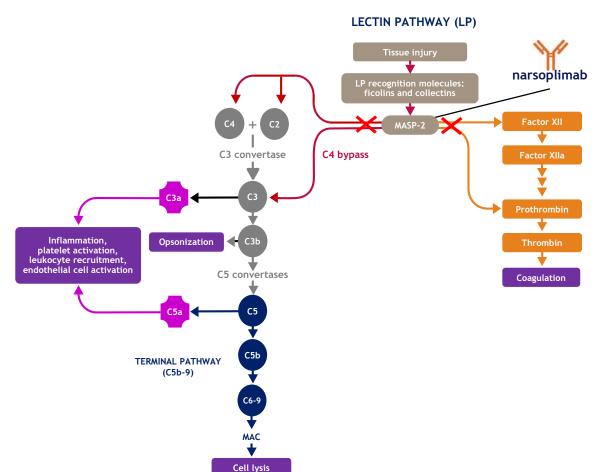


- Narsoplimab is a fully human IgG4 antibody against MASP-2, the effector enzyme of the lectin pathway of complement
- Completed pivotal clinical program in hematopoietic stem cell transplant-associated TMA (HSCT-TMA)
- Completed submission of rolling BLA for HSCT-TMA
- Enrolling 2 additional Phase 3 clinical programs IgA nephropathy (IgAN) and atypical hemolytic uremic syndrome (aHUS)
- ~250 patients and healthy volunteers have been dosed with narsoplimab
- No significant safety concerns have been observed
- FDA has granted narsoplimab Breakthrough Therapy designation in both HSCT-TMA and IgAN
- Broad therapeutic areas for lectin pathway inhibition:
 - Endothelial injury syndromes
 - Proteinuric diseases
 - Ischemia-reperfusion injury



Narsoplimab Targets MASP-2 and the Lectin Pathway of Complement





Narsoplimab

- Fully human monoclonal antibody
- Binds to mannan-binding lectinassociated serine protease-2 (MASP-2), the effector enzyme of the lectin pathway of complement
- Leaves intact the effector function of the adaptive immune response, important for fighting infection
- Blocks MASP-2-mediated coagulation (conversion of prothrombin to thrombin and activation of Factor XII to XIIa) and activation of kallikrein
- Only agent that targets MASP-2 and blocks the lectin pathway

Krarup A et al. 2007. PLoS ONE 2)7): e623; Gulla KC et al. Immunology 2009; 129, 482-495; Demopoulos G et al. W02019246367 (US20200140570A1). World International Property Organization. 26 Dec 2019; Kozarcanin H et al. Journal of Thrombosis and Haemostasis 2016. 14: 531-545.



Narsoplimab in Hematopoietic Stem Cell Transplant-Associated Thrombotic Microangiopathy



HSCT-TMA - Serious and Potentially Fatal Complication of HSCT Caused by Endothelial Injury



25,000 - 30,000 annual allogeneic HSCT in the US and EU



No approved therapies in HSCT-TMA



incidence of TMA in allogeneic HSCT



of patients with HSCT-TMA display at least one

high-risk feature



of severe cases of HSCT-TMA can be **fatal**



HSCT-TMA Can Lead to Extended Hospitalizations, Intensive Care Unit Stays and Patient Death







Intestinal HSCT-TMA (iTMA)

- Ischemic colitis (severe pain)
- Intestinal bleeding
- Histologic TMA features
- Bowel strictures







Pulmonary HSCT-TMA

- Acute hypoxemia (ARDS)
- Interstitial bleeding
- Pulmonary hypertension
- Heart failure





CNS HSCT-TMA

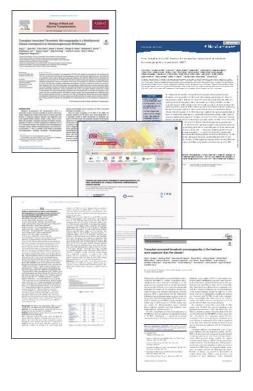
- Seizures associated with PRES
- CNS bleed
- Hypertension induced
- Endothelial injury





Skin HSCT-TMA

- **Vasculitis**
- Purpura
- Vessel thrombosis
- Complement deposits



1. Fibrinoid debris or intravascular thrombus, 2. Denuded endothelial cells, 3. Interstitial hemorrhage, 4. Hemosiderin deposits

Slide used with permission from Sonata Jodele, MD. Jodele S et al. Blood Rev. 2015;29(3):191-204. Jodele S et al. Transfus Apher Sci. 2016;54(2):181-90.

Dandoy, C et al. Biol Blood Marrow Transplant. 2020. 26(S92); Elfeky, R et al. Blood Adv. 3 June 2020; Vaughn, J et al. Bone Marrow Transplant. 9 November 2018; Li, A et al. Biol Blood Marrow Transplant 2019. 25 (570-576); Roque, A et al. EHA Library May 2019. 268219.



Narsoplimab In HSCT-TMA: Pivotal Study



Study Population

- Single-arm, open-label study of high-risk HSCT-TMA patients
- Protocol specified that patients receive narsoplimab once weekly for ≥ 4 weeks
- 93% of the trial population had multiple risk factors for poor outcomes

Demographics	N=28	
Mean & median age (years)	48	
Male Gender, n (%)	20 (71.4%)	
Malignant underlying disease	27 (96.4%)	
Risk factors:		
Presence of GVHD, n (%)	19 (67.9%)	
Significant infection, n (%)	24 (85.7%)	
Pulmonary dysfunction (%)	5 (17.9%)	
Neurological dysfunction, n (%)	16 (57.1%)	
Renal dysfunction	21 (75.0%)	
Multi-organ involvement, n (%)	14 (50.0%)	

Efficacy Measures

- Primary Endpoint: Response as assessed by clinically meaningful improvement in TMA laboratory markers and organ function
 - 15% complete response rate is the FDAagreed threshold for primary endpoint
- Secondary Endpoints: 100-day survival and change from baseline in TMA lab measures

Key Findings

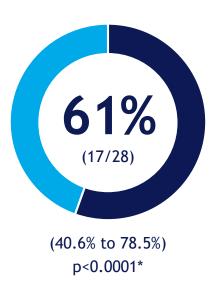
- Most narsoplimab-treated patients achieved a complete response, exceeding the targeted threshold for the primary efficacy endpoint
- 100-day survival was similarly impressive across all groups (responders, per-protocol, and intent-to-treat)
- Narsoplimab was well tolerated in this very sick population with multiple comorbidities
- No safety signal observed: observed adverse events were comparable to those typically seen in post-transplant population
- 21% of patients died during the trial due to causes common in HSCT



Complete Response Rates (%)

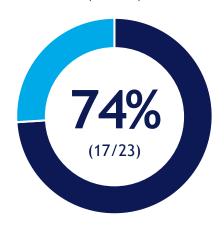






Patients treated per protocol (≥ 4 weeks of dosing) (n=23)

(95% CI)



(51.6% to 89.8%) p<0.0001*

 15% is the FDA-agreed efficacy threshold for the primary endpoint (i.e., the complete response rate) in the clinical trial

 $[\]ensuremath{^*}$ Exact two-sided p-value for testing response rate equal to 15%



Complete Response by Subgroup (%)

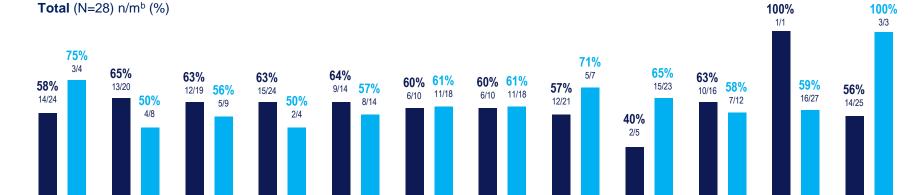


Respondersa

< 65 ≥ 65

Age

(years)



No

Acute

graft-versus-

host disease

Yes

Yes

No

Significant

infection

Yes

No

Multiple

organ TMA

involvement

Male Female

Sex

OMS721-TMA-001. A Phase 2 Trial. Data on file; Rambaldi A et al. EHA Library. June 15, 2018. Abstract nr PF724; Rambaldi, A et al. European Hematology Society. Abstract S262. 2020.

No

Yes

Mismatched

donor

≤ 20 > 20

Baseline

platelet

counts (10^9/L) Yes No

Renal

dysfunction

at baseline

No

Pulmonary

dysfunction

at baseline

Yes

Yes No

Neurological

dysfunction

at baseline

Yes No

Gastrointestinal

dysfunction

at baseline

Yes

Transfusions

within two

weeks prior to

or on the first narsoplimab dose date

^a A responder is defined as achieving improvement in TMA markers and either improvement in organ function or freedom from transfusion. Patients whose response cannot be determined are considered non-responders.

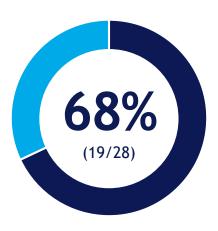
^b m is the number of patients in the corresponding subgroup.



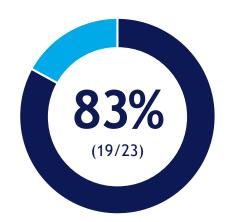




All treated patients (N=28)



Patients treated
per protocol
(≥ 4 weeks of dosing) (n=23)



Complete responders (n=17)





Patient Survival with Narsoplimab



Kaplan-Meier Plot of Overall Survival for HSCT-TMA

Median survival for the full analysis population was 274 days

(95% CI) (103, NE)

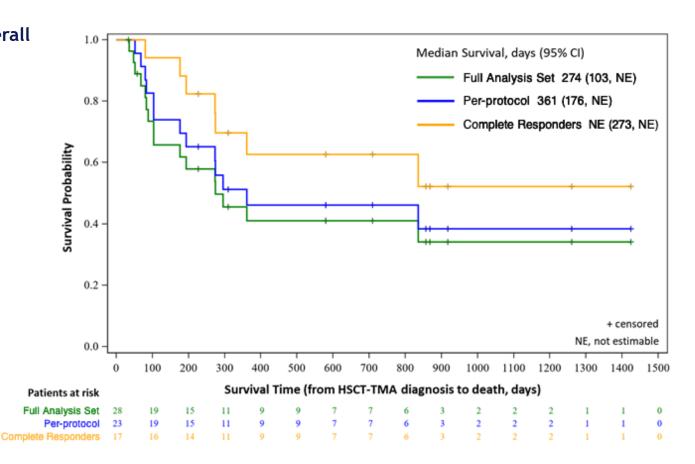
Median survival for the per-protocol population was 361 days

(95% CI) (176, NE)

Median survival for the responder population was not estimable

(95% CI) (273, NE)

Median survival is estimated by Kaplan-Meier method. 95% confidence interval for median survival is calculated using complementary loglog transformation.





Safety and Tolerability: Most Common Adverse Events in >15% of Patients



- Narsoplimab was well tolerated in this very sick population with multiple comorbidities
- The most commonly reported adverse events were nausea, vomiting, diarrhea, hypokalemia, neutropenia and fever
- The observed adverse events are comparable to those typically seen in the post-transplant population
- 6 patients died during the trial due to causes common in HSCT

Preferred Term, n (%)	(N = 28)		
Any Event	27 (96.4)		
Pyrexia	10 (35.7)		
Diarrhea	9 (32.1)		
Vomiting	9 (32.1)		
Nausea	7 (25.0)		
Neutropenia	7 (25.0)		
Fatigue	6 (21.4)		
Hypokalemia	6 (21.4)		
Back pain	5 (17.9)		



Regulatory and CMC Milestones for Narsoplimab in HSCT-TMA



Narsoplimab in HSCT-TMA: Moving Rapidly Toward Global Regulatory Approvals

- Breakthrough therapy designation from FDA
- Orphan Drug designation from FDA and from EMA
- BLA under review by FDA submitted mid-November
- MAA submission is in preparation for submission to EMA; targeting 1H 2021 for completion
- Drug substance and drug product process validation lots successfully completed
- More than sufficient supply of drug product for launch



Narsoplimab in HSCT-TMA Launch Readiness Milestones



Engagement

Comprehensive engagement plan with top leaders from US and international transplant centers

- ✓ Introduce Omeros as a potential new partner in the transplant market
- ✓ Increase awareness of HSCT-TMA
- ✓ External steering committee establishing guidelines for diagnosis and treatment

Education

- ✓ Initiation of educational disease awareness campaign focusing on HSCT-TMA pathogenesis and unmet need
- ✓ International digital and print campaign
- ✓ Significant 2020 presence at US/EU hematology and transplant congresses

Value

Robust value framework to demonstrate clinical and financial value to global payers and providers

- ✓ Pricing strategy to ensure broad access across provider segments
- ✓ HEOR/RWE plan reduction in post-HSCT complication costs; improved outcomes
- ✓ Convenient route of administration in inpatient and outpatient settings
- ✓ Pursuing coding strategy to ensure seamless access to narsoplimab, if approved (ICD-10, NTAP, J-code, etc.)

Operations

Organizational launch readiness

- ✓ Heads of national sales, medical science liaisons and advocacy already hired
- ✓ US Sales force hiring process initiated
- ✓ Long-term commercial manufacturing agreement with Lonza executed
- ✓ Commercial lots successfully manufactured

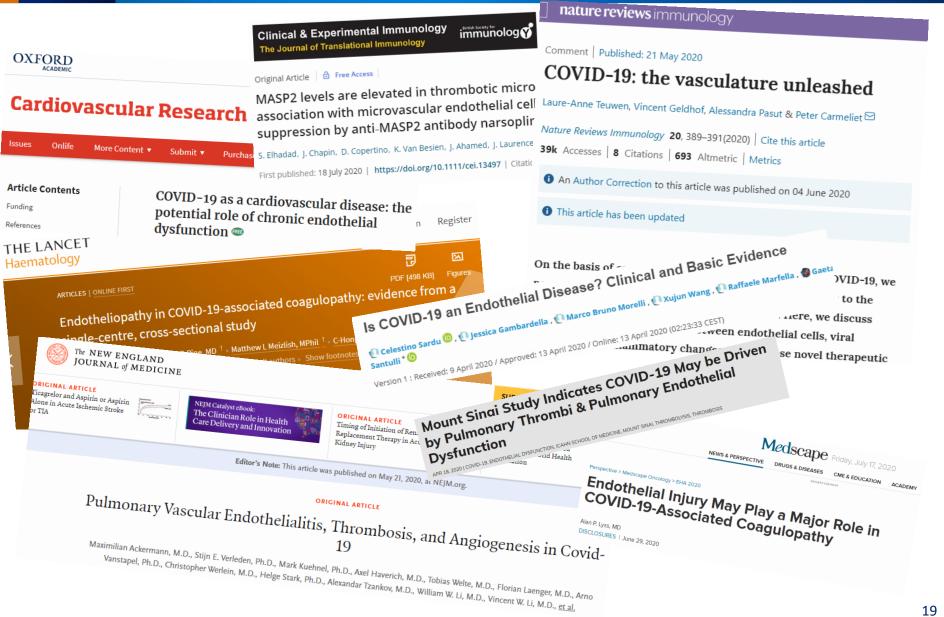


Narsoplimab for the Treatment of COVID-19-related ARDS Requiring Mechanical Ventilation



Role of Endothelial Injury in COVID-19 Published Across Numerous Peer-reviewed Journals







Endothelial Injury with Complement Activation is Central to Pathophysiology of HSCT-TMA and COVID-19 OMEROS

- Once endothelial injury occurs, pathophysiology of HSCT-TMA and COVID-19 are similar
- Endothelial injury activates the lectin pathway of complement
- In HSCT-TMA, endothelial injury is caused by conditioning regimen, immunosuppressants,
 GVHD and infection
- In COVID-19, endothelial injury is caused by direct viral infection
- MASP-2, the lectin pathway's effector enzyme, is bound by the nucleocapsid and spike proteins of SARS-CoV-2, activating the lectin pathway that leads to amplification of underlying cellular injury and induces cytokine response
- Viral load has no correlation in COVID-19 patients to clinical status or disease severity

Components of COVID-19:

- Complement activation
- Inflammation
- Coagulation

Narsoplimab inhibits all 3







Comparator	COVID-19	HSCT-TMA		
Lectin-Pathway Activation from Endothelial Damage	✓	✓		
Cause of Endothelial Injury	Viral	Conditioning regimen, Immunosuppressants, GVHD, infection		
MASP-2 Activation	✓	✓		
Multi-Organ TMA	✓	✓		

• ~70 patients have been dosed with narsoplimab across the two endothelial injury syndromes



Data from Cohort 1 of the COVID-19 Study in Italy¹



Demographics and Treatment Summary

Demographic	Median (range) or n (%)		
Age	57 years (47-63)		
Male sex	5 (83%)		
Weight	86 Kg (82-100 Kg)		
Comorbidities	Diabetes (n=1); Hypertension (n=1); Dyslipidemia (n=2); Obese/Overweight (n=6)		

Treatment Summary	n (%) or Median (range)		
Timing of narsoplimab treatment from start of CPAP oxygen support			
Within 24 hours	4 (67%)		
Within 48 hours	2 (33%)		
Time from hospital admission to treatment	2 days (1-4)		
Duration of follow-up (to date) after first dose	27 days (16-90)		

All patients recovered, survived and were discharged - 2 retrospective control groups with similar entry criteria and baseline characteristics had mortality rates of 32% and 53%

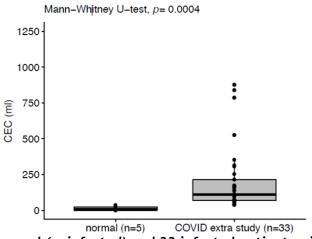
¹Rambaldi, A. et al. Endothelial injury and thrombotic microangiopathy in COVID-19: treatment with the lectin-pathway inhibitor narsoplimab. *Immunobiology* https://doi.org/10.1016/j.imbio.2020.152001 (2020).



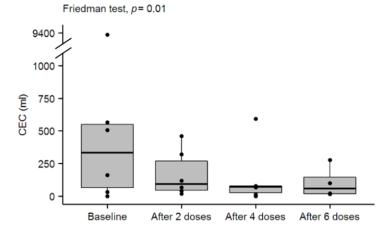


Data from Cohort 1 of the COVID-19 Study in Italy

Evidence of Endothelial Damage (CEC Counts) in COVID-19

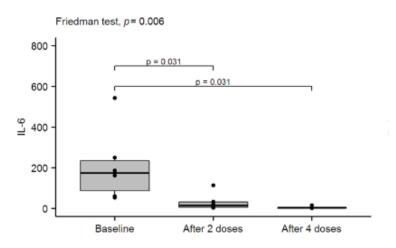


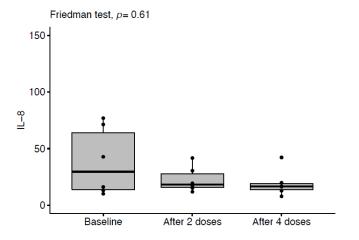
5 normal (uninfected) and 33 infected patients without Narsoplimab



6 infected patients treated with Narsoplimab

IL-6 / IL-8 Levels Improved in all 6 Patients Treated with Narsoplimab



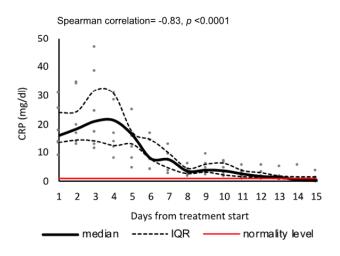




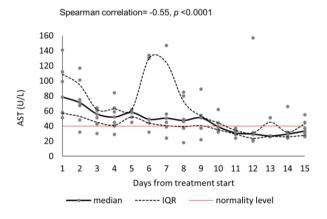


Data from Narsoplimab-treated COVID-19 Patients

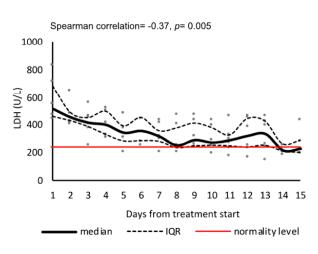
C-Reactive Protein Improved in all 6 Patients



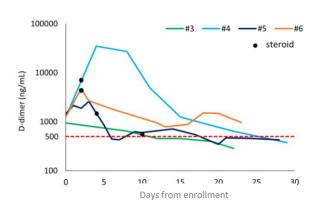
Aspartate Aminotransferase (AST) Improved in all 6 Patients

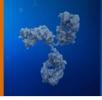


Lactate Dehydrogenase Improved in all 6 Patients



D-Dimer Improved in all Assessed Patients





Narsoplimab Could Have a Role in Treatment of "Long-Hauler" COVID-19 Patients



- Published studies from multiple international research groups now show that "recovered"
 COVID-19 patients have high incidence of longer-term sequelae e.g., cognitive impairment/CNS, cardiac, pulmonary, multi-organ disorders
- COVID-19 patients treated with narsoplimab show no observed clinical or laboratory evidence of sequelae at 5-6 months after treatment



At 5-6 Month Follow-Up, All Cohort 1 Patients Are Without Clinical or Laboratory Evidence of Sequelae



Laboratory Findings	Baseline	Last Evaluation (5-6 Mos. Post-Discharge)
White cell count - per mm³, median (range)	8335 (6420-10,120)	7320 (3200-8770)
> 10,000 per mm³ - no. (%)	2 (33)	0 (0)
< 4000 per mm³ - no. (%)	0 (0)	1 (17)
Lymphocyte count - per mm³, median (range)	875 (410-1290)	2815 (810-3780)
Platelet count - x 10³ per mm³, median (range)	282 (199 -390)	238 (170-354)
Hemoglobin - g/dL, median (range)	13.4 (13.2-14.1)	14.8 (13.4-15.8)
Distribution of other findings (laboratory reference ranges)		
C-reactive protein (0.0-1.0 mg/dL)	14 (9.5-31.3)	0.15 (0-0.5)
Lactate dehydrogenase (120/246 U/L)	518.5 (238-841)	212 (119-249)
Aspartate aminotransferase (13-40 U/L)	78.5 (51-141)	18 (12-29)
Alanine aminotransferase (7-40 U/L)	73 (37-183)	22.5 (20-67)
Creatinine (0.3-1.3 mg/dL)	0.85 (0.38-1.33)	0.94 (0.51-1.07)
D-dimer (< 500 ng/mL)		
< 190 - no. (%)	0 (0)	3 (50)
> 190 - median (range)	1250.5 (943-1454)	324 (202-390)

Clinical status at last evaluation of all 6 patients - no evidence of COVID sequelae



Experience with Narsoplimab Following Initial Cohort of Bergamo Patients



- Have continued treating patients in the US and in Bergamo under compassionate use
 - > All additional patients have been severely ill prior to treatment with narsoplimab
 - All intubated with majority initiating narsoplimab multiple days after intubation
 - All had failed other therapies prior to initiating narsoplimab
 - Similarly striking outcomes to those in the initial Bergamo study
- COVID-19 patients treated with narsoplimab develop appropriately high anti-SARS-CoV-2 antibodies
- Advancing discussions with BARDA, NIAID, NCATS and the Biden-Harris Transition COVID-19 Advisory Board
- In discussions with international regulatory authorities regarding narsoplimab for COVID-19
- Now part of the I-SPY COVID-19 TRIAL: An Adaptive Platform Trial for Critically Ill Patients

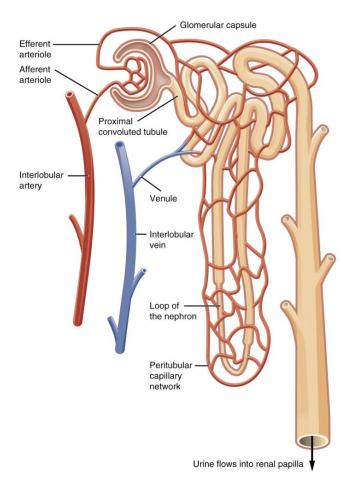


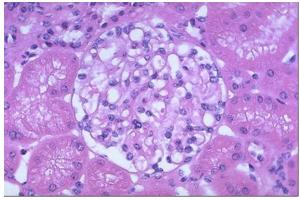
Narsoplimab in IgA Nephropathy

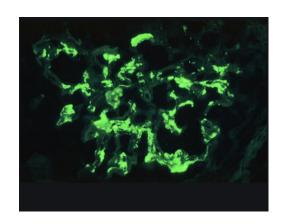


Role of Lectin Pathway in IgAN









Nephrol Dial Transplant (1999) 14: 881–886

Original Article

Glomerular deposition of mannose-binding lectin in human glomerulonephritis

Karl Lhotta¹, Reinhard Würzner² and Paul König¹

Nephrol Dial Transplant (1998) 13: 1984-1990

Nephrology
Dialysis
Original Article

Nephrology
Transplantation

Glomerular deposition of mannose-binding lectin (MBL) indicates a novel mechanism of complement activation in IgA nephropathy

Morito Endo¹, Hiroyuki Ohi¹, Isao Ohsawa¹, Takayuki Fujita¹, Misao Matsushita² and Teizo Fujita²

Mesangial IgA2 Deposits and Lectin Pathway—Mediated Complement Activation in IgA Glomerulonephritis

Satoshi Hisano, MD, Misao Matsushita, PhD, Teizo Fujita, MD, Yuzo Endo, MD, and Shigeo Takebayashi, MD



Original Paper

Nephron 1998.00.408-413 Anapola Janc 20, 1908

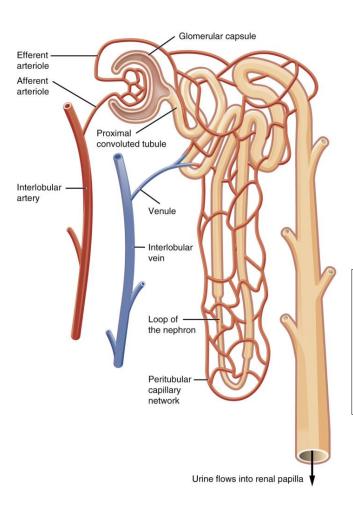
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Kenich Shikatara*
Inili Wafat*
Hilliam Sogimono*
Yassahi Shikatara*
Tohkuluk Kenenaka*
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Alexandra Shikatara*
Anapola Janc 20, 1908

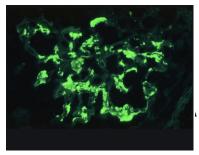
Department of Medican II, Okayama, and Inili Wafata Shikatara*
Nephropathy

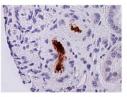


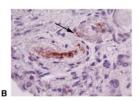
Thrombotic Microangiopathy and IgAN

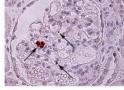


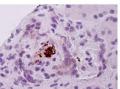












CLINICAL RESEARCH www.jasn.org

A Clinicopathologic Study of Thrombotic Microangiopathy in IgA Nephropathy

Khalil El Karoui,*† Gary S. Hill,* Alexandre Karna;* Christian Jacquot,* Luc Moulonguet,⁵ Olivier Kourilsky,¹ Véronique Frémeaux-Bacchi,* Michel Delahousse,** Jean-Paul Duong Van Huyen,* Alexandre Loupy,* Patrick Bruneval,* and Dominique Nochy*

*Department of Pathology, Höpital Européen Georges Pompidou, Paris, France: "Institut National de la Samé et de la Recherche Médicale INSERM U845, Höpital Necker-Efrants Malades, Paris, France; "Department of Nephrology, Höpital Européen Georges Pompidou, Paris, France; "Department of Nephrology, Höpital Surpéen Georges Pompidou, Paris, France; "Department of Nephrology, Höpital Surbernation, France; "Department of Immunology, Höpital Surbernation, Paris, Erance; "Department of Immunology, Höpital Europe, Bourges Paris, Bourges, France; "Department of Immunology, Höpital Europe, Bourges, France; "Department of Nephrology, Höpital Eorup, Suresse, France

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dat 18.1999/solaylifati

Glomerular endothelial activation, C4d deposits and microangiopathy in immunoglobulin A nephropathy

Hernán Trimarchi 🎱 ¹ and Rosanna Coppo²

Epidemiology and Pathophysiology of Glomerular C4d Staining in Native Kidney Biopsies

Cinthia B. Drachnberg¹, John C. Papadimiriou¹, Preeti Chandra², Abdolreza Harrian², Susan Mendley², Matthew R. Weif² and Mario F. Rubin²

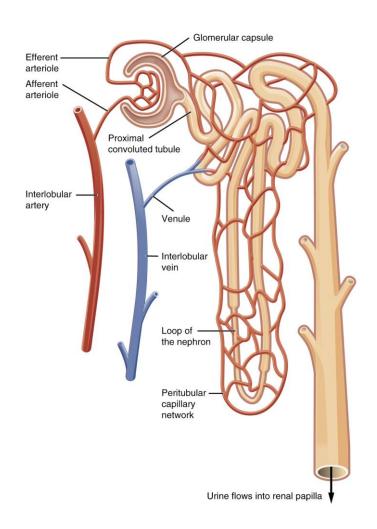
Department of Prelimings, University of Maryland School of Medicine, Ballionov, Maryland, USA, ²Department of Medicine, Division of Regulation, Demark of Medicine, Maryland, USA, ²Department of Preferrence, Division of Regulation, Demark of Medicine, Maryland, USA, ³Department of Preferrence, Division of Regulation, Demark of Medicine, Maryland, USA, ³Department of Preferrence, Division of Regulation, Demark of Medicine, Maryland, USA, ³Department of Preferrence, Division of Regulation, Demark of Medicine, Maryland, USA, ³Department of Preferrence, Division of Regulation, Demark of Medicine, Ballonov, Maryland, USA, ³Department of Preferrence, Division of Regulation, Demark of Medicine, Ballonov, Maryland, USA, ³Department of Preferrence, Division of Regulation, Demark of Regulation, Demark

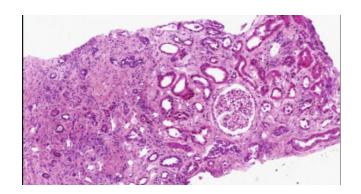
Hospital, Turin, Italy



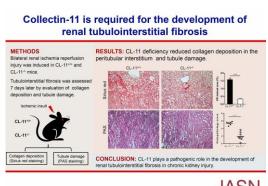
Tubulointerstitial Fibrosis in IgAN













Narsoplimab Clinical Program in IgAN



Phase 2 Clinical Trial

- Substudy 1: Narsoplimab in patients with IgAN, lupus nephritis, C3 glomerulopathy and membranous nephritis, all who were receiving treatment with corticosteroids
- Substudy 2: Narsoplimab in patients with IgAN who were not receiving corticosteroids

Phase 2 Trial Results

- Across the 2 studies, median proteinuria reduction was 60-70% and eGFR stabilized
- 4 of 5 lupus nephritis patients showed ~70% decrease in 24-hour urine protein
- No treatment-related serious adverse events (SAEs) were observed
- Manuscripts published
 - J. Barratt and R. Lafayette, MASP-2 inhibition as a potential strategy for the management of IgA nephropathy, Drugs of the Future 2020, 45(6): 389-396
 - R. Lafayette, et. al., Safety, Tolerability, and Effect of Narsoplimab (OMS721), a Novel MASP-2 Inhibitor for the Treatment of IgA Nephropathy, Kidney International Reports 2020, 5(11), 2032-2041



Summary of ARTEMIS-IGAN Phase 3 Trial - Enrolling at over 100 Sites Globally



Overview

- Phase 3 randomized, double-blind, placebo-controlled trial of narsoplimab in patients with IgA nephropathy
- Planned enrollment primary endpoint = 280 patients (140/arm)
 - High-Risk Subset (≥2g UPE) = 156 patients (78/arm)

Inclusion Criteria

- Biopsy-confirmed diagnosis of IgAN within 8 years prior to screening
- Proteinuria of >1 g/day within 6 months prior to screening or uPCR >0.75 by spot urine at screening
- Mean of two proteinuria measurements >1 g/day at baseline
- eGFR of ≥ 30mL/min/1.73 m² at screening and baseline

Efficacy Measures

- Primary efficacy endpoint: Change from baseline 24-hour urine protein excretion (UPE g/day) at 36 weeks from baseline for **EITHER** the entire population or the subset of "high-protein" spillers
- Secondary efficacy endpoints include rate of change from baseline in eGFR



Regulatory Milestones for Narsoplimab in IgAN



Narsoplimab: Advancing Toward Global Regulatory Submissions in IgAN

- Breakthrough Therapy designation from FDA
- Orphan Drug designation from FDA and from EMA
- First and only IgAN investigational treatment to receive breakthrough therapy designation
- Potential to seek full or accelerated approval on proteinuria alone in either of the overall or high-protein-spiller populations
- Over 100 trial sites activated and enrolling for Phase 3 trial in US, EU, Australia, Canada and Asia; additional sites being activated
- Enrollment challenging due, in good part, to COVID-19 working to add sites in China but data read-out will be delayed beyond 2021



OMIDRIA® (phenylephrine and ketorolac intraocular solution) 1% / 0.3%



OMIDRIA® Ophthalmological Surgery



- First and only FDA-approved intraocular product to prevent miosis and to reduce postoperative ocular pain in both adult and pediatric patients
- Used in over 1 million cataract procedures without any safety concerns
- Strong post-launch ("real-world") clinical data
- On VA National Formulary and continuing to expand reimbursement across commercial and Medicare Advantage payers
- Issued patents through 2033 (2035 if pending patents issue)
- Nearly 4 million cataract procedures performed annually in US
- Permanent J-code
- Separate payment in ASCs
- NOPAIN Act introduced in House and Senate with broad and growing bipartisan co-sponsorship and leadership/committee-member support
- Net sales in 3Q 2020 were \$34.8 million prior to an \$8.7 million return reserve in connection with expiration of pass-through on October 1, 2020



Real-World Evidence — OMIDRIA® Improves Outcomes



Peer-reviewed publications detailing post-launch studies demonstrate that the use of OMIDRIA statistically significantly:

- Prevented IFIS¹
- ✓ Prevented iris prolapse¹

Compared to steroids:*

- ✓ Reduced cystoid macular edema^{2,3}
- ✓ Decreased breakthrough iritis³
- ✓ Reduced pain³

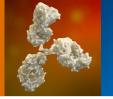
Compared to epinephrine:

- ✓ Decreased complication rates⁴
- ✓ Decreased use of pupil-expanding devices⁴-8
- \checkmark Enabled performance of surgery and postoperative care without the use of steroids^{2,3,9}
- ✓ Shortened surgical times^{4,6,8}
- Reduced need for opioids (i.e., fentanyl) during surgery while decreasing VAS pain scores¹⁰
- ✓ Prevented miosis during femtosecond laser-assisted surgery⁷
- ✓ Improved uncorrected visual acuity on day after surgery⁴

*OMIDRIA used intraoperatively with postoperative NSAIDs (no steroids) when compared to postoperative steroids with or without NSAIDs (no OMIDRIA)



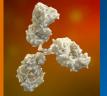
MASP-3 Development Program



OMS906 Inhibits MASP-3, Considered the Premier Target in the Alternative Pathway



- MASP-3 is the key activator of the alternative pathway ("AP")
- MASP-3 is the premier target within the AP
 - Has the lowest concentration of all AP proteins
 - Has low relative clearance of AP targets
 - Example: ~50% of systemic CFD is cleared per hour
 - Unlike C5 and C3 blockers, leaves intact the lytic arm of the classical pathway, important in fighting infection





OMS906



Humanized monoclonal antibody **highly potent** and **selective** for MASP-3

Infrequent SubQ Administration



Convenient dosing regimen allows selfadministration in an **outpatient setting**



OMS906 is designed to treat multiple alternative pathway-driven diseases with infrequent, SubQ delivery

Initial Phase 1 clinical data expected later this year



G-Protein Coupled Receptors (GPCR) Platform



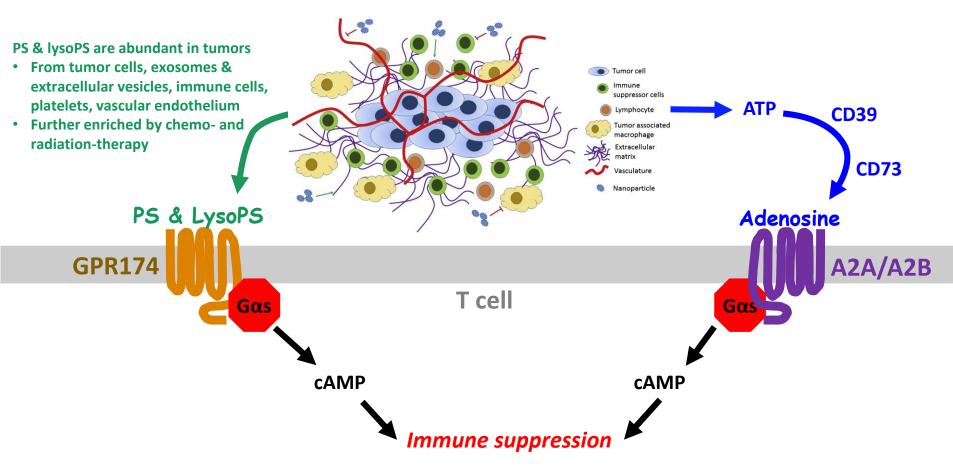


- GPR174 inhibition amplifies tumor-killing properties of T and NK cells
- GPR174 is activated by phosphatidylserine (PS) and lyso PS, which are produced by the tumor microenvironment, especially following chemoor radiation therapy
- GPR174 inhibitors have the potential to address non-responders to current therapies
 - Combined inhibition of GPR174 and the adenosine pathway synergistically enhanced anticancer phenotypes
 - GPR174 inhibition may be amenable to combination with checkpoint inhibitors, cellular therapies and cytotoxic therapies
- GPR174 is expressed almost exclusively in the immune system



Activating Ligands for GPR174 and Adenosine Receptors A2A/A2B Are Products of the Tumor Microenvironment OMEROS

Cell stress and death in the tumor microenvironment



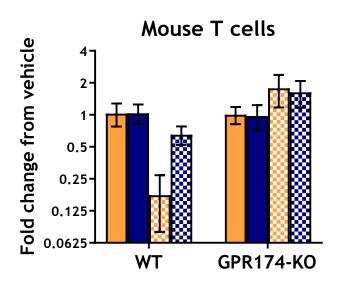
GPR174 and A2A/A2B adenosine receptors suppress T and NK cells through the cAMP pathway

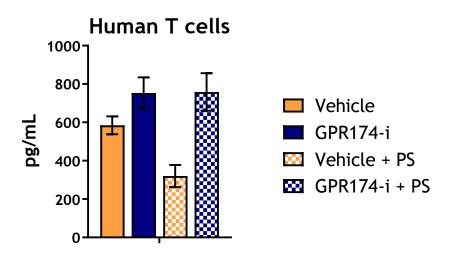


PS Activity on Purified T Cells Is GPR174-Dependent and Is Inhibited by GPR174-i



IL-2





- > IFN-γ and TNF are also induced
- > Tumor-promoting immune regulators are decreased: CTLA-4, Amphiregulin

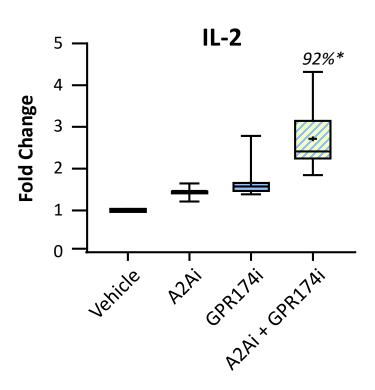


Inhibition of GPR174 and A2A Receptors Synergistically Activates Human T Cells



Total PBMC culture

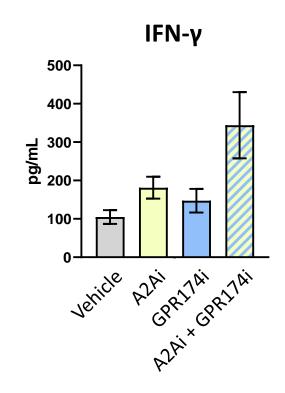
High cell density, rich in PS and adenosine



Normalized Data from 12 Human Donors
*Percent of donors exhibiting GPR174i/A2Ai synergy

CD8 T cell culture

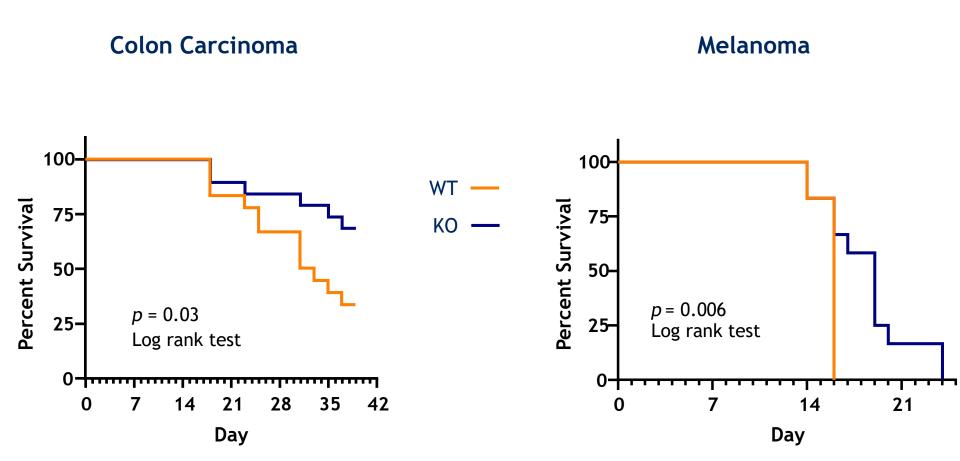
Low cell density, with supplemented PS and adenosine (NECA)











^{*}Anti-GITR co-therapy was used to attenuate Treg dominance in these models



Next-Generation Therapeutics Transforming Patient Care Today