

Developing medicines
harnessing the capability
of DNA to power body's
immune system



MedInvest Biotech and Pharma Investor Conference

April 1, 2026

Nasdaq: IMNN

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Product Pipeline of DNA-based Transformative Medicines

Platform	Delivery	Program	Indication(s)	Discovery	IND enabling	Phase 1	Phase 2	Phase 3
TheraPlas IL-12 Plasmid Immunotherapy	IP	IL-12 (OVATION 2)	Newly Diagnosed Adv. Ovarian Cancer	IMNN-001 Q1'26 completed				
		IL-12 (OVATION 3)	Newly Diagnosed Adv. Ovarian Cancer	IMNN-001 enrolling				
		IL-12 IP in combination with Avastin*	Newly Diagnosed Adv. Ovarian Cancer	IMNN-001 enrolling				
		IL-12 in combination with Immune checkpoint Inhibitors	Newly Diagnosed Adv. Ovarian Cancer	IMNN-001				
		IL-12	Colorectal Cancer	IMNN-001				
		IL-12	Pancreatic Cancer	IMNN-001				
	Intra-tumoral	IL-12	Glioblastoma	IMNN-001				
PlaCCine	IM	SARS-CoV-2 Clinical Proof-of-Concept	Infectious Disease	IMNN-101 complete				

Partner



Great Unmet Need: Patient Outcomes and Frontline Standard of Care Unchanged for 30 years

Recurrence Rates are High and Survival Rates are Low

Epithelial ovarian cancer (EOC) is insidious and usually diagnosed at an advanced stage. Though EOC initially responds to treatment, the recurrence rate is high. Recent treatments delay progression but overall survival has not improved. Hence there is a need for effective therapy for patients with EOC.



20,000 new cases diagnosed each year in US,
13,000 deaths

300,000 new cases diagnosed worldwide

80% diagnosed in late stage (III/IV)

70% recurrence rate within 2-5 years after initial treatment

>60% will die within 5 years of diagnosis

IMNN-001, Imunon's novel IL-12 immunotherapy, has the potential to be first-in-class IL-12 Immunotherapy and provide a breakthrough in today's frontline standard of care

IMNN-001: A Potential Breakthrough in Newly Diagnosed Ovarian Cancer



No other frontline ovarian cancer trial has shown an OS improvement; IMNN-001 has a highly favorable benefit/risk profile



IMNN-001 may be the 1st immuno-therapy for ovarian cancer, with the potential to transform the standard of care and deliver substantial return on investment



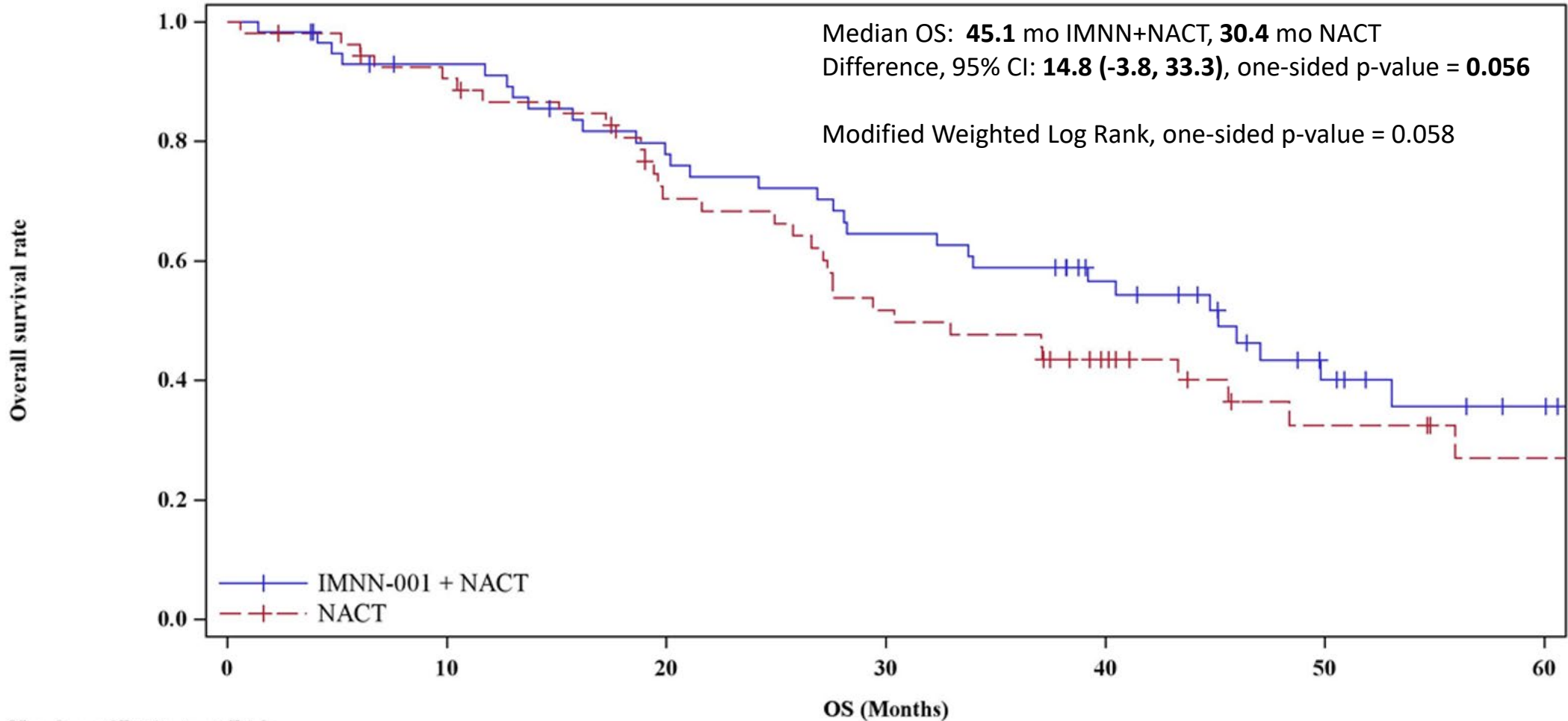
Large randomized Phase 2 OVATION-2: 15-month OS improvement by IMNN-001 over standard of care, 95%CI (-3.8, 33.3), 24-month OS improvement in patients treated with PARPi



Phase 3 OVATION-3 Study: FDA-approved registrational trial enrolling, treatment with IMUNON-manufactured API

K-M Plot of Overall Survival, ITT population, OVATION-2 final analysis

July 2024 Δ medians 11.1 months \rightarrow Final Analysis: Δ medians 14.7 months

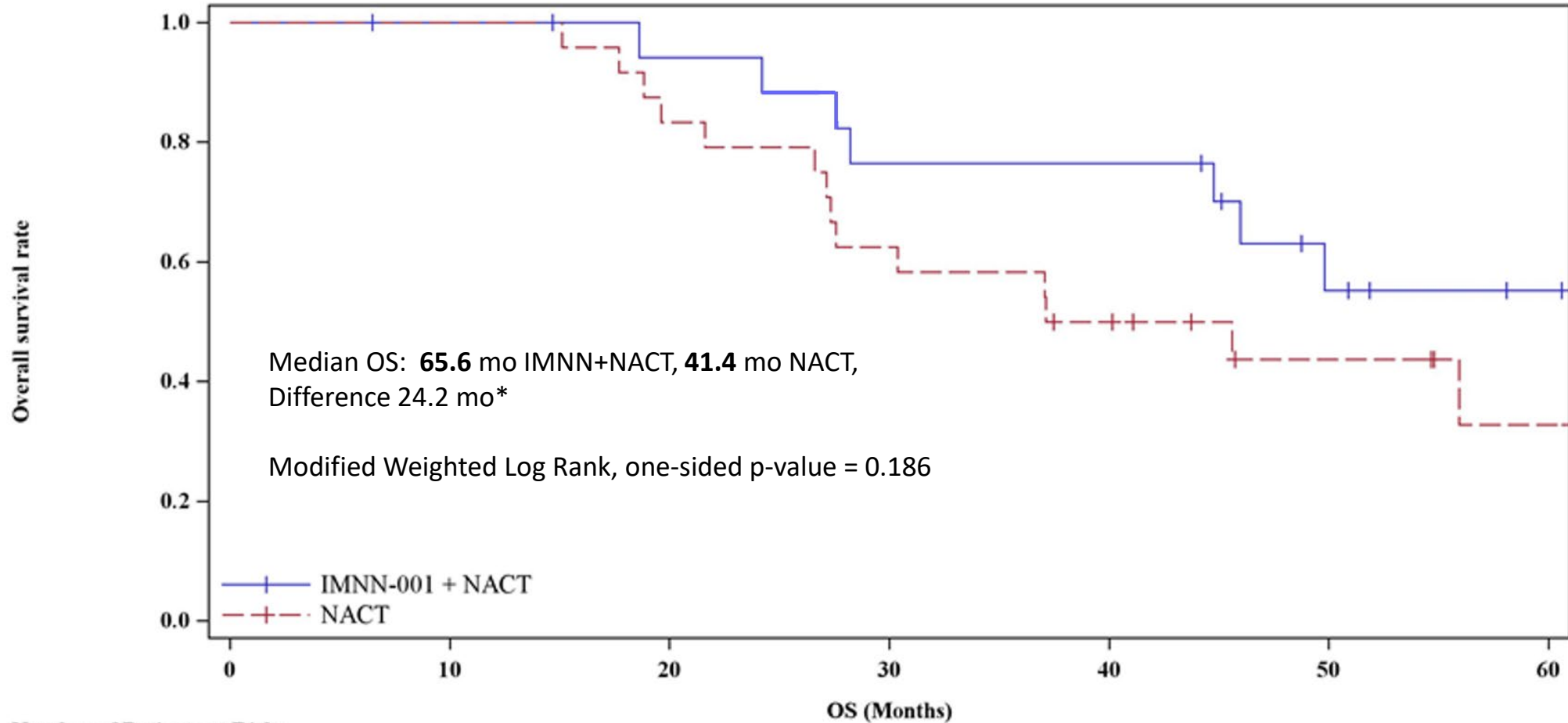


Number of Patients at Risk:

	0	10	20	30	40	50	60
IMNN-001 + NACT	58	50	41	34	25	12	6
NACT	54	47	34	25	16	8	5

K-M Plot of Overall Survival, PARPi treated pts, OVATION-2 final analysis

July 2024 Δ medians not evaluable \rightarrow Final Analysis: Δ medians 24.2 months



Number of Patients at Risk:

	0	10	20	30	40	50	60
IMNN-001 + NACT	19	18	16	13	13	7	4
NACT	24	24	20	15	11	6	3

Our Phase 3 Clinical Research is of Great Importance to the Medical Community

- Our Landmark Phase 2 Study was Showcased at ASCO with a Platform Presentation
- Published in Gynecologic Oncology, Premier Medical Outlets

2025 ASCO[®]
ANNUAL MEETING

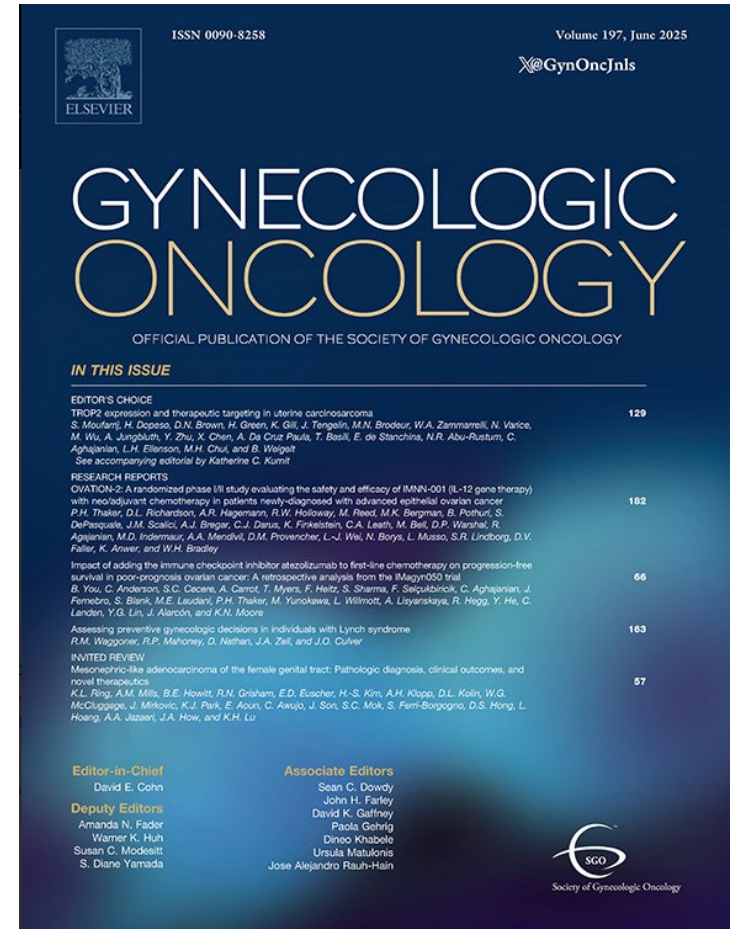
A Phase I/II study of the Safety and Efficacy of IP IMNN-001 in combination with N/ACT in patients newly-diagnosed with advanced EOC: Updated Survival Analysis from OVATION-2 Trial

P. Thaker, D. Richardson, A. Hagemann, R. Holloway, M. Reed, M. Bergman, B. Pothuri, S. DePasquale, J. Scalici, A. Begar, C. Darus, K. Finkelstein, C. Leath III, M. Bell, D. Warshal, R. Agajanian, M. Indermaur, A. Mendivil, D. Provencher, LJ Wei, L. Musso, S. Lindborg, D. Faller, K. Anwer, W. Bradley.

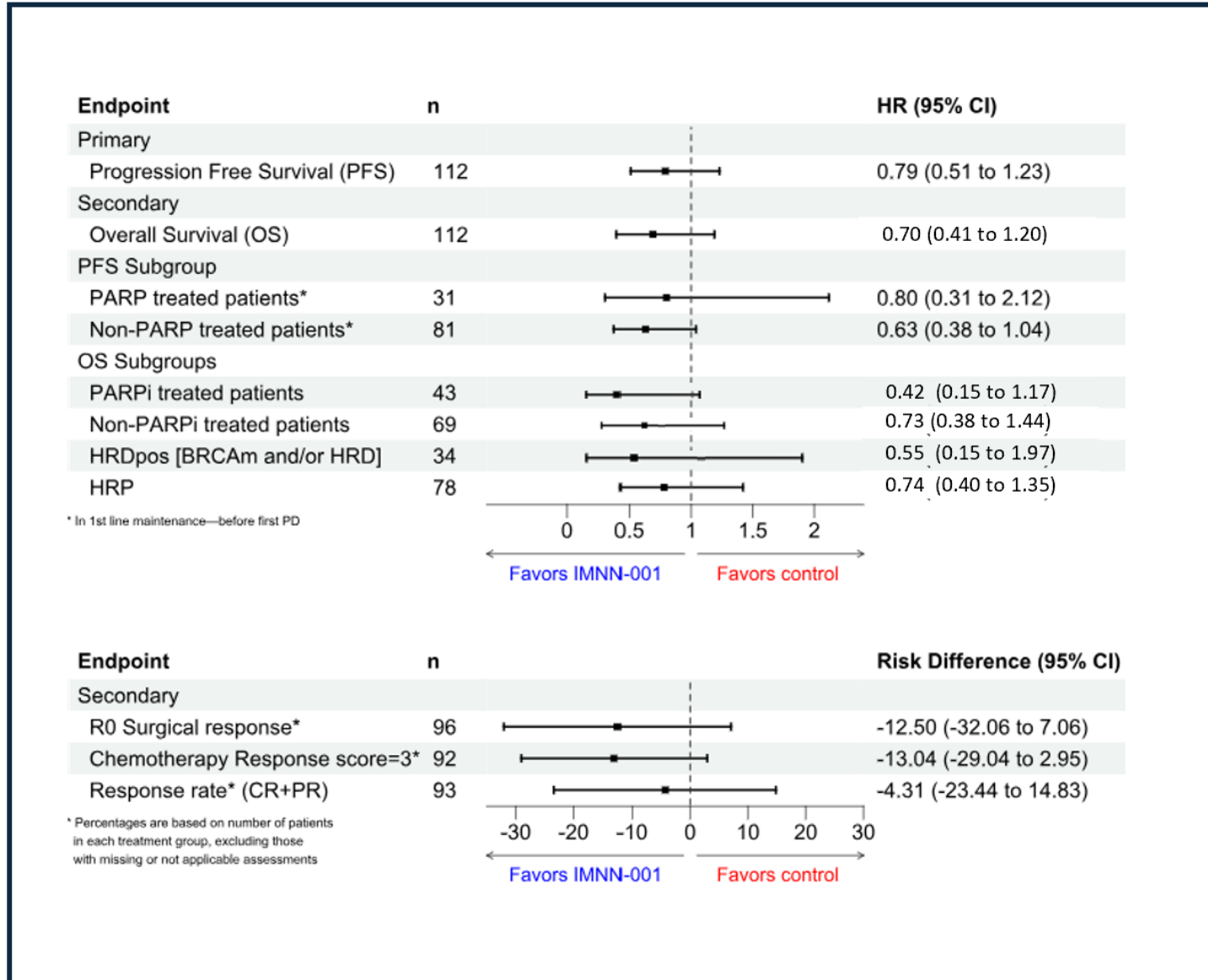
Premal H. Thaker, MD

David & Lynn Mutch Distinguished Professor of Obstetrics & Gynecology

Chief of Gynecologic Oncology, Interim. Director of Gynecologic Oncology Clinical Research. Professor in Gynecologic Oncology.
Washington University School of Medicine



OVATION 2 Treatment Effect Consistently Favors IMNN-001 Across All Trial Endpoints and Pre-specified Subgroups

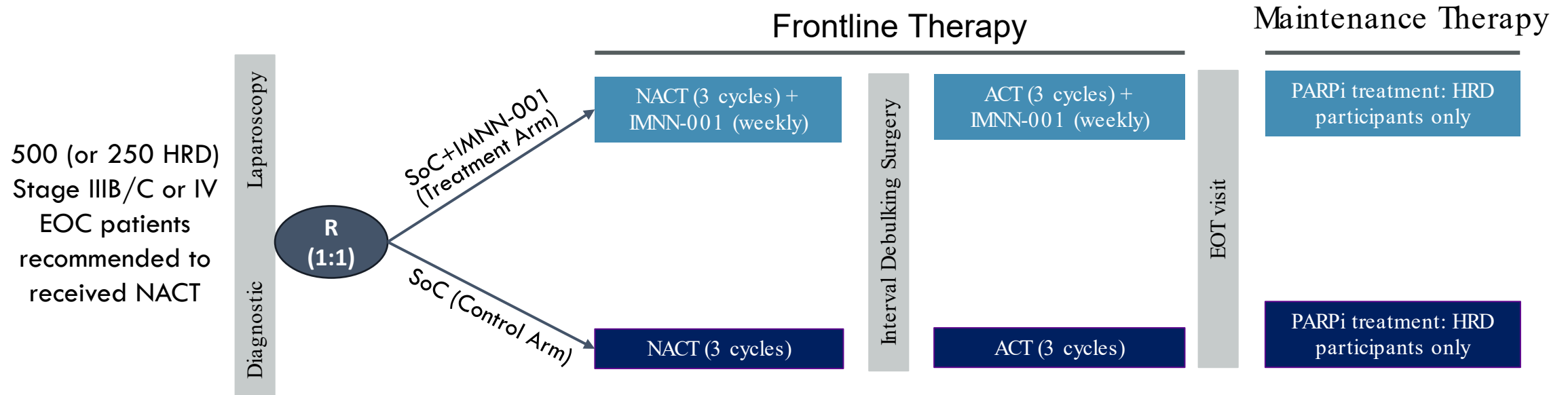


Consistent treatment effect in ongoing Phase 2 MRD Trial*:

- Lower MRD-positivity rate
- Lower % of positive biopsies
- Higher Progression Free Survival
- Higher CRS at cytoreduction

*MRD: minimal residual disease
Data from IMUNON 2025 R&D Day

OVATION 3: Purposeful Protocol Design & Rigorous Methodology



- Well controlled study with treatment and control arms, and protocol-specified maintenance
- Stratification for added confidence in balance across treatment arms (HRR Biomarker & tumor stage)
- Clinically meaningful Primary Endpoint Overall Survival

- Trial targeting the most responsive subgroup (HRD) for accelerated readout, allowing all comers' population more time
- Secondary endpoints that further evidence efficacy, safety and patient perspectives/QoL
- Event driven statistical methodology with interim analyses designed for early submission for full approval in the HRD+ Group

IMUNON in Phase 3, Well Positioned with Early Stopping Potential

Executing against the plan as promised...

- **Robust Data from 112 patient OVATION-2 (Phase 2) demonstrating IMNN-001 improvement over SoC**
 - Confidence in Phase 3 trial based on consistency of clinical data across all endpoints and subgroups
 - Data continue to improve the longer we monitor patients
- **Successful meetings with FDA and full alignment**
 - Protocol, statistical analysis plan, cGMP plan for Phase 3 and commercial product
- **Innovative statistical design with planned interim analysis for early stopping for success and BLA filing to support FDA approval:**
 - Enhancements added to Phase 3: OS is the primary endpoint, Stratification and population balance for interpretability, QoL scales added for pricing and reimbursement
 - Broad indication of women newly diagnosed with ovarian cancer who are eligible for NACT
- **IMUNON team is well-positioned to execute on Phase 3 clinical trial**
 - Great collective depth and breadth; strong track record of delivery while managing expenses and bringing in money to drive the business forward
- **OVATION-3 (Phase 3) clinical trial ongoing, FPV June 2025**
 - Site activation in progress, patient enrollment remains ahead of forecast
 - Full Enrollment projected 2029

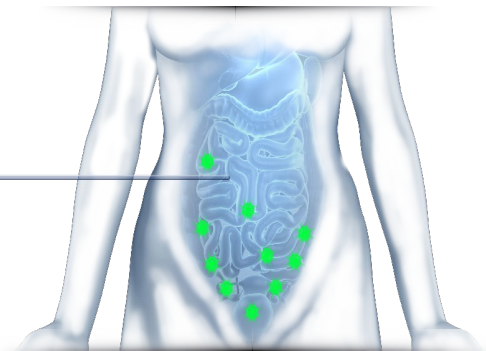
IMNN-001 Targets the Micro-Environment of Ovarian Cancer

Local production of safe and durable levels of a powerful anti-cancer immune agent, IL-12

Safe administration weekly, demonstrated over a 6-month period



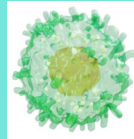
Local Expression of IL-12 Favors
Immune Modulation in Tumor
Microenvironment



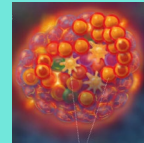
Intracavity infusion of IMNN-001 has demonstrated durable and local expression of IL-12 in the peritoneum

No suprphysiological increases in IL-12 commonly associated with bolus rIL-12 delivery minimizes excessive systemic exposure to IL-12, thereby giving a favorable safety profile to IMNN-001

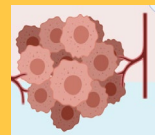
Interleukin 12 Induces Strong Anti-cancer Immunity Through Multiple Mechanisms



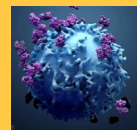
Stimulates the proliferation of CD-8 positive T-cells and natural killer (NK) cells and their cytotoxic activity against the tumor



Shifts the differentiation of naive CD-4 positive T-cells toward a TH-1 phenotype, further enhancing the immune response
Turns cold tumors into hot tumors



Promotes cellular production of the potent immune mediator IFN- γ and TNF- α . IFN- γ promotes the expression of anti-angiogenic molecules, halting the growth of new blood vessels that supply oxygen to the tumor

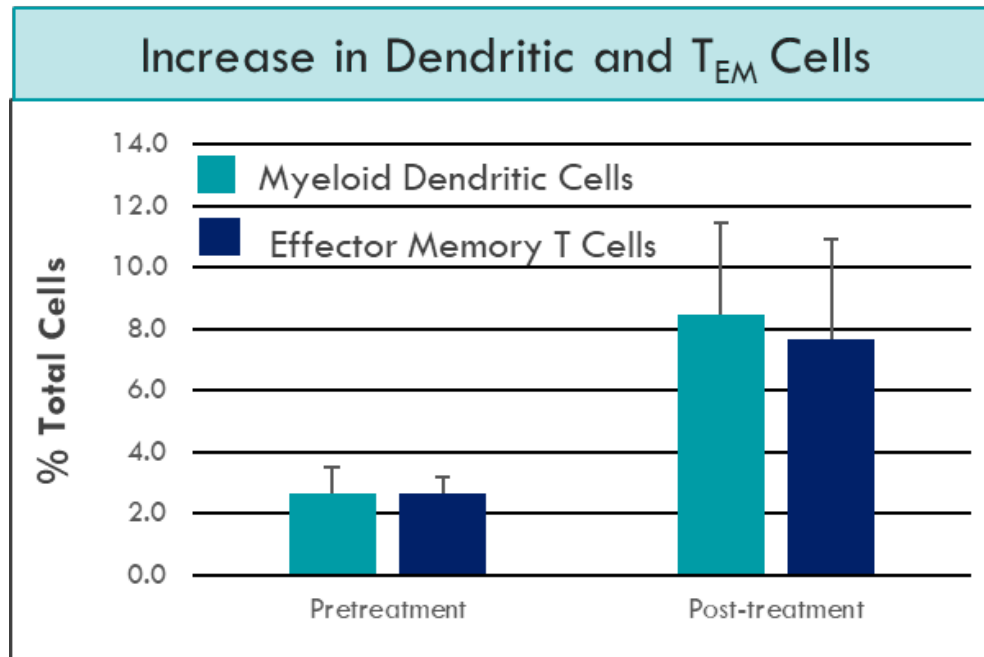


IL-12 may inhibit regulatory T-cells that suppress immune responses by “hiding” the tumor from the body’s immune system

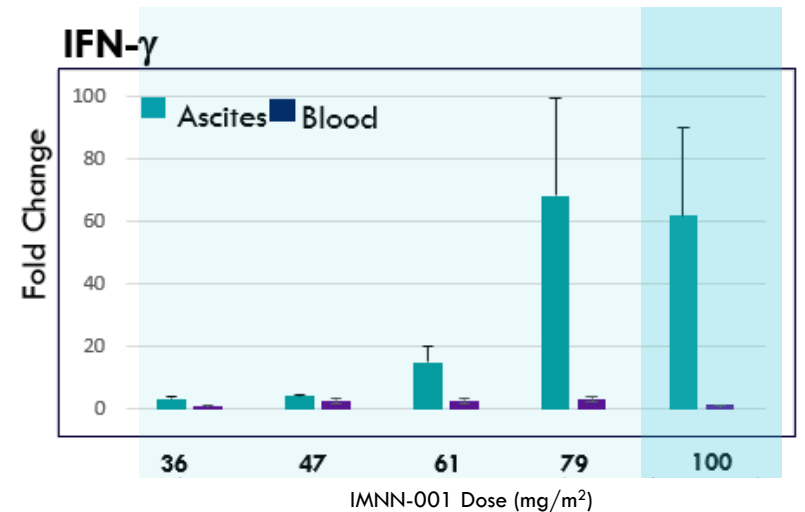
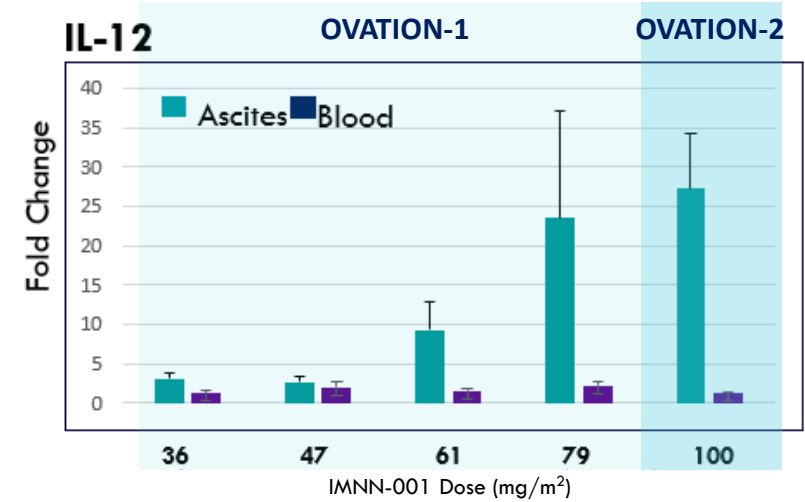
IMNN-001 Has a Broad Impact, Fundamentally Alters Tumor Microenvironment

Translational Data Sampling Confirms 100 mg/m² as the Phase 3 dose

- Increases in cytokine levels at tumor site show IMNN-001 targeted local activity
- Low cytokine blood levels underpin IMNN-001 safety profile
- Increase in anti-cancer dendritic cells & effector memory T-cells demonstrate activation of the cellular immune system



IMNN-001 dose-dependent and local selective expression of IL-12 and IFN-γ levels in patients' samples



IMNN-001 has a Highly Favorable Benefit/Risk Profile Through Phase 2

OVATION 2 Phase 2 Key safety observations:

- No systemic dose limiting toxicities associated with IV administration of IL-12 were observed
- Cytokine release syndrome (CRS) did not occur with IMNN-001 treatment
- No elevation of immune related A/E
- Most common treatment-emergent adverse events:
 - ✓ Abdominal pain, nausea, vomiting
 - ✓ Significant improvement in control of abdominal pain when an analgesic regimen was instituted

MRD trial safety observations:

- Favorable benefit/risk profile further strengthened by MRD trial
- Patients successfully treated with IMNN-001 maintenance therapy, and patients were safely treated with IMNN-001 in combination with Bevacizumab

Investment Thesis

Funding IMNN-001 IL-12 Registrational Study for 1st line Ovarian Cancer

- **Unprecedented data in a randomized, well controlled Phase 2 with compelling OS efficacy in newly diagnosed OV population**
- **Data driven Registrational study design based on strong evidence, leveraging established genetic biomarker**
- **Ovarian cancer represents a multi billion-dollar unmet medical need**
 - IMNN-001 has been granted Fast Track by the FDA
 - Orphan status has been established in the U.S. and EU
- **Imunon has established a cGMP-compliant capability to manufacture investigative product for the registrational study. Eventually, a footprint for commercial launch.**
 - Costs are an “order of magnitude” lower than if 3rd party-sourced, supporting impressive gross margins
 - FDA alignment for CMC strategy, including potency assay
- **Registrational study initiated Q1 2025**
 - Newly diagnosed, advanced Ovarian Cancer, eligible to neoadjuvant treatment, n=500 patient trial
 - Definitive primary endpoint is overall survival
 - Design includes planned interim analyses for early stopping for success, BLA filing for full approval
- **Investment Goals:** \$55M all in trial cost, long minded investors
 - Tranche structure alternative to full financing to minimize investor risk
 - Data analysis from phase 3 Secondary endpoints to inform subsequent tranches

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