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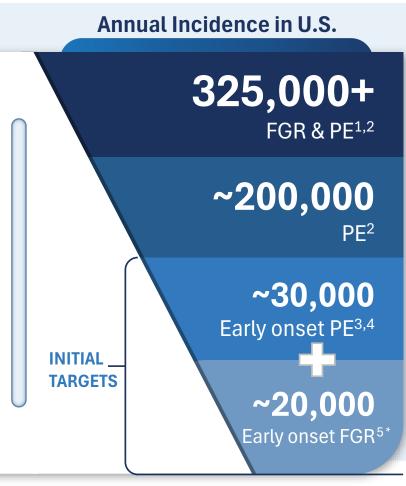


Early-Onset PE and FGR: Severe Conditions with a \$5B+ U.S. Market



Disease Overview

- Preeclampsia (PE): life-threatening high blood pressure disorder accompanied by multi-system organ damage that occurs only during pregnancy.
 - Early onset PE is a severe sub-type that occurs before 34 weeks of pregnancy where 50% of deliveries are driven by refractory hypertension despite maximal intervention⁶.
 - There are currently **no disease** modifying therapies approved for PE.
- Fetal Growth Restriction (FGR): A condition where a baby is not growing as expected, often due to preeclampsia or other complications.





Baschat et al. (2021). FIGO initiative on fetal growth: Best practice advice for screening, diagnosis, and management of fetal growth restriction. International Journal of Gynecology & Obstetrics, 152(S1), 3-12.

*FGR Only

^{(2023).} Clinical presentation, maternal-fetal, and neonatal outcomes of early-onset versus late onset preeclampsia-eclampsia syndrome in a teaching hospital in a low-resource setting: A retrospective cohort study. PloS one, 18(2), e0281952.

E., G., Akurati, et al. (2018). Early onset and late onset precclampsia-maternal and perinatal outcomes in a rural teritiary health center, International Journal of Reproduction, Contraception, Obstetrics and Gynecology, 7(6), 2266–2269

Gynecology, 223(5), 739.e1-739.e13. © 2025 DiaMedica Therapeutics. All Rights Reserved.



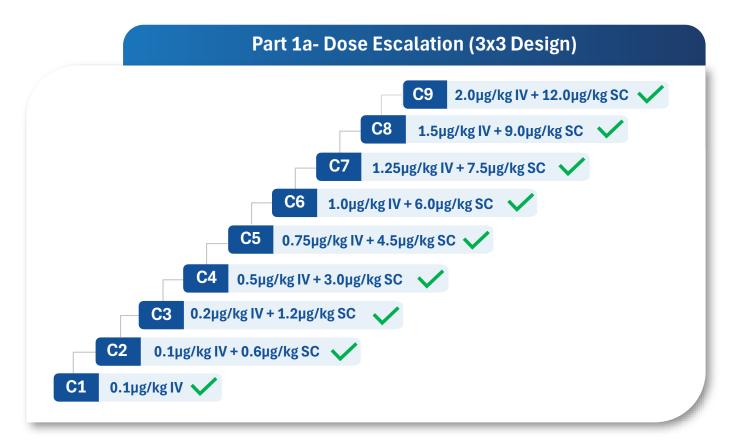
Interim Phase 2 (Part 1a) Results of DM199 for Preeclampsia are a <u>Clear Success</u>

- **Safety**: No placental transfer of DM199. Well tolerated with no serious TEAEs reported.
- **Blood Pressure (BP):** Dose-dependent reductions in both systolic (SBP) and diastolic (DBP)
 - **Cohort 9 (n=3; highest dose):** Achieved the largest mean BP reduction of all cohorts at predefined 5-minute post-infusion timepoint: SBP \lor 35 mmHg (p<0.05), DBP \lor 15 mmHg (p<0.05)
 - Pooled cohorts 6-9 (n=12): Statistically significant mean reductions in SBP and DBP across all predefined post-infusion timepoints—5 minutes, 30 minutes, and 24 hours
 - SBP: $\sqrt{25}$, $\sqrt{15}$, $\sqrt{20}$ mmHg at 5 min, 30 min, and 24 hours (p=0.0003, p=0.0018, p=0.0031)
 - DBP: \lor 13, \lor 13, \lor 10 mmHg at 5 min, 30 min, and 24 hours (p=0.0007, p=0.0002, p=0.0294)
- **Dilation of intrauterine arteries:** Statistically significant improvement in pulsatility index at the 2-hour timepoint¹, signaling potential for enhanced placental perfusion and disease modification
 - \lor 13.2% reduction in blood flow resistance (p=0.0003)



DM199 Preeclampsia Phase 2 IST Trial – Part 1a

Women planned for delivery within 72 hours



Study designed to assess DM199 placental transfer with minimal fetal exposure and to evaluate early blood pressure effects. Repeated dosing avoided to prevent prolonged fetal exposure if transfer occured. Limited dosing (one each IV & SC) minimized fetal exposure risk during this assessment.



Part 1 Overview

- > 27-42 weeks gestation (singleton)
- > >150 systolic blood pressure
 - > Receiving standard of care
- > <72 hours scheduled for delivery

Study Groups

- > <u>1a.</u> Up to 30 preeclampsia participants
 - Ascending dose study identifying the optimal, medically relevant dose based on BP reductions
- 1b. 30 preeclampsia participants.
 Expansion cohort at dose identified in 1A

Primary Endpoints:

- Safety and tolerability
 - Includes results of placental crossing analysis/assay
- > Lower blood pressure

Key Exploratory Endpoint

> Dilation of uterine arteries (Doppler)

DM199 Administration Timepoints and Prespecified BP Measurements

Timepoints of BP Measurements Approximate Tmax of IV and SC Doses

Time After IV is Completed + 5 Min + 30 Min +~1hr + 24hr **DM199 Participant Meets** SC **Screening Requirement** (ie SBP > 150 mmHg), is Consented, and Enrolled ---> DM199 IV → Infusion SBP/DBP* SBP/DBP SBP/DBP SBP/DBP **Baseline Recorded** Prespecified **Primary Endpoint**



Baseline Demographics

IQR: Interquartile Range SD: Standard Deviation

Characteristics	DM199 (n=28)
Median (IQR) gestation at enrollment (weeks + days)	37+0 (35+6 - 38+1)
Median (IQR) maternal age (years)	32.5 (28.8 - 36.3)
Mean (SD), birth weight in grams	2591.3 (553.4)
BMI, median (IQR)	36.8 (33.4 - 43.4)
Race, n(%)	
Black	22 (79)
Mixed	6 (21)
Mean (SD) systolic blood pressure (mmHg)	165.9 (11.7)
Mean (SD) diastolic blood pressure (mmHg)	103.3 (9.8)
Received antihypertensives 24 hours prior to enrollment, n(%)	
1	10 (36)
2	14 (50)
3	4 (14)
Received short-acting antihypertensives after randomization, n(%)	8 (29)
Received magnesium sulphate, n(%)	27 (96)
Received corticosteroids after randomization, n(%)	1 (4)



Delivery Characteristics

~80% of deliveriesoccurred within24 hours

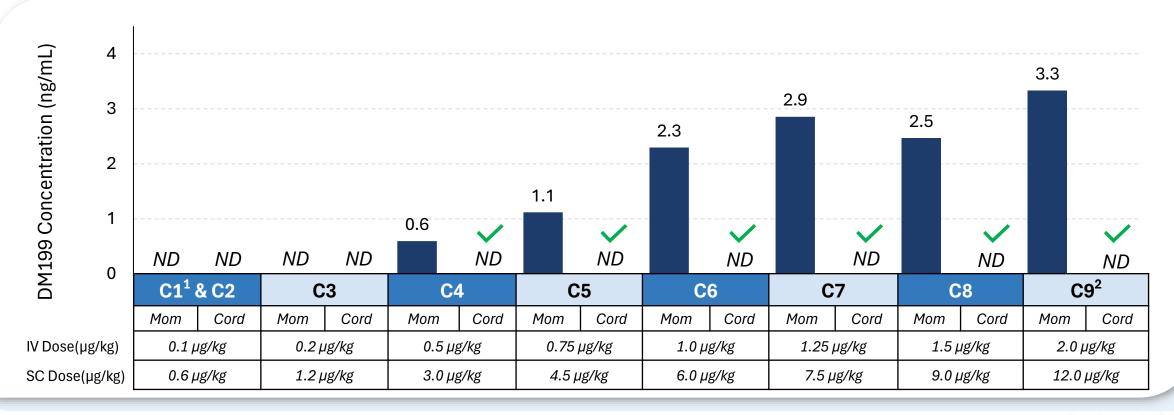
Characteristics	DM199 n(%)
Vaginal delivery	9 (32)
Cesarean section	19 (68)
Time to delivery	
<2 hours	1 (4)
<4 hours	3 (11)
<8 hours	9 (32)
<12 hours	16 (57)
<24 hours	22 (79)
≥24 hours	6 (21)
Received balloon catheter	14 (50)
Received prostaglandins	9 (32)
Received oxytocin	11 (39)



DM199 Was NOT Detected in Umbilical Cord Blood in Any Dose Cohort

- At delivery, DM199 was not detected in any cord blood samples, while a clear dose-dependent increase in DM199 was observed in maternal plasma.
- > Data suggests DM199 does **not cross the placental barrier**, a potentially unique safety advantage.

Average Plasma DM199 Concentrations (Maternal and Cord Blood Samples At Delivery)





DM199 Was Generally Safe and Well Tolerated

No serious TEAEs were reported in response to any dose

Maternal Treatment-Emergent Adverse Events

TEAE	N=28 [n(%)]	Dose Cohorts
Nausea	4 (14%)	C8 (n=2), C9 (n=2)
Headache	3 (11%)	C3 (n=1), C6 (n=2)
Flushing	1 (4%)	C9

Expected Events Of Preeclampsia (per protocol definition)

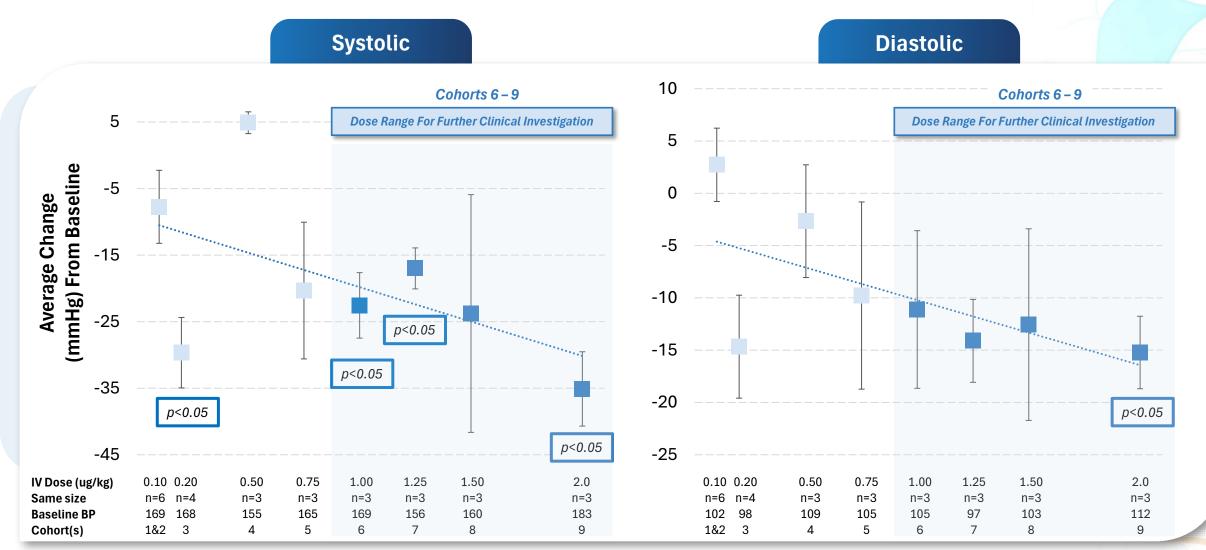
Expected Event	N=28 [n(%)]	Dose Cohorts
Postpartum Hemorrhage	4 (14%)	C3 (n=2), C4 (n=1), C8 (n=1)
Eclampsia	1 (4%)	C1
HELLP Syndrome	1 (4%)	C4
Pulmonary Edema	1 (4%)	C9

- No events of hypotension;
- No patient paused or discontinued treatment;
- No induction of early labor



Blood Pressure Was Reduced at Prespecified 5-Minute Post-Infusion Endpoint

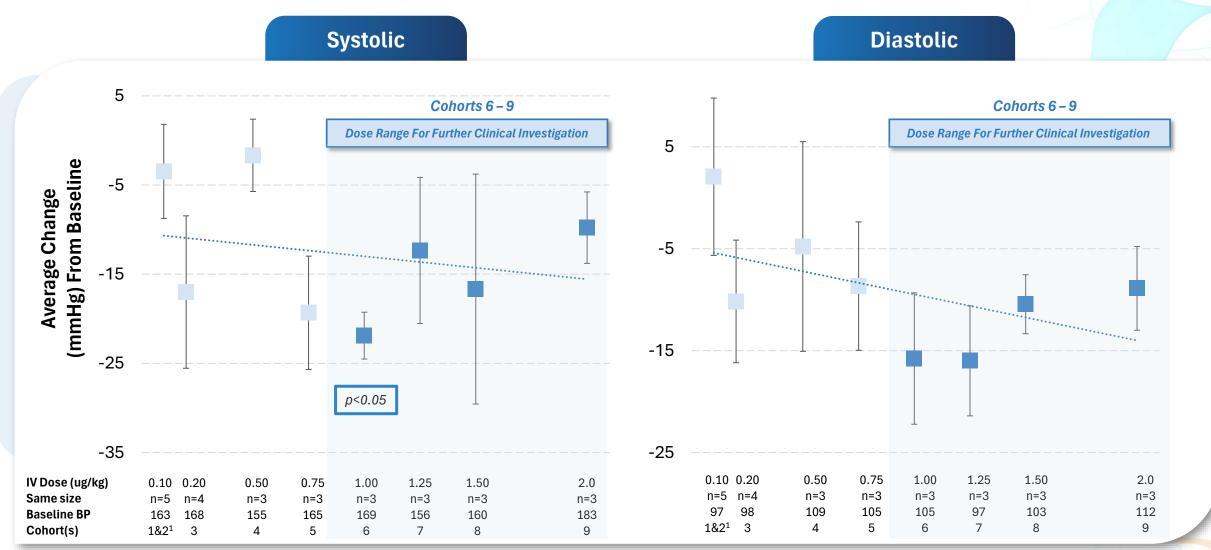
Pooled Cohorts C6–C9 achieved statistically significant reductions in SBP (-25 mmHg) and DBP (-15 mmHg)





Blood Pressure Was Reduced at Prespecified 30-Minute Post-Infusion Endpoint

Pooled Cohorts C6–C9 achieved statistically significant reductions in SBP (-15 mmHg) and DBP (-13 mmHg)



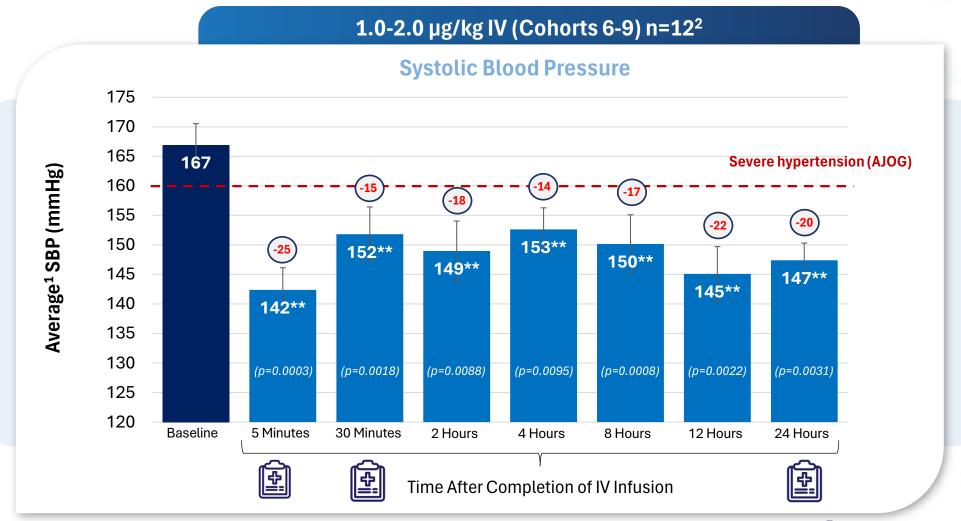


Mean \pm SEM presented | Paired T-test vs. baseline | best-fit line based on mean values No patients received short-acting BP meds during these time points

^{1.} Excludes Patient 1 due to delivery occurring 15 minutes after infusion completion (emergency c-section)

DM199 Drove Statistically Significant Systolic Blood Pressure Reduction

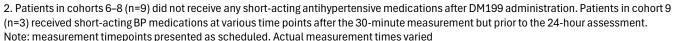
Pooled Analysis of Cohorts 6 to 9





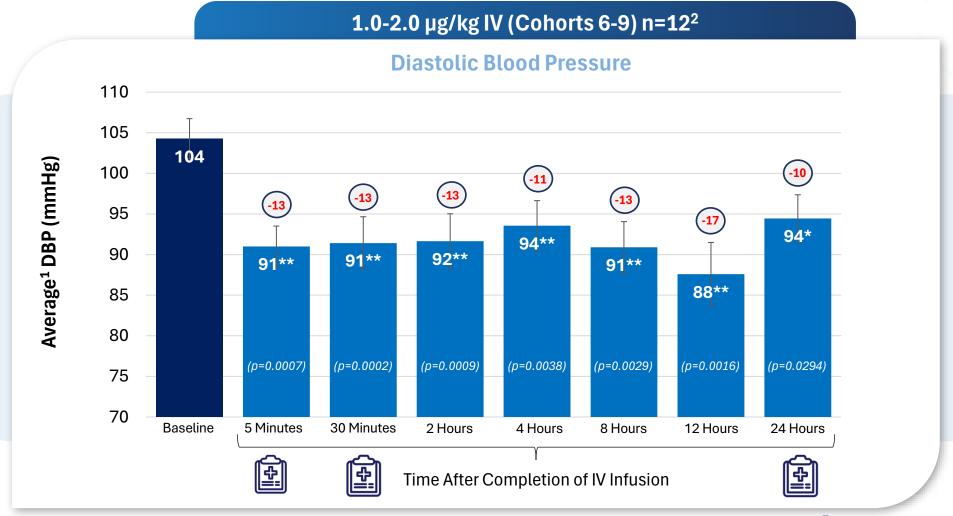
Mean ± SEM presented | Paired T-test vs. baseline: *p<0.05 | **p<0.01

1. Average of three consecutive readings per timepoint



DM199 Drove Statistically Significant Diastolic Blood Pressure Reduction

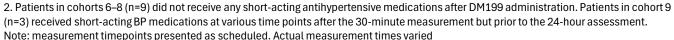
Pooled Analysis of Cohorts 6 to 9



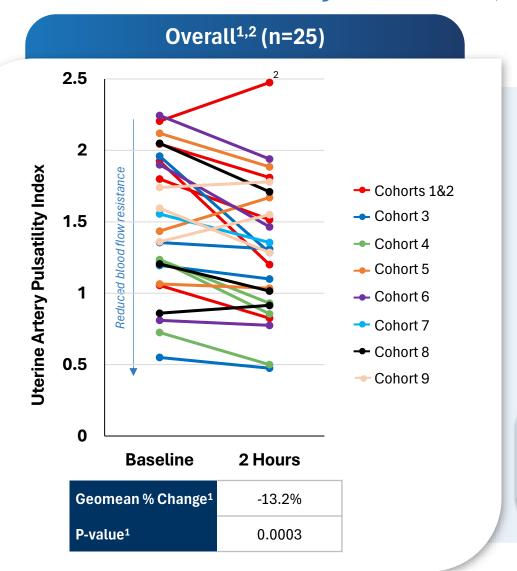


Mean ± SEM presented | Paired T-test vs. baseline: *p<0.05 | **p<0.01

1. Average of three consecutive readings per timepoint



DM199 Reduced Uterine Artery Resistance, Suggesting Enhanced Placental Perfusion



- Dilation of the uterine arteries was assessed by Doppler ultrasound at baseline and two hours after IV infusion
- > 13.2% average reduction in blood flow resistance was observed across cohorts (p=0.0003), suggesting DM199 increased perfusion to the placenta

Improved perfusion may reduce placental hypoxia, supporting fetal growth and disease modification



^{..} Measurements not available for one patient in Cohort 1, and two patients in Cohort 7

Summary Remarks

- DM199 is emerging as an exciting potential therapeutic option for both preeclampsia and fetal growth restriction
- DM199 appears to be generally well tolerated across broad exposure levels, and does not cross the placental barrier
- Early signals of improved placental perfusion suggest the potential for true disease modification
- ✓ Robust, durable blood pressure reductions provide broader clinical relevance, indicating endothelial protection—the key driver of maternal disease
- Ongoing **dose optimization** is expected to **further strengthen** DM199's profile as it advances into U.S. clinical trials next year





Next Phases of Preeclampsia IST Following Part 1A Completion

All parts can enroll concurrently

Part 1b (n=30) Planned Delivery in 72 Hrs.

- Recruiting the same population as Part 1A: women with planned delivery within 72 hours and SBP
 >150 mmHg (27 – 42 weeks GA)
- Participants will receive a single IV/SC dose on Day 1, using the dose identified in Part 1A (no additional doses)
- Primary endpoints: Safety* and lowering blood pressure

Part 2 (n=30) Expectant Management

- Recruiting women with early onset preeclampsia (GA 27+0 to 32+6) who are candidates for expectant mgmt. (prolongation)
- Participants will receive an initial IV/SC dose on Day 1, followed by repeated SC doses until delivery
- Primary endpoints: Safety*, prolongation, change in UACR, need to increase/decrease antihypertensive agents

Part 3 (n=30) Fetal Growth Restriction

- Recruiting women with early onset FGR (GA 27+0 to 32+6), defined as fetal growth <3rd centile, who do not have preeclampsia
- Participants will receive an initial IV/SC dose on Day 1, followed by repeated SC doses until delivery
- Primary endpoints: Safety*, changes in uterine, ophthalmic, and fetal Dopplers, and birthweight centile



Fetal Growth Restriction: DM199's Indication Expansion

Strong mechanistic rationale based on Interim Part 1a PE data

- Fetal Growth Restriction is a Major Unmet Medical Challenge
 - Placental insufficiency—particularly impaired uteroplacental blood flow—is a core pathophysiologic driver of FGR
 - No approved therapies to directly treat FGR; current management is limited to monitoring and early delivery
 - The Pulsatility Index (PI) in uterine and umbilical arteries is a core diagnostic and prognostic biomarker and is directly correlated with fetal oxygen/nutrient delivery

- DM199 Offers the Potential to Improve Uteroplacental Blood Flow
 - Like preeclampsia, FGR is often marked by abnormal uterine artery Doppler waveforms:
 - Elevated PI
 - Absent or reversed end-diastolic flow
 - DM199 has been shown to dilate intrauterine arteries, resulting in:
 - Improved uteroplacental perfusion
 - Reduced vascular resistance, as quantified by the Pulsatility Index



DM199's efficacy in lowering PI in preeclampsia patients supports its potential in FGR—especially early-onset forms





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