

# *MGI Practitioner Training*

MODULE 3



**How to Use  
Maternal Genomics  
in Your Practice**

**MGI does not offer a gene report.**

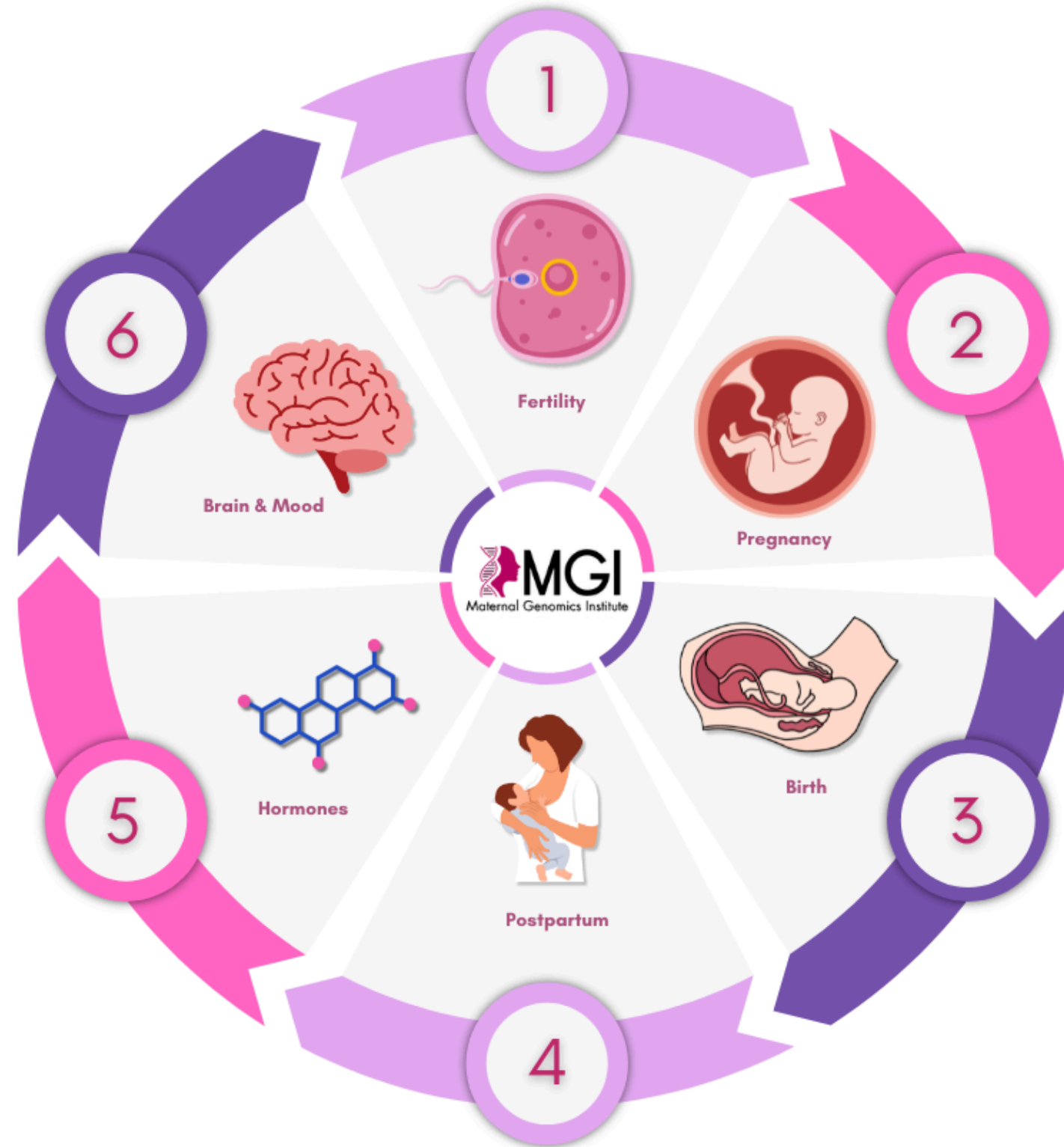
**MGI offers a maternal physiology  
report informed by genomics.**



# *What You'll Learn:*

**After this module, you will be able to:**

- Identify which genomic insights are most relevant to a mother's current needs
- Translate maternal themes into scope-appropriate support strategies
- Validate genomic findings using the mother's lived experience



## THE 6 MGI PILLARS OVERVIEW

The MGI Pillars represent the six interconnected biological areas that shape the maternal journey—from fertility to postpartum recovery, and beyond.



# *Pillar 1:* *Hormone Health*

**HOW THE BODY METABOLIZES, ACTIVATES,  
BALANCES, AND RESPONDS TO HORMONES.**

## **Why it matters:**

- Cycle health
- Ovulation
- Estrogen balance
- PMS symptoms
- Menstrual pain
- Postpartum hormone recalibration

## **Genomic themes:**

Methylation · Detoxification · Estrogen pathways · Stress response





# *Pillar 2:* *Fertility*

## THE BIOLOGICAL ENVIRONMENT NEEDED FOR CONCEPTION.

### Why it matters:

- Egg quality
- Implantation environment
- Progesterone support
- Cycle regularity
- Nutrient activation

### Genomic themes:

Mitochondria · Inflammation · MTHFR-related pathways · Blood sugar





# *Pillar 3:* *Pregnancy*

THE BIOLOGICAL PROCESSES SUPPORTING  
FETAL DEVELOPMENT AND MATERNAL  
WELLBEING.

## **Why it matters:**

- Nausea + hyperemesis susceptibility
- Fatigue
- Metabolic shifts
- Immune modulation
- Placental support

## **Genomic themes:**

Detox · Stress · Inflammation · Nutrient transport





# *Pillar 4:* *Birth*

HOW THE BODY MANAGES LABOR, STRESS  
HORMONES, OXYTOCIN, AND UTERINE  
ACTIVITY.

## **Why it matters:**

- Epidural response
- Pitocin sensitivity (scope-safe discussion)
- Cervical ripening
- Stress → labor interaction
- Pain response patterns

## **Genomic themes:**

Stress regulation · Oxytocin signaling · Inflammation





# *Pillar 5:* *Postpartum*

**HOW THE BODY HEALS, RECALIBRATES, AND STABILIZES AFTER BIRTH.**

## **Why it matters:**

- Tissue healing
- Inflammation
- Blood sugar shifts
- Detox + hormonal clearance
- Energy levels

## **Genomic themes:**

Inflammation · Detoxification · Mitochondria · Oxidative stress





# *Pillar 6:* *Maternal Mental Health*

**NEUROTRANSMITTER BALANCE, STRESS  
REGULATION, AND EMOTIONAL PROCESSING.**

## **Why it matters:**

- Mood changes
- Anxiety
- Postpartum mood disorders
- Stress resilience
- Bonding

## **Genomic themes:**

Stress pathways · Inflammation · Methylation





# *The Maternal Timeline*

**HOW NEEDS SHIFT FROM  
PRECONCEPTION → POSTPARTUM.**

## **A mother's biology:**

- adapts
- reprioritizes
- shifts demands
- through every stage.

**Genomics helps us understand what the  
body asks for along the way.**



# *Preconception Focus*

## **Support foundations for:**

- Egg quality + hormone rhythm
- Cellular energy
- Detox + nutrient activation

## **Question to ask:**

“How is your body preparing for the next phase?”





# *Pregnancy Focus*

## **Support active changes:**

- Nausea modulation
- Placental development
- Blood sugar shifts
- Stress buffering

## **Question to ask:**

“How can we help this adaptation feel smoother?”



# *Birth Focus*

## **Optimize:**

- Oxytocin + stress regulation
- Nervous system safety
- Response to the birth environment

## **Question to ask:**

“What helps your body feel safe during birth?”





# *Postpartum Focus*

## **Protect:**

- Recovery
- Tissue healing
- Sleep + feeding demands

## **Question to ask:**

“What do you need to feel restored and supported?”



# *Maternal Mental Health Focus*

A mother's emotional experiences — bonding, stress, mood, intuition, identity — are not just feelings.

**They are biological processes driven by hormones, neurotransmitters, the nervous system, and genomic pathways.**



# *Maternal Mental Health Focus*

- Bonding → oxytocin + dopamine
- Anxiety or overwhelm → cortisol + stress response systems
- Mood shifts → serotonin + inflammation + sleep pathways
- Feeling safe during birth → nervous system regulation
- Postpartum adjustment → hormonal recalibration





# *Maternal Mental Health Focus*

So when emotions change across pregnancy, birth, and postpartum...

...it isn't because she's "dramatic" or "hormonal."

**It's because her physiology is adapting to motherhood.**





# *Congrats!* *You have completed* *Module 3*

Review your notes to prepare for the certification quiz.