

MGI *Practitioner* *Training*

MODULE 3



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

MGI does not offer a gene report.

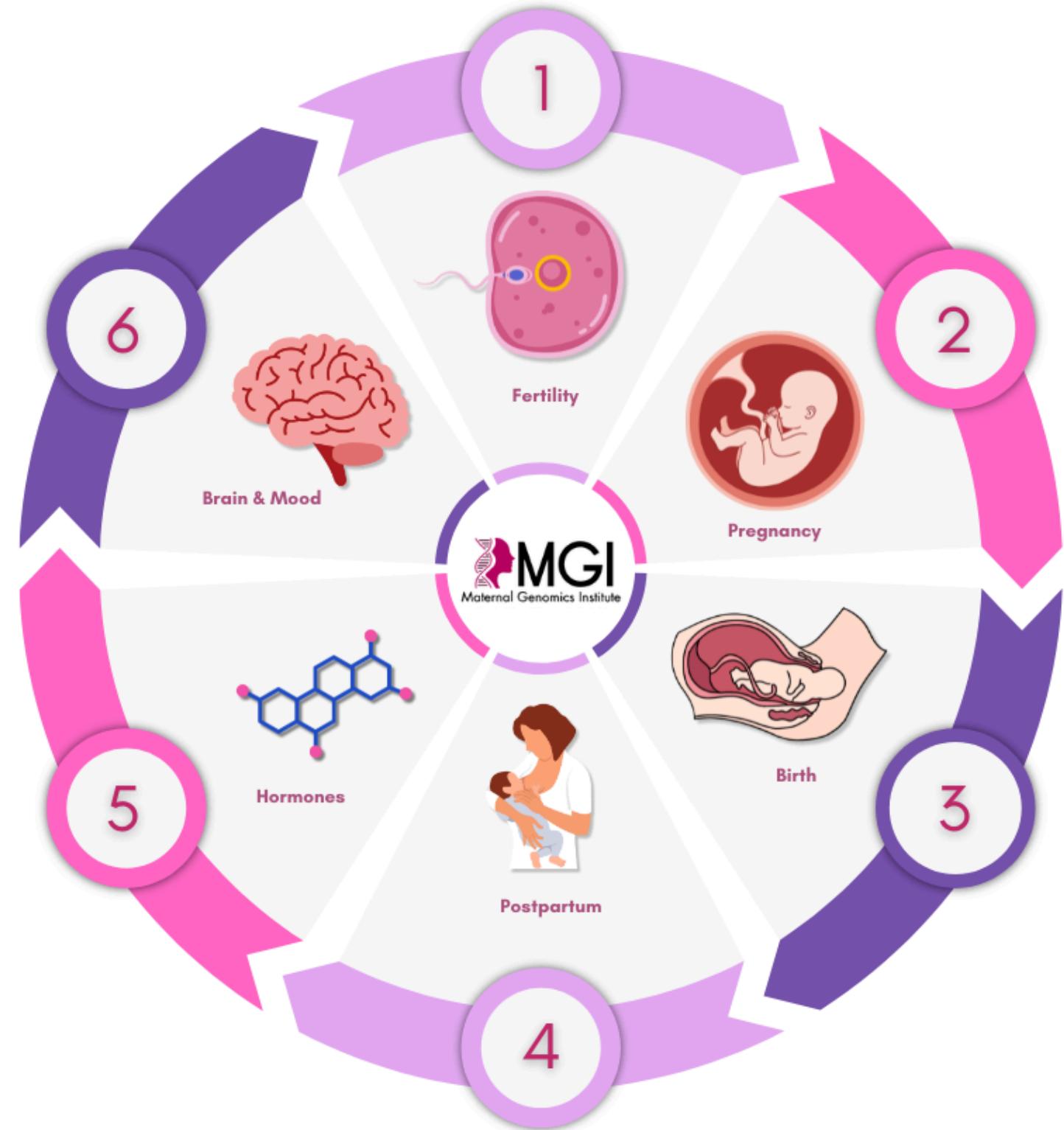
**MGI offers a maternal physiology
report informed by genomics.**



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.