

# Immune Expressions



**BodyTalk Study Group – Week 3**

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# Silent Conversations of Fetal Cells

- Chemical Talk - during pregnancy bits of genetic material and cells pass from mother to child and child to mother. These materials are needed for development of the fetus.
- Selective Border Crossing – the placenta is not an impenetrable barricade. It is more like a selective border crossing that allows “passage” of materials needed for fetal development.
- Leaky Barriers - Researches believe there are “leaky spots” in the blood barrier between mom and fetus allowing for cells to cross the border, especially in the last trimester and at birth. (Active Memory Fetal Life, Orientation: Activity, Time, Event, Person, Place, Object)
- Partial Exodus – researches thought that over time, all fetal cells that were transferred to the mom would eventually “clear out” of the mom’s system
- Baby on the Move - scientist have found cells containing the male “Y” chromosome circulating in the blood of women after pregnancy, and male DNA as been found in autopsied brains of women who had borne sons decades ago.
- Microchimerism – “harboring” of a small number of cells (or DNA) that originated in a different individual.
- “Chimera” fire-breathing Chimera from Greek mythology was part serpent, part lion, and part goat.
- Microchimerism most commonly occurs from the exchange of cells across the placenta during pregnancy

- Transferred through nursing
- Exchange of cells between twins in utero, vanishing twin
- Occurs at birth
- Time Release Capsule - possible that cells from an older sibling residing in the mother may find their way back across the placenta to a younger sibling during the latter's gestation. Example: Cells of a sibling born 3yrs prior can migrate across the placenta affecting the developing fetus.
- Some females may have cells from a variety of different sources coursing throughout the body: mother, grandmother, great grandmother (Cellular Repair - Inherited)
- Fetal microchimeric cells are similar to stem cells in that they are able to become a variety of different tissues and may aid in tissue repair.

**Practice tip:** Cellular Repair - Inherited, 8th Chakra - Family, Birth Vivaxis

- “Reverse Cellular Repair” - fetal cells from past pregnancies can circulate in the mother altering immune system expression (immune expression or autoimmune is inherited from the fetus instead of a parent, grandparent or relative).

**Practice tip:** muscle check if “Inherited RNA/DNA \_\_\_\_\_ is from fetus, from twin, vanishing twin, previous pregnancies.

- “Man on Floor!” - Fetal cells containing genetic information from the male can take up residence in organs such as: lung, thyroid, muscle, liver, heart, kidney and skin. They pass genetic information from the father to the mother. A child may “deliver” immune system triggers for diseases that otherwise appear nowhere in the woman’s own medical or family history.

“This diagnosis came out of nowhere” or “I’m the first one in my family history to have \_\_\_\_\_.”

- Question: what else is being passed from the dad to the mom (belief system, attitudes, expectations of life, coping mechanism, emotions, his family issues of conflict, communication, addictions, behaviors...?)
- Who’s Your Daddy? - The mother’s immune system recognizes a fetal cell left over from a previous pregnancy partly as belonging to the mother, because the fetus is genetically half identical to the mother, but partly foreign, due to the father’s genetic contribution. This may “prime” the immune system to be alert for cells that are similar to the self, but with some genetic differences.
- “Rejecting Daddy” - the high alert status can cause the immune system to turn against the self even though the cells are from the dad. Dr. Peter Murray, a researcher at St. Jude’s Children’s Hospital: “It is thought the immune cells from the fetus stimulate inflammation and bring about autoimmune disease.”
- It’s similar to graft-versus-host disease in which immune cells from donated tissue attacks the host’s immune system. (T-cell, B-cell, Environment, Relationships, Family Matrix being played out?)

**Consider this:** What is the trigger for the mom's immune system: relationship conflict, boundaries, feeling safe, respected, protected, nurtured, harmony, trust, forgiveness, communication? What about environmental factors such as: food, stress, chemicals, lack of sunlight, EMF, vitamin deficiency, metals...

- Microchimerism tends to be more common in people with multiple sclerosis than in their healthy siblings
- Arthritis Study: In a study published in 2014, UC Berkeley researchers looked at over 5,000 men and women, both with and without arthritis, and learned that “regardless of a women's own genetic risk, those with the disease were twice as likely to have given birth to children who had high-risk genes – most likely passed down from the father.”

### The Good of Microchimerism -

- Microchimeric cells might support the immune response to better fight off conditions already in the woman's own genetic makeup.
- Breast Cancer - more microchimeric cells are found in the blood of healthy women compared to those with breast cancer... suggesting that microchimeric cells can somehow prevent tumor formation.
- Alzheimer's - women who had Alzheimer's disease had fewer male microchimerism cells in their brain vs. females without Alzheimer's. Theory of male cells protecting the health of the female's brain

- **Migration of Microchimeric Cells Study**: mother rat with heart injury: that the fetal cells migrated to the maternal heart and differentiated into heart cells helping to repair the damage.
- **Morphing Into Brain Cells Study** - microchimeric cells in animal studies were found in maternal brains where they became nerve cells, suggesting they might be functionally integrated in the brain. Researches are looking into the possibility of the same being true of such cells in the human brain.
- **Blood Transfusions** - severely immune compromised patients who suffered trauma

## Resources:

### **Scientists Discover Children's Cells Living in Mothers' Brains**

<https://www.scientificamerican.com/article/scientists-discover-childrens-cells-living-in-mothers-brain/>

### **Are Fetal Cells Fatal Cells?**

<http://secondnexus.com/technology-and-innovation/fetal-cells-actually-fatal-cells-2/3/>

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