Factors Affecting Fertility

1. **Vitamin C Deficiency** – lowers progesterone production.
2. **Vitamin D Deficiency** – causes arrested follicular development.
3. **Vitamin A Deficiency** – teratogenic defects and increased new born morbidity risk.
4. **Vitamin E Deficiency** – causes infertility.
5. **General B-Vitamin Deficiency** – decreased ATP and cellular energy production.
6. **Folic Acid Deficiency** – leads to spontaneous abortion and neural tube defects.
7. **Vitamin B12 Deficiency** – reduced DNA and RNA production.
8. **Pantothenate Deficiency** – lowers progesterone production.
9. **Vitamin B6 Deficiency** – disrupts estrogen metabolism.
10. **Vitamin B3 Deficiency** – increased DNA damage.
11. **Calcium Deficiency** – abnormal hormonal messaging.
12. **Magnesium Deficiency** – disrupts estrogen and progesterone metabolism.
13. **Zinc Deficiency** – leads to birth defects, low birth weight, and infertility.
14. **Chromium Deficiency** – worsens blood sugar and exacerbates PCOS.
15. **Selenium Deficiency** – increases sperm and egg cell oxidation.
16. **Choline Deficiency** – abnormal fetal nervous system development.
17. **Inositol Deficiency** – causes abnormal fetal development.
18. **Low Carnitine And Glutathione Levels** – abnormal fetal development, birth defects, & spontaneous abortion.
19. **Low Carnitine And CoQ10 Levels** – reduction in sperm motility and sperm count.
20. **Poor Antioxidant Function** – contribute to both male and female infertility.

Other Factors Affecting Fertility:

21. Estrogen containing medications – cause folate, B-12, and B-6 deficiencies which contribute to birth defects and spontaneous abortion.
22. Excess sugar and dietary carbs – contribute to central obesity and PCOS risk. Excess carbs deplete zinc and magnesium. Both of these nutrient deficiencies contribute to infertility.
24. Metformin and Glucophage – as well as other medications used to treat PCOS dysinsulinemia cause vitamin B-12 and folate deficiency thus contributing to the risk of birth defects and spontaneous abortion. These meds also deplete CoQ10 (antioxidant status) contributing to infertility risk.
25. High caffeine (coffee) intake – Contribute to infertility. Can cause magnesium, zinc, B-1, and other water soluble nutrient deficiencies.
26. Inadequate Sun light – causes vitamin D deficiency which in turn can create excess androgen production contributing to the worsening of PCOS. Additionally, vitamin D deficiency can cause an arrest in follicular development.