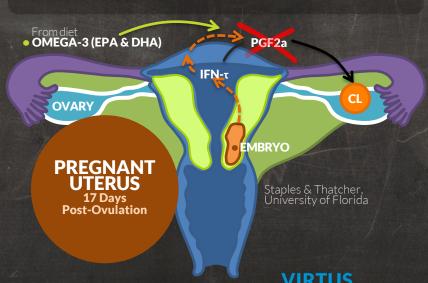


OMEGA IMPACT ON REPRODUCTION MAINTAINING PREGNANCIES

Two Primary Pathways for Early Embryo Recognition

- Reproductive Signal: A larger embryo produces a stronger signal to maintain pregnancy (more Interferon tau [IFN-τ] that blocks PGF2a) thus allowing the corpus luteum (CL) to stay.
- Immune Signal from Diet: EPA/DHA Omega-3s balance her immune response, reducing PGF2a, thus positively impacting embryo viability and maintenance.



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OMEGA-6 & OMEGA-3 FATTY ACIDS IMPACT ON REPRODUCTION

Impact of Omega-6 to Omega-3 Ratio on Prostaglandin Response Mattos, et. al. 2002

Prostaglandin levels were measured after an oxytocin treatment to determine responses to different levels of omega fatty acids.

Cows fed a more balanced omega 6:3 diet with added omega-3s had a lower spike in prostaglandin release, improving environment for the uterus to maintain embryo.

