

IMPROVE YOUR IVF & EMBRYO TRANSFER RESULTS WITH EPA/DHA OMEGA-3

STRATA™
WITH EPA/DHA OMEGA-3s

BENEFITS FOR DONORS

- Increase embryo development rate
- Increase % good quality embryos (freezable)
- Increase # viable embryos per ovum pick-up (OPU)

BENEFITS FOR RECIPIENTS

- Improve uterine environment receptivity
- Increase conception rate and improve embryo survival
- More pregnancies, more calves

EPA/DHA Feeding Protocol with Strata



RECOMMENDATIONS FOR DONORS

- Feed Strata for ideally 60 days prior to OPU for maximum benefit.
- If time on Strata is only 30 days prior to beginning OPU, double the feeding rate of Strata to achieve higher levels of EPA/DHA stored in repro tract more quickly.
- Expect the number of good quality embryos to improve over first 12 weeks of implementation before plateauing at the higher levels of viable embryos per OPU.

RECOMMENDATIONS FOR RECIPIENTS

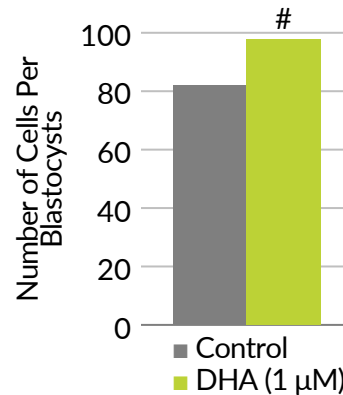
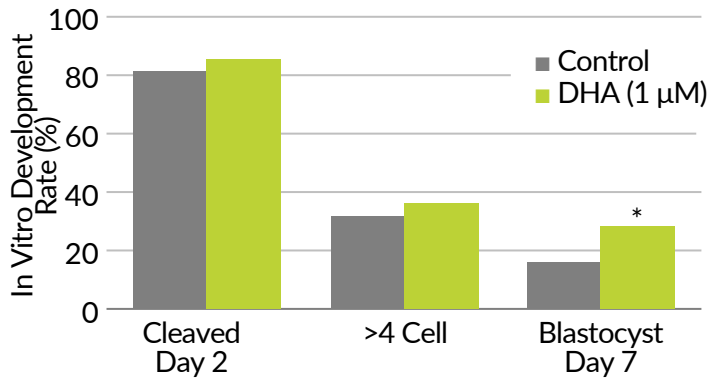
- Feed Strata for ideally 60 days prior to implantation and extended to 60 days post implantation.
- If time on Strata is significantly shortened, double the feeding rate of Strata.

Heifer/Cow BW, lb.	60-Day Rate Strata, g/head/day	30-Day Rate Strata, g/head/day
600	15.6	31.2
800	20.8	41.6
1000	22.0	44.0
1200	26.4	52.8
1400	30.8	61.6
1600	35.2	70.4

RECENT RESEARCH TO IMPROVE IVF & EMBRYO TRANSFER RESULTS WITH EPA/DHA OMEGA-3

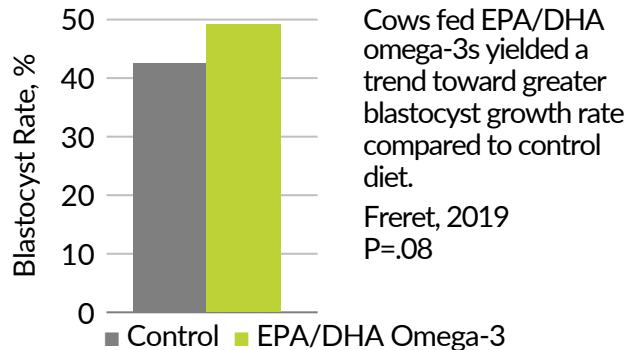
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IVF IMPROVEMENTS IN EMBRYO DEVELOPMENT RATE



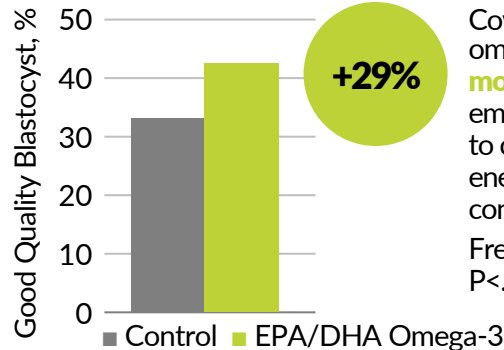
In this in vitro study, very low levels of DHA (.45 g or 1 µm) significantly improved day 7 blastocyst rate, plus showed a tendency toward greater cells per blastocyst. Oseikria, 2016
*P<.01
#P<.1

FEEDING EPA/DHA TENDED TO INCREASE BLASTOCYST GROWTH RATE



Cows fed EPA/DHA omega-3s yielded a trend toward greater blastocyst growth rate compared to control diet. Freret, 2019
P=.08

PLUS IMPROVED % GOOD QUALITY/ FREEZABLE EMBRYOS



Cows fed EPA/DHA omega-3 had **29% more** good quality embryos compared to cows fed an iso-energetic, iso-lipid control diet. Freret, 2019
P<.05

ECONOMIC EXAMPLE FOR DONORS

- Cost of IVF session @\$1100/4.7* viable embryos per OPU = \$234 per viable embryo.
- With a 29% improvement from feeding EPA/DHA (Freret 2019), # of viable embryos/OPU increases to 6.1, lowering cost/viable embryo to \$180.
- That's **\$54 less per embryo** (\$329 savings on 6.1 embryos) from improving OPU success.
- Cost to feed Strata (30g) to a 1400 lb. donor: ~10.5¢/day, totaling \$6.34 for 60 days prior to OPU.

Spend \$6.34 on adding EPA/DHA to save \$329 per OPU session with more embryos/OPU...quite the ROI!

* Average viable embryos per OPU, 2021 American Embryo Transfer Association Annual Report

ECONOMIC EXAMPLE FOR RECIPIENTS

- The average loss of a conventional pregnancy is \$323 (Cabrera 2014). However, the revenue lost when IVF pregnancies fail is often double or more given the additional cost of the embryo plus greater loss of genetic gain.
- Research has shown that EPA/DHA can reduce early embryo loss by as much as 50% (Santos, 2005; Silvestre, 2008).
- Feeding Strata for 60 days prior + 60 days post implantation costs ~\$12.60... a small investment to provide essential nutrition & reduce loss of valuable embryos.

END RESULT: More successful pregnancies!

Assumptions: Strata cost @ 10.5 cents per head per day (30 grams). Feeding rate recommendations vary based on cow/heifer bodyweight.