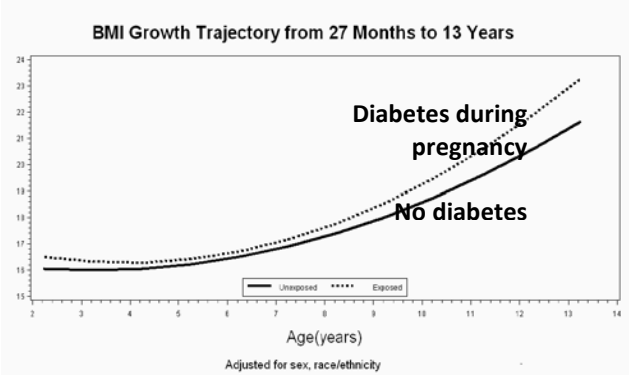
# Lifecourse Epidemiology of Adiposity & Diabetes (LEAD) Center

colorado school of public health

## Trainee Profile: Tessa Crume, PhD (2010)

Dr. Crume studied the role of exposure to maternal diabetes in utero on childhood obesity patterns. She found that exposure to diabetes in utero increases adiposity in 10-year old youth.




**Published Research**

Crume TL, Ogden L, Daniels S, Hamman RF, Norris JM, Dabelea D. The impact of in utero exposure to diabetes on childhood body mass index growth trajectories: the EPOCH study. *J Pediatr.* 2011;158(6):941-946.

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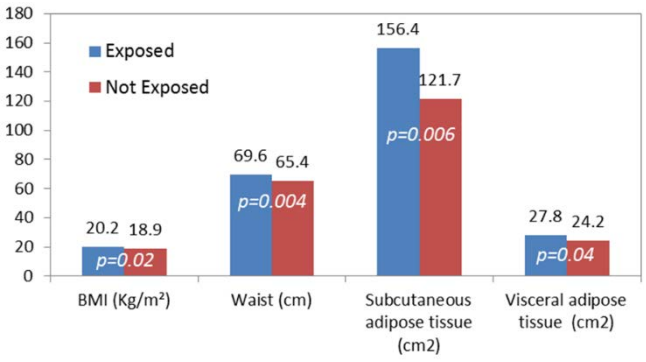
Crume T, et al. Exposure to diabetes *in utero* increases adiposity in 10-year old youth in the EPOCH Study. *Diabetologia* 2011;54:87-92 (see figure right)

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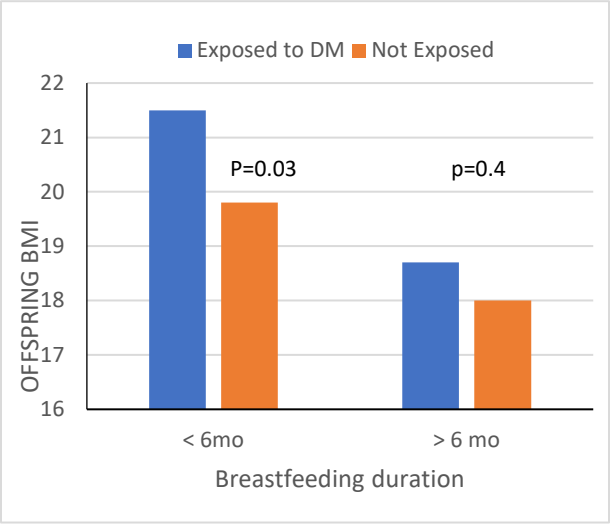
Crume T, et al. Breastfeeding reduces the effect of exposure to diabetes *in utero* in the EPOCH Study. *Diabetes Care* 2011;34:641-645




Crume and her colleagues measured body mass index (BMI), waist circumference, and subcutaneous and visceral (intra-abdominal) fat with magnetic resonance imaging (MRI). Among youth aged ~10 years, all adiposity measures were significantly higher if mother had diabetes during pregnancy and breastfed < 6 months than among those without diabetes (p=0.03).

No measure was significantly higher if mother had diabetes during pregnancy but breastfed > 6 months than among those without diabetes (p=0.4) (see figure above).

**Contact us about training opportunities:**

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