

Vaping's Effect on Fetal Development: Implications for Public Health



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Children's Hospital Colorado



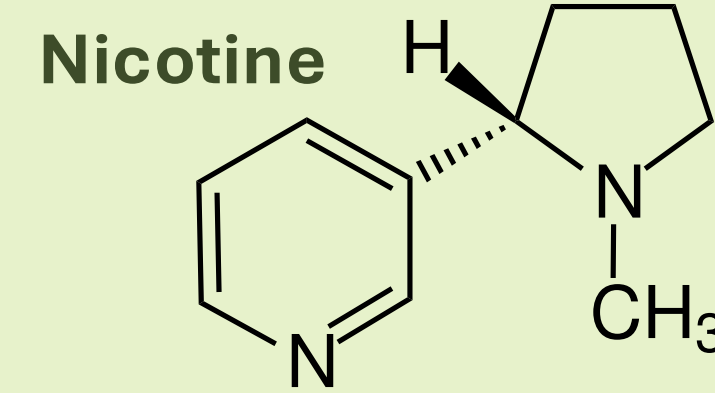
Colorado vaping statistics 2022

- ❖ 12% of women reported using vapes
- ❖ 42.6 % of current users reported vaping in the 3 months leading up to pregnancy
- ❖ 10.8% of women reported vaping during the 3rd trimester

Colorado Health data 2022

Perceived safety of vaping during pregnancy

50 women who were surveyed switched to Vaping after learning they were pregnant



23 women cited "vaping being safer than cigarettes" as the reason for the switch

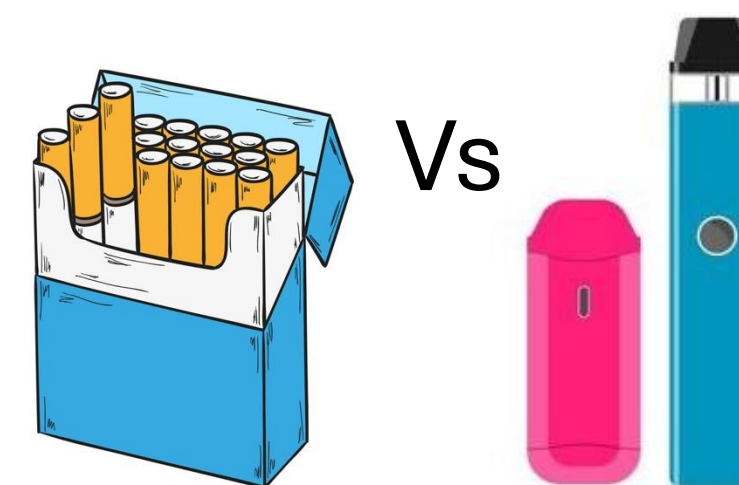
2 women cited "at the direction of a health care provider" as the reason for the switch

9 women cited "vaping as a means to quit cigarettes" as the reason for the switch

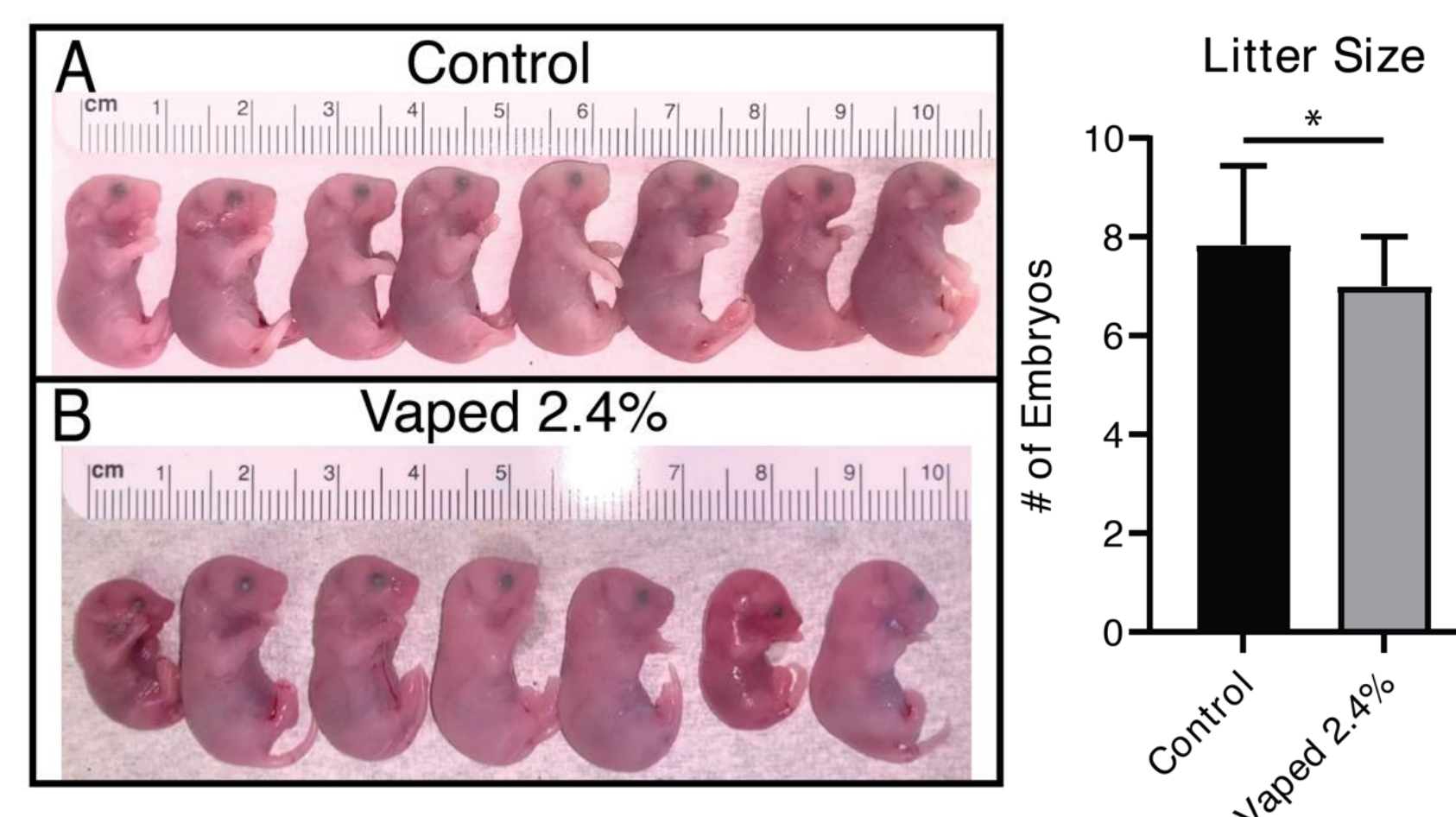
Wagner et al. 2017. Maternal and Child Health. doi: [10.1007/s10995-016-2257-9](https://doi.org/10.1007/s10995-016-2257-9)

Study Design and Methods

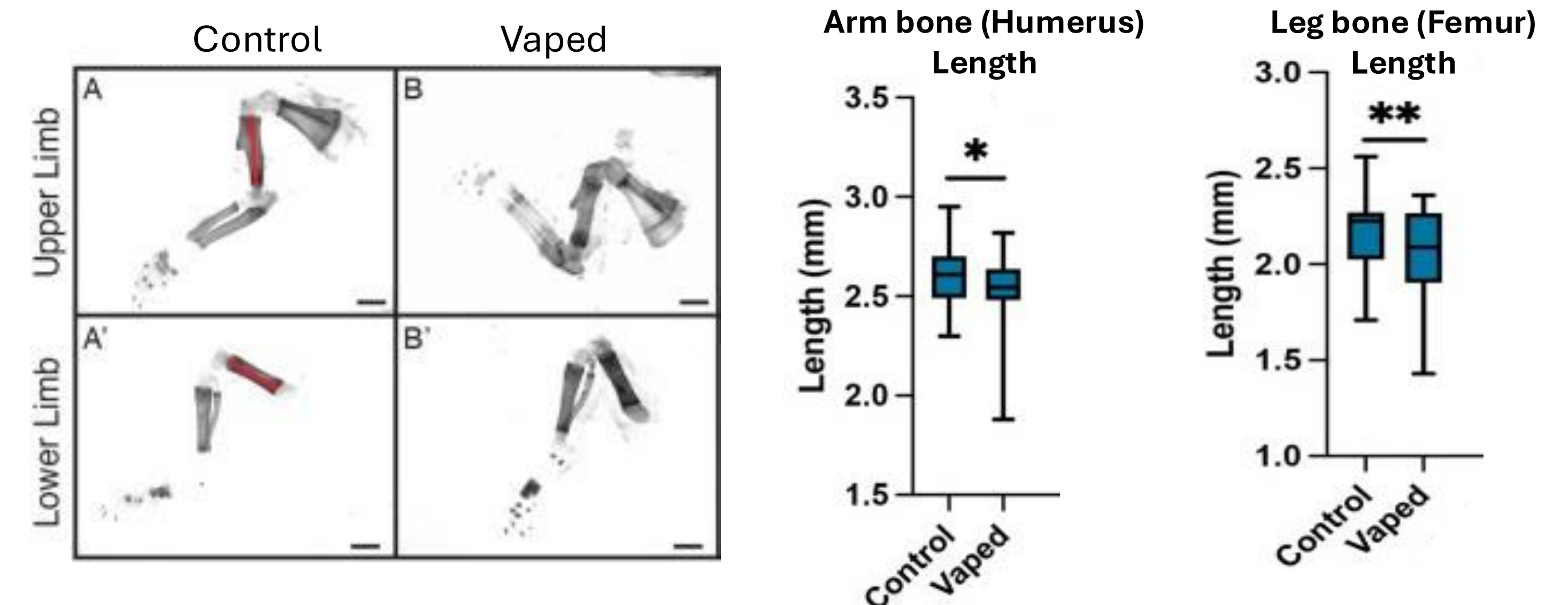
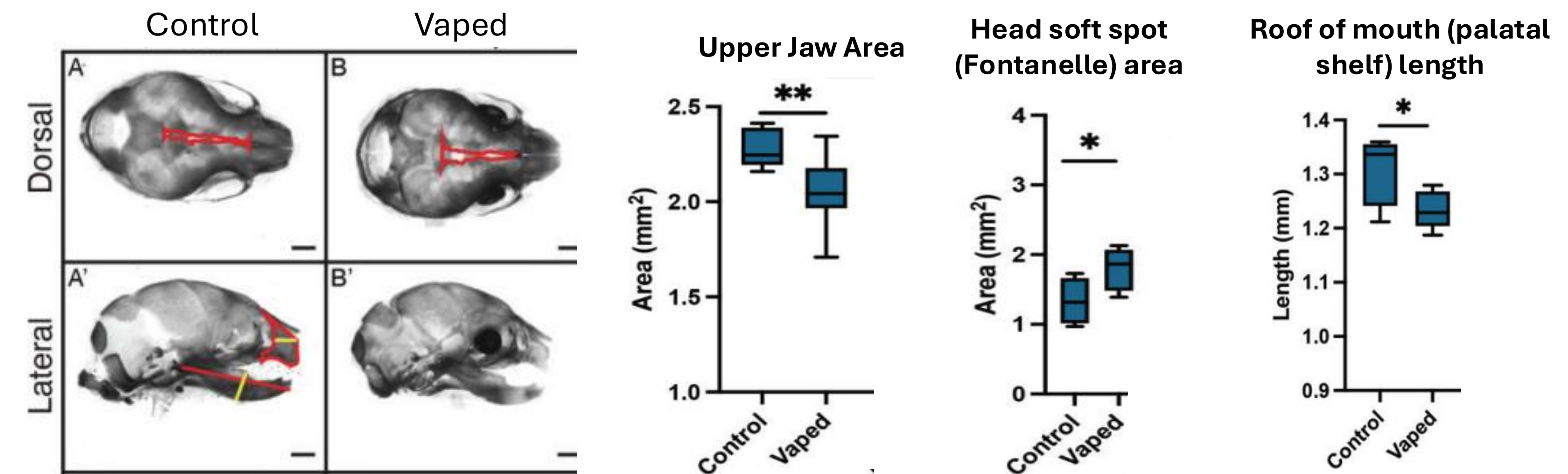
35% of women say vaping is safer than cigarettes during pregnancy



Outcomes: Vaping during pregnancy decreases mouse litter size and leads to growth restriction



Outcomes: Vaping during pregnancy changes facial structures and reduces arm and leg bone length



Conclusions:

1. Vaping and smoking cigarettes during pregnancy disrupt fetal development
2. Vaping during pregnancy causes birth defects in mice

