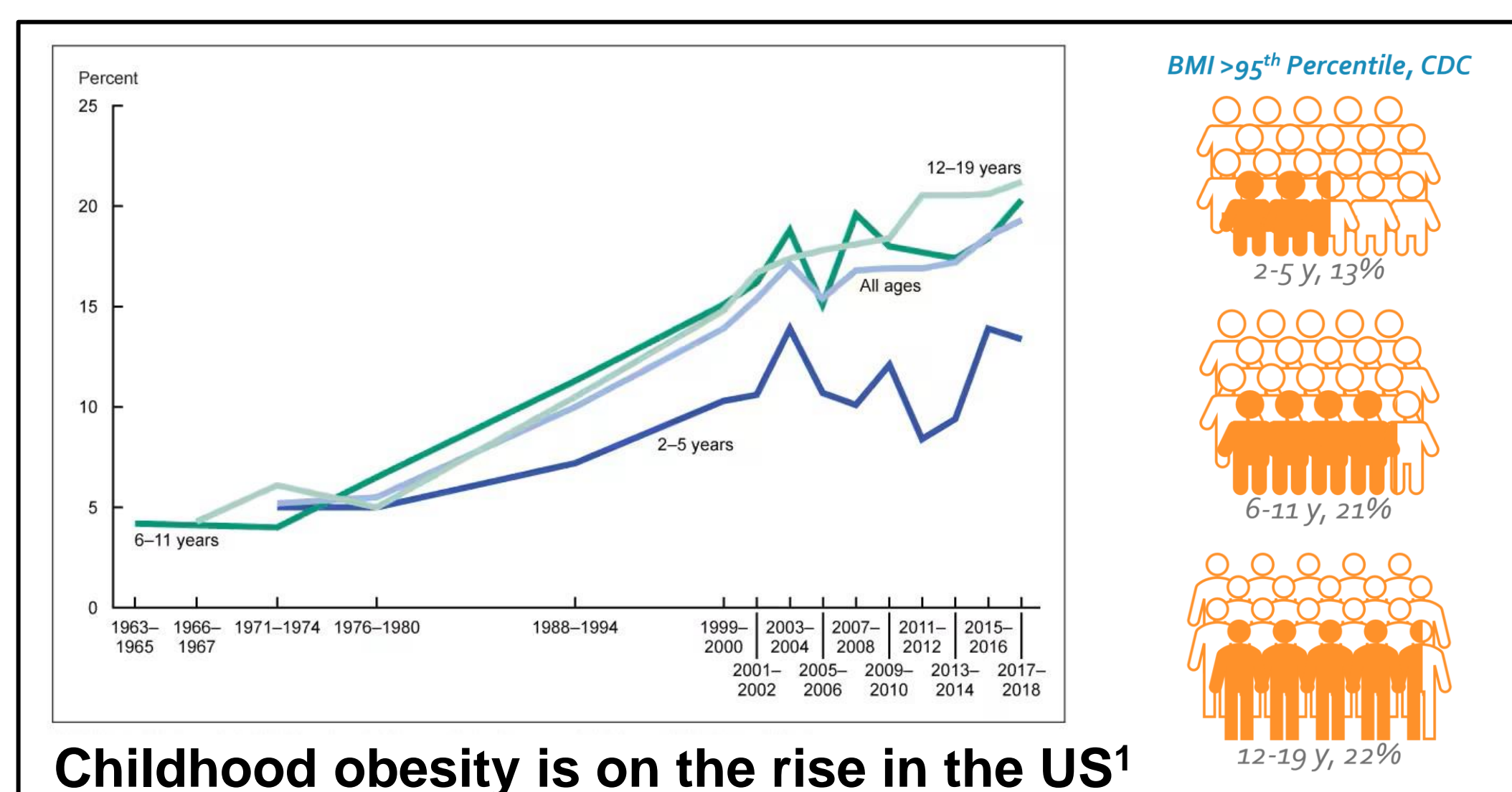


Umbilical cord cells can tell us about the future of child health

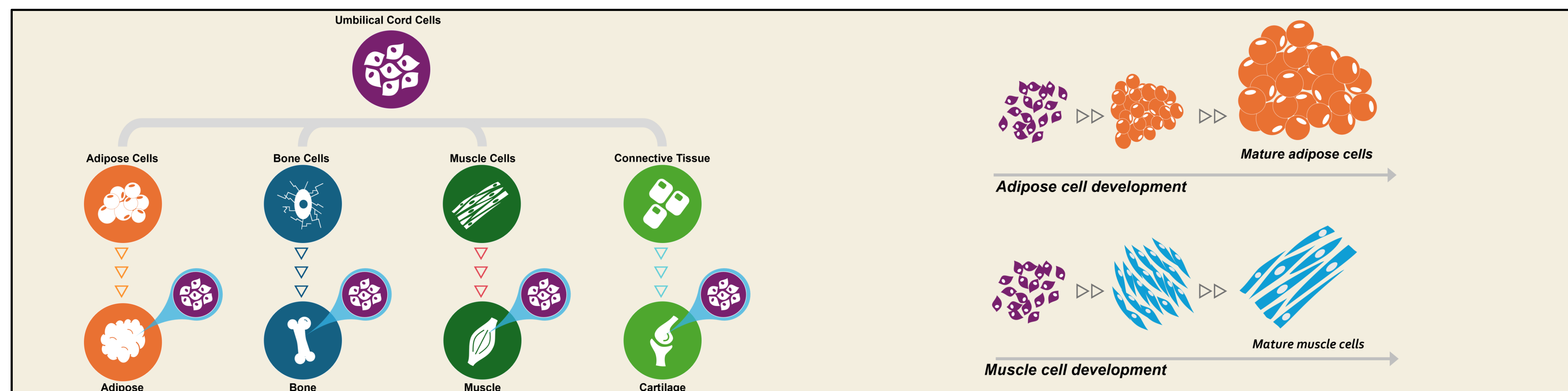
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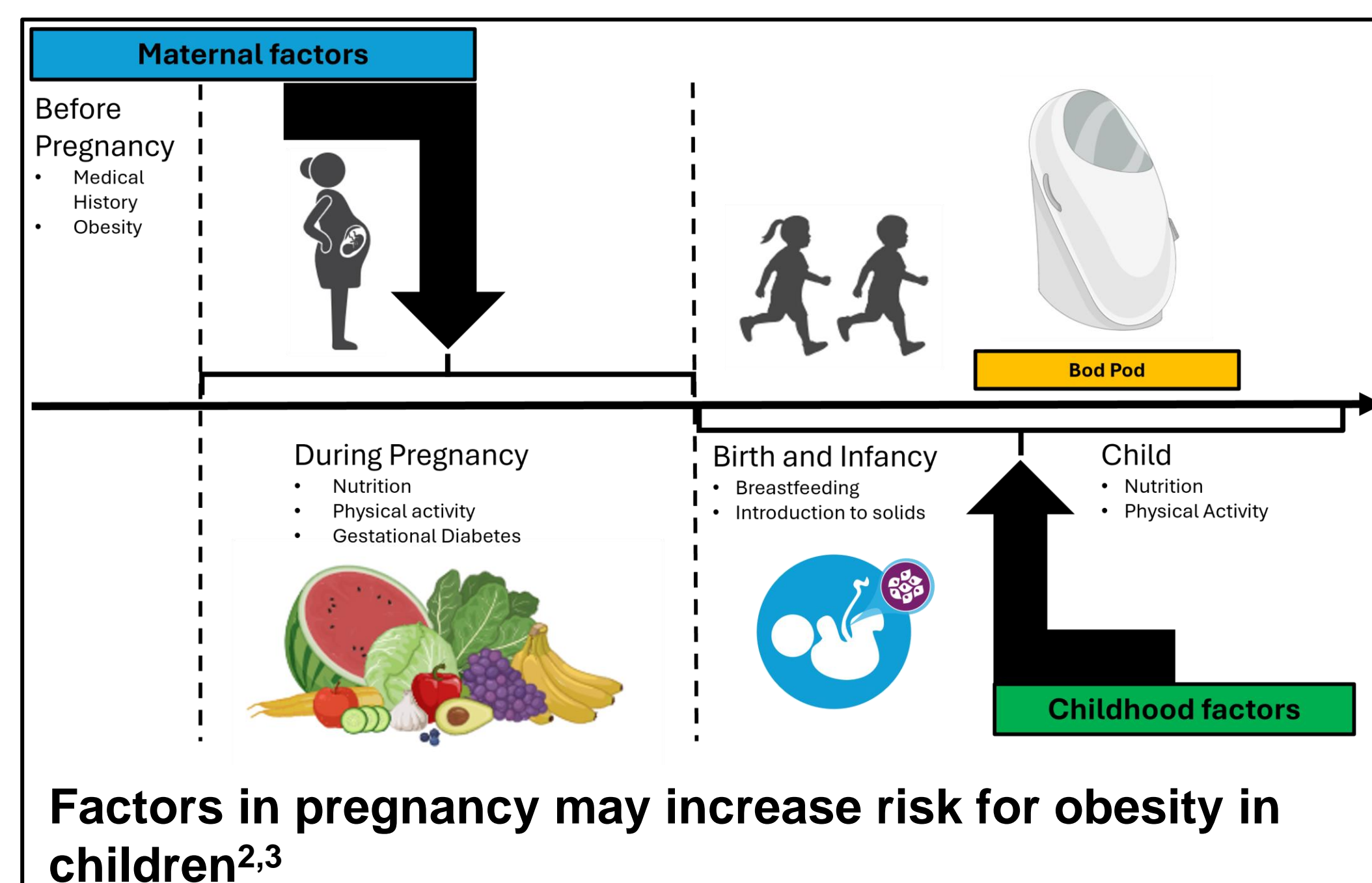
Why we care



How we study umbilical cord cells

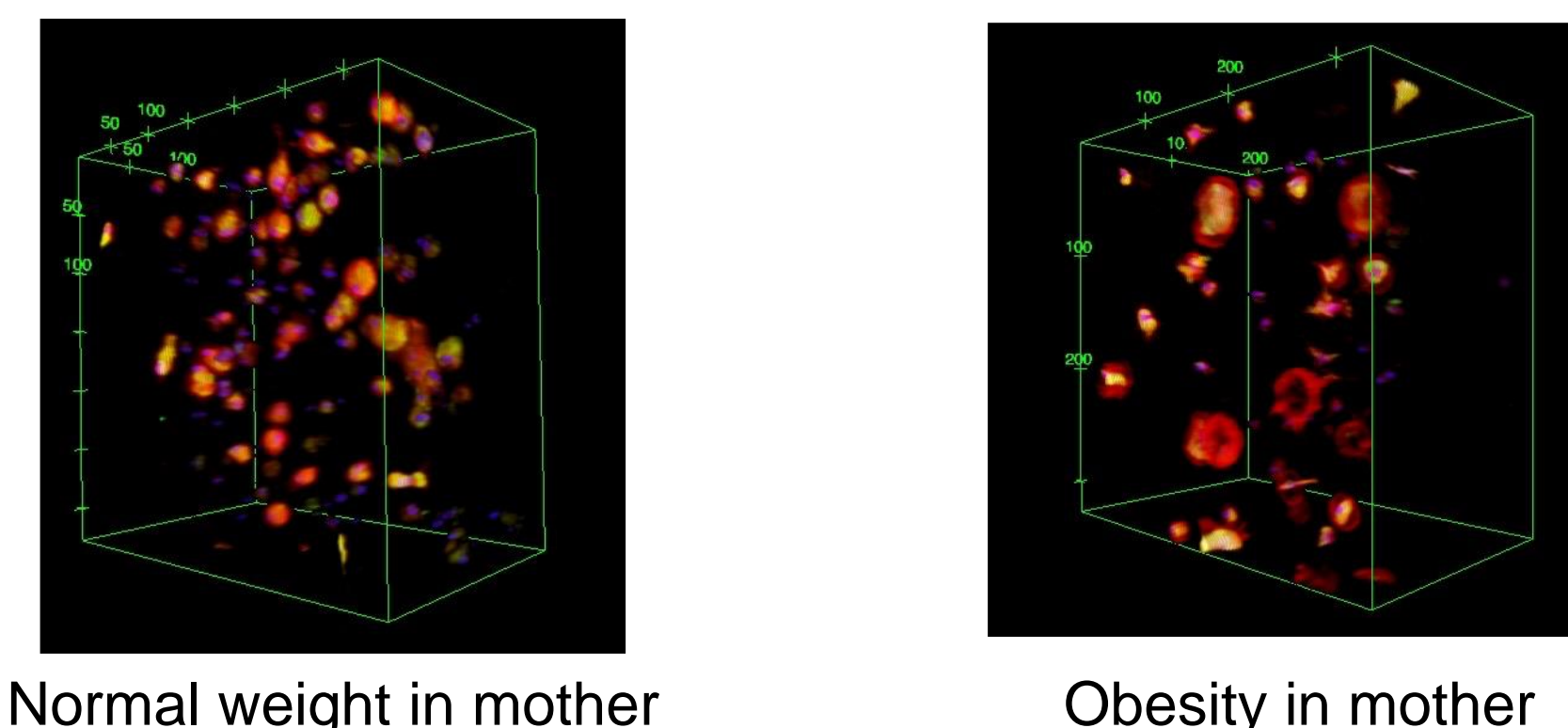


Study timeline

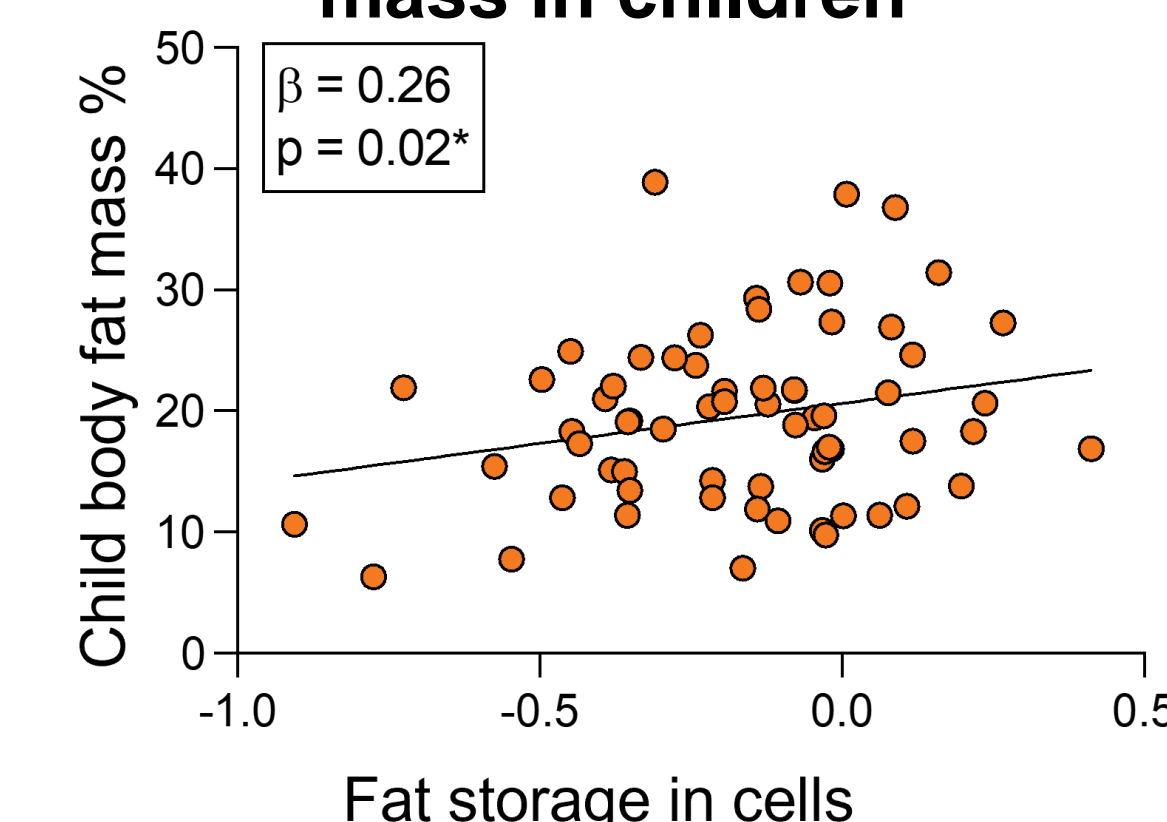


What we found

Umbilical cord cells were 73% larger from mothers who had obesity during pregnancy⁴



Fat storage in umbilical cord cells predicts body fat mass in children⁵



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References: 1) Fryar, CD. *NCHS Health E-Stats* (2020). 2) Moore, BF. *J Pediatr* (2018). 3) Starling, AP. *Am J Clin Nutr* (2015). 4) Keleher, MR. *Obesity* (2023). 5) Gyllenhammar, LE. *Obesity* (2023).