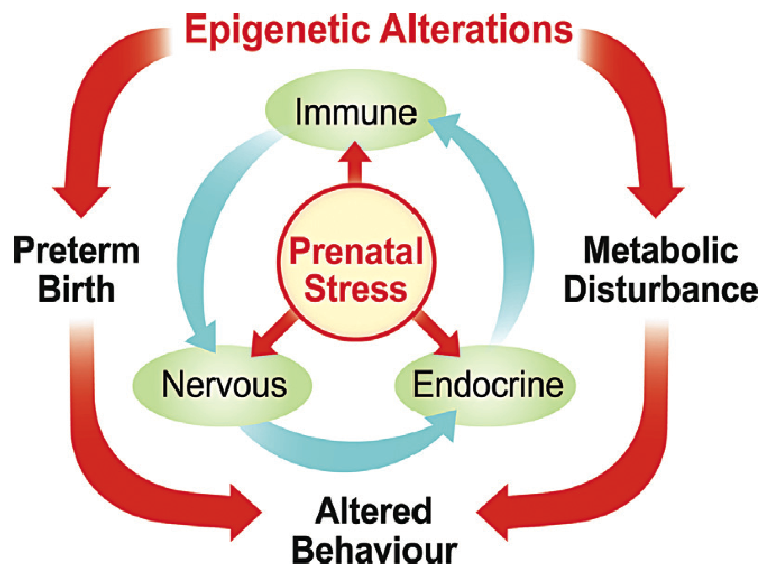


FELICITy Studie



	Start				End
Gestational age	28-40 weeks	2-4 weeks later	1st observation	2nd observation	3rd observation
Stages of measurements	Stress level assessment by PSS-10 and PDQ	Follow-up: psychological profile of mothers	Birth	Post-delivery assessment	Follow-up end 18 months
Days of experiment	0	0	1	2-7 and 180	548
Group	"Healthy" (n=65) or "stressed" (n=65) fetuses		25% drop out -> n=49		25% drop out -> n=37
Measurements of fetus/infant/mother	<ul style="list-style-type: none"> Cortisol in hair Maternal blood Cord blood Saliva Stool Placenta 		↑↑↑↑		↑
	fECG/CTG or Finapres	↑	↑	↑	↑
	QN breast feeding/depression symptoms			↑	
	BSID				↑
	PSS-10: Cohen perceived stress scale; fECG: fetal electrocardiogram; CTG: cardiotocography; QN: questionnaire; BSID: Bayley scales of infant development				

FRAUENKLINIK – GEBURTSHILFE UND PERINATALMEDIZIN

Prospective clinical cohort.

- t-a fECG: transabdominal fetal electrocardiogram (ECG, intermittently throughout the study)
- mECG: maternal ECG (intermittently throughout the study, see arrows)
- Psychological profiling in mothers will consist of
 - Prenatal stress test PSS-10 (Cohen perceived stress scale, 30-34 weeks of gestation)
 - State-Trait Anxiety Inventory (STAI) 2-4 weeks later (prior to birth)
 - STAI and Edinburg Postnatal Depression Scale test (2nd and 3rd observations)
- BSID-III: Bayley Scale III of Infant Development test (3rd observation)
- Cord blood: arterial or venous umbilical cord blood (at birth)
- Saliva: saliva sample for DNA extraction and epigenetic analyses (at birth and 3rd observation)
- Placenta: IHC, microbiome: 16S rDNA and metagenomics (at birth)
- Stool: meconium, first stool (at birth)