

Safer Childbirth Cities: Perinatal Risk Assessment



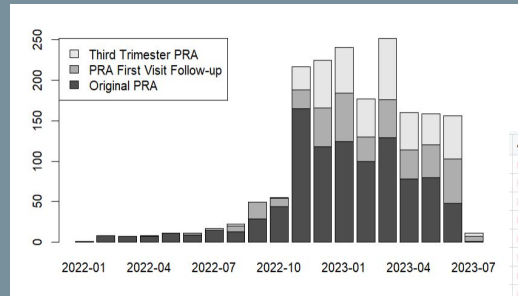
Introduction

- THT is a community health partner that aims to serve the well-being of the greater Trenton community
- Many different areas of service are conducted including both data analytics and in-community outreach efforts

Objective and Work Profile

- I was working on the Analytics & Insights team
- Was provided with the Perinatal Risk Assessment form data from thousands of women across New Jersey of CapitalHealth
- Performed descriptive statistics and analysis
- Goal was to understand the clinical and social determinants of health challenges faced by pregnant patients

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Visualization of the number of PRA responses over time

display	No	Unknown	Yes	n
Psychosocial Risk Factors: Currently in Foster Care	4843	194	5	5042
Psychosocial Risk Factors: Disabled	5002	19	21	5042
Psychosocial Risk Factors: Domestic Violence	4977	30	35	5042
Psychosocial Risk Factors: Eating Disorder	5004	23	15	5042
Psychosocial Risk Factors: Education	4265	45	732	5042
Psychosocial Risk Factors: Homeless	5006	17	19	5042
Psychosocial Risk Factors: Husband/Partner Unemployed	3120	892	1030	5042
Psychosocial Risk Factors: Inadequate Social Support	4737	218	87	5042
Psychosocial Risk Factors: Nutritional Concerns	4840	38	164	5042
Psychosocial Risk Factors: Perinatal Depression	4865	37	140	5042
Psychosocial Risk Factors: Transportation Problems	4681	24	337	5042
Psychosocial Risk Factors: Unemployed/Inadequate Income	3227	787	1028	5042
Psychosocial Risk Factors: Unplanned Pregnancy	2848	45	1469	4362
Psychosocial Risk Factors: Unstable Housing	4951	27	64	5042

Examples of the Psychosocial Risk Factor questions on the PRA

Continuing Work

- Need to determine who this dataset would provide value to and what form that will take
- Continue to use the outline for further analyses set up in the R Project
- Comprehensive reports to be compiled in the near future
- Move on to modeling with predictive algorithms? Choose new parameters?

Reflection

This internship was interesting to me as a stepping stone into data analytics in the real world, contextualized against the lived experiences of people who benefit from THT's services. It helped me to understand what areas I would like to pursue in the future, and also how rigorous and thorough responsible care can and should be. It also highlighted how data in the real world is not always perfect and requires critical thinking and processing before becoming valuable.

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