

Insurance Coverage and NIPT: Implications for Health Equity

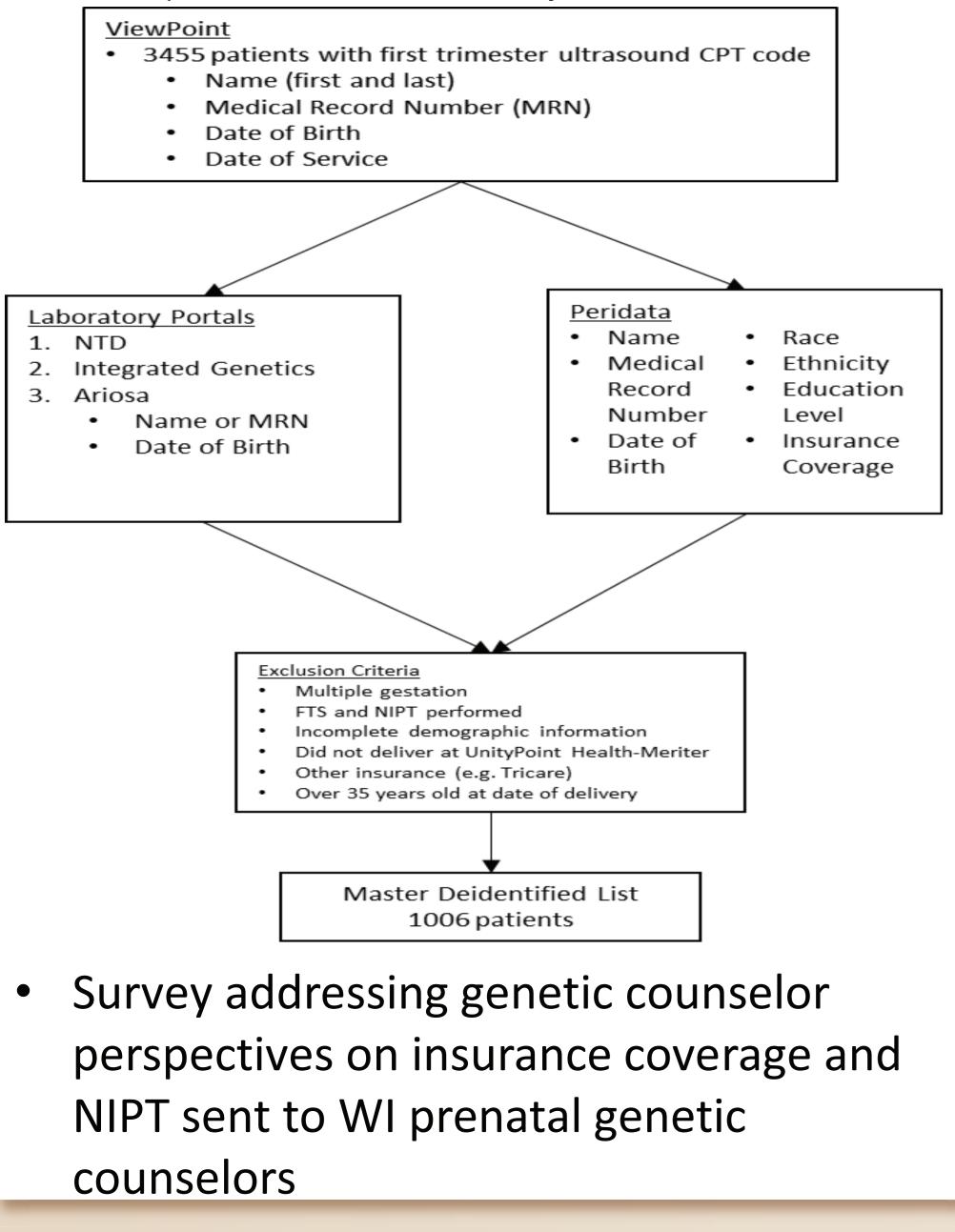
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BACKGROUND

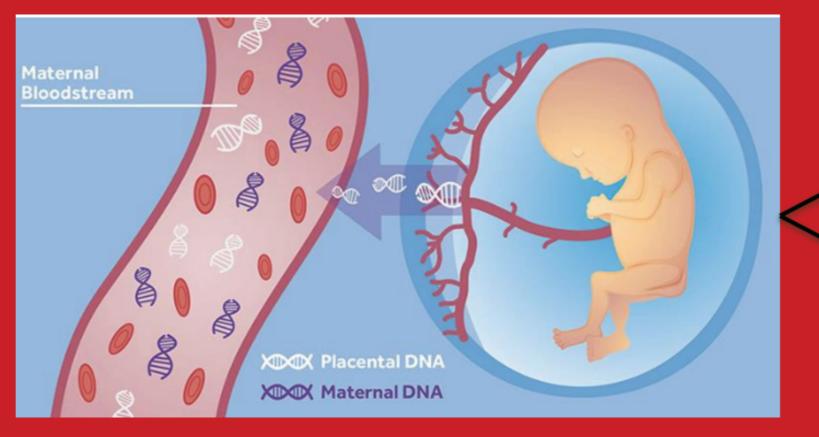
- Non-Invasive Prenatal Testing (NIPT) tests for Trisomy 21, Trisomy 18, Trisomy 13, sex chromosome aneuploidies, and some microdeletions
- Private insurance companies do not cover test for "low-risk" pregnancies (i.e. advanced maternal age, no ultrasound markers)
- "Low-risk" women with public insurance do not incur a cost

METHODS

Patient criteria: met with a prenatal genetic counselor in first trimester and delivered at UnityPoint-Meriter Hospital



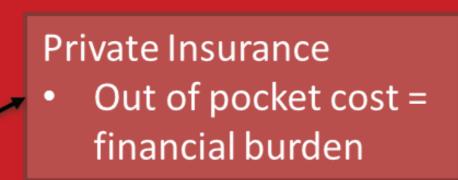
"Low risk" women with public insurance that covers NIPT were **3.43 times** more likely to have NIPT than women with private insurance



We conclude that some women cannot choose the prenatal chromosomal aneuploidy screening test of their choice due to financial barriers put into place by the lack of complete insurance coverage.

RESULTS

	Chi-square (df)	P value	OR (95% CI)
Insurance Alone	57.249 (1)	<0.001	3.43 (2.50 , 4.71)
(Private/Public)			
Education (none/some)			
Ignoring Insurance	18.525 (1)	< 0.001	2.06 (1.49 , 2.85)
Adjusting for Insurance	0.324 (1)	0.569	1.12 (0.76 , 1.64)
Race (non-white/white)			
Ignoring Insurance	6.637 (1)	0.011	1.54 (1.11 , 2.13)
Adjusting for Insurance	0.370 (1)	0.543	1.12 (0.78 , 1.58)
Ethnicity (Hispanic/Non- Hispanic)			
Ignoring Insurance	10.606 (1)	0.001	2.02 (1.33 , 3.06)
Adjusting for insurance	0.979 (1)	0.322	1.26 (0.80 , 1.97)
Insurance (Public/Private)			
Ignoring others	58.260 (1)	<0.001	3.46 (2.52 , 4.75)
Adjusting for others	32.296 (1)	<0.001	3.06 (2.08 , 4.51)



Public Insurance No financial burden

Women with public insurance were 3.43 times more likely to have NIPT than women with private insurance

- No evidence that additional demographic variables interact with each other
- Each variable is separately associated with NIPT, but associations disappear once allowance is made for type of insurance

Survey results:

- More genetic counselors would recommend NIPT to patients if insurance wasn't a barrier (88% vs 64%)
- More likely to discuss financial risks associated with NIPT for private insurance (82% vs 53%)
- Majority agreed that patient's insurance coverage did not impact their counseling





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CONCLUSIONS

 Inequity exists for women with private insurance who want NIPT but are unable to endure the financial costs • Decisions about NIPT could also be influenced by how genetic counselors present the information Genetic counselors spend a portion of appointments discussing costs

ADDITIONAL KEY INFORMATION

Additional discussion: Introduces a different way that health equity may be considered Affirms that costs of testing and financial risks are a barrier to equitable care even with insurance in place • Suggests that genetic counselors or others must allot sufficient time in appointments to discuss cost and insurance coverage of tests

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Acknowledgements: Thank you to biostatistician Michael Lasarev MS, Natalie Berger, MS, CGC, Anna Zakas, MS, MPH, CGC, Hannah Ward, MS, CGC, UW SMPH Masters of Genetic Counselor Studies Program