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Preconception Care: Identifying Indicators to Reduce Pre-term BirthsKama

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Preconception Maria Macaluso; Ashwini Kamath M	
Introduction	
 The United States ranked 33 out of developed nations in highest numb mortality 	
 Preconception care has shown to k in: 	
 greatly helping prevent infant mortality improving the health of the mothers Barriers to preconception care included Lack of insurance coverage Limited accessibility 	
Objectives	
 Determine whether there is an asse between preconception care and a in the number of pre-term births Determine whether any of the eleve preconception care indicators have incidence of linkage to pre-term bir Learn about clinicians' approaches preconception care 	
11 Preconception Care Indicat	
1. Pregnancy Intention	7 Absence
2. Access to Care	8. Controlle
3. Multivitamin Use	9. Avoidance o Medi
4. Tobacco Avoidance Controlled	10. Controlled
5. Depression	11. Avoidan Subs
6. Healthy Weight	JUDS

n Care: Identifying Indicators to Reduce Pre-term Births Julki, MD; Melanie B Johnson, MPA; Elaine S Banerjee, MD, MPH; Beth A Careyva, MD; Katarzyna Jabbour, PharmD; Kyle Shaak, MPH; Nicole M Burgess, BS

Methods

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Part 1

Appointments, medications, and other screenings were examined through Epic to identify the presence of the 11 preconception care indicators in 100 women

Part 2

Interviewed primary care physicians using a set of standard questions to collect data on their approach to preconception care including which indicators the clinicians focus on, linkage to preterm births, and barriers they face

Results

Part 1

• During the initial chart audit of 100 patients, it was necessary to modify exclusion criteria to better interpret patient medical data for analysis of preconception care indicators

Part 2

- During the interviews, the physicians discussed the lack of standard guidelines in offering preconception care to women
- The most significant risk factors that these physicians look for are depression, teratogenic medications, and obesity
- Physicians rarely speak to men about preconception care

The data from each patient's chart was recorded in REDCap, which is used to store and analyze research databases

- 2.

- providing this care
- Preconception Care for Men
 - care
- https://doi.org/10.1186/1742-4755-10-S1-S3
- and believe? Journal of Men's Health, 9(1), 25-35. https://doi.org/10.1016/j.jomh.2011.11.001
- 017-2370-4
- Providers. Maternal and child health journal, 21(1), 21–28. https://doi.org/10.1007/s10995-016-2089-7
- 336–343. https://doi.org/10.1016/j.amepre.2016.02.013
- report/findings-international-comparison



Conclusion

Once the exclusion criteria of patients are modified, an analysis of the chart audits will assist with determining infrastructure for providing preconception care Better understanding of preconception care indicators will help to identify and reduce risk factors of pre-term birth, resulting in healthier birth outcomes for babies and mothers long term

Future Research

 Additional Interviews and focus groups will further help identify how preconception care is provided in a clinical setting and barriers to

 Important to ensure that men have healthy sperm Only around 8.3% of men receive any preconception

 In comparison to women, men receive preconception care much less frequently in publicly funded clinics

References

Dean, S. V., Mason, E., Howson, C. P., Lassi, Z. S., Imam, A. M., & Bhutta, Z. A. (2013). Born too soon: care before and between pregnancy to prevent preterm births: from evidence to action. Reproductive health, 10 Suppl 1(Suppl 1), S3.

• Frey, K. A., Engle, R., & Noble, B. (2012). Preconception healthcare: What do men know

• Maternal and Child Health Journal, 21(11), 2025–2039. https://doi.org/10.1007/s10995-

• M'hamdi, H. I., van Voorst, S. F., Pinxten, W., Hilhorst, M. T., & Steegers, E. A. (2017). Barriers in the Uptake and Delivery of Preconception Care: Exploring the Views of Care

Robbins, C. L., Gavin, L., Zapata, L. B., Carter, M. W., Lachance, C., Mautone-Smith, N., & Moskosky, S. B. (2016). Preconception Care in Publicly Funded U.S. Clinics That Provide Family Planning Services. American Journal of Preventive Medicine, 51(3),

 United Health Foundation. (n.d.). Infant Mortality. America's Health Rankings. Retrieved July 8, 2020, from https://www.americashealthrankings.org/learn/reports/2018-annual

