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Apr 4th, 9:40 AM - 9:55 AM

Behavioral Correlates for Quitting Opioids among Opioid-Dependent Pregnant and Non-Pregnant Women of Childbearing Age in Rural Appalachia

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Kompella, Sindura; Orimaye, Sylvester Olubolu; Dsouza, Nigel; Goodkin, Karl; Kendell, Steven; Wallace, Susan; and Willson, Tracy, "Behavioral Correlates for Quitting Opioids among Opioid-Dependent Pregnant and Non-Pregnant Women of Childbearing Age in Rural Appalachia" (2018). Appalachian Student Research Forum. 31.

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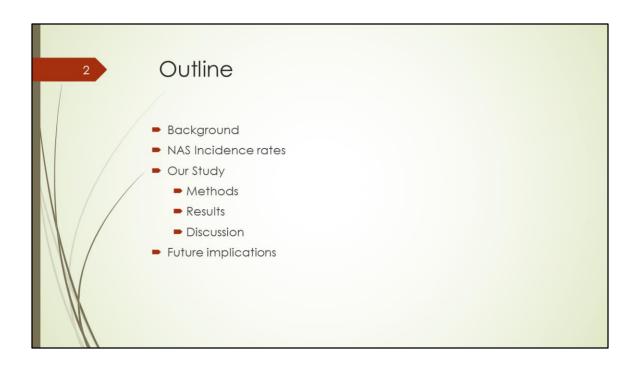
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Appalachian Forum

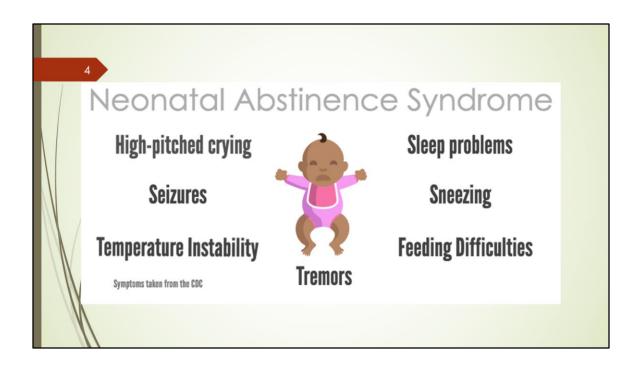
April 4, 2018

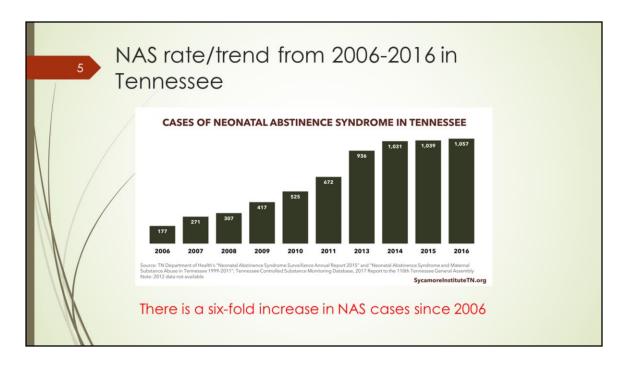


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Neonatal Abstinence Syndrome

- United States is the largest consumer of prescription opiates in the world.
- Tennessee has the highest incidence of NAS cases.
- Maternal Use of opiates during pregnancy results in NAS, babies can have a variety of symptoms which are life threatening.
- Opiates cross the placental barrier during pregnancy and drug dependence develops in babies before birth.
- Heroin, Codeine, Methadone, oxycontin (painkillers, prescribed medications for addictive behavior or abused due to illicit drug use).

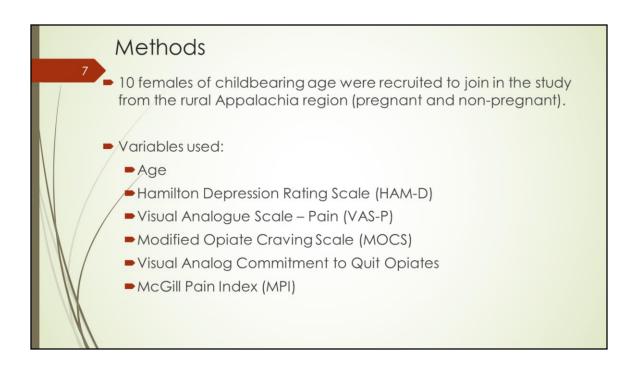




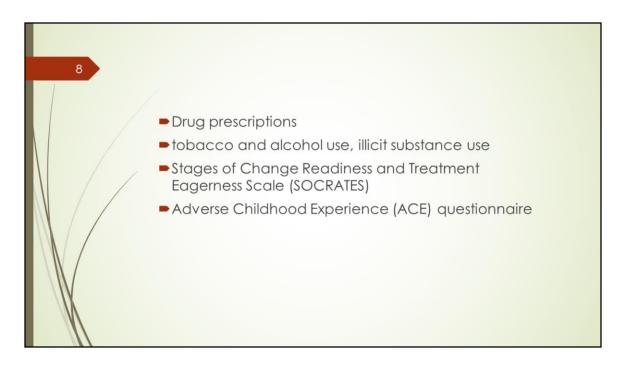
Medication- assisted treatment for opiate use.

- 52.5% of children diagnosed with NAS in Tennessee have had exposure to one prescription drug.
- 27.2% were exposed to a combination of prescribed medications and illicit substances.

In this study: We examined the behavioral correlates that determine the wish to quit opioids or not to quit opioids among opioid-dependent pregnant and non-pregnant women in rural Appalachia.

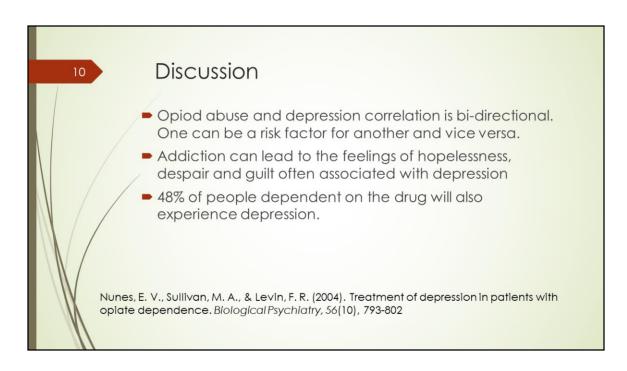


All were receiving physician-managed Medication Assisted Treatment (MAT) therapy for the treatment of severe opioid use disorder, or are currently being prescribed an opioid medication.



- -The HAM-D, MOCS, MPI, and SOCRATES scores were log-transformed to approximate a normal distribution to ensure equal distribution between each of the variables.
- -Descriptive statistics and the Spearman's rank correlation (with a 95% Confidence Interval) were conducted to examine significant behavioral correlates for quitting opioids.

Results
Women with higher HAM-D and MOCS scores are not likely to express willingness to quit opioids. There is a statistically significant strong positive correlation of 0.679.
Women with high depression and pain scores are not likely to quit opioids.
Women who recognize the need to quit opioids or are "taking steps" to quit are more likely to quit opioids.



Depression bears a complex relationship to opiate dependence and may represent an independent disorder or may be engendered by psychosocial stress or toxic and withdrawal effects of drugs.

Future Implications

Use larger sample size

Explore correlation of Depression, Pain scores and Opiate abuse in different regions of US.

Consider Non-opioid medications

