



# Evaluating Cervical Cancer Risk

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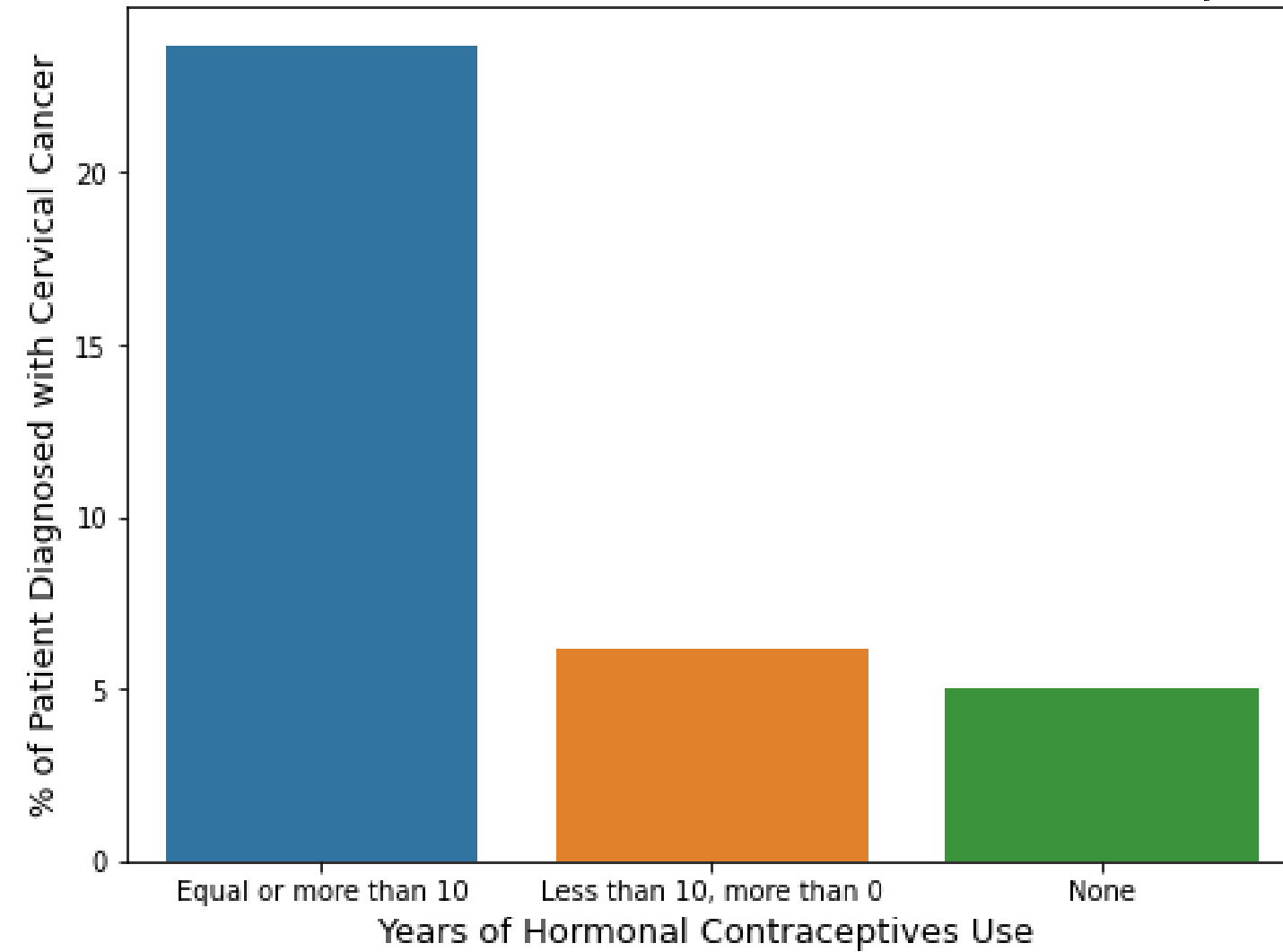
By Paula Pipkin

# Data - Goals

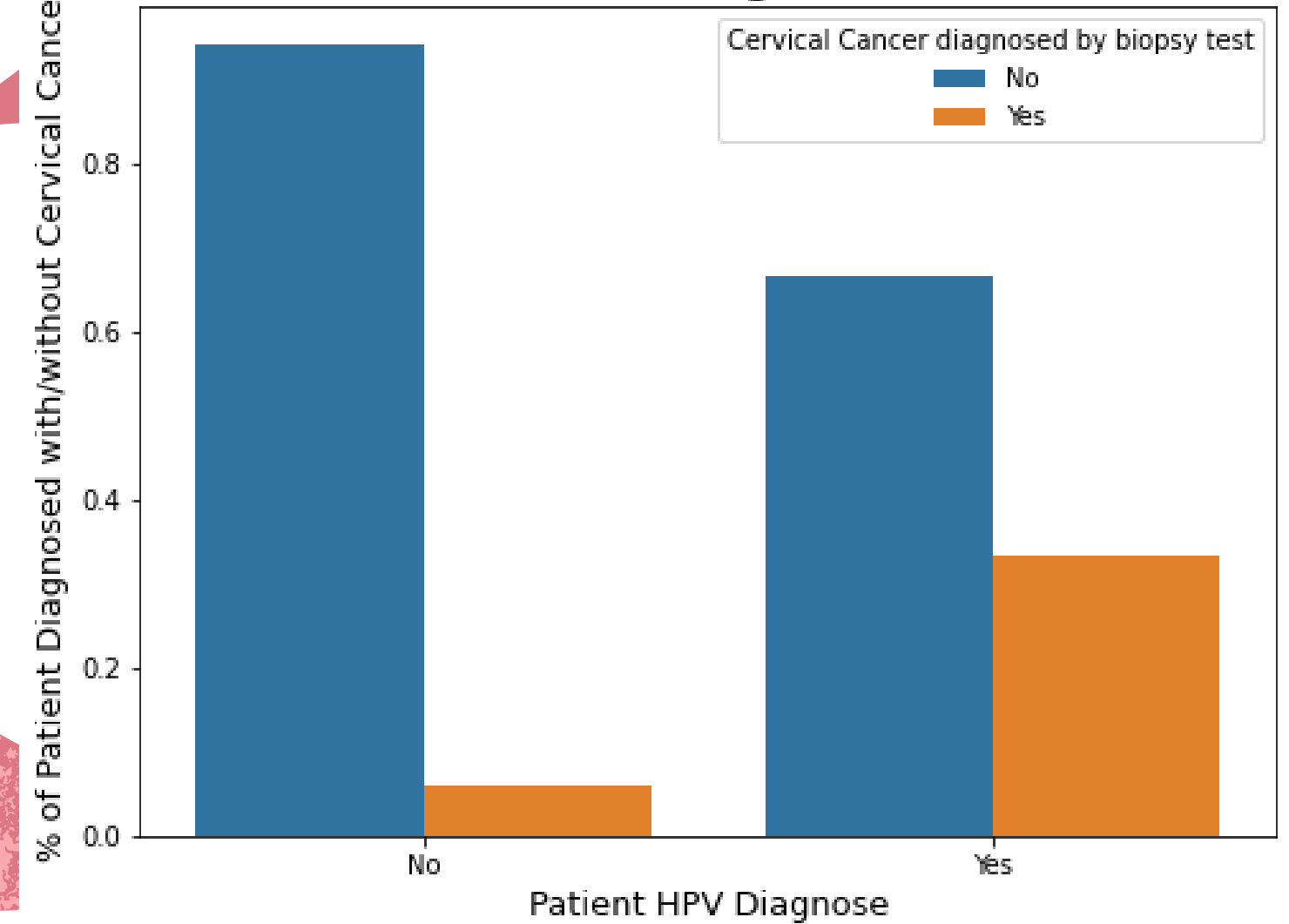
- This dataset focuses on the prediction of indicators/diagnosis of cervical cancer by predicting the result of the biopsy test.
- The features cover demographic information, habits and historic medical records.
- Our goal is to save resources in diagnosing patients

# Trends

Cervical Cancer vs Period of Hormonal Contraceptives Use

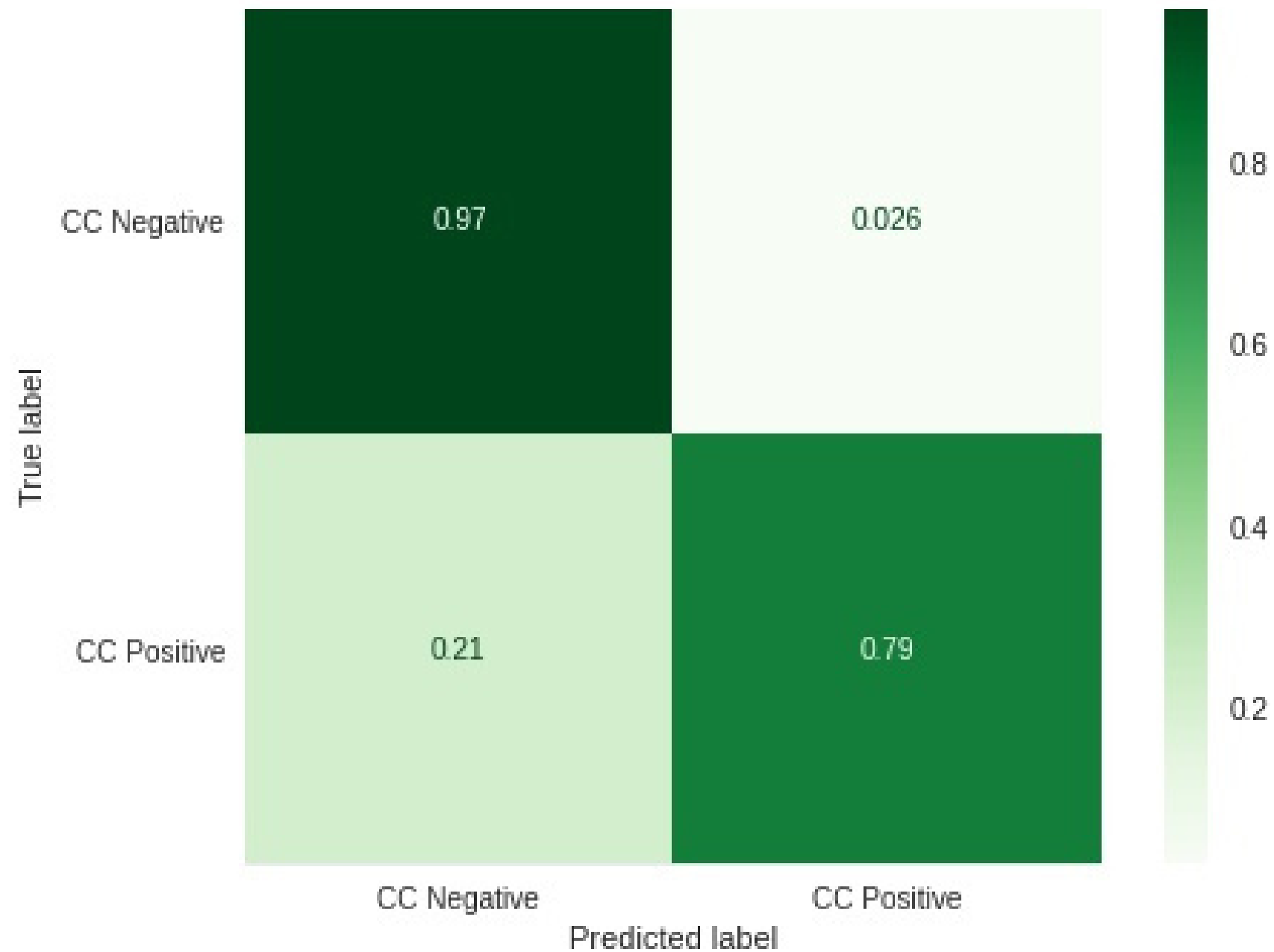


Cervical Cancer among Patients with HPV



<https://www.cancer.gov/about-cancer/causes-prevention/risk/>

# Predictions



- Our model is 97% of the time correctly predicting negative diagnoses
- Our model is 79% of the time correctly predicting positive diagnoses

# Conclusion

In this case, a false positive and a false negative are very serious errors, a patient without cancer should not be submitted to treatment, and a positive result can't go untreated.

The model generated by the data collected should be a decision support tool to help doctors making a decision if a patient should or should not be referenced to a specialist.

This model should not be used as a final decision tool, specially for cases where the model prediction is positive

