

Campus-Community
Engagement to Address Asthma
Needs in the Local Community

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BACKGROUND

- 2020-2022: (NYSDOH, 2024)
 - Asthma hospitalizations show the highest morbidity rate for the 0-4 age group in Broome County, at 8.2 per 10,000.
 - Asthma emergency department visits for 0-4 years is 29.4 per 10,000, again the highest rate for all age groups.
 - Asthma prevalence in Broome County is 15.9%, which is higher than NYS overall.
- This research serves underserved and high-risk groups.

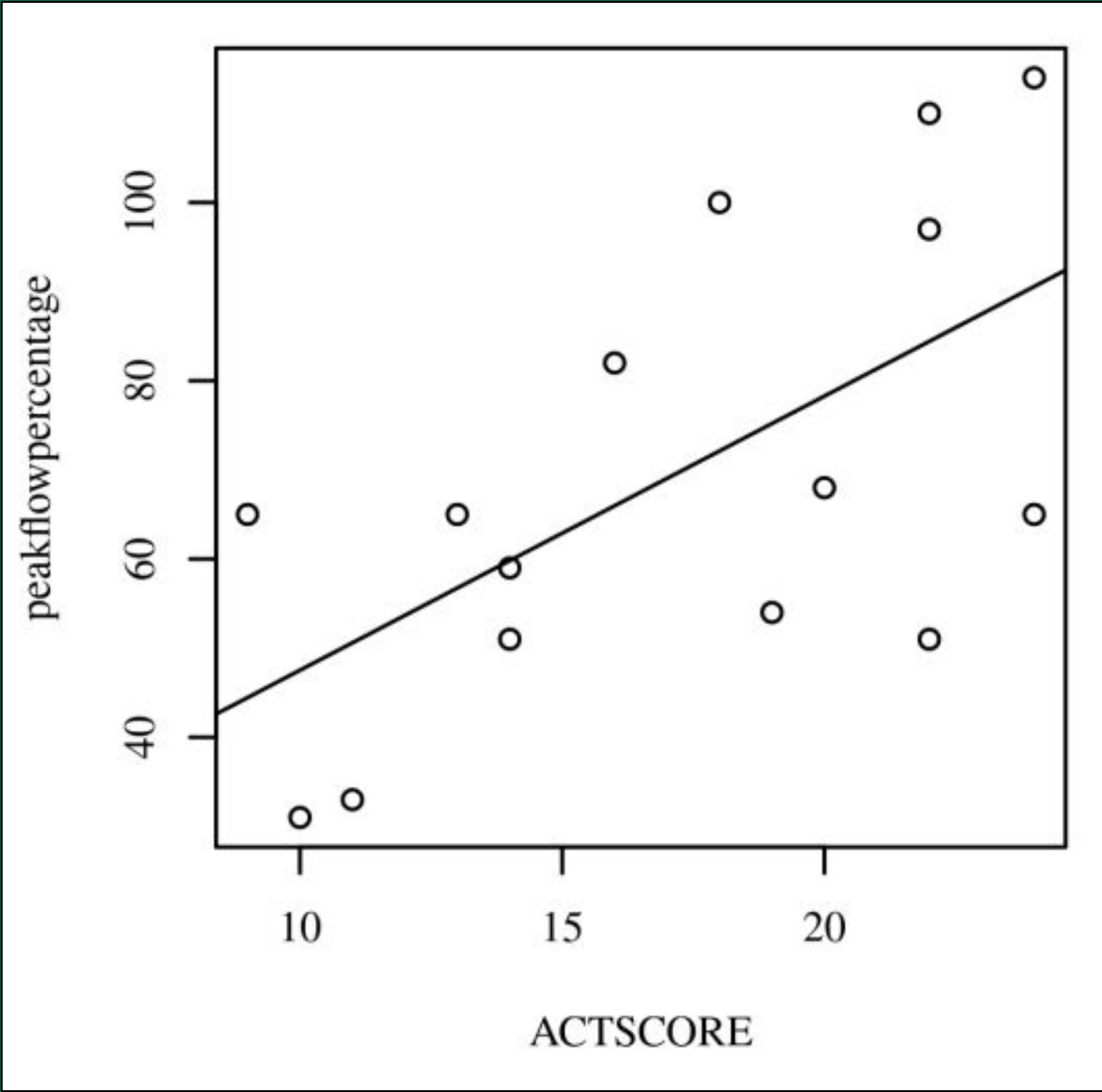
METHODS

1. Human Subjects’ approval obtained for a descriptive correlational study with data collected through a convenience sample.
2. Assessed asthma control using the Asthma Control Test (ACT) or Child Asthma Control Test (CACT), and peak flow readings.
3. Provided evidence-based asthma education delivered by Binghamton University undergraduate nursing students trained through the American Lung Association.

Real-time asthma education via
community engaged research reveals gaps
in perceived vs. actual asthma control.



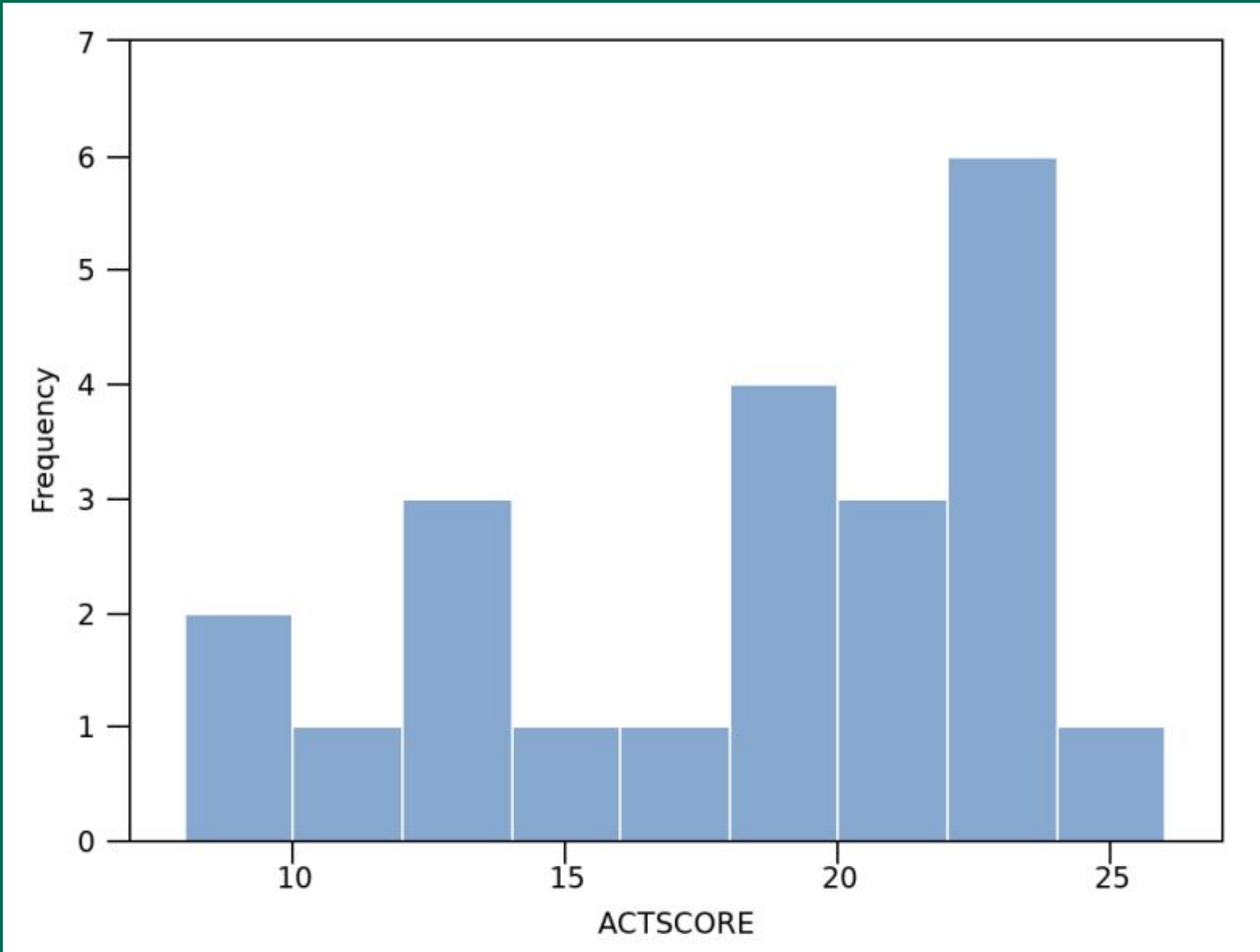
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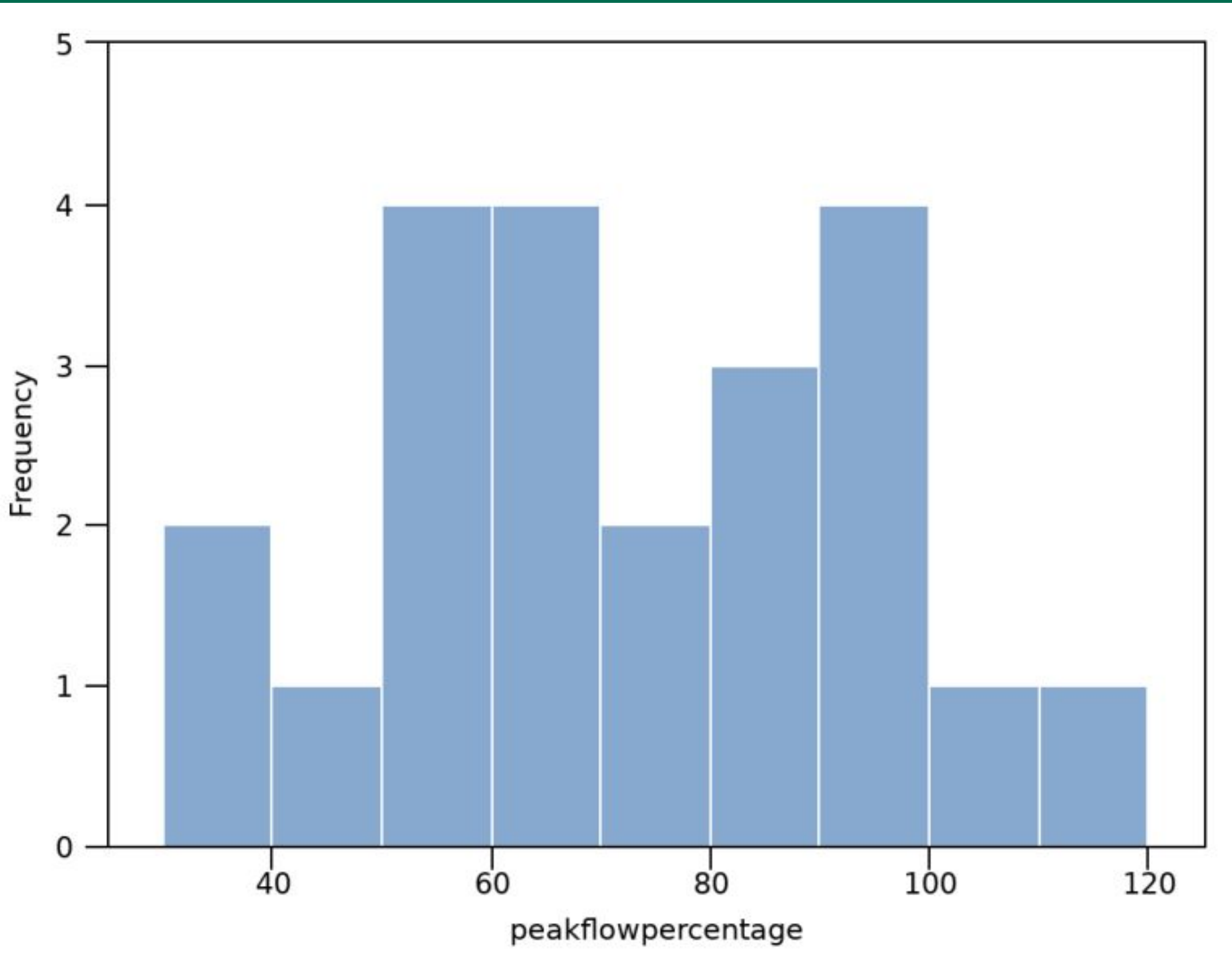
Scatterplots with the regression line added for ACT SCORE and peak flow percentage



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Histogram of ACT SCORE



Histogram of peak flow percentage

PURPOSE

- The purpose of this study is to assess asthma control levels within the local community, identify gaps in asthma management, and provide targeted education to improve self-management skills.
- By engaging directly with residents at a community fair, we sought to promote better asthma health outcomes through real-time education delivered by trained undergraduate nursing students.

RESULTS

- Total of 33 participants.
- 40% showed poor asthma control on ACT/CACT.
- 30% showed in good control.
- 20% rated their asthma as well-controlled despite low peak flow readings.



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IMPLICATIONS

- The data collected showcases an alarming number of participants reporting their asthma control level in the red zone, it depicts a need for the implementation of asthma control education.

REFERENCES

