

# Bias Detection Report

## Bias Detection Report: Language Influence on Mortality

### Dataset Overview:

The dataset contains patient information including language and mortality status.

### Features Analyzed:

- Language: `patient\_lang`
- Mortality Status: `hospital\_expire\_flag`

### Statistical Analysis:

- **Chi-Square Statistic**: 1.846
- **p-value**: 0.174 (No significant association found)
- **Degrees of Freedom**: 1

### Visualizations:

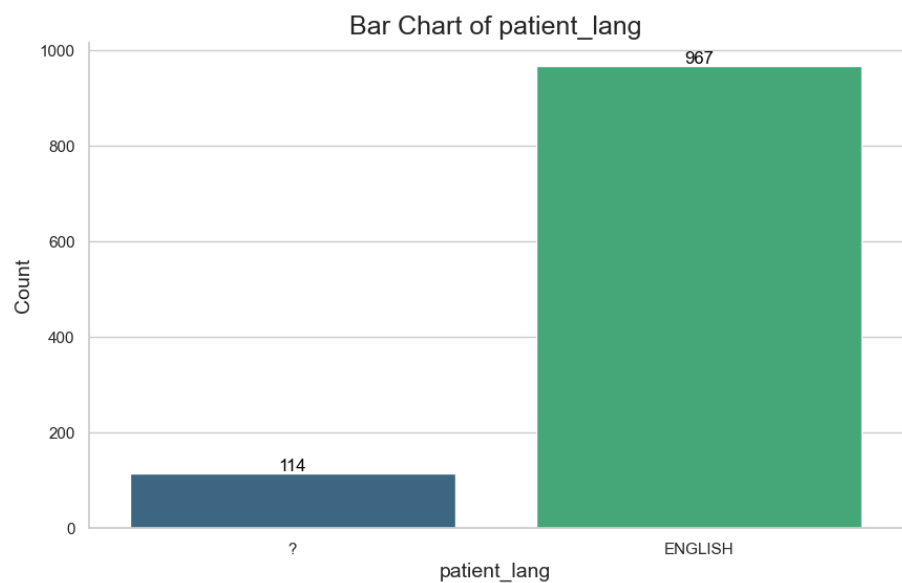
- Bar Chart: Distribution of patients across different languages.
- Stacked Bar Chart: Relationship between language and mortality status.

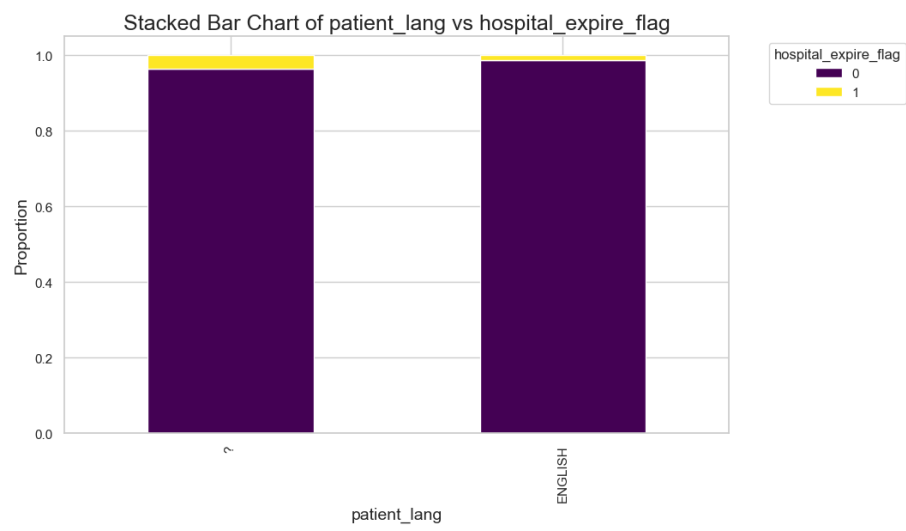
**Conclusions:**

Based on the Chi-Square test, there is no statistically significant association between language and mortality. Visualizations support this finding, showing no notable patterns suggesting language barriers impact mortality rates.

**Bias Level Assessment:**

The bias level is categorized as Level 1 (No Bias), as the statistical analysis and visualizations indicate no significant bias in the dataset regarding language and mortality.





## Recommendations:

- Continue to monitor for any new data or trends that may emerge over time.
- Consider further analysis with additional datasets for broader context.