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# Finalizing statistical summary
# Filter enrollment for log plot
df_log = df[df['Enrollment'] > 0]

plt.figure(figsize=(10, 6))
sns.histplot(df_log['Enrollment'], kde=True, log_scale=True, color='purple')
plt.title('Distribution of Trial Enrollment (Log Scale, Enrollment > 0)')
plt.xlabel('Enrollment (Log)')
plt.savefig('enrollment_distribution_fixed.png')

# Detailed Stats Table
stats_table = df[['Enrollment', 'Duration_Days']].agg(['mean', 'median', 'std',
'skew', 'kurtosis']).transpose()
stats_table.to_csv('statistical_summary.csv')

print("Statistical Summary Table:")
print(stats_table)
```