```
Shape: (1000, 21)
Columns: ['Age', 'Sex', 'ChestPainType', 'RestingBP', 'Cholesterol', 'FastingBS', 'RestingECG', 'MaxHR', 'ExerciseAngina', 'Oldpeak', 'ST_Slope', 'HeartDisease', 'Age_Cholesterol', 'Age_MaxHR', 'Age_Oldpeak', 'Age_RestingBP', 'Cholesterol_MaxHR', 'Cholesterol_Oldpeak', 'Cholesterol_RestingBP', 'MaxHR_Oldpeak', 'MaxHR_RestingBP']
Dtypes: int64: 12, object: 9
Memory usage: 0.16 MB
Sample:
   Age Sex ChestPainType  RestingBP  Cholesterol  FastingBS  RestingECG  MaxHR  ...  Age_Cholesterol  Age_MaxHR  Age_Oldpeak  Age_RestingBP  Cholesterol_MaxHR  Cholesterol_Oldpeak  Cholesterol_RestingBP  MaxHR_Oldpeak  MaxHR_RestingBP
0   40   M        ATA        140          289          0      Normal    172  ...            11560       6880         0.00           5600             49708                 0.0                  40460            0.00             24080
1   49   F        NAP        160          180          0      Normal    156  ...            12740       7644         1.00           7840             28080               180                  28800          156.00             24960
2   37   M        ATA        130          283          0      ST    98  ...            10621       3626         0.00           4810             27734                 0.0                  37379            0.00             12740
3   48   F        ASY        138          214          0      Normal    108  ...            10272       5184         1.50           6624             23112               321                  29532          162.00             14904
4   54   M        NAP        150          195          0      Normal    122  ...            10530       6588         0.00           8100             23790                 0.0                  29250            0.00             18300

[5 rows x 21 columns]
Missing values:
Series([], dtype: int64)
Numeric columns: 12
Categorical columns: 9
Target: HeartDisease
Class distribution:
HeartDisease
1    508
0    492
Name: count, dtype: int64
Imbalance ratio: 1.03:1
```

```
Sex: 2 unique values
ChestPainType: 4 unique values
RestingECG: 3 unique values
ST_Slope: 3 unique values
ExerciseAngina: 2 unique values
```

```
Sex: 2 unique values
ChestPainType: 4 unique values
RestingECG: 3 unique values
ST_Slope: 3 unique values
ExerciseAngina: 2 unique values
```

```
Numeric features: 12
Sample size: 1000
```

```
Sex: 2 unique values
ChestPainType: 4 unique values
RestingECG: 3 unique values
ST_Slope: 3 unique values
ExerciseAngina: 2 unique values
```

```
Sex: 2 unique values
ChestPainType: 4 unique values
RestingECG: 3 unique values
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ExerciseAngina: 2 unique values
```

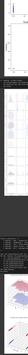


```
Sex: 2 unique values
ChestPainType: 4 unique values
RestingECG: 3 unique values
ST_Slope: 3 unique values
ExerciseAngina: 2 unique values
```

```
Sex: 2 unique values
ChestPainType: 4 unique values
RestingECG: 3 unique values
ST_Slope: 3 unique values
ExerciseAngina: 2 unique values
```



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Sex: 2 unique values
ChestPainType: 4 unique values
RestingECG: 3 unique values
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