Best selected features: ['WHR', 'NDBP', 'TG\_over\_HDL', 'BUN']

Best evaluation metric: 0.8023255813953488

0 1

0 25 10

1 7 44

Classification Report:

precision recall f1-score support

0 0.78 0.71 0.75 35

1 0.81 0.86 0.84 51

accuracy 0.80 86

macro avg 0.80 0.79 0.79 86

weighted avg 0.80 0.80 0.80 86

Final random\_state used: 6973

Selected features after 1 steps: ['WHR'], Accuracy: 0.6744186046511628

Selected features after 2 steps: ['WHR', 'NDBP'], Accuracy: 0.6976744186046512

Selected features after 3 steps: ['WHR', 'NDBP', 'TG\_over\_HDL'], Accuracy: 0.7674418604651163

Best selected features: ['WHR', 'BUN', 'NMBP', 'group', 'Vo2max', 'NDBP']

Best evaluation metric: 0.8023255813953488

0 1

0 25 13

1 4 44

Classification Report:

precision recall f1-score support

0 0.86 0.66 0.75 38

1 0.77 0.92 0.84 48

accuracy 0.80 86

macro avg 0.82 0.79 0.79 86

weighted avg 0.81 0.80 0.80 86

Final random\_state used: 2070

Selected features after 1 steps: ['WHR'], Accuracy: 0.686046511627907

Selected features after 2 steps: ['WHR', 'BUN'], Accuracy: 0.6976744186046512

Selected features after 3 steps: ['WHR', 'BUN', 'NMBP'], Accuracy: 0.7209302325581395

Selected features after 4 steps: ['WHR', 'BUN', 'NMBP', 'group'], Accuracy: 0.7558139534883721

Selected features after 5 steps: ['WHR', 'BUN', 'NMBP', 'group', 'Vo2max'], Accuracy: 0.7906976744186046

Selected features after 6 steps: ['WHR', 'BUN', 'NMBP', 'group', 'Vo2max', 'NDBP'], Accuracy: 0.8023255813953488

Selected features after 7 steps: ['WHR', 'BUN', 'NMBP', 'group', 'Vo2max', 'NDBP', 'DLCOPre'], Accuracy: 0.7325581395348837

Best selected features: ['WHR', 'group', 'FVCPre', 'NDBP', 'CHO', 'PLM', 'BUN']

Best evaluation metric: 0.8023255813953488

0 1

0 26 10

1 7 43

Classification Report:

precision recall f1-score support

0 0.79 0.72 0.75 36

1 0.81 0.86 0.83 50

accuracy 0.80 86

macro avg 0.80 0.79 0.79 86

weighted avg 0.80 0.80 0.80 86

Final random\_state used: 6304

Selected features after 1 steps: ['WHR'], Accuracy: 0.6744186046511628

Selected features after 2 steps: ['WHR', 'group'], Accuracy: 0.686046511627907

Selected features after 3 steps: ['WHR', 'group', 'FVCPre'], Accuracy: 0.7093023255813954

Selected features after 4 steps: ['WHR', 'group', 'FVCPre', 'NDBP'], Accuracy: 0.7209302325581395

Selected features after 5 steps: ['WHR', 'group', 'FVCPre', 'NDBP', 'CHO'], Accuracy: 0.7441860465116279

Selected features after 6 steps: ['WHR', 'group', 'FVCPre', 'NDBP', 'CHO', 'PLM'], Accuracy: 0.7790697674418605

Selected features after 7 steps: ['WHR', 'group', 'FVCPre', 'NDBP', 'CHO', 'PLM', 'BUN'], Accuracy: 0.8023255813953488

Selected features after 8 steps: ['WHR', 'group', 'FVCPre', 'NDBP', 'CHO', 'PLM', 'BUN', 'DLCOPre'], Accuracy: 0.7093023255813954

Best selected features: ['WHR', 'group', 'HDL', 'DLCOPre', 'TST', 'BUN', 'DMBP']

Best evaluation metric: 0.8372093023255814

0 1

0 27 11

1 3 45

Classification Report:

precision recall f1-score support

0 0.90 0.71 0.79 38

1 0.80 0.94 0.87 48

accuracy 0.84 86

macro avg 0.85 0.82 0.83 86

weighted avg 0.85 0.84 0.83 86

Final random\_state used: 8592

Selected features after 1 steps: ['WHR'], Accuracy: 0.686046511627907

Selected features after 2 steps: ['WHR', 'group'], Accuracy: 0.7325581395348837

Selected features after 3 steps: ['WHR', 'group', 'HDL'], Accuracy: 0.7441860465116279

Selected features after 4 steps: ['WHR', 'group', 'HDL', 'DLCOPre'], Accuracy: 0.7674418604651163

Selected features after 5 steps: ['WHR', 'group', 'HDL', 'DLCOPre', 'TST'], Accuracy: 0.813953488372093

Selected features after 6 steps: ['WHR', 'group', 'HDL', 'DLCOPre', 'TST', 'BUN'], Accuracy: 0.8255813953488372

Selected features after 7 steps: ['WHR', 'group', 'HDL', 'DLCOPre', 'TST', 'BUN', 'DMBP'], Accuracy: 0.8372093023255814

Selected features after 8 steps: ['WHR', 'group', 'HDL', 'DLCOPre', 'TST', 'BUN', 'DMBP', 'MVVPre'], Accuracy: 0.7674418604651163

Best selected features: ['WHR', 'DSBP\_A', 'CHO', 'TG\_over\_HDL', 'group', 'BUN', 'AHI', 'SAO290\_p', 'Exercise']

Best evaluation metric: 0.8837209302325582

0 1

0 26 5

1 5 50

Classification Report:

precision recall f1-score support

0 0.84 0.84 0.84 31

1 0.91 0.91 0.91 55

accuracy 0.88 86

macro avg 0.87 0.87 0.87 86

weighted avg 0.88 0.88 0.88 86

Final random\_state used: 104328

Selected features after 1 steps: ['WHR'], Accuracy: 0.6976744186046512

Selected features after 2 steps: ['WHR', 'DSBP\_A'], Accuracy: 0.7325581395348837

Selected features after 3 steps: ['WHR', 'DSBP\_A', 'CHO'], Accuracy: 0.7790697674418605

Selected features after 4 steps: ['WHR', 'DSBP\_A', 'CHO', 'TG\_over\_HDL'], Accuracy: 0.7906976744186046

Selected features after 5 steps: ['WHR', 'DSBP\_A', 'CHO', 'TG\_over\_HDL', 'group'], Accuracy: 0.813953488372093

Selected features after 6 steps: ['WHR', 'DSBP\_A', 'CHO', 'TG\_over\_HDL', 'group', 'BUN'], Accuracy: 0.8488372093023255

Selected features after 7 steps: ['WHR', 'DSBP\_A', 'CHO', 'TG\_over\_HDL', 'group', 'BUN', 'AHI'], Accuracy: 0.8604651162790697

Selected features after 8 steps: ['WHR', 'DSBP\_A', 'CHO', 'TG\_over\_HDL', 'group', 'BUN', 'AHI', 'SAO290\_p'], Accuracy: 0.872093023255814

Selected features after 9 steps: ['WHR', 'DSBP\_A', 'CHO', 'TG\_over\_HDL', 'group', 'BUN', 'AHI', 'SAO290\_p', 'Exercise'], Accuracy: 0.8837209302325582

Selected features after 10 steps: ['WHR', 'DSBP\_A', 'CHO', 'TG\_over\_HDL', 'group', 'BUN', 'AHI', 'SAO290\_p', 'Exercise', 'DLCOPre'], Accuracy: 0.7790697674418605

Best selected features: ['group', 'DLCOPre', 'WHR', 'WBC', 'DSBP\_A', 'BUN', 'SLmin']

Best evaluation metric: 0.8604651162790697

0 1

0 28 7

1 5 46

Classification Report:

precision recall f1-score support

0 0.85 0.80 0.82 35

1 0.87 0.90 0.88 51

accuracy 0.86 86

macro avg 0.86 0.85 0.85 86

weighted avg 0.86 0.86 0.86 86

Final random\_state used: 8840

Selected features after 1 steps: ['group'], Accuracy: 0.6744186046511628

Selected features after 2 steps: ['group', 'DLCOPre'], Accuracy: 0.6976744186046512

Selected features after 3 steps: ['group', 'DLCOPre', 'WHR'], Accuracy: 0.7209302325581395

Selected features after 4 steps: ['group', 'DLCOPre', 'WHR', 'WBC'], Accuracy: 0.7906976744186046

Selected features after 5 steps: ['group', 'DLCOPre', 'WHR', 'WBC', 'DSBP\_A'], Accuracy: 0.8372093023255814

Selected features after 6 steps: ['group', 'DLCOPre', 'WHR', 'WBC', 'DSBP\_A', 'BUN'], Accuracy: 0.8488372093023255

Selected features after 7 steps: ['group', 'DLCOPre', 'WHR', 'WBC', 'DSBP\_A', 'BUN', 'SLmin'], Accuracy: 0.8604651162790697

Selected features after 8 steps: ['group', 'DLCOPre', 'WHR', 'WBC', 'DSBP\_A', 'BUN', 'SLmin', 'MVVPre'], Accuracy: 0.7558139534883721