The best parameters are {'max\_depth': 200, 'max\_features': 5, 'min\_samples\_leaf': 3, 'min\_samples\_split': 5, 'n\_estimators': 300}

Sensitivity: 0.99

Specificity: 0.47

Accuracy: 0.96

Rank #1: (0.0008801095247408519, 'Heart Trouble-How Long Did It Start?')

Rank #2: (0.0008067670643457647, 'Heart Trouble-Take Medication?')

Rank #3: (0.0006356346567572835, 'High Blood Pressure- How Long Ago Di ...')

Rank #4: (0.0006356346567572835, 'CHEST X-RAY-FINAL EVALUATION OF HEAR ...')

Rank #5: (0.0006356346567572557, 'High Blood Pressure-Think You Have It?')

Rank #6: (0.0005867396831605587, 'Heart Trouble-Had It Within Past 12 ...')

Rank #7: (0.0005378447095638617, 'Sequence Number')

Rank #8: (0.0005378447095638339, 'Shortness of Breath When Doing Physi ...')

Rank #9: (0.0005133972227654993, 'Swollen Ankles at Bedtime?')

Rank #10: (0.0005133972227654993, 'Heart Beat-Beating Hard?')

Sequence Number: 0.0005378447095638617

Final Estimation Weight: 0.0002933698415802377

Headaches: 0.0003911597887736873

Nose Bleeds: 2.4447486798362394e-05

Tinnitus: 0.0003422648151769625

Dizziness: 0.0004156072755720497

Fainting: 0.0002444748679835407

Stroke: 0.0

Stroke Review Summary: 0.0

Paralyzed: 9.778994719344958e-05

Sore Throats: 0.00039115978877371504

Shortness of Breath When Climbing Stairs: 0.0005133972227654715

Shortness of Breath When Doing Physi ...: 0.0005378447095638339

Shortness of Breath When Idle: 0.0002444748679835129

Shortness of Breath When Excited or ...: 0.0004400547623703843

Wake Up at Night Because of Shortnes ...: 0.0002689223547818753

Chest Pain-In Past Few Years: 0.00046450224916877447

Chest Pain-Where Does It Bother You?: 0.0004156072755720497

Chest Pain-Does It Move Around?: 0.0002689223547818753

Chest Pain-Duration?: 0.0003667123019753249

Chest Pain-When Does It Usually Come?(exercise): 0.0004400547623704121

Chest Pain-When Does It Usually Come?(mood): 0.0002444748679835407

Chest Pain-Take Medication for It?: 0.00046450224916877447

Heart Pain-In Part Few Year?: 0.0003667123019753249

Heart Pain-Where Does It Bother You?: 0.00017113240758848125

Heart Pain-Does It Move Around:: 0.0003911597887736873

Heart Pain-Duration?: 0.0002444748679835407

Heart Pain-When Does It Usually Come?(exercise): 0.00014668492079011886

Heart Pain-When Does It Usually Come?(mood): 0.00026892235478190307

Hear Pain-Late Medication for It?: 0.0002444748679835407

Heart Beat-Acting Funny?: 0.0005133972227654993

Heart Beat-Beating Hard?: 0.0005133972227654993

Swollen Ankles at Bedtime?: 0.0005133972227654993

Leg Cramps?: 0.0002444748679835129

Varicose Veins?: 9.778994719342182e-05

Rheumatic Fever Diagnosis?: 0.00022002738118515053

Chorea or St. Vitus Dance Diagnosis?: 9.778994719344958e-05

Hardening of the Arteries Diagnosis?: 2.4447486798362394e-05

High Blood Pressure-Think You Have It?: 0.0006356346567572557

High Blood Pressure- How Long Ago Di ...: 0.0006356346567572835

High Blood Pressure-Had It Within Pa ...: 0.00046450224916880223

High Blood Pressure-Take Medication?: 0.0004400547623704121

Heart Trouble-Think You Have It?: 0.0012468218267162046

Heart Trouble-How Long Did It Start?: 0.0008801095247408519

Heart Trouble-Had It Within Past 12 ...: 0.0005867396831605587

Heart Trouble-Take Medication?: 0.0008067670643457647

Time of Examination(01-21): 0.0003422648151769625

Average Systolic Blood Pressure: 0.0003911597887736873

Average Diastolic Blood Pressure: 0.00026892235478190307

Average Systolic Blood Pressure Recode: 0.00029336984158026547

Average Diastolic Blood Pressure Recode: 0.0003422648151769625

When Venipuncture Was Done in Relati ...: 0.00046450224916877447

Ocular Fundi-Right Eye: 0.00014668492079011886

Ocular Fundi-Left Eye: 0.00017113240758848125

Ocular Fundi Condition-Right Eye: 7.334246039505943e-05

Ocular Fundi Condition-Left Eye: 0.00014668492079011886

Venous Engorgement-Right Eye: 0.0

Venous Engorgement-Left Eye: 0.0

Disc. Abnormality-Right Eye: 0.0

Disc. Abnormality-Left Eye: 0.0

Lens Opacities-Right Eye: 2.4447486798362394e-05

Lens Opacities-Left Eye: -2.4447486798362394e-05

Ocular Fundi-Other-Right Eye: 0.0001711324075884535

Ocular Fundi-Other -Left Eye: 9.778994719344958e-05

Neck-Venous Engorgement: 9.778994719344958e-05

Peripheral Arteries-All Normal: 0.00022002738118517828

Periphearal Arteries-Right Side-Supe ...: 0.00022002738118515053

Periphearal Arteries-Left Side-Brachial : 0.0002689223547818753

Peripheral Arteries-Right Side-Radial: 0.00012223743399178422

Peripheral Arteries-Left Side Superf ...: 0.0001711324075884535

Peripheral Arteries-Left Side Brachial: 0.00022002738118517828

Peripheral Arteries-Left Side-Radical: 9.778994719342182e-05

Quality of Aterial Pulsations-All Normal: 9.778994719344958e-05

Quality of Arterial Pulsations-Right 1...: 2.4447486798362394e-05

Quality of Arterial Pulsations-Right 2...: 0.0001955798943868159

Quality of Arterial Pulsations-Right 3...: 0.0002444748679835129

Quality of Arterial Pulsations-Left 1...: 0.00014668492079011886

Quality of Arterial Pulsations-Left 2...: 0.0001711324075884535

Quality of Arterial Pulsations-Left 3...: 0.0002933698415802377

Lower Extremities-Right: 0.0001955798943868159

Lower Extremities-Left: 9.778994719342182e-05

Lower Extremities-Right-Varicosities: 0.00012223743399178422

Lower Extremities-Right-Dependent Edema: 2.4447486798362394e-05

Lower Extremities-Right Ulcers: 0.00012223743399178422

Lower Extremities-Left-Varicosities: 0.00012223743399178422

Lower Extremities-Left-Dependent Edema: 4.889497359672479e-05

Lower Extremities-Left-Ulcers: 0.00012223743399178422

Thrills: 9.778994719344958e-05

Apical Impulse: 0.00046450224916877447

Apical Impulse-Interspace (As Given): 9.778994719344958e-05

Heart Sounds-Normal Chocked: 2.4447486798362394e-05

Heart Sounds-A2: 0.00046450224916877447

Heart Sounds-P2: 0.00014668492079011886

Heart Sounds-M1: 0.00012223743399175646

Heart Sounds-Third Heart Sound: 0.00022002738118517828

Heart Sounds-Spilling of Second Soun ...: 0.00014668492079011886

Heart Sounds-Other: 0.0002444748679835407

Significant Murmurs-Type of Systolic ...: 0.0

SIGNIFICANT MURMURS- PHYSICIAN'S IMP ...: 0.0

EXAMINING PHYSICIAN'S IMPRESSION-HYP ...: 0.00012223743399178422

EXAMINING PHYSICIAN'S IMPRESSION-PER ...: 0.0002689223547818753

EXAMINING PHYSICIAN'S IMPRESSION-ORG ...: 0.00046450224916877447

EXAMINING PHYSICIAN'S IMPRESSION-ANG ...: 0.00026892235478190307

EKG-SUMMARY OF 3 READINGS 1: 7.334246039505943e-05

EKG-SUMMARY OF 3 READINGS 2: 7.334246039505943e-05

EKG-SUMMARY OF 3 READINGS 3: 2.4447486798306883e-05

EKG-SUMMARY OF 3 READINGS 4: -4.8894973596752545e-05

EKG-SUMMARY OF 3 READINGS 5: -0.00012223743399178422

EKG-SUMMARY OF 3 READINGS 6: -0.00012223743399178422

EKG-SUMMARY OF 3 READINGS 7: 2.4447486798362394e-05

EKG-SUMMARY OF 3 READINGS 8: -0.00012223743399181197

EKG-SUMMARY OF 3 READINGS 9: 2.444748679833464e-05

EKG-SUMMARY OF 3 READINGS 10: -4.889497359672479e-05

EKG-SUMMARY OF 3 READINGS 11: -2.444748679839015e-05

EKG-READING 1 1: 0.00014668492079011886

EKG-READING 1 2: 4.889497359672479e-05

EKG-READING 1 3: 4.889497359672479e-05

EKG-READING 1 4: 7.334246039508718e-05

EKG-READING 1 5: 4.889497359672479e-05

EKG-READING 1 6: 4.889497359672479e-05

EKG-READING 1 7: 4.889497359672479e-05

EKG-READING 1 8: 0.0

EKG-READING 1 9: 9.778994719342182e-05

EKG-READING 1 10: 4.889497359672479e-05

EKG-READING 1 11: 2.4447486798362394e-05

EKG-READING 2 2: 2.4447486798362394e-05

EKG-READING 2 3: 0.0

EKG-READING 2 4: 2.4447486798362394e-05

EKG-READING 2 5: 2.4447486798362394e-05

EKG-READING 2 6: 2.4447486798362394e-05

EKG-READING 2 7: 2.4447486798362394e-05

EKG-READING 2 8: 2.4447486798362394e-05

EKG-READING 2 9: 0.0

EKG-READING 2 10: 2.4447486798362394e-05

EKG-READING 2 11: 2.4447486798362394e-05

EKG-READING 2 12: 4.889497359672479e-05

EKG-READING 3 1: 4.889497359672479e-05

EKG-READING 3 2: 9.778994719342182e-05

EKG-READING 3 3: 7.334246039508718e-05

EKG-READING 3 4: 4.889497359672479e-05

EKG-READING 3 5: 0.0

EKG-READING 3 6: 7.334246039508718e-05

EKG-READING 3 7: 7.334246039508718e-05

EKG-READING 3 8: 7.334246039505943e-05

EKG-READING 3 9: 4.889497359672479e-05

EKG-READING 3 10: 4.889497359672479e-05

EKG-READING 3 11: 4.889497359672479e-05

EKG-READING-AVERAGE RATE: 0.0002933698415802377

EKG READING-AVERAGE PR INTERVAL: 0.0003422648151769625

EKG READING-AVERAGE INTERVAL: 0.0004889497359671091

S-SAVE DEPTH IN V1 (SV1): 0.00017113240758848125

R-SAVE DEPTH IN V5 (SVS): 0.00022002738118517828

CHEST X-RAY-EXISTENCE OF LESION-READ 1...: 4.889497359672479e-05

CHEST X-RAY-HEART ENLARGEMENT-READING 1: 0.0004156072755720497

CHEST X-RAY-OTHER CV ABNORMALITY-REA 1...: 9.778994719342182e-05

CHEST X-RAY-EXISTENCE OF LESION-READ 2...: 0.0003422648151769625

CHEST X-RAY-HEART ENLARGEMENT-READING 2: 9.778994719342182e-05

CHEST X-RAY-OTHER CV ABNORMALITY-REA 2...: 0.0

CHEST X-RAY-EXISTENCE OF LESION-READ 3...: 0.0003178173283786001

CHEST X-RAY-HEART ENLARGEMENT-READING 3: 4.889497359672479e-05

CHEST X-RAY-OTHER CV ABNORMALITY-REA 3...: 2.4447486798362394e-05

CHEST X-RAY-FINAL EVALUATION OF HEAR ...: 0.0006356346567572835

SERUM CHOLESTEROL VALUES (MG%): 0.0001955798943868159