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Results

Generated with RFE on 17 october,2024 for Shock Review Reply

20 features

```
Test Accuracy with Updated Random Forest: 0.8846
Cross-Validation Scores: [0.75      0.875      0.85714286 1.      1.      ]
Mean CV Score: 0.8964285714285716
Confusion Matrix:
[[18  1]
 [ 2  5]]
Classification Report:
              precision    recall  f1-score   support

    0.0         0.90      0.95      0.92         19
    1.0         0.83      0.71      0.77          7

 accuracy          0.88         26
 macro avg          0.87         26
weighted avg          0.88         26
```

•

Importance		Feature
2	12.07	Ddimer Conc (ug/mL) (Biomedical)
10	10.63	Partial Thromboplastin Time (s)
7	8.56	Fibrinogen (mg/mL) (Biomedical)
3	7.75	Polym Rate (Pa/s)
0	5.80	Max Stiffness (Pa)
17	5.55	Injury Severity Score
11	5.09	Prothrombin Time(s)
8	5.03	Velocity Index
19	4.73	Abbreviated Injury Scale Head
5	4.48	Confocal Area (%)
16	4.36	Glasgow Coma Score
1	4.30	tPA Conc (ng/mL)
15	4.00	Temperature (°C)
6	3.72	Confocal Pore Diameter (µm)
14	3.17	Diastolic BP (mmHg)
13	2.88	Systolic BP (mmHg)
9	2.63	Lactate (mmol/L)
12	2.41	inr
18	1.43	arrest
4	1.41	Lysis (%)

10 Features

random= auto

```
Test Accuracy with Updated Random Forest: 0.8846
Cross-Validation Scores: [0.625      0.875      0.71428571 1.      0.85714286]
Mean CV Score: 0.8142857142857143
Confusion Matrix:
[[18  1]
 [ 2  5]]
Classification Report:
              precision    recall  f1-score   support

    0.0         0.90      0.95      0.92         19
    1.0         0.83      0.71      0.77          7

   accuracy          0.88         26
  macro avg          0.87         26
weighted avg          0.88         26
```

feature_importance_df_selected

✓ 0.0s  Open 'feature_importance_df_selected' in Data Wrangler

	Importance	Feature
1	19.59	Ddimer Conc (ug/mL) (Biomedical)
6	18.89	Partial Thromboplastin Time (s)
9	11.46	Abbreviated Injury Scale Head
3	10.51	Polym Rate (Pa/s)
0	9.04	Max Stiffness (Pa)
7	7.68	Prothrombin Time(s)
4	7.60	Fibrinogen (mg/mL) (Biomedical)
2	6.31	Turbidity T to Half Max (s)
5	5.09	Lactate (mmol/L)
8	3.83	Diastolic BP (mmHg)

5 features

random_state=undefined,

Test Accuracy with Updated Random Forest: 0.8462

Cross-Validation Scores: [0.625 0.875 0.71428571 0.85714286 0.42857143]

Mean CV Score: 0.7

Confusion Matrix:


[[17 2]

[2 5]]

Classification Report:

	precision	recall	f1-score	support
0.0	0.89	0.89	0.89	19
1.0	0.71	0.71	0.71	7
accuracy			0.85	26
macro avg	0.80	0.80	0.80	26
weighted avg	0.85	0.85	0.85	26

feature_importance_df_selected

✓ 0.0s  Open 'feature_importance_df_selected' in Data Wrangler

	Importance	Feature
0	33.76	Ddimer Conc (ug/mL) (Biomedical)
3	20.37	Partial Thromboplastin Time (s)
2	16.27	Fibrinogen (mg/mL) (Biomedical)
1	15.43	Polym Rate (Pa/s)
4	14.17	Abbreviated Injury Scale Head