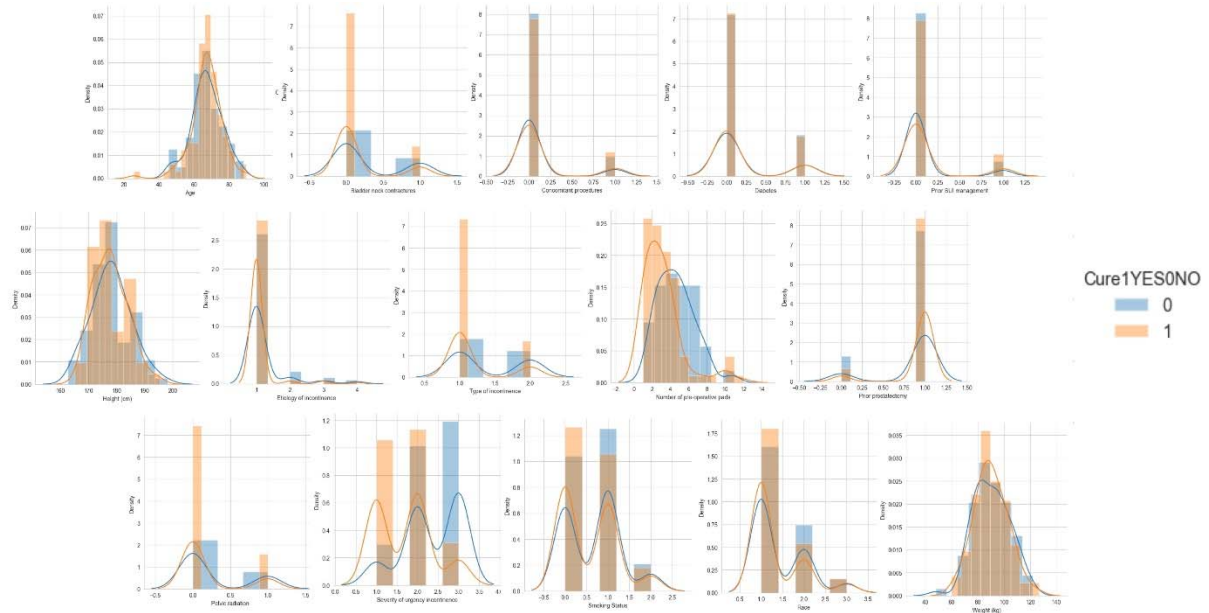


APPENDIX

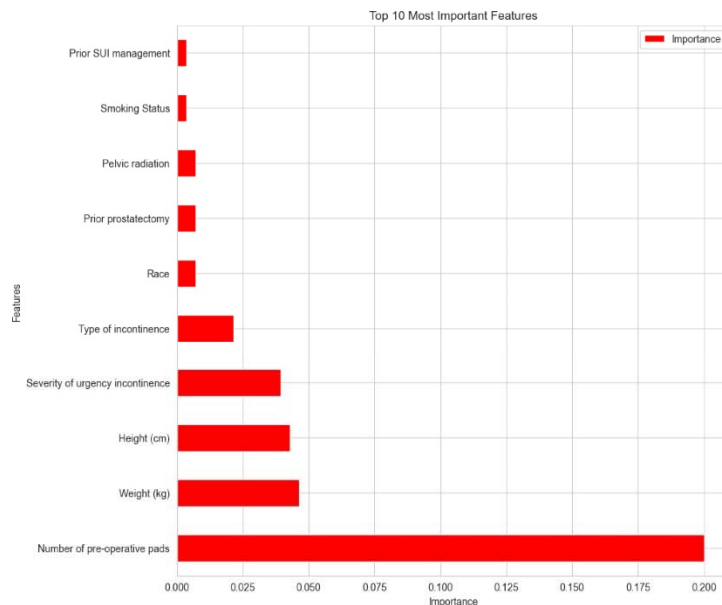
Appendix A. Calibrated bagging KNN model hyperparameter details.

```
{'base_estimator__base_estimator__algorithm': 'auto',  
'base_estimator__base_estimator__leaf_size': 30, 'base_estimator__base_estimator__metric':  
'minkowski', 'base_estimator__base_estimator__metric_params': None,  
'base_estimator__base_estimator__n_jobs': None,  
'base_estimator__base_estimator__n_neighbors': 23, 'base_estimator__base_estimator__p': 2,  
'base_estimator__base_estimator__weights': 'uniform', 'base_estimator__base_estimator':  
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'base_estimator__bootstrap_features': False, 'base_estimator__max_features': 0.5,  
'base_estimator__max_samples': 0.5, 'base_estimator__n_estimators': 10,  
'base_estimator__n_jobs': None, 'base_estimator__oob_score': False,  
'base_estimator__random_state': None, 'base_estimator__verbose': 0,  
'base_estimator__warm_start': False, 'base_estimator':  
BaggingClassifier(base_estimator=KNeighborsClassifier(n_neighbors=23), max_features=0.5,  
max_samples=0.5), 'cv': 3, 'ensemble': True, 'method': 'sigmoid', 'n_jobs': None}
```

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Supplementary Figure 1. Plot densities of pre-operative clinical features



Supplementary Figure 2. Summary of important features of calibrated bagged KNN model

