

TABLE 4. Classification Accuracy of CART Analysis

| | | Classification by CART | | | | | | Classification by CART | | | |
|--------------|--------------|------------------------|------------|--------------------------|--------------|--------------|--------------|------------------------|------------|--------------------------|--------------|
| | | Total Cases | - Late AKI | + Late AKI | % Correct | | | Total Cases | - Late AKI | + Late AKI | % Correct |
| Actual Class | - Late AKI | 154 | 135 | 19 | 87.66 | Actual Class | - Late AKI | 52 | 43 | 9 | 82.69 |
| | + Late AKI | 66 | 25 | 41 | 62.12 | | + Late AKI | 37 | 15 | 22 | 59.46 |
| | Total | 220 | | Overall % Correct | 80.00 | | Total | 89 | | Overall % Correct | 73.03 |

Training Set: Glue Grant
Testing Set: LUMC

CART, Classification and regression tree; AKI, Acute kidney injury

SUPPLEMENTARY TABLE. Variables in CART analysis

DEMOGRAPHICS

Age
Sex
Race

INJURY & RESUSCITATION CHARACTERISTICS

%TBSA
Burn Mechanism
Intubated on Admission
Inhalation Injury
NROF
Fraction of predicted Parkland resuscitation
Early Transfusion
Early AKI

CO-MORBIDITIES

BMI (kg/m²)
Charlson Score
Drug Abuse
Smoker

PREADMISSION MEDICATIONS

Number of Medications
Angiotensin Receptor
Blocker
ACE Inhibitor
Diuretic
NSAIDs
Methamphetamine

LABORATORY VALUES

Lowest Hematocrit
Highest K (24 hr)
Highest Na (24 hr)
Lowest Na (24 hr)
Admission Base Deficit
Worst Base Deficit (24 hr)
Lowest pH (24 hr)
Highest glucose (24 hr)
Lowest glucose (24 hr)

VITAL SIGNS

Lowest MAP (24 hr)
Arrival temperature (°C)
Lowest temperature (°C) (24 hr)

CART, Classification and Regression Tree, *%TBSA*, percent total body surface area, *NROF*, non-renal organ failure, *AKI*, acute kidney injury, *BMI*, body mass index, *kg*, kilograms, *m²*, meters squared, *ACE*, angiotensin-converting enzyme, *NSAID*, non-steroidal anti-inflammatory drugs, *K*, potassium, *Na*, sodium, *hr*, hour, *MAP*, mean arterial pressure