**Supplemental Table 1 Patient Characteristics and Laboratory Parameters**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Patient** | **Sex** | **Age** | **Diagnosis** | **Indication for Renal Replacement Therapy** | **eGFR****[ml/min/1.73 m2]** | **Potassium****[3.5-5.1 mmol/l]** | **Diuresis [ml/h]****(before Dialysis)** | **Urea****[17-48 mg/dl]** | **Creatinine****[0.5-0.9 mg/dl]** | **pH****value** | **Base****Excess** | **AKI-****Network-****Stadium** |
| 1 | M | 69 | Peritonitis, Sepsis | Uremia, Metabolic Acidosis | 26 | 4.7 | >100 | 228 | 3.5 | 7.25 | -6.1 | 2 |
| 2 | M | 71 | Stroke, Mesenteric Thrombosis | Uremia | 33 | 4.0 | 40 | 101 | 2.4 | 7.39 | -1.1 | 1 |
| 3 | F | 57 | Sepsis | Hyperkalemia, Hypervolemia, Uremia, Metabolic Acidosis | 15 | 5.1 | 0 | 105 | 7.1 | 7.26 | -4.3 | 3 |
| 4 | M | 71 | Peritonitis, Sepsis | Hyperkalemia, Hypervolemia, Uremia, Metabolic Acidosis | 35 | 5.6 | 0 | 109 | 1.4 | 7.13 | -13.6 | 3 |
| 5 | F | 80 | Pancreatic Carcinoma | Hyperkalemia, Hypervolemia, Uremia, Metabolic Acidosis | 35 | 5 | 0 | 140 | 1.6 | 7.28 | -6 | 2 |
| 6 | M | 65 | Intestinal Ischemia, Peritonitis, Sepsis | Hyperkalemia, Hypervolemia, Uremia, Metabolic Acidosis | 15 | 5.4 | 0 | 70 | 5.6 | 7.28 | -5 | 3 |
| 7 | F | 76 | Intestinal Perforation, Peritonitis,  | Hypervolemia, Metabolic Acidosis | 65 | 4.8 | 30 | 33 | 0.8 | 7.28 | -10.8 | 1 |
| 8 | F | 48 | Portal Vein Bleeding, Liver Cirrhosis | Hypervolemia, Uremia | 32 | 3.7 | 0 | 21 | 1.4 | 7.38 | -3.5 | 3 |
| 9 | M | 77 | Pancreatic Carcinoma | Uremia | 17 | 4.3 | >100 | 166 | 2.6 | 7.38 | 3.9 | 2 |
| 10 | F | 65 | Erysipelas, Sepsis | Hyperkalemia, Uremia, Metabolic Acidosis | 25 | 5.5 | 80 | 89 | 2.5 | 7.25 | -7.5 | 2 |
| 11 | F | 78 | Decompensated Cardiac Insufficiency | Hyperkalemia, Hypervolemia, Uremia, Metabolic Acidosis | 7 | 5.6 | 0 | 122 | 5.4 | 7.16 | -13.7 | 3 |
| 12 | F | 83 | Bladder Carcinoma | Hyperkalemia, Hypervolemia, Uremia, Metabolic Acidosis | 12 | 5.6 | 0 | 40 | 3.5 | 7.27 | -5.1 | 1 |
| 13 | F | 65 | Peritonitis, Sepsis | Hypervolemia, Uremia | 13 | 4.6 | 0 | 56 | 4.6 | 7.38 | 0.2 | 1 |
| 14 | M | 84 | Lower Limb Ischemia | Hypervolemia, Uremia | 40 | 4.4 | 40 | 80 | 2.0 | 7.42 | 0 | 2 |
| 15 | F | 77 | Decompensated Cardiac Insufficiency | Hypervolemia, Uremia | 51 | 4.2 | 80 | 196 | 1.7 | 7.4 | 5.7 | 1 |
| 16 | M | 77 | Mediastinitis, Sepsis | Hypervolemia | 52 | 4.2 | 0 | 43 | 1.1 | 7.49 | 2.3 | 1 |
| 17 | M | 54 | Sepsis, ARDS, Lung Transplantation | Hyperkalemia, Hypervolemia, Uremia, Metabolic Acidosis | 29 | 5.4 | 20 | 189 | 2.3 | 7.25 | 0.7 | 1 |
| 18 | M | 70 | Hemorrhagic Shock | Hypervolemia, Uremia | 31 | 4.7 | 0 | 47 | 2.6 | 7.39 | -3 | 3 |
| 19 | M | 50 | Polytrauma | Uremia | 22 | 4.5 | 80 | 163 | 3.6 | 7.44 | 4 | 2 |
| 20 | M | 95 | Angiosarcoma | Hyperkalemia, Uremia | 21 | 6.0 | >100 | 112 | 4.0 | 7.41 | 5.5 | 1 |
| 21 | F | 41 | Peripartum atonic bleeding | - | 70 | 3.9 | 80 | 95 | 0.8 | 7.40 | 2.2 | - |
| 22 | F | 77 | Sepsis, Perforated sigmoid diverticulitis | - | 98 | 3.9 | >100 | 43 | 0.8 | 7.43 | -0.2 | - |
| 23 | M | 52 | Polytrauma, Brain injury | - | 29 | 4.3 | 70 | 84 | 1.7 | 7.39 | -0.1 | - |
| 24 | F | 79 | Sepsis, Mamma carcinoma | - | 106 | 4.7 | >100 | 20 | 0.7 | 7.36 | 0.7 | - |
| 25 | M | 56 | Femur fracture, Respiratory insufficiency | - | 102 | 4.2 | >100 | 58 | 0.8 | 7.35 | 4.3 | - |
| 26 | F | 85 | Neck abscess | - | 58 | 3.9 | 80 | 43 | 1.0 | 7.43 | -0.3 | - |

Characteristics and laboratory parameters in patients with acute kidney injury before initiation of renal replacement therapy (Patient 1-20) and in control group (Patient 21-26). M = Male, F = Female, ARDS = Acute Respiratory Distress Syndrome, eGFR = estimated Glomerular Filtration Rate (Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) recommended by the KDIGO (Kidney Disease Improving Global Outcomes) guidelines) (3), AKI = Acute Kidney Injury. Data in control group are a post analysis out of (14).