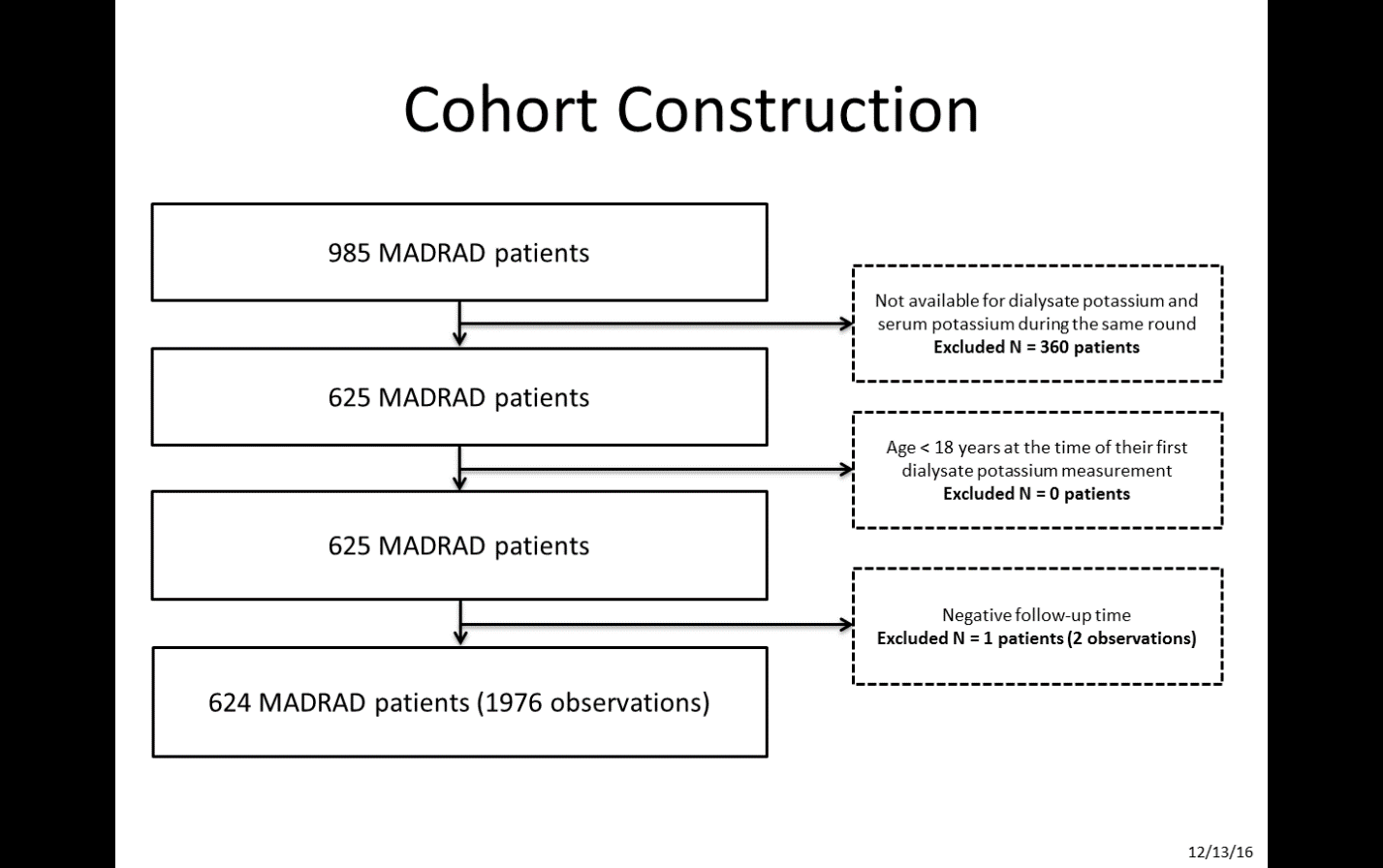
**SUPPLEMENTARY APPENDIX**

**Supplementary Figure Legend**

**Supplementary Figure 1. Study cohort creation.**

**Supplementary Figure 1****.**

**Supplementary Table 1. Baseline dialysate potassium concentration and mortality risk in the overall cohort.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **OVERALL COHORT** | | | | | | | | | | | | |
|  | **Unadjusted** | | **Case-mix** | | **Case-mix+**  **Serum K** | | **Case-mix+**  **Serum K+**  **Potassium-binding resin** | | **Case-mix+**  **Serum K+**  **Potassium-modifying medication** | | **Expanded case-mix+**  **Serum K+**  **Potassium-modifying medication** | |
| **Dialysate K concentration** | **HR**  **(95% CI)** | **P** | **HR**  **(95% CI)** | **P** | **HR**  **(95% CI)** | **P** | **HR**  **(95% CI)** | **P** | **HR**  **(95% CI)** | **P** | **HR**  **(95% CI)** | **P** |
| 1 mEq/L | 1.33  (0.80-2.22) | 0.28 | 1.70  (1.01-2.88) | 0.05 | 1.71  (1.01-2.90) | 0.05 | 1.70  (1.00-2.88) | 0.05 | 1.72  (1.01- 2.93) | 0.04 | 1.70  (0.98-2.96) | 0.06 |
| 2 mEq/L | 1 (ref) | N/A | 1 (ref) | N/A | 1 (ref) | N/A | 1 (ref) | N/A | 1 (ref) | N/A | 1 (ref) | N/A |
| 3 mEq/L | 1.10  (0.75-1.61) | 0.63 | 0.95  (0.64-1.39) | 0.78 | 0.94  (0.63-1.40) | 0.76 | 0.94  (0.63-1.39) | 0.75 | 0.91  (0.61- 1.36) | 0.64 | 0.91  (0.61-1.37) | 0.65 |
| Abbreviations: CI, confidence interval; HR, hazard ratio; K, potassium. | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **STRATIFIED BY SERUM POTASSIUM LEVEL** | | | | | | | | | | | | | |
|  |  | **Unadjusted** | | **Case-mix** | | **Case-mix+**  **Serum K** | | **Case-mix+**  **Serum K+**  **Potassium-binding resin** | | **Case-mix+**  **Serum K+**  **Potassium-modifying medication** | | **Expanded case-mix+**  **Serum K+**  **Potassium-modifying medication** | |
|  | **Dialysate K** | **HR**  **(95% CI)** | **P-int** | **HR**  **(95% CI)** | **P-int** | **HR**  **(95% CI)** | **P-int** | **HR**  **(95% CI)** | **P-int** | **HR**  **(95% CI)** | **P-int** | **HR**  **(95% CI)** | **P-int** |
| **Serum K**  **<5mEq/L** | 1 mEq/L | 0.60  (0.22-1.66) | 0.04 | 0.74  (0.27-2.07) | 0.04 | 0.74  (0.27-2.08) | 0.04 | 0.74  (0.27-2.07) | 0.09 | 0.76  (0.27-2.14) | 0.01 | 0.78  (0.26-2.23) | 0.04 |
| 2 mEq/L | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) |
| 3 mEq/L | 1.12  (0.72-1.76) | 1.01  (0.64-1.58) | 0.99  (0.62-1.58) | 0.99  (0.62-1.58) | 0.95  (0.59-1.52) | 1.04  (0.63-1.70) |
| **Serum K**  **≥5mEq/L** | 1 mEq/L | 2.18  (1.18-4.03) | 2.87  (1.51-5.46) | 2.85  (1.46-5.57) | 2.83  (1.45-5.53) | 2.74  (1.39-5.40) | 2.51  (1.24-5.06) |
| 2 mEq/L | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) |
| 3 mEq/L | 0.85  (0.39-1.89) | 0.74  (0.33-1.66) | 0.75  (0.33-1.67) | 0.74  (0.33-1.65) | 0.75  (0.33-1.69) | 0.72  (0.31-1.65) |
| Abbreviations: CI, confidence interval; HR, hazard ratio; K, potassium; P-int, p-interaction. | | | | | | | | | | | | | |

**Supplementary Table 2.**  **Baseline dialysate potassium concentration and mortality, stratified by pre-dialysis serum potassium.**

**Supplementary Table 3. Time-dependent dialysate potassium concentration and all-cause mortality risk in the overall cohort.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **OVERALL COHORT** | | | | | | | | | | | | |
|  | **Unadjusted** | | **Case-mix** | | **Case-mix+**  **Serum K** | | **Case-mix+**  **Serum K+**  **Potassium-binding resin** | | **Case-mix+**  **Serum K+**  **Potassium-modifying medication** | | **Expanded case-mix+**  **Serum K+**  **Potassium-modifying medication** | |
| **Dialysate K concentration** | **HR**  **(95% CI)** | **P** | **HR**  **(95% CI)** | **P** | **HR**  **(95% CI)** | **P** | **HR**  **(95% CI)** | **P** | **HR**  **(95% CI)** | **P** | **HR**  **(95% CI)** | **P** |
| 1 mEq/L | 0.89  (0.41-1.90) | 0.76 | 1.20  (0.55-2.62) | 0.64 | 1.35  (0.61-2.98) | 0.45 | 1.36  (0.61-2.99) | 0.45 | 1.36  (0.62-3.01) | 0.44 | 1.12  (0.50-2.52) | 0.78 |
| 2 mEq/L | 1 (ref) | N/A | 1 (ref) | N/A | 1 (ref) | N/A | 1 (ref) | N/A | 1 (ref) | N/A | 1 (ref) | N/A |
| 3 mEq/L | 1.24  (0.86-1.81) | 0.25 | 1.00  (0.68-1.47) | 0.99 | 0.93  (0.63-1.38) | 0.72 | 0.93  (0.63-1.37) | 0.70 | 0.90  (0.60-1.34) | 0.60 | 1.02  (0.68-1.53) | 0.93 |
| Abbreviations: CI, confidence interval; HR, hazard ratio; K, potassium. | | | | | | | | | | | | |

**Supplementary Table 4. Time-dependent dialysate potassium concentration and mortality, stratified by pre-dialysis serum potassium.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **STRATIFIED BY SERUM POTASSIUM LEVEL** | | | | | | | | | | | | | |
|  |  | **Unadjusted** | | **Case-mix** | | **Case-mix+**  **Serum K** | | **Case-mix+**  **Serum K+**  **Potassium-binding resin** | | **Case-mix+**  **Serum K+**  **Potassium-modifying medication** | | **Expanded case-mix+**  **Serum K+**  **Potassium-modifying medication** | |
|  | **Dialysate K** | **HR**  **(95% CI)** | **P-int** | **HR**  **(95% CI)** | **P-int** | **HR**  **(95% CI)** | **P-int** | **HR**  **(95% CI)** | **P-int** | **HR**  **(95% CI)** | **P-int** | **HR**  **(95% CI)** | **P-int** |
| **Serum K**  **<5mEq/L** | 1 mEq/L | 0.65  (0.09-4.72) | 0.76 | 0.84  (0.11-6.1) | 0.81 | 0.89  (0.12-6.47) | 0.80 | 0.88  (0.12-6.46) | 0.81 | 0.89  (0.12-6.53) | 0.78 | 0.79  (0.11-5.94) | 0.89 |
| 2 mEq/L | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) |
| 3 mEq/L | 1.08  (0.69 -1.71) | 0.92  (0.58-1.46) | 0.86  (0.54-1.38) | 0.86  (0.54-1.38) | 0.83  (0.51-1.33) | 0.96  (0.59-1.55) |
| **Serum K**  **≥5mEq/L** | 1 mEq/L | 1.08  (0.46-2.51) | 1.39  (0.59-3.28) | 1.54  (0.65-3.68) | 1.55  (0.65-3.7) | 1.56  (0.65-3.72) | 1.24  (0.52-1.98) |
| 2 mEq/L | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) |
| 3 mEq/L | 1.40  (0.71-2.76) | 1.13  (0.57-2.23) | 1.05  (0.53—2.09) | 1.04  (0.52-2.07) | 1.03  0.52-2.05) | 1.09  (0.54-1.29) |
| Abbreviations: CI, confidence interval; HR, hazard ratio; K, potassium; P-int, p-interaction. | | | | | | | | | | | | | |