

Supplemental Material

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Supplemental Table 1: Summary of missing data.

Variable	Total (n)	Missing (n)	Missing (%)
Age	499	0	0
Sex	499	0	0
Charlson Comorbidity Score	498	1	0.2
CFS Score	462	37	7.4
SOFA Score	479	20	4.0
Cognitive Assessment	473	26	5.2
Pre-hospital Disposition	485	14	2.8
Diagnostic category	495	4	0.8
Mechanical Ventilation	482	17	3.4
Vasoactive Support	482	17	3.4
KRT Offered	499	0	0
KRT Initiated	499	0	0
Goals of Care Documentations	497	2	0.4
Vital status at 90 days	485	14	2.8
Abbreviations: CFS = Clinical Frailty Scale Score; SOFA = Sequential Organ Failure Assessment; KRT = Kidney Replacement Therapy			

Supplemental Table 2: Summary of patient characteristics stratified by whether ICU clinicians would be willing to offer RRT for treatment of severe AKI.

Variable	Willingness to Offer KRT		p-value
	Yes (n=361; 72%)	No (n=138; 28%)	
Age (mean [±SD]), years	74.9 (7.1)	76.0 (7.5)	0.14
Female sex, (n, %)	153 (42)	51 (37)	0.32
Charlson score, (mean [±SD])	2.8 (2.3)	3.3 (2.4)	0.05
Comorbid diseases, (n, %)			
<i>Heart failure</i>	83 (23)	35 (25)	0.67
<i>Chronic obstructive pulmonary disease</i>	95 (26)	49 (36)	0.06
<i>Connective tissue disease</i>	25 (7)	7 (5.1)	0.59
<i>Diabetes mellitus</i>	147 (41)	51 (37)	0.49
<i>Peripheral vascular disease</i>	48 (13)	29 (21)	0.05
<i>Any cancer</i>	61 (17)	31 (23)	0.20
<i>Chronic liver disease</i>	11 (3)	6 (4)	0.66
CFS Score (mean [±SD])	3.8 (2)	4.3 (2)	0.003
CFS Score ≥5	89 (27)	52 (40)	0.006
Cognition (CSI-D screen), (n, %) [†]			
<i>Dementia</i>	14 (4)	9 (8)	0.40
<i>Impaired – not demented</i>	52 (17)	20 (17)	
<i>No impairment</i>	250 (79)	89 (75)	
Pre-hospital location			0.35
<i>Home – independent</i>	254 (72)	88 (66)	
<i>Home – with assistance</i>	71 (20)	34 (2)	
<i>Assisted living</i>	26 (7)	12 (9)	
Hospitalized in prior 6 months, (n, %)	133 (38)	59 (44)	0.25
Primary diagnostic category, (n, %)			<0.0001 [§]
<i>Cardiovascular</i>	76 (21)	54 (40)	
<i>Respiratory</i>	76 (21)	26 (19)	
<i>Gastrointestinal/hepatic</i>	42 (12)	14 (10)	
<i>Metabolic/endocrine</i>	39 (11)	4 (3)	
<i>Neurologic</i>	6 (2)	5 (4)	
<i>Hematologic/oncologic</i>	8 (2)	1 (1)	
<i>Sepsis</i>	106 (29)	27 (20)	
<i>Trauma</i>	7 (2)	4 (3)	
APACHE II score (mean [±SD])	28.7 (9)	25.9 (9)	0.001
SOFA score (mean [±SD])	10.7 (4)	10.3 (4)	0.38
Mechanical ventilation (n, %)	239 (68)	80 (63)	0.36
Vasoactive support (n, %)	233 (66)	81 (63)	0.68
Blood transfusion (n, %)	17 (5)	6 (5)	1.0
Total parenteral nutrition (n, %)	6 (2)	4 (3)	0.54
Baseline serum creatinine, (mean [±SD])	131 (102)	105 (56)	0.001
Baseline eGFR, (mean [±SD])	53 (32)	64 (27)	<0.0001
Peak serum creatinine, (mean [±SD])	432 (289)	289 (135)	<0.0001
Goals of care change during ICU admission (n, %)	253 (71)	68 (49)	<0.0001
Goals of care at ICU discharge (n, %)			0.09
<i>Full support</i>	186 (77)	53 (66)	
<i>No CPR but ICU readmission</i>	37 (15)	14 (18)	
<i>No CPR with no ICU readmission</i>	20 (8)	13 (16)	
† Not available/completed (n=26)			
§This p-value is for grouping small categories of Hematologic, Neurologic and Trauma together			
Abbreviations: APACHE: Acute Physiology and Chronic Health Evaluation; CFS: Clinical Frailty Scale Score; eGFR: estimated glomerular filtration rate; ICU: intensive care unit; SOFA: Sequential Organ Failure Assessment			

Supplemental Table 3: Sensitivity analysis for willingness to offer RRT with imputation of missing data.

	No Imputation			Imputation		
	Effect	95% CI Upper	95% CI Lower	Effect	95% CI Lower	95% CI Upper
Age at enrollment (per 1 year increase)	-0.02	-0.06	0.02			
Odds Ratio	0.98	0.94	1.02	0.98	0.95	1.01
CCI score (per 1 unit increase)	-0.14	-0.26	-0.02			
Odds Ratio	0.87	0.77	0.98	0.93	0.85	1.02
CFS score (per 1 unit increase)	-0.14	-0.36	0.09			
Odds Ratio	0.87	0.69	1.09	0.80	0.65	0.97
SOFA score (per 1 unit increase)	0.18	0.09	0.27			
Odds Ratio	1.19	1.09	1.30	1.01	0.95	1.08
Female sex	0.31	-0.22	0.85			
Odds Ratio	1.37	0.80	2.35	1.38	0.88	2.18
Cognitive assessment:						
No impairment						
Demented	-0.57	-1.84	0.71			
Odds Ratio	0.57	0.16	2.03	0.58	0.19	1.70
Impairment – not demented	-0.02	-0.78	0.74			
Odds Ratio	0.98	0.46	2.09	0.98	0.50	1.92
Goals of Care documentation	-0.87	-1.38	-0.35			
Odds Ratio	0.42	0.25	0.71	0.44	0.28	0.69
Mechanical ventilation	-0.45	-1.14	0.24			
Odds Ratio	0.64	0.32	1.27	1.25	0.72	2.18
Vasoactive support	-0.79	-1.52	-0.05			
Odds Ratio	0.46	0.22	0.95	0.87	0.5	1.5
Pre-hospital disposition						
Home independent	-	-	-	-	-	-
Assisted living facility/nursing home	0.67	-0.49	1.83			
Odds Ratio	1.95	0.61	6.26	1.41	0.52	3.77
Home with assistance	0.27	-0.50	1.05			
Odds Ratio	1.31	0.60	2.84	1.25	0.65	2.40
Diagnostic Category						
Septic	-	-	-	-	-	-
Cardiovascular	-0.69	-1.38	0.00			
Odds Ratio	0.50	0.25	1.00	0.38	0.21	0.68
Gastrointestinal/hepatic	0.01	-0.87	0.89			
Odds Ratio	1.01	0.42	2.42	0.68	0.31	1.50
Hematologic	0.99	-1.35	3.33			
Odds Ratio	2.68	0.26	27.81	1.78	0.20	15.80
Metabolic/endocrine	1.48	0.12	2.84			
Odds Ratio	4.40	1.13	17.19	2.79	0.88	8.87
Neurologic	-0.60	-2.46	1.26			
Odds Ratio	0.55	0.09	3.53	0.31	0.08	1.18
Respiratory	0.20	-0.60	1.00			
Odds Ratio	1.22	0.55	2.71	0.74	0.38	1.43
Trauma	-1.44	-3.26	0.39			
Odds Ratio	0.24	0.04	1.47	0.38	0.10	1.51

The Hosmer-Lemeshow goodness of fit test was performed using a range of groupings from 5-15. The resulting p-values ranged from 0.37 to 0.82 indicating a good fit. Additionally, the model was assessed using Bootstrap validation. Minimal overfit was found with the slope value 0.81 indicating a slight shrinkage factor of model coefficients would be necessary.

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Supplemental Table 4: Primary triggers for starting KRT and reasons for not starting KRT as judged by ICU clinicians, stratified by vital status at 90-days.

Reasons for Starting KRT (n, %)	(n,%)	Vital status at 90 days (n, %) [§]		p
	229	Dead (n=112)	Alive (n=110)	
Hyperkalemia [‡]	51 (22)	27 (24)	23 (21)	0.68
Acidemia [†]	75 (33)	44 (39)	29 (26)	0.06
Hypoxemia due to pulmonary edema ^ϕ	18 (8)	8 (7)	10 (9)	0.78
Fluid overload [¶]	81 (35)	37 (33)	42 (38)	0.51
Oligo-anuria ^Y	169 (74)	92 (82)	73 (66)	0.01
Azotemia ^Ψ	64 (28)	31 (28)	29 (26)	0.95
Other ^K	15 (7)	5 (5)	10 (9)	0.27
2 or more indications	199 (40)	84 (34)	110 (46)	0.008
3 or more indications	111 (22)	38 (15)	72 (30)	<0.001
Reasons for Not Starting KRT	270	(n=135)	(n=128)	
Anticipated kidney recovery	181 (67)	58 (43)	116 (91)	<0.001
Death/deterioration prior to starting KRT	26 (10)	26 (19)	0 (0)	<0.001
Withholding or withdrawal of life-sustaining therapy	29 (11)	29 (22)	0 (0)	<0.001
Not consistent with patient goals-of-care	66 (24)	56 (42)	10 (8)	<0.001
Clinician perception that age too advanced	2 (1)	1 (1)	1 (1)	1.0
Clinician perception that patient not expected to benefit	19 (7)	15 (11)	4 (3)	0.02
Triggers for starting KRT and reasons for not starting KRT are not mutually exclusive.				
§ In total, nine subjects withdrew consent before 90 days, five were lost to follow-up, and within these, data were missing for seven.				
‡ Hyperkalemia defined as K ⁺ ≥6.5 mmol/L or cardiac toxicity; †acidemia defined as pH <7.10; ϕ hypoxemia due to pulmonary edema defined as P _a O ₂ /FiO ₂ ratio < 200 and clinical perception of pulmonary edema; ¶ fluid overload defined as cumulative percent fluid overload (%FO) > 5-10% or clinical perception; Y oligo-anuria defined as urine output <400 mL/24 hr; Ψ azotemia defined as serum urea ≥ 30 mmol/L or perception of uremic complications; K other included: acute tubular necrosis (n=2); cardiogenic shock (n=1); heart failure (n=1); devascularized kidney (n=1); hyperphosphatemia (n=1); rhabdomyolysis (n=1); major vascular injury (n=1); sepsis (n=1); elevated lactate (n=1); elevated liver enzymes (n=1); other (n=4).				
Abbreviations: ICU: intensive care unit; KRT: kidney replacement therapy				

Supplemental Table 5: Summary of patient characteristics stratified by whether patients received KRT for treatment of severe AKI.

Variable	Receipt of KRT in ICU		p-value
	KRT (n=229; 46%)	No KRT (n=270; 54%)	
Age (mean [±SD]), years	73.6 [±6.4]	76.6 [±7.6]	<0.001
Female sex, (n, %)	93 (41)	111 (41)	0.98
Charlson score, (mean [±SD])	3.0 [±2.3]	3.0 [±2.3]	0.95
Comorbid diseases, (n, %)			
Heart failure	45 (20)	73 (27)	0.06
Chronic obstructive pulmonary disease	55 (24)	89 (33)	0.03
Connective tissue disease	14 (6)	18 (7)	0.94
Diabetes mellitus	96 (42)	102 (38)	0.41
Peripheral vascular disease	96 (42)	102 (38)	0.79
Any cancer	41 (18)	51 (20)	0.85
Chronic liver disease	6 (3)	11 (4)	0.51
CFS Score (mean [±SD])	3.7 [±1.5]	4.1 [±1.6]	0.008
CFS score ≥5, (n,%)	53 (25)	85 (37)	0.01
Cognition (CSI-D screen), (n, %) [†]			
Dementia	10 (5)	13 (6)	0.85
Impaired – not demented	36 (17)	36 (16)	
No impairment	162 (78)	177 (78)	
Pre-hospital location			0.02
Home – independent	171 (76)	171 (66)	
Home – with assistance	45 (20)	60 (23)	
Assisted living	10 (4)	28 (11)	
Hospitalized in prior 6 months, (n, %)	87 (38)	105 (40)	0.79
Primary diagnostic category, (n, %)			<0.0001 [§]
Cardiovascular	48 (21)	82 (31)	
Respiratory	45 (20)	57 (21)	
Gastrointestinal/hepatic	23 (10)	33 (12)	
Metabolic/endocrine	29 (13)	14 (5)	
Neurologic	1 (0.4)	10 (4)	
Hematologic/oncologic	2 (1)	7 (3)	
Sepsis	77 (34)	56 (21)	
Trauma	3 (1)	8 (3)	
APACHE II score (mean [±SD])	30.2 [±8.4]	26.1 [±8.6]	<0.0001
SOFA score (mean [±SD])	11.7 [±3.8]	9.6 [±4.2]	<0.001
Mechanical ventilation (n, %)	167 (74)	152 (59)	<0.001
Vasoactive support (n, %)	173 (77)	141 (55)	<0.001
Blood transfusion (n, %)	14 (6)	9 (4)	0.24
Total parenteral nutrition (n, %)	4 (2)	6 (2)	0.91
Baseline serum creatinine, (mean [±SD])	141 [±98]	109 [±84]	<0.0001
Baseline eGFR, (mean [±SD])	48 [±30]	63 [±30]	<0.0001
Peak serum creatinine, (mean [±SD])	490 [±259]	310 [±238]	<0.0001
Goals of care documentation at ICU admission	160 (69)	161 (60)	0.03
[†] Not available/completed (n=26) [§] This p-value is computed by comparing distribution of patients among groups, but with small categories of Hematologic, Neurologic and Trauma grouped together Abbreviations: APACHE: Acute Physiology and Chronic Health Evaluation; CFS: Clinical Frailty Scale Score; eGFR: estimated glomerular filtration rate; ICU: intensive care unit; SOFA: Sequential Organ Failure Assessment; KRT: kidney replacement therapy			

Supplemental Table 6: Sensitivity analysis for receipt of KRT with imputation of missing data.

	No Imputation			Imputation		
	Effect	95% CI Lower	95% CI Upper	Effect	95% CI Lower	95% CI Upper
Age at enrollment (per 1 year increase)	-0.06	-0.1	-0.03	-0.06	-0.09	-0.03
Odds Ratio	0.94	0.91	0.97	0.94	0.91	0.97
CCI score (per 1 unit increase)	0.01	-0.10	0.12	0.01	-0.08	0.1
Odds Ratio	1.01	0.90	1.12	1.01	0.92	1.1
CFS score (per 1 unit increase)	-0.13	-0.34	0.08	-0.15	-0.34	0.04
Odds Ratio	0.88	0.71	1.09	0.86	0.71	1.04
SOFA score (per 1 unit increase)	0.27	0.18	0.36	0.1	0.03	0.16
Odds Ratio	1.31	1.2	1.43	1.1	1.04	1.17
Female sex	0.02	-0.47	0.52	0.03	-0.38	0.45
Odds Ratio	1.02	0.62	1.67	1.03	0.68	1.57
Cognitive assessment:						
No impairment	-	-	-	-	-	-
Demented	0.85	-0.49	2.19	0.73	-0.48	1.94
Odds Ratio	2.34	0.61	8.89	2.07	0.62	6.95
Impairment – not demented	0.34	-0.4	1.08	0.41	-0.23	1.06
Odds Ratio	1.41	0.67	2.95	1.51	0.8	2.87
Mechanical ventilation	-0.29	-0.95	0.37	0.2	-0.33	0.73
Odds Ratio	0.75	0.39	1.44	1.22	0.72	2.07
Vasoactive support	-0.33	-0.99	0.33	0.55	0.05	1.04
Odds Ratio	0.72	0.37	1.39	1.73	1.05	2.84
Pre-hospital disposition						
Home independent	-	-	-	-	-	-
Assisted living facility/nursing home	-0.91	-2.13	0.31	-1.07	-2.09	-0.05
Odds Ratio	0.4	0.12	1.37	0.34	0.12	0.96
Home with assistance	0.12	-0.6	0.85	-0.07	-0.69	0.55
Odds Ratio	1.13	0.55	2.35	0.93	0.5	1.73
Diagnostic Category						
Septic	-	-	-	-	-	-
Cardiovascular	-0.81	-1.46	-0.17	-0.95	-1.49	-0.41
Odds Ratio	0.44	0.23	0.85	0.39	0.23	0.66
Gastrointestinal/hepatic	-0.37	-1.17	0.44	-0.53	-1.24	0.18
Odds Ratio	0.69	0.31	1.55	0.59	0.29	1.2
Hematologic	-1.42	-3.32	0.48	-1.29	-2.99	0.4
Odds Ratio	0.24	0.04	1.61	0.27	0.05	1.49
Metabolic/endocrine	1.34	0.39	2.28	1.08	0.26	1.89
Odds Ratio	3.81	1.48	9.82	2.93	1.3	6.62
Neurologic	-2.25	-4.73	0.22	-2.29	-4.47	-0.12
Odds Ratio	0.11	0.01	1.25	0.1	0.01	0.89
Respiratory	0.02	-0.69	0.73	-0.22	-0.81	0.37
Odds Ratio	1.02	0.5	2.08	0.8	0.44	1.44
Trauma	-1.2	-3.16	0.76	-1.21	-2.73	0.3
Odds Ratio	0.3	0.04	2.14	0.3	0.07	1.36
Abbreviations: CCI = Charlson comorbidity index; CFS = Clinical Frailty Scale Score; SOFA = Sequential Organ Failure Assessment; KRT = kidney replacement therapy						
The Hosmer-Lemeshow goodness of fit test was performed using a range of groupings from 5-15. The resulting p-values ranged from 0.34 to 0.94 indicating a good fit. Additionally, the model was assessed using Bootstrap validation. Minimal overfit was found with the slope value 0.81 indicating a slight shrinkage factor of model coefficients would be necessary.						

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Supplemental Table 7: Summary of three different multivariable Cox regression analyses for the association between receipt of KRT and 90-day mortality evaluating i) complete case series (no imputation); ii) imputation for missing covariate data; and 3) consideration for the time-varying effect of timing of initiation of KRT on outcome.

Variable	No Imputation			Imputation			Time Dependent for KRT Initiation		
	Effect	95% CI Lower	95% CI Upper	Effect	95% CI Lower	95% CI Upper	Effect	95% CI Lower	95% CI Upper
Age at enrollment (per 1 year increase)	0.03	0.01	0.05	0.03	0.01	0.04	0.02	0.00	0.04
Hazard Ratio	1.03	1.01	1.05	1.03	1.01	1.04	1.02	1.00	1.04
CCI (per 1 unit increase)	0.06	0.00	0.12	0.05	0.00	0.11	0.03	-0.02	0.08
Hazard Ratio	1.06	1.00	1.12	1.05	1.00	1.11	1.03	0.98	1.08
SOFA (per 1 unit increase)	0.03	-0.01	0.07	0.04	0.00	0.07	0.03	0.00	0.07
Hazard Ratio	1.03	0.99	1.07	1.04	1.00	1.08	1.03	1.00	1.07
KRT started in ICU	-0.24	-0.55	0.06	-0.32	-0.60	-0.04	0.27	0.00	0.54
Hazard Ratio	0.78	0.58	1.06	0.72	0.55	0.96	1.31	1.00	1.72
Female sex	0.17	-0.10	0.45	0.13	-0.13	0.38	0.07	-0.17	0.31
Hazard Ratio	1.19	0.91	1.56	1.14	0.88	1.46	1.07	0.85	1.36
Worst AKI Stage 2 or 3	-0.30	-0.70	0.11	-0.29	-0.66	0.07	-0.45	-0.82	-0.08
Hazard Ratio	0.74	0.50	1.11	0.75	0.52	1.08	0.64	0.44	0.92
Mechanical ventilation	0.42	0.06	0.77	0.44	0.10	0.78	0.38	0.06	0.7
Hazard Ratio	1.52	1.07	2.17	1.55	1.10	2.18	1.46	1.07	2.01
Vasoactive support	0.47	0.12	0.81	0.46	0.11	0.82	0.56	0.25	0.87
Hazard Ratio	1.60	1.13	2.26	1.59	1.12	2.27	1.74	1.28	2.38
Diagnostic Category									
Septic	-	-	-	-	-	-	-	-	-
Cardiovascular	-0.04	-0.42	0.34	-0.14	-0.49	0.21	-0.15	-0.47	0.18
Hazard Ratio	0.96	0.66	1.40	0.87	0.61	1.23	0.86	0.62	1.19
Gastrointestinal/hepatic	0.15	-0.31	0.61	-0.07	-0.51	0.38	-0.06	-0.48	0.36
Hazard Ratio	1.16	0.73	1.84	0.93	0.60	1.46	0.94	0.62	1.43
Hematologic	-0.37	-1.54	0.81	-0.55	-1.71	0.62	-0.63	-1.79	0.54
Hazard Ratio	0.69	0.21	2.24	0.58	0.18	1.86	0.53	0.17	1.71
Metabolic	0.00	-0.56	0.56	0.09	-0.41	0.60	-0.02	-0.53	0.48
Hazard Ratio	1.00	0.57	1.76	1.10	0.66	1.83	0.98	0.59	1.62
Neurologic	0.9	0.08	1.73	0.78	0.02	1.55	0.66	-0.09	1.41
Hazard Ratio	2.47	1.08	5.62	2.19	1.02	4.70	1.94	0.91	4.12
Respiratory	0.19	-0.20	0.59	0.13	-0.23	0.49	0.25	-0.08	0.58
Hazard Ratio	1.21	0.82	1.80	1.14	0.79	1.64	1.28	0.92	1.78
Trauma	-0.30	-1.33	0.73	-0.50	-1.43	0.42	-0.34	-1.26	0.57
Hazard Ratio	0.74	0.26	2.08	0.60	0.24	1.52	0.71	0.28	1.77

FORM 1: OPTIMAL Selection for and Timing to Start Renal Replacement in Critically Ill Older Patients with Acute Kidney Injury (OPTIMAL-AKI)

Version 8 – February 2, 2015

Enrolment/Subject ID #: -

Patient Initials:

FORM 1 –ELIGIBILITY	
Date of eligibility (dd/mmm/yyyy)	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
INCLUSION CRITERIA (Each of criteria 1 through 3 must be fulfilled)	
1. Age \geq 65 years (on the day of ICU admission)	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Admission to an intensive care unit (ICU)	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Evidence of AKI, defined by at least ONE of the following criteria:	
i) 3-fold increase in serum creatinine from a known pre-morbid baseline [§] (see definition below); OR	<input type="checkbox"/> Y <input type="checkbox"/> N
ii) Achieved a serum creatinine $>$ 354 μ mol/L with a minimum increase of 27 μ mol/L or 50% from pre-morbid baseline [§] (see definition below); OR	<input type="checkbox"/> Y <input type="checkbox"/> N
iii) Urine output $<$ 7.2 mL/kg during past 24 hours ; OR	<input type="checkbox"/> Y <input type="checkbox"/> N
iv) Complete anuria for 12 hours; OR	<input type="checkbox"/> Y <input type="checkbox"/> N
v) 2-fold increase in serum creatinine from a known pre-morbid baseline [§] (see definition below); <u>and</u> total urine output $<$ 6.0 mL/kg over the preceding 12 hours (or prorated $<$ 2 mL/kg over 4 hours)	<input type="checkbox"/> Y <input type="checkbox"/> N
<i>§ Baseline (pre-morbid) serum creatinine will be defined as the outpatient serum creatinine closest to the date of hospitalization and within 365 days prior to index hospitalization or if unavailable, the lowest serum creatinine documented during the current hospitalization. Please insert value used</i>	<input type="text"/> <input type="text"/> <input type="text"/> μ mol/L
EXCLUSION CRITERIA (Any one criterion fulfilled and the patient is ineligible)	
4. Presence of a drug overdose/toxicity that necessitates RRT initiation	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Receipt of any form of RRT in the past 4 weeks [includes receipt of chronic dialysis (hemodialysis or peritoneal dialysis) for end-stage kidney disease (ESKD) or any dialysis for AKI]	<input type="checkbox"/> Y <input type="checkbox"/> N
ELIGIBILITY	
According to the screening criteria above, is the patient eligible for the study?	<input type="checkbox"/> Y <input type="checkbox"/> N
<i>If NO \rightarrow PATIENT IS EXCLUDED \rightarrow skip to signature block</i>	
INFORMED CONSENT	
Was Informed Consent obtained from patient or SDM?	<input type="checkbox"/> Y <input type="checkbox"/> N
Date/time of consent (dd/mmm/yyyy: 24hh/mm)	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> : <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>
Was enrollment by deferral of consent?	<input type="checkbox"/> Y <input type="checkbox"/> N

FORM 2 - BASELINE SOCIO-DEMOGRAPHIC INFORMATION

Year of birth (yyyy)	□□□□	
Sex:	[] Male [] Female	
Weight (estimated or measured):	□□□.□ kg	
Height (estimate or measured):	□□□ cm	
Date of First Hospital Admission (dd/mmm/yyyy):	□□/□□□/□□□□	
If patient was transferred from the admitting hospital to the study hospital, please indicate date (dd/mmm/yyyy):	□□/□□□/□□□□ □ N/A, not transferred	
Date of ICU Admission at study hospital's ICU (dd/mmm/yyyy)	□□/□□□/□□□□	
Pre-hospital location	<input type="checkbox"/> Home independent <input type="checkbox"/> Home with assistance <input type="checkbox"/> Assisted living facility/nursing home	
GOC discussion/documentation at time of ICU admission	□ Y □ N	
Pre-hospital inventory of ADL (Katz Index)	Independent	Dependent/Incapable
Bathing	□	□
Dressing	□	□
Toileting	□	□
Transferring	□	□
Continence	□	□
Feeding	□	□
Frailty Status (Clinical Frailty Scale [CFS] score)	□ (CFS score range 1-8 – see worksheet)	
Cognitive assessment (score < 2 = demented) (score ≥ 2 and ≤ 4 = impairment – not demented) (score ≥ 5 =no impairment)	<input type="checkbox"/> No impairment <input type="checkbox"/> Impairment – not demented <input type="checkbox"/> Demented <input type="checkbox"/> Not available	
Hospitalized in prior 6-months	□ Y □ N	
ICU admission in prior 6-months	□ Y □ N	

FORM 3 - DIAGNOSTIC CLASSIFICATION

Most responsible diagnosis for ICU admission (specify):	
Diagnostic category	
Cardiovascular	<input type="checkbox"/> Y <input type="checkbox"/> N
Respiratory	<input type="checkbox"/> Y <input type="checkbox"/> N
Gastrointestinal/hepatic	<input type="checkbox"/> Y <input type="checkbox"/> N
Neurologic	<input type="checkbox"/> Y <input type="checkbox"/> N
Metabolic	<input type="checkbox"/> Y <input type="checkbox"/> N
Hematologic	<input type="checkbox"/> Y <input type="checkbox"/> N
Septic	<input type="checkbox"/> Y <input type="checkbox"/> N
Trauma	<input type="checkbox"/> Y <input type="checkbox"/> N
Pre-hospital AKI Risk Factors (clinical diagnosis)	
Baseline serum creatinine¶	<input type="text"/> <input type="text"/> <input type="text"/> μmol/L
Baseline estimated GFR based on CKD-EPI formula (online calculator at: http://www.qxmd.com/calculate-online/nephrology/ckd-epi-egfr)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> mL/min/1.73m ²
Hypertension	<input type="checkbox"/> Y <input type="checkbox"/> N
Diabetes Mellitus	<input type="checkbox"/> Y <input type="checkbox"/> N
Heart Failure	<input type="checkbox"/> Y <input type="checkbox"/> N
Hospital-Acquired AKI Risk Factors	
Cardiac surgery with CPB (preceding 7 days)	<input type="checkbox"/> Y <input type="checkbox"/> N
Aortic surgery/aneurysm repair (preceding 7 days)	<input type="checkbox"/> Y <input type="checkbox"/> N
Major non-aortic vascular surgery (preceding 7 days)	<input type="checkbox"/> Y <input type="checkbox"/> N
Major (non-cardiovascular) surgery (preceding 7 days)	<input type="checkbox"/> Y <input type="checkbox"/> N
Trauma (preceding 7 days)	<input type="checkbox"/> Y <input type="checkbox"/> N
IV contrast media exposure (preceding 7 days)	<input type="checkbox"/> Y <input type="checkbox"/> N
Receipt of aminoglycoside/amphotericin (preceding 7 days)	<input type="checkbox"/> Y <input type="checkbox"/> N
Sepsis (suspected or diagnosed in preceding 72 hours)	<input type="checkbox"/> Y <input type="checkbox"/> N

¶ *Baseline (pre-morbid) serum creatinine will be defined as the outpatient serum creatinine closest to the date of hospitalization and within 365 days prior to index hospitalization or if unavailable, the lowest serum creatinine documented during the current hospitalization.*

FORM 4 – BASELINE COMORBID ILLNESSES

Charlson Co-morbidity Score Components		Weight
Myocardial infarction	<input type="checkbox"/> Y <input type="checkbox"/> N	1
Congestive heart failure	<input type="checkbox"/> Y <input type="checkbox"/> N	1
Peripheral vascular disease	<input type="checkbox"/> Y <input type="checkbox"/> N	1
Dementia	<input type="checkbox"/> Y <input type="checkbox"/> N	1
Chronic pulmonary disease	<input type="checkbox"/> Y <input type="checkbox"/> N	1
Connective tissue disease	<input type="checkbox"/> Y <input type="checkbox"/> N	1
Ulcer disease	<input type="checkbox"/> Y <input type="checkbox"/> N	1
Diabetes	<input type="checkbox"/> Y <input type="checkbox"/> N	1
Hemiplegia	<input type="checkbox"/> Y <input type="checkbox"/> N	2
Moderate or severe renal disease	<input type="checkbox"/> Y <input type="checkbox"/> N	2
Diabetes with end-organ damage	<input type="checkbox"/> Y <input type="checkbox"/> N	2
Any tumour	<input type="checkbox"/> Y <input type="checkbox"/> N	2
Leukemia	<input type="checkbox"/> Y <input type="checkbox"/> N	2
Lymphoma	<input type="checkbox"/> Y <input type="checkbox"/> N	2
Moderate to severe chronic liver disease	<input type="checkbox"/> Y <input type="checkbox"/> N	3
Metastatic solid tumour	<input type="checkbox"/> Y <input type="checkbox"/> N	6
AIDS (not simply HIV positive status)	<input type="checkbox"/> Y <input type="checkbox"/> N	6
Total Score		

FORM 5 - BASELINE PHYSIOLOGIC/LABORATORY DATA

Physiologic/laboratory parameters (within 24 hours preceding eligibility)			
Temperature (°C)	Min: <input type="text"/> <input type="text"/> . <input type="text"/> Max: <input type="text"/> <input type="text"/> . <input type="text"/> <input type="checkbox"/> Not Available	Hemoglobin (g/L)	High: <input type="text"/> <input type="text"/> <input type="text"/> Low: <input type="text"/> <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available
Glasgow Coma Scale	Min: <input type="text"/> <input type="text"/> Max: <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available	White cell count (10 ³ cells/mm ³)	High: <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> Low: <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="checkbox"/> Not Available
Heart Rate (beats/min)	Min: <input type="text"/> <input type="text"/> <input type="text"/> Max: <input type="text"/> <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available	Platelets (10 ³ cells/mm ³)	High: <input type="text"/> <input type="text"/> <input type="text"/> Low: <input type="text"/> <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available
Respiratory Rate (breaths/min)	Min: <input type="text"/> <input type="text"/> Max: <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available	Serum Na ⁺ (mEq/L)	High: <input type="text"/> <input type="text"/> <input type="text"/> Low: <input type="text"/> <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available
Systolic BP (mmHg)	Min: <input type="text"/> <input type="text"/> <input type="text"/> Max: <input type="text"/> <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available	Serum K ⁺ (mEq/L)	High: <input type="text"/> <input type="text"/> . <input type="text"/> Low: <input type="text"/> <input type="text"/> . <input type="text"/> <input type="checkbox"/> Not Available
Diastolic BP (mmHg)	Min: <input type="text"/> <input type="text"/> <input type="text"/> Max: <input type="text"/> <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available	Serum HCO ₃ ⁻ (mEq/L)	High: <input type="text"/> <input type="text"/> <input type="text"/> Low: <input type="text"/> <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available
MAP (mmHg)	Min: <input type="text"/> <input type="text"/> <input type="text"/> Max: <input type="text"/> <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available	Serum pH	High: <input type="text"/> . <input type="text"/> <input type="text"/> Low: <input type="text"/> . <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available
CVP (mmHg)	Min: <input type="text"/> <input type="text"/> Max: <input type="text"/> <input type="text"/> Not Available: <input type="checkbox"/>	Serum Lactate (mmol/L)	High: <input type="text"/> <input type="text"/> . <input type="text"/> Low: <input type="text"/> <input type="text"/> . <input type="text"/> <input type="checkbox"/> Not Available
Lowest PaO ₂ / FiO ₂ ratio	<input type="text"/> <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available	Urine output (24 hr)	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> mL <input type="checkbox"/> Not Available
Fluid balance (24 hr) (mL)	± <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available	Hours of Urine Collection	<input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> hr <input type="checkbox"/> Not Available
Cumulative fluid balance (72 hr) (mL)	± <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available	SOFA score (24 hours of eligibility)	<input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available
APACHE II score (at ICU admission)	<input type="text"/> <input type="text"/> <input type="checkbox"/> Not Available		

FORM 6 - AKI AND DECISION TO INITIATE RRT

AKI AND RRT PARAMETERS	
Date of 1 st AKI diagnosis in ICU (dd/mmm/yyyy)	□□/□□□/□□□□
Worst AKI stage achieved in ICU <i>(RIFLE/KDIGO class)</i>	<input type="checkbox"/> Injury/Stage II <input type="checkbox"/> Failure/Stage III
Date of worst AKI (dd/mmm/yyyy)	□□/□□□/□□□□
Peak serum creatinine (current ICU admission)	□□□ μmol/L
Date of peak serum creatinine (dd/mmm/yyyy)	□□/□□□/□□□□
Peak serum urea (current ICU admission)	□□□ mmol/L <input type="checkbox"/> Not Available
Date of peak serum urea (dd/mmm/yyyy)	□□/□□□/□□□□
If indicated, would RRT ever be initiated in this patient? <i>(obtained from intensivist/ – at time of patient eligibility)</i>	<input type="checkbox"/> Y <input type="checkbox"/> N
During this patient’s course in ICU, was RRT initiated? <i>(obtained from intensivist)</i>	<input type="checkbox"/> Y <input type="checkbox"/> N
If started, date of RRT initiation (dd/mmm/yyyy)	□□/□□□/□□□□
If started, please indicate the reason(s) why RRT initiated <i>(check all that apply)</i> <i>(obtained from intensivist/)</i>	<input type="checkbox"/> Hyperkalemia <input type="checkbox"/> Acidemia <input type="checkbox"/> Hypoxemia due to edema <input type="checkbox"/> Fluid overload/accumulation <input type="checkbox"/> Oligo-anuria <input type="checkbox"/> Azotemia (urea >30 mmol/L) or uremia <input type="checkbox"/> Other (Specify: _____)
If RRT was not started in this patient during their ICU course, please indicate the reason(s) why RRT was not initiated <i>(check all that apply)</i> <i>(obtained from intensivist/– at ICU discharge/ death)</i>	1. <input type="checkbox"/> Recovered kidney function 2. <input type="checkbox"/> Death/deterioration prior to starting RRT 3. <input type="checkbox"/> Limitation/withdrawal of medical therapy 4. <input type="checkbox"/> Not consistent with patient “goals-of-care” 5. <input type="checkbox"/> Not offered because age too advanced 6. <input type="checkbox"/> Not offered because not expected to benefit 7. <input type="checkbox"/> Other (Specify: _____)

FORM 7 – CLINICAL/PHYSIOLOGIC/LABORATORY DATA FROM AKI DIAGNOSIS

Assessment Day After Eligibility (Day 0)**	Day 1	Day 3	Day 7	Day 10	Day 14	Day 28
Date (dd/mmm/yyyy)	<input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Details related to AKI (worst value on day of assessment)						
Creatinine (μmol/L)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Urea (mmol/L)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Urine output (mL)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Hours of Urine Collection	<input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>
Cumulative fluid balance (mL)	± <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	± <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	± <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	± <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	± <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	± <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Serum Na ⁺ (mEq/L)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Serum HCO ₃ ⁻ (mEq/L)	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Serum K ⁺ (mEq/L)	<input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/>
AKI Present	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
AKI Stage III Present	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Details related to RRT						
Receiving RRT	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
If not, reason(s)? (check all that apply)	<input type="checkbox"/> Not clinically indicated <input type="checkbox"/> Not part of GOC	<input type="checkbox"/> Not clinically indicated <input type="checkbox"/> Not part of GOC	<input type="checkbox"/> Not clinically indicated <input type="checkbox"/> Not part of GOC	<input type="checkbox"/> Not clinically indicated <input type="checkbox"/> Not part of GOC	<input type="checkbox"/> Not clinically indicated <input type="checkbox"/> Not part of GOC	<input type="checkbox"/> Not clinically indicated <input type="checkbox"/> Not part of GOC
Interventions during the 24 hour assessment day						
Mechanical ventilation	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Vasoactive support	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Furosemide	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Other diuretic	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Enteral nutrition	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
TPN	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Red cell transfusion	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Transfused other products	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
SOFA (worst score for each parameter during the 24 hour assessment day) (score 0-4)						
CV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CNS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liver	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coagulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Renal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SCORE	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

** Data obtained from index ICU admission associated with study enrolment only.

FORM 8 - ADVERSE EVENTS IN ICU

ADVERSE EVENTS (while in ICU or until 28 days after eligibility if still in ICU)	
Date of occurrence of AE	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Adverse Event number	<input type="text"/> <input type="text"/>
Was AE classified as a serious adverse event (SAE)*	<input type="checkbox"/> Y <input type="checkbox"/> N
RRT-related Adverse Event	
CVC insertion – arterial puncture	<input type="checkbox"/> Y <input type="checkbox"/> N
CVC insertion – bleeding (transfusion required)	<input type="checkbox"/> Y <input type="checkbox"/> N
CVC insertion – pneumothorax/hemothorax (chest drain required)	<input type="checkbox"/> Y <input type="checkbox"/> N
CVC insertion – thrombus (ultrasound confirmed)	<input type="checkbox"/> Y <input type="checkbox"/> N
CVC insertion – air embolism	<input type="checkbox"/> Y <input type="checkbox"/> N
RRT related – hypotension (requiring fluid bolus/addition of vasopressor)	<input type="checkbox"/> Y <input type="checkbox"/> N
RRT related – hypokalemia ($K^+ < 3.00$ mmol/L)	<input type="checkbox"/> Y <input type="checkbox"/> N
RRT related – hypophosphatemia ($PO_4^- < 0.50$ mmol/L)	<input type="checkbox"/> Y <input type="checkbox"/> N
RRT related – hypocalcemia (ionized $Ca^+ < 0.85$ mmol/L)	<input type="checkbox"/> Y <input type="checkbox"/> N
RRT related – arrhythmia	<input type="checkbox"/> Y <input type="checkbox"/> N
RRT related – seizure	<input type="checkbox"/> Y <input type="checkbox"/> N
RRT related – bleeding (transfusion required)	<input type="checkbox"/> Y <input type="checkbox"/> N

*A serious adverse event meets one or more of the following criteria:

- Results in death
- Is life-threatening
- Requires inpatient hospitalization or prolongation of existing hospitalization
- Creates persistent or significant disability / incapacity
- A congenital anomaly / birth defect(s)

FORM 9 – HOSPITAL and 90-DAY OUTCOMES

ICU Discharge	
Alive at ICU Discharge	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A (still in ICU)
Date of ICU discharge (dd/mmm/yyyy)	□□/□□□□/□□□□
Receiving RRT at ICU Discharge	<input type="checkbox"/> Y <input type="checkbox"/> N
Creatinine (µmol/L) (if not receiving RRT)	□□□
Urea (mmol/L) (if not receiving RRT)	□□□
GOC change during ICU admission	<input type="checkbox"/> Y <input type="checkbox"/> N
GOC status at ICU discharge	<input type="checkbox"/> Full support <input type="checkbox"/> No CPR but ICU readmission <input type="checkbox"/> No CPR with no ICU readmission
Hospital Discharge	
Alive at Hospital Discharge	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A (still in hospital)
Date of Hospital Discharge (dd/mmm/yyyy)	□□/□□□□/□□□□
Did the patient have a tunneled RRT catheter inserted during index hospitalization?	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A, no RRT received
ICU readmission during index hospitalization	<input type="checkbox"/> Y <input type="checkbox"/> N
Receiving RRT at Hospital Discharge	<input type="checkbox"/> Y <input type="checkbox"/> N
If yes, RRT modality:	<input type="checkbox"/> Outpatient HD <input type="checkbox"/> Home HD <input type="checkbox"/> Home Peritoneal dialysis
Creatinine (µmol/L) (if not receiving RRT)	□□□
Urea (mmol/L) (if not receiving RRT)	□□□
Discharge Disposition	<input type="checkbox"/> Rehabilitation facility <input type="checkbox"/> Assisted living facility <input type="checkbox"/> Nursing home/LTC <input type="checkbox"/> Home with assistance <input type="checkbox"/> Home independent <input type="checkbox"/> Other acute care hospital/facility
90-Day Outcomes	
Alive at 90-Days from eligibility	<input type="checkbox"/> Y <input type="checkbox"/> N
Receiving RRT at 90 days	<input type="checkbox"/> Y <input type="checkbox"/> N
If yes, RRT modality:	<input type="checkbox"/> Outpatient HD <input type="checkbox"/> Home HD <input type="checkbox"/> Home Peritoneal dialysis <input type="checkbox"/> RRT in Hospital

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FORM 10 - LONG-TERM OUTCOMES (6-months)

6 – Month Follow-Up (date) (If patient is deceased, skip to Form 12)	□□/□□□/□□□□
Interview conducted with	<input type="checkbox"/> Patient <input type="checkbox"/> Other <input type="checkbox"/> Both [patient + other] <input type="checkbox"/> None
Re-hospitalization	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A (never discharged)
If yes, date of 1 st re-hospitalization (dd/mmm/yyyy)	□□/□□□/□□□□
Receiving RRT at 6-months	<input type="checkbox"/> Y <input type="checkbox"/> N
If yes, RRT modality:	<input type="checkbox"/> Outpatient HD <input type="checkbox"/> Home HD <input type="checkbox"/> Home Peritoneal dialysis <input type="checkbox"/> RRT in Hospital
If no, date of last RRT (dd/mmm/yyyy)	□□/□□□/□□□□ OR <input type="checkbox"/> N/A (RRT never started)
Creatinine closest to 6 months (μmol/L) (if not receiving RRT)	□□□
Disposition at 6-months	<input type="checkbox"/> Rehabilitation facility <input type="checkbox"/> Assisted living facility <input type="checkbox"/> Nursing home/LTC <input type="checkbox"/> Home with assistance <input type="checkbox"/> Home independent <input type="checkbox"/> Other acute care facility/hospital
Cognitive assessment (see worksheet) (score < 2 = demented) (score ≥ 2 and ≤ 4 = impairment – not demented) (score ≥ 5 =no impairment)	<input type="checkbox"/> No impairment <input type="checkbox"/> Impairment – not demented <input type="checkbox"/> Demented <input type="checkbox"/> Not available
HRQL assessment at 6-months complete (EQ-5D)	<input type="checkbox"/> Y <input type="checkbox"/> N (see worksheet)
Mobility (score 1-5; missing 9)	□
Self-care (score 1-5; missing 9)	□
Usual activities (score 1-5; missing 9)	□
Pain/discomfort (score 1-5; missing 9)	□
Anxiety/depression (score 1-5; missing 9)	□
EQ-VAS score (score 0-100)	□□□
Frailty Status (Clinical Frailty Scale [CFS] score)	<input type="checkbox"/> (CFS score range 1-8 – see worksheet)

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FORM 11 - LONG-TERM OUTCOMES (12-months)

12 – Month Follow-Up (date) (If patient is deceased, skip to Form 12)	□□/□□□/□□□□
Interview conducted with	<input type="checkbox"/> Patient <input type="checkbox"/> Other <input type="checkbox"/> Both [patient + other] <input type="checkbox"/> None
Re-hospitalization	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A (never discharged)
If yes, date of 1 st re-hospitalization (dd/mmm/yyyy)	□□/□□□/□□□□
Receiving RRT at 12-months	<input type="checkbox"/> Y <input type="checkbox"/> N
If yes, RRT modality:	<input type="checkbox"/> Outpatient HD <input type="checkbox"/> Home HD <input type="checkbox"/> Home Peritoneal dialysis <input type="checkbox"/> RRT in Hospital
If no, date of last RRT (dd/mmm/yyyy)	<input type="checkbox"/> □□/□□□/□□□□ OR <input type="checkbox"/> N/A (RRT never started)
Creatinine closest to 12 months (µmol/L) (if not receiving RRT)	□□□
Disposition at 12-months	<input type="checkbox"/> Rehabilitation facility <input type="checkbox"/> Assisted living facility <input type="checkbox"/> Nursing home/LTC <input type="checkbox"/> Home with assistance <input type="checkbox"/> Home independent <input type="checkbox"/> Other acute care hospital/facility
Cognitive assessment (see worksheet) (score < 2 = demented) (score ≥ 2 and ≤ 4 = impairment – not demented) (score ≥ 5 =no impairment)	<input type="checkbox"/> No impairment <input type="checkbox"/> Impairment – not demented <input type="checkbox"/> Demented <input type="checkbox"/> Not available
HRQL assessment at 12-months complete (EQ-5D)	<input type="checkbox"/> Y <input type="checkbox"/> N (see worksheet)
Mobility (score 1-5; missing 9)	□
Self-care (score 1-5; missing 9)	□
Usual activities (score 1-5; missing 9)	□
Pain/discomfort (score 1-5; missing 9)	□
Anxiety/depression (score 1-5; missing 9)	□
EQ-VAS score (score 0-100)	□□□
Frailty Status (Clinical Frailty Scale [CFS] score)	<input type="checkbox"/> (CFS score range 1-8 – see worksheet)

FORM 12 – STUDY TERMINATION FORM

Did the patient complete the study to 12 months?	<input type="checkbox"/> Y <input type="checkbox"/> N
If no, reason for not completing the full study:	<input type="checkbox"/> Patient or SDM withdrew consent Date of withdrawal: <input type="text"/> / <input type="text"/> / <input type="text"/> <input type="text"/> <input type="checkbox"/> Lost to follow-up Date of last contact: <input type="text"/> / <input type="text"/> / <input type="text"/> <input type="text"/> <input type="checkbox"/> Consent not obtained to conduct interviews <input type="checkbox"/> Death Date of death: <input type="text"/> / <input type="text"/> / <input type="text"/> <input type="text"/> <input type="checkbox"/> Other, specify: _____

Study Completion (Attestation)		
Form completed by: _____	Signature: _____	Date: / /
Principal Investigator: _____	Signature of PI: _____	Date: / /