## Supplemental Figure F1: Questionnaire Assessing Renal Replacement Therapy Equipment and Strategy in the Intensive Care Unit

Our aim is to conduct a study that describes the modalities and equipment used for renal replacement therapy in Veterans Affairs intensive care units. Your participation in this survey is voluntary, and by completing this survey your consent is implied. Thank you for participating, and we appreciate your time.

1. At v	which Veteran Affairs medical center do you practice?
2. Plea	se select all of the intensive care units that exist at your facility.
	□ Medical Intensive Care Unit
	□ Cardiac Care Unit
	□ Surgical Intensive Care Unit
	□ Not Applicable (ICU care not available)
	□ Other (please specify):
3. Wha	at modes of renal replacement therapy do you offer in the ICU? Please check all that apply.
	□ Peritoneal Dialysis
	□ Intermittent Hemodialysis
	□ Continuous Veno-venous Hemofiltration (CVVH)
	□ Continuous Veno-venous Hemodialysis (CVVHD)
	□ Continuous Veno-venous Hemodiafiltration (CVVHDF)
	□ Slow Low Efficient Daily Dialysis (SLED)
	□ SHIFT (PIRRT)
	□ Accelerated Veno-venous Hemofiltration (PIRRT)
	□ Other:
4. Doe	s your institution pack temporary dialysis catheters with an anticoagulant in the intensive care unit?
	□ Yes
	□ No
5. Doe	s your institution pack tunneled dialysis catheters with an anticoagulant in the intensive care unit?
	□ Yes
	□ No
6. Wha	at are the catheters packed with in between use in the intensive care unit?
	□ Citrate

□ Heparin			
□ Saline			
□ Not applicable			
□ Other:			
7. Does your institution utilize trialysis catheters (short-term dialysis catheter with an additional injectable third lumen for administration of medications)?			
□ Yes			
□ No			
8. Please select all of the temporary catheter lengths that most closely resemble what your institution carries.			
□ 12-13.5cm			
□ 15-16cm			
□ 19-20cm			
□ 23-25cm			
□ >25cm			
Other:			
9. Please identify who orders prescriptions for prolonged or continuous therapies (CVVH, CVVHD, CVVHDF, SLED, SHIFT, AVVH)			
CVVHDF, SLED, SHIFT, AVVH)			
CVVHDF, SLED, SHIFT, AVVH)  □ Intensivist alone			
CVVHDF, SLED, SHIFT, AVVH)  □ Intensivist alone □ Nephrologist alone			
CVVHDF, SLED, SHIFT, AVVH)  □ Intensivist alone □ Nephrologist alone □ Combined intensivist/nephrologist			
CVVHDF, SLED, SHIFT, AVVH)  □ Intensivist alone □ Nephrologist alone □ Combined intensivist/nephrologist □ Not Applicable			
CVVHDF, SLED, SHIFT, AVVH)    Intensivist alone   Nephrologist alone   Combined intensivist/nephrologist   Not Applicable   Other:			
CVVHDF, SLED, SHIFT, AVVH)    Intensivist alone   Nephrologist alone   Combined intensivist/nephrologist   Not Applicable   Other:			
CVVHDF, SLED, SHIFT, AVVH)  Intensivist alone  Nephrologist alone  Combined intensivist/nephrologist  Not Applicable  Other:  Intensive Care Unit nurse alone			
CVVHDF, SLED, SHIFT, AVVH)    Intensivist alone   Nephrologist alone   Combined intensivist/nephrologist   Not Applicable   Other:			

11. Please identify the staff member who directly manages renal replacement therapy if a patient is on a prolonged therapy that is not continuous (SHIFT, AVVH, SLED):

☐ Intensive Care Unit nurse alone		
□ Hemodialysis nurse alone		
□ Hemodialysis nurse set- up/oversight and Intensive Care Unit nurse management		
□ Not applicable		
□ Other:		
12. If an ICU nurse is taking care of a patient on a continuous or prolonged therapy (CVVH, CVVHD, CVVHDF, SLED, SHIFT, AVVH), does that nurse only take care of one patient? In other words, are they stationed 1:1?		
□ Yes		
□ No		
□ Not Applicable		
□ Other:		
13. Does your hospital use grafts or fistulas during any prolonged or continuous therapy (CVVH, CVVHD, CVVHDF, SLED, PIRRT)?		
□ Yes:		
$\square$ No		
□ Not Applicable		
□ Other:		
14. If so, during which continuous or prolonged therapies (CVVH, CVVHD, CVVHDF, SLED, PIRRT) do you allow fistula or graft use? Please select all that apply		
□ Continuous Veno-venous Hemofiltration (CVVH)		
□ Continuous Veno-venous Hemodialysis (CVVHD)		
□ Continuous Veno-venous Hemadiafiltration (CVVHDF)		
□ Slow Low Efficient Daily Dialysis (SLED)		
□ SHIFT (PIRRT)		
□ Accelerated Veno-venous Hemofiltration (PIRRT)		
□ Not Applicable		
□ Other:		
15. If so, please elaborate on any techniques or safeguards in place for graft/fistula use. Please type 'N/A' if you do not use grafts/fistulas during prolonged or continuous therapies.		

16. Does your hospital use heparin anticoagulation with continuous or prolonged therapies (CVVH, CVVHD, CVVHDF, SLED, PIRRT)? Please estimate frequency of use:
□ Almost always (>80% of treatments)
□ Frequently (between 20-80% of treatments)
□ Infrequently (<20% of treatments)
□ Never (0% of treatments)
□ Not Applicable
17. Does your institution use regional citrate anticoagulation with continuous or prolonged therapies (CVVH, CVVHD, CVVHDF, SLED, PIRRT)? Please estimate frequency of use:
□ Almost always (>80% of treatments)
☐ Frequently (between 20-80% of treatments)
□ Infrequently (<20% of treatments)
□ Never (0% of treatments)
□ Not Applicable
18. Once a patient is on continuous or prolonged therapy, who recommends adjustments to antimicrobial dosing? Please select all that apply
□ Pharmacist
□ Intensivist
□ Nephrologist
□ Not Applicable
19. For continuous or prolonged therapies (CVVH, CVVHD, CVVHDF, PIRRT) other than SLED, what machine do you use? Please select all that apply.
□ Prismaflex
□ NxStage
□ Not Applicable
□ Other:
20. For continuous or prolonged therapies (CVVH, CVVHD, CVVHDF, PIRRT) other than SLED, what solutions do you use? Pleaser select all that apply
□ B. Braun/Duosol
□ NxStage
□ Baxter/Prisma
□ Not Applicable

□ Other:				
21. For continuous or prolonged therapies (CVVH, CVVHD, CVVHDF, PIRRT) other than SLED, what potassium concentration solutions do you carry? Please select all that apply				
□ 0k				
□ 2k				
□ 4k				
□ Not Applicable				
Supplemental Table S1: Equipment				
Machines Used for CRRT (responses=40; 95.2%)	n (%)			
PRISMAFLEX®	25 (62.5)			
NxStage®	15 (37.5)			
Machines Used for PIRRT (responses=13/13; 100%)	, ,			
PRISMAFLEX®	0 (0.0)			
NxStage®	1 (7.7)			
Other (SLED)	12 (92.3)			
Solutions used for CRRT (responses=41/42; 97.6%)	,			
B Braun®/Duosol®	4 (9.8)			
Baxter®	29 (70.7)			
NxStage®	11 (26.8)			
Tailor-made replacement fluid	1 (2.4)			
Potassium Solutions used for CRRT (responses=39/42				
0K	3 (7.7)			
2K	1 (2.6)			
4K	5 (12.8)			
0K & 2K	0 (0.0)			
0K & 2K 0K & 4K				
2K & 4K	2 (5.1)			
	18 (46.2)			
0K, 2K, & 4K	10 (25.6)			
Supplemental Table S2: Anticoagulation on Slow Low Efficient Dialysis				
Heparin Anticoagulation among SLED alone (respons				
Never	2 (18.2)			
Infrequent (<20% of treatments)	5 (45.5)			
Frequent ( $\geq 20\% \& < 80\%$ of treatments)	2 (18.2)			
Almost Always (≥80% of treatments)	2 (18.2)			
Regional Citrate Anticoagulation among SLED (response)	onses=10/12; 83.3%)			
Never	7 (70.0)			
Infrequent (<20% of treatments)	3 (30.0)			
Frequent ( $\geq 20\% \& < 80\%$ of treatments)	0 (0.0)			
Almost Always (≥80% of treatments)	0 (0.0)			

## ${\bf Supplemental\ Table\ S3:\ Antimicrobial\ Dosing\ on\ Prolonged\ or\ Continuous\ Renal\ Replacement\ Therapy}$

Antimicrobial Dosing (responses=53/55; 96.4%)	n (%)	
Pharmacist	11 (20.8)	
Nephrologist	3 (5.7)	
Intensivist	2 (3.8)	
Pharmacist & Nephrologist	14 (26.4)	
Pharmacist & Intensivist	1 (1.9)	
Intensivist & Nephrologist	3 (5.7)	
Pharmacist & Intensivist & Nephrologist	19 (35.8)	