

Supplementary Table 1: Catheter dysfunction data survey questionnaire

ID Number	Catheter function	Baseline-related Factors						
		Age (years)	Gender(male)	body mass index (kg/m <sup>2</sup> )	Smoking	Hypertension	Diabetes	
Catheter-related Factors								
		Catheter placement history		Catheter site (Femoral, Internal Jugular)		Catheter retention time (days)		
Laboratory-related Factors								
Red blood cell count (10 <sup>9</sup> /L)		Hemoglobin count (g/dL)	Platelet count (10 <sup>9</sup> /L)	C-reactive Protein count (10mg/L)	Fibrinogen concentration count (g/L)			
Treatment-related Factors								
Mechanical ventilation		Anticoagulation	Pre-pump pressure ratio > 0.66		Unplanned Discontinuations incidence rate			