Supplementary Table 1. Components of HD quality assessment

Domains		HD quality assessment (12 measures)	Equation
Structural	Personnel	Percent of doctors specialized in HD	[Σ (employed days of each doctor specialized in HD)/Σ (employed days of each doctor)] × 100
		Percent of nurses with ≥ 2-year experience in HD	[Σ (employed days of each nurse with \geq 2-year experience in HD)/ Σ (employed days of each nurse)] \times 100
		Number of HD performed per doctor per day	Total number of HD/Σ (working days of each doctor)
		Number of HD performed per nurse per day	Total number of HD/Σ (working days of each nurse)
	Equipment	Satisfaction with the minimum required num- ber of isolated HD equipment for hepatitis B patients	
			= number of hepatitis B patients/ $[(3 \times days of nocturnal HD)+(2 \times days of day-time HD)]/3$
		Availability of emergency equipment in the HD room	Emergency equipment: O ₂ supply, suction, endotracheal intubation kit, electrocardiogram, defibrillator
	Facilities	Satisfaction with the minimum required frequency of water quality tests	Minimum required frequency of tests
			- Bacteriological assay: monthly, $1/12$ of total HD equipments
			- Endotoxin assay: every 3 months
			- Chemical assay: annually
Procedural	HD adequacy	Satisfaction rate of the minimum required frequency of HD adequacy test	[Number of patients satisfied with the minimum required frequency of HD adequacy test/total number of ambulatory HD patients] \times 100
			- Minimum frequency: every 3 months
	Vascular access	Satisfaction rate of the minimum requirement for vascular access stenosis monitoring	[Number of patients satisfied with the minimum required frequency of vascular access stenosis monitoring/total number of ambulatory HD patients] × 100
			Monitoring methods
			 Monthly: static intra-access pressure ratio, ultrasound dilution technique, duplex ultrasonography, angiogra- phy
			- Weekly: physical exam of vascular access
	Regular tests	Satisfaction rate of the required frequency of regular laboratory tests	[Number of patients satisfied with the minimum required frequency of regular laboratory tests/total number of ambulatory HD patients] × 100
Monitoring	spKt/V	Satisfaction rate of HD adequacy	[Number of patients satisfied with HD adequacy/total number of HD patients tested for HD adequacy] × 100
			- HD adequacy: spKt/V ≥ 1.2 or URR ≥ 65%
	Mineral bone disorder	Satisfaction rate of calcium × phosphorus	[(The number of patients with calcium × phosphorus < 55)/total number of HD patients tested for calcium and phosphorus during the assessment period] × 100

HD, hemodialysis; spKt/V, single-pool Kt/V; URR, urea reduction ratio.