Supplementary Table 1. Components of hemodialysis quality assessment

Domain	Category	HD quality assessment (12 measures)	Equation
Structural	Personnel	(1) Percent of doctors specialized in HD	[Σ (employed days of each doctor specialized in HD) / Σ (employed days of each doctor)] × 100
		(2) Percent of nurses with ≥2-year experience in HD	[Σ (employed days of each nurse with ≥2 years experience in HD) / Σ (employed days of each nurse)] × 100
		(3) Number of HD performed per doctor per day	Total number of HD / Σ (working days of each doctor)
		(4) Number of HD performed per nurse per day	Total number of HD / Σ (working days of each nurse)
	Equipment	(5) Satisfaction of the minimum required number of isolated HD equipment for hepatitis B patients	Minimum required number of isolated HD equipment = number of hepatitis B patients/[(3 × days of nocturnal HD) + (2 × days of day-time HD)] / 3
		(6) Availability of emergency equipment in HD unit	Emergency equipment: oxygen supply, suction, Endotracheal intubation kit, electrocardiogram, defibrillator
	Facilities	(7) 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	(8) Satisfaction rate of the minimum required frequency of HD adequacy test	(Number of patients satisfied with minimum required frequency of HD adequacy test / total number of ambulatory HD patients) × 100
			· Minimum frequency: every 3 months
	Vascular access	(9) Satisfaction rate of the minimum requirement for vascular access stenosis monitoring	(Number of patients satisfied with 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, angiography
			· Weekly: physical exam of vascular access
	Regular tests	(10) Satisfaction rate of the required frequency of regular laboratory tests	(Number of patients satisfied with minimum required frequency of regular laboratory tests / total number of ambulatory HD patients) × 100
Monitoring	spKt/V	(11) 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	(12) Satisfaction rate of calcium × phosphorus	[(The number of patients with calcium × phosphorus < 55) / total number of HD patients tested for calcium and phosphorus during assessment period] × 100

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