

Supplementary Table 1. Components of HD quality assessment

Domain		HD quality assessment (12 measures)	Equation
Structural	Personnel	(1) Percent of doctors specializing in HD	$[\Sigma (\text{employed days of each doctor specializing in HD}) / \Sigma (\text{employed days of each doctor})] \times 100$
		(2) Percent of nurses with ≥ 2 years of experience in HD	$[\Sigma (\text{employed days of each nurse with } \geq 2 \text{ years of experience in HD}) / \Sigma (\text{employed days of each nurse})] \times 100$
		(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/[$(3 \times \text{days of nocturnal HD}) + (2 \times \text{days of daytime HD})$]/3
		(6) Availability of emergency equipment in HD room	Emergency equipment: oxygen supply, suction, endotracheal intubation kit, electrocardiogram, defibrillator
	Facilities	(7) Satisfaction of the minimum required frequency of water quality testing	Minimum required frequency of tests - Bacteriological assay: monthly, 1/12 of total HD equipment - 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) $\times 100$ - 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) $\times 100$ * Monitoring methods - Monthly: static intra-access pressure ratio, ultrasound dilution technique, duplex ultrasonography, angiography - Weekly: physical examination 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) $\times 100$
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) $\times 100$ - HD adequacy: spKt/V ≥ 1.2 or URR $\geq 65\%$
	Mineral bone disorder	(12) Satisfaction rate of calcium \times phosphorus	$[(\text{Number of patients with calcium } \times \text{ phosphorus } < 55) / \text{total number of HD patients tested for calcium and phosphorus during assessment period}] \times 100$

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