MEASURES ASSESSMENT TOOL (MAT)

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Tag	Condition/Standard	Measure	Values	Reference	Source					
494.40) Water and dialysate quality:									
V196	Water quality	Max. chloramine (must determine)	≤0.1 mg/L daily/shift	AAMI RD52	Records					
V196	Use max. chloramine value if only one test is performed	Max. total chlorine (may determine)	≤0.5 mg/L daily/shift							
V178		Action / Max. bacteria – product water / dialysate	50 CFU/mL / <200 CFU/mL							
V180		Action / Max. endotoxin – product water / dialysate	1 EU/mL / <2 EU/mL (endotoxin units)							
	Reuse of hemodialyzers and blood lines (only app		The second state of the se		Deserte					
V336	Dialyzer effectiveness	Total cell volume (hollow fiber dialyzers)	Measure original volume	KDOQI HD Adequacy 2006; AAMI RD47	Records					
404.90	Detient accomment: The interdisciplingry team (IDT) nationt/designed DN MSW/ DD netroision must prov	Discard if after reuse <80% of original vide each patient with an individualized & comprehensive		Interview					
494.00 V502	- Health status/comorbidities	- Medical/nursing history, physical exam findings	Refer to Plan of care & QAPI sections (below) for values	Conditions for Coverage	Chart					
V502 V503	- Dialysis prescription	- Evaluate: HD every mo; PD first mo & q 4 mo	Relei to Fian of care & QAFT sections (below) for values	KDOQI Guidelines (see POC)	Chart					
V503	- BP & fluid management	- Interdialytic BP & wt gain, target wt, symptoms		REOQI Guidelines (see 1 00)						
V504 V505	- Lab profile	- Monitor labs monthly & as needed								
V506	- Immunization & meds history	- Pneumococcal, hepatitis, influenza; med allergies								
V507	- Anemia (Hgb, Hct, iron stores, ESA need)	- Volume, bleeding, infection, ESA hypo-response								
V508	- Renal bone disease	- Calcium, phosphorus, PTH & medications								
V509	- Nutritional status	- Multiple elements listed								
V510	- Psychosocial needs	- Multiple elements listed								
V511	- Dialysis access type & maintenance	- Access efficacy, fistula candidacy								
V512	- Abilities, interests, preferences, goals, desired	- Reason why patient does not participate in care, reason								
	participation in care, preferred modality & setting,	why patient is not a home dialysis candidate								
	expectations for outcomes									
V513	 Suitability for transplant referral 	- Reason why patient is not a transplant candidate								
V514	- Family & other support systems	- Composition, history, availability, level of support								
V515	- Current physical activity level & referral to vocational &	- Abilities & barriers to independent living; achieving								
	physical rehabilitation	physical activity, education & work goals								
			ecifies the services necessary to address the patient's ne							
	•	ude measurable & expected outcomes & estimated time	etables to achieve outcomes. Outcome goals must be con	sistent with current professionally	y accepted					
	practice standards.									
V543	(1) Dose of dialysis/volume status	Management of volume status	Euvolemic & BP 130/80 (adult); lower of 90% of normal for	KDOQI HD Adequacy 2006	Chart					
	Monitor each treatment		age/ht/wt or 130/80 (pediatric)	KDDOQI Hypertension 2004						
V544	(1) Dose of dialysis (HD adequacy)	Adult HD <5 hours 3x/week, minimum Kt/V	≥1.2; Min. 3 hours/tx if RKF <2ml/min	KDOQI HD Adequacy 2006	DFR					
	Monitor adequacy monthly	Adult HD 2x/week, RKF <2 mL/min.	Inadequate treatment frequency							
11544		HD 4-6x/week, minimum Kt/V	≥2.0/week							
V544	(1) Dose of dialysis (PD adequacy – adult)	Minimum delivered Kt/V _{urea}	≥1.7/week	KDOQI PD Adequacy 2006	Chart					
1/544	Monitor 1 st month & every 4 months	Minimum delivered 1/40/	>1.0/weak		Chart					
V544	(1) Dose of dialysis (PD adequacy – pediatric) Monitor 1 st month & every 6 months	Minimum delivered Kt/V _{urea}	≥1.8/week	KDOQI PD Adequacy 2006	Chart					
V545	(2) Nutritional status - Monitor albumin & body weight	Albumin	≥4.0 g/dL BCG preferred; if BCP: lab normal	KDOQI Nutrition 2000	Chart					
V040	(2) Nutritional status - Monitor albumin & body weight monthly; other parameters at V509, monitor as needed	Body weight & other parameters listed at V509	% usual wt, % standard wt, BMI, est. % body fat	KDOQI NUIIII0I 2000 KDOQI CKD 2002	Chart					
	for impact on nutrition	body weight & other parameters listed at v509	% usual wi, % stanualu wi, bivii, esi. % buuy lat	KDOQI CKD 2002						
V546	(2) Nutritional status (pediatric) monitor monthly	Length/height, weight, BMI, nPCR	Normalized nPCR for HD teen, nPCR N/A younger	KDOQI Pediatric Nutrition 2008	Chart					
V540	(3) Mineral metabolism & renal bone disease	Calcium corrected for albumin (BCG)	Normal for lab; preferred uper level <10/ mg/dL	KDOQI Pediatric Nutrition 2008	Chart					
V J40	Monitor calcium & phosphorus monthly	Phosphorus	All: 3.5-5.5 mg/dL	Disease 2003	Chart					
	Monitor intact PTH every 3 months	Intact PTH	Adult: 150-300 pg/mL; Pediatric: 200-300 pg/mL	Disease 2005						
V547	(4) Anemia – Hgb non-ESA - monitor monthly	Hemoglobin (Adult & pediatric)	>10.0 g/dL	KDOQI Anemia 2006	DFR					
V547	(4) Anemia – Hgb no ESA – monitor monthly	Hemoglobin (Adult & pediatric)	<12.0 g/dL ¹	¹ =FDA "box" warning	DFR					
V548		Hemoglobin (Adult & pediatric)	10-12.0 g/dL ²	² =Medicare reimbursement						
1040		Hemoglobin (Adult & pediatric)	11-12.0 g/dL, ≤13.0 g/dL ³	³ =KDOQI Anemia CKD 2007						
V549	(4) Anemia - Monitor iron stores routinely	Adult & pediatric: transferrin saturation	>20% (HD, PD), or CHr >29 pg/cell	KDOQI Anemia 2006	DFR					
10-10		Adult & pediatric: serum ferritin	HD: >200 ng/mL; PD: >100 ng/mL							
			HD/PD: <500 ng/mL or evaluate if indicated							
			TIDA D. Soo ngane of ovaluato in indibutou							

Sources: DFR=Dialysis Facility Reports; CW=CROWNWeb; Chart=Patient Chart; Records=Facility Records; Interview=Patient/Staff Interview Abbreviations: BCG/BCP=bromcresol green/purple BMI=Body mass index; CAHPS=Consumer Assessment of Healthcare Providers & Services; CFU=colony forming units; CHr=reticulocyte hemoglobin; DOPPS=Dialysis Outcomes & Practice Patterns Study; ESA=erythropoiesis stimulating agent; nPCR=normalized protein catabolic rate; RKF=residual kidney function Centers for Medicare & Medicaid Services - Interim Version 1.5

MEASURES ASSESSMENT TOOL (MAT)

Tag	Condition/Standard	Measure	Values	Reference	Source
V550	(5) Vascular access	Fistula	Preferred ^{4,5}	4=KDOQI Vascular Access	DFR
V551		Graft	Acceptable if fistula not possible ^{4,5}	2006	Interview
		Central Venous Catheter	Avoid, unless bridge to fistula/graft or to PD, if transplant	⁵ =Fistula First	CW
			soon, or in small adult/peds pt ⁴		
V552	(6) Psychosocial status	Survey physical & mental functioning annually	Achieve & sustain average or lower case mix adjusted risk &	Conditions for Coverage	Chart
		KDQOL-36 survey annually or more often as needed	no score declining ≥10 points	CMS CPM 4/1/08; DOPPS	Interview
V553	(7) Modality	Home dialysis referral	Candidacy or reason for non-referral	Conditions for Coverage	Chart
V554		Transplantation referral		_	Interview
V555	(8) Rehabilitation status	Productive activity desired by patient	Achieve & sustain appropriate level, unspecified	Conditions for Coverage	Chart
		Pediatric: formal education needs met			Interview
		Vocational & physical rehab referrals as indicated			
V562	(d) Patient education & training	Dialysis experience, treatment options, self-care, QOL,	Documentation of education in record	Conditions for Coverage	Records
		infection prevention, rehabilitation		CMS CPM 4/1/2008	Interview
494.1 ⁴	10 Quality assessment & performance improvemen	t (QAPI): The dialysis facility must develop, implement,	maintain, & evaluate an effective, data-driven QAPI progra	am with participation by the prof	essional
memb	ers of the IDT. The program must reflect the complexity	of the organization & services (including those under a	arrangement), & must focus on indicators related to improv	ed health outcomes & the preve	ention &
			continuous monitoring for CMS review. Refer to your ESI		
	gate patient outcomes.		, , , , , , , , , , , , , , , , , , , ,	5 5	
V627	Health outcomes: Physical & mental functioning	Survey adult/pediatric patients	Achieve & sustain appropriate status	Conditions for Coverage	Records
	······································	KDQOL-36 survey annually or more often as needed	↑ % completing survey	CMS CPM 4/1/2008	
V627	Health outcomes: Patient survival	Standardized mortality ratio (1.0 is average, >1.0 is worse	↓ mortality	Conditions for Coverage	DFR
		than average, <1.0 is better than average)	↓ ······	CMS CPM 4/1/08	
V629	(i) HD adequacy (monthly)	HD: Adult (patient with ESRD ≥3 mo)	↑ % with single pool Kt/V ≥1.2 or URR ≥65% if 3 times/week	Conditions for Coverage	DFR
			dialysis; single pool Kt/V >2.0 if 5-6 times/week dialysis	CMS CPM 4/1/2008 (all)	Records
V629	(i) PD adequacy (rolling average, each patient tested ≤4	PD: Adult	↑ % with weekly Kt/V _{urea} ≥1.7 (dialysis+RKF)	Conditions for Coverage	DFR
	months)		·····	CMS CPM 4/1/2008 (all)	Records
V630	(ii) Nutritional status	Facility set goals; refer to parameters listed in V509	↑ % of patients within target range on albumin and other	Conditions for Coverage	Records
			nutritional parameters set by the facility	0	
V631	(iii) Mineral metabolism/renal bone disease	Calcium, phosphorus, & PTH	↑ % in target range monthly	Conditions for Coverage	
				CMS CPM 4/1/2008	Records
V632	(iv) Anemia management	Mean hemoglobin (patient with ESRD ≥3 mo)	↑ % with mean 10-12 g/dL	Conditions for Coverage	DFR
	Patients taking ESAs &/or patients not taking ESAs	Mean hematocrit	↑ % with mean 30-36%	CMS CPM 4/1/2008 (all)	Records
		Serum ferritin & transferrin saturation or CHr	Evaluate if indicated		
V633	(v) Vascular access (VA)	Cuffed catheters > 90 days	↓ to <10% ⁶	6=KDOQI 2006	DFR
	Evaluation of VA problems, causes, solutions	AV fistulas for dialysis using 2 needles	↑ to ≥65% ⁶ or ≥66% ⁷	⁷ =Fistula First	Records
		Thrombosis episodes	↓ to <0.25/pt-yr forfistulas; 0.50/pt-yr for (grafts	CMS CPM 4/1/2008	CW 2/09
		Infections per use-life of access	↓ to <1% (fistula); <10% (graft)		
		VA patency	↑ % with fistula >3 yrs & graft >2 yrs		
V634	(vi) Medical injuries & medical errors identification	Medical injuries & medical errors reporting	↓ frequency through prevention, early identification & root	Conditions for Coverage	Records
			cause analysis		
V635	(vii) Reuse	Evaluation of reuse program including evaluation &	↓ adverse outcomes	Conditions for Coverage	DFR
		reporting of adverse outcomes			Records
					Records
V636	(viii) Patient satisfaction & grievances	Report & analyze grievances for trends	Prompt resolution of patient grievances	Conditions for Coverage	
V636	(viii) Patient satisfaction & grievances	Report & analyze grievances for trends CAHPS In-Center Hemodialysis Survey or any patient	 Prompt resolution of patient grievances ↑ % of patients satisfied with care 	Conditions for Coverage CMS CPM 4/1/2008	Interview
		Report & analyze grievances for trends CAHPS In-Center Hemodialysis Survey or any patient satisfaction survey	↑ % of patients satisfied with care	CMS CPM 4/1/2008	
V636 V637	(viii) Patient satisfaction & grievances (ix) Infection control	Report & analyze grievances for trends CAHPS In-Center Hemodialysis Survey or any patient	 ↑ % of patients satisfied with care Minimize infections & transmission of same 		DFR
V637	(ix) Infection control	Report & analyze grievances for trends CAHPS In-Center Hemodialysis Survey or any patient satisfaction survey Analyze & document incidence for baselines & trends	 ↑ % of patients satisfied with care Minimize infections & transmission of same Promote immunizations 	CMS CPM 4/1/2008 Conditions for Coverage	DFR Records
		Report & analyze grievances for trends CAHPS In-Center Hemodialysis Survey or any patient satisfaction survey Analyze & document incidence for baselines & trends Hepatitis B, influenza, & pneumococcal vaccines	% of patients satisfied with care Minimize infections & transmission of same Promote immunizations Documentation of education in record	CMS CPM 4/1/2008 Conditions for Coverage Conditions for Coverage	DFR
V637	(ix) Infection control	Report & analyze grievances for trends CAHPS In-Center Hemodialysis Survey or any patient satisfaction survey Analyze & document incidence for baselines & trends	 ↑ % of patients satisfied with care Minimize infections & transmission of same Promote immunizations 	CMS CPM 4/1/2008 Conditions for Coverage	DFR Records

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