Web-appendices

Web-appendix table 1. CKD management recommendations provided by the interdisciplinary CKD-guideline for primary care and nephrology.

web-appendix table 1. CKD		al monitoring o					al monitoring of			
		albumin	fasting	blood					serum	
	eGFR	urine	glucose	pressure	hemoglobin	calcium	phosphate	PTH	albumin	potassium
Patients ≥ 65 years							1			I
eGFR ≥ 60 and	•	•	•	•						
microalbuminuria										
eGFR 45 – 60 and	•	•	•	•						
normo- or micro-albuminuria										
eGFR 30 – 45 and	•	•	•	•	•	•	•	•	•	•
normo- or micro-albuminuria										
eGFR < 30 and	•	•	•	•	•	•	•	•	•	•
normo- or micro-albuminuria										
eGFR any and	•	•	•	•	•	•	•	•	•	•
macroalbuminuria										
					1		l		I	
Patients < 65 years										
eGFR ≥ 60 and	•	•	•	•						
microalbuminuria										

eGFR 45 – 60 and	•	•	•	•	•	•	•	•	•	•
normo- or micro-albuminuria										
eGFR 30 – 45 and	•	•	•	•	•	•	•	•	•	•
normo- or micro-albuminuria										
eGFR < 30 and	•	•	•	•	•	•	•	•	•	•
normo- or micro-albuminuria										
eGFR any and	•	•	•	•	•	•	•	•	•	•
macroalbuminuria										2

'primary care group': treatment in primary care. 'consultation group': consultation of a nephrologist without referral. 'referral group': referral to secondary care. eGFR in ml/min/1.73m²

Web-appendix table 2. Practice characteristics

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Practice type	N
Solo practice	6
Duo practice	16
Group practice	25
Vocational training practice	30
Rural location	15
General Practice	
Information System	
Medicom	25
Micro-HIS	6
MIRA	6
Promedico ASP	8
Promedico VDF	2
L	•

Web-appendix table 3a. Classification of included CDK patients with diabetes under care of their GP using the interdisciplinary CKD-guideline for primary care and nephrology.

			lbuminuria	abotes under care or t
	Not known	Normal	Microalbuminuria	Macroalbuminuria
Patients ≥ 65 yea	rs (n = 2.164)			<u> </u>
eGFR ≥ 60			559	44
eGFR 45 – 60	133	690	253	27
eGFR 30 – 45	76	214	127	14
eGFR < 30	6	9	10	2
Patients < 65 yea	rs (<i>n</i> = 729)			
eGFR ≥ 60			418	22
eGFR 45 – 60	46	186	31	4
eGFR 30 – 45	5	8	6	2
eGFR < 30	1	0	0	0

Classification of patients based on renal function, albuminuria and age. 'primary care group' n=2.053: treatment in primary care. 'consultation group' n=680: consultation of a nephrologist without referral. 'referral group' n=160: referral to secondary care. eGFR in ml/min/1.73m²

Web-appendix table 3b. Classification of included CKD patients without diabetes under care of their GP using the interdisciplinary CKD-guideline for primary care and nephrology.

			Albuminuria	_
	Not known	Normal	Microalbuminuria	Macroalbuminuria
Patients ≥ 65 yea	rs (<i>n</i> = 4.281)			
eGFR ≥ 60			333	11
eGFR 45 – 60	1950	941	158	7
eGFR 30 – 45	533	221	64	7
eGFR < 30	46	5	3	2
Patients < 65 yea	rs (n = 1.620)			
eGFR ≥ 60			275	10
eGFR 45 – 60	817	428	37	3
eGFR 30 – 45	31	12	1	0
eGFR < 30	2	2	1	1

Classification of patients based on renal function, albuminuria and age. 'primary care group' n=3.657: treatment in primary care. 'consultation group' n=2.100: consultation of a nephrologist without referral. 'referral group' n=144: referral to secondary care. eGFR in ml/min/1.73m²

Web-appendix table 4a. Performance on process- and outcome indicators for CKD patients with diabetes, within 15 months prior to data extraction.

Patient group	N				e progression		Π				bolic complic			Recog-	Blood pres	ssure
	1					J								nition	targets*	
	j j	renal	albu-	Fasting	blood	complete	hemo-	calcium	phos-	PTH	serum	potassium	complete	'	<140/90	<130/80
	 	function	minuria	glucose	pressure		globin	'	phate		albumin				mmHg	mmHg
Primary care grou	p				1			<u></u>		<u> </u>						
Age ≥ 65 eGFR	559	519	500	526	504	462									182	67
≥ 60 and micro-	1	'	1 '		'	(83%)									(36%)	(13%)
albuminuria	 															
Age < 65 eGFR	418	368	352	369	340	307									159	55
≥ 60 and micro-	1	'	1 '		'	(73%)									(47%)	(16%)
albuminuria	 															
Age ≥ 65 eGFR	1076	1000	849	961	945	792								335	429	195
45 – 60	 					(74%)								(31%)	(45%)	(21%)
Total	2053	1887	1701	1856	1789	1561									770	317
primary care	 	(91.9%)	(82.9%)	(90.4%)	(87.1%)	(76.0%)									(43.0%)	(17.7%)
Consultation grou	p															
Age ≥ 65	417	371	283	341	344	269	209	64	53	26	44	310	18	259	188	88
eGFR 30 – 45						(65%)							(4%)	(62%)	(55%)	(26%)
	<u> </u>	<u> </u>	<u></u> '	<u> </u>	'	1		'				<u> </u>		'		1

Age < 65	263	228	190	212	204	169	77	15	11	3	8	173	2	58	100	37
eGFR 45 – 60						(64%)							(1%)	(22%)	(49%)	(18%)
			1=0			100	200									
Total	680	599	473	553	548	438	286	79	64	29	52	483	20	317	288	125
consultation		(88.1%)	(69.6%)	(81.3%)	(80.6%)	(64.4%)	(42.1%)	(11.6%)	(9.4%)	(4.3%)	(7.6%)	(71.0%)	(2.9%)	(46.6%	(52.6%)	(22.8%)
)		
Referral group																
	1					-21	1	·	1	1	1 _ 1					
Age ≥ 65 eGFR	25	23	13	17	17	12	16	5	2	0	2	21	0	18	7	6
< 30						(48%)							(0%)	(72%)	(41%)	(35%)
Age < 65 eGFR	19	16	14	17	14	12	11	6	5	1	2	17	1	10	7	5
30 – 45						(63%)							(5%)	(53%)	(50%)	(36%)
Age < 65 eGFR	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
< 30						(0%)							(0%)	(0%)	(0%)	(0%)
Macro-	115	105	91	107	100	84	43	13	5	3	8	88	1	16**	27	13
albuminuria						(73%)							(1%)	(33%)	(27%)	(13%)
Total	160	144	118	141	131	108	70	24	12	4	12	126	2	44	41	24
referral		(90.0%)	(73.8%)	(88.1%)	(81.9%)	(67.5%)	(43.8%)	(15.0%)	(7.5%)	(2.5%)	(7.5%)	(78.8%)	(1.3%)	(46.8%	(31.3%)	(18.3%)
)**		

Total	840	743	591	694	679	546	356	103	76	33	64	609	22	361	329	149
consultation		(88.5%)	(70.4%)	(82.6%)	(80.8%)	(65.0%)	(42.4%	(12.3%)	(9.0%)	(3.9%)	(7.6%)	(72.5%)	(2.6%)	(46.6%	(48.5%)	(21.9%)
and referral)**		
Total	2893	2630	2292	2550	2468	2107								696	1099	466
		(90.9%)	(79.2%)	(88.1%)	(85.3%)	(72.8%)								(37.6%	(44.5%)	(18.9%)
)**		

Process- and outcome indicators are derived from the interdisciplinary CKD-guideline for primary care and nephrology. For each indicator, performance in the preceding 15 months is shown.

(Renal function: eGFR or serum creatinine; Albuminuria: albumin creatinine ratio or urine albumin). * the percentages show the achieved blood pressure targets divided by the number of blood pressure measurements. ** Percentage calculated with patients with eGFR < 60 ml/min/1.73m² as denominator (n = 49 in macroalbuminuria group).

Web-appendix table 4b. Performance on process- and outcome indicators for CKD patients without diabetes, within 15 months prior to data extraction.

Patient group	N		Monitoring	of disease	progressio	n		N	lonitoring (of metab	olic complic	ations		Recog-	Blood pre	essure
														nition	targets*	
		renal	albu-	Fasting	blood	complete	hemo-	calcium	phos-	PTH	serum	potassiu	complete		<140/9	<130/8
		function	minuria	glucose	pressur		globin		phate		albumin	m			0	0
					e										mmHg	mmHg
Primary care gro	ир					L		1			- L				l	L
Age ≥ 65 eGFR	333	298	263	269	272	214									83	23
≥ 60 and						(64%)									(31%)	(8%)
micro-																
albuminuria																
Age < 65 eGFR	275	220	203	196	192	148									90	29
≥ 60 and						(54%)									(47%)	(15%)
micro-																
albuminuria																
Age ≥ 65 eGFR	3049	2403	837	1612	2058	737								753	805	283
45 – 60						(24%)								(25%)	(39%)	(14%)
Total	3657	2921	1303	2077	2522	1099									978	335
primary care		(79.9%)	(35.6%)	(56.8%)	(69.0%)	(30.1%)									(38.8%)	(13.3%)

Age ≥ 65	818	652	218	362	548	182	487	130	106	49	80	562	33		162	239	108
eGFR 30 – 45						(22%)							(4%)	(5	7%)	(44%)	(20%)
Age < 65	1282	903	350	632	703	278	568	81	63	29	41	643	17		266	365	112
eGFR 45 – 60						(22%)							(1%)	(2	L%)	(52%)	(16%)
Total	2100	1555	568	994	1251	460	1055	211	169	78	121	1205	50		728	604	220
consultation		(74.0%)	(27.0%)	(47.3%)	(59.6%)	(21.9%)	(50.2%	(10.0 %)	(8.0%)	(3.7%)	(5.8%)	(57.4%)	(2.4%)	(34.		(48.3%)	(17.6%)
Consultation		(74.070)	(27.070)	(47.570)	(33.070)	(21.570)	(30.270	(10.0 70)	(0.070)	(3.770)	(3.670)	(37.470)	(2.470)	(54.	, ,0,	(40.570)	(17.070)
							,										
Referral group																	
Age ≥ 65 eGFR	54	44	5	18	31	4	42	15	11	2	11	38	1		29	17	12
< 30						(7%)							(2%)	(5	1%)	(55%)	(39%)
Age < 65 eGFR	44	33	6	21	24	4	25	8	6	1	6	22	1		18	16	5
30 – 45						(9%)							(2%)	(4	L%)	(67%)	(21%)
Age < 65 eGFR	5	3	0	1	1	0	4	2	1	0	2	3	0		3	1	1
< 30						(0%)							(0%)	(6	0%)	(100%)	(100%)
Macro-	41	32	27	28	28	20	17	6	5	0	4	29	0		10	8	0
albuminuria						(49%)							(0%)	(509	6)**	(29%)	(0%)
Total	144	112	38	68	84	28	88	31	23	3	23	92	2		60	42	18
referral		(77.8%)	(26.4%)	(47.2%)	(58.3%)	(19.4%)	(61.1%	(21.5%)	(16.0 %)	(2.1%)	(16.0%)	(63.9%)	(1.4%)	(48.	3%)	(50.0%)	(21.4%)

238 %) (17.8%)
6) (17.8%)
24 573
%) (14.9%)
.1%

Process- and outcome indicators are derived from the interdisciplinary CKD-guideline for primary care and nephrology. For each indicator, performance in the preceding 15 months is shown.

(Renal function: eGFR or serum creatinine; Albuminuria: albumin creatinine ratio or urine albumin). * the percentages show the achieved blood pressure targets divided by the number of blood pressure measurements. ** Percentage calculated with patients with eGFR < 60 ml/min/1.73m² as denominator (n = 20 in macroalbuminuria group).