

**Web appendix for “Association of estimated glomerular filtration rate and albuminuria with kidney outcomes: a collaborative meta-analysis of general population and high risk cohorts” Kidney Int (submitted)**

Web Figure 1: Pooled adjusted hazard ratios for acute kidney injury according to spline eGFR and albumin-to-creatinine ratio adjusted for each other and for age, sex and cardiovascular risk factors.

Web Figure 2: Pooled adjusted hazard ratios for progressive chronic kidney disease according to spline eGFR and albumin-to-creatinine ratio adjusted for each other and for age, sex and cardiovascular risk factors.

Web Figure 3: Pooled adjusted hazard ratios for end-stage renal disease according to eGFR and albuminuria for four groups (general population cohorts with albumin-to-creatinine ratio data, general population cohorts with dipstick data, high risk cohorts with albumin-to-creatinine ratio data and high risk cohorts with dipstick data)

Web Table 1: Acronyms / abbreviations for individual studies

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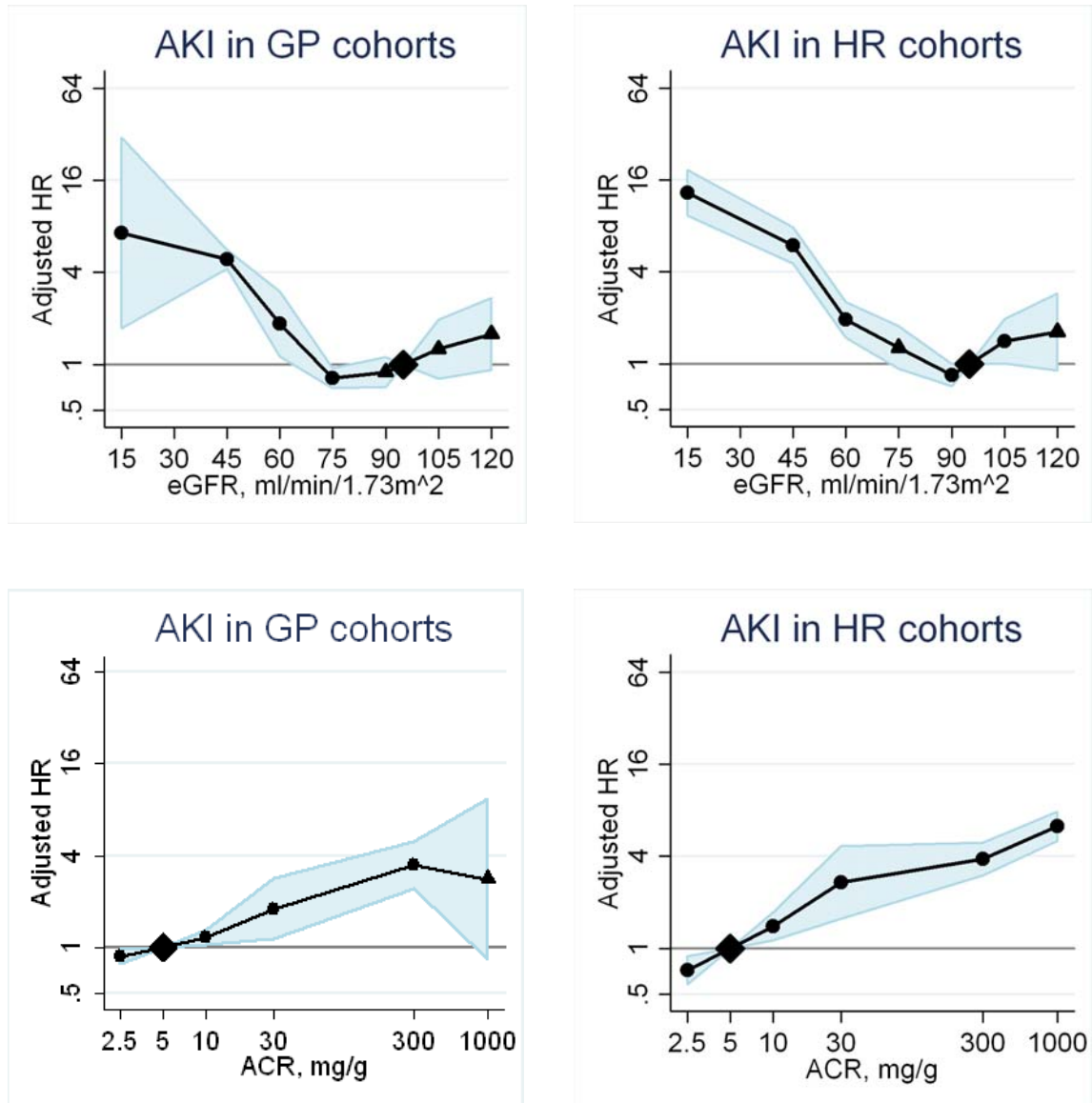
Web Table 9: Statistical significance for interaction between eGFR and age, and between eGFR and albuminuria for end-stage renal disease, acute kidney injury and progressive chronic kidney disease

Web Table 10: Hazard ratios for incident end-stage renal disease

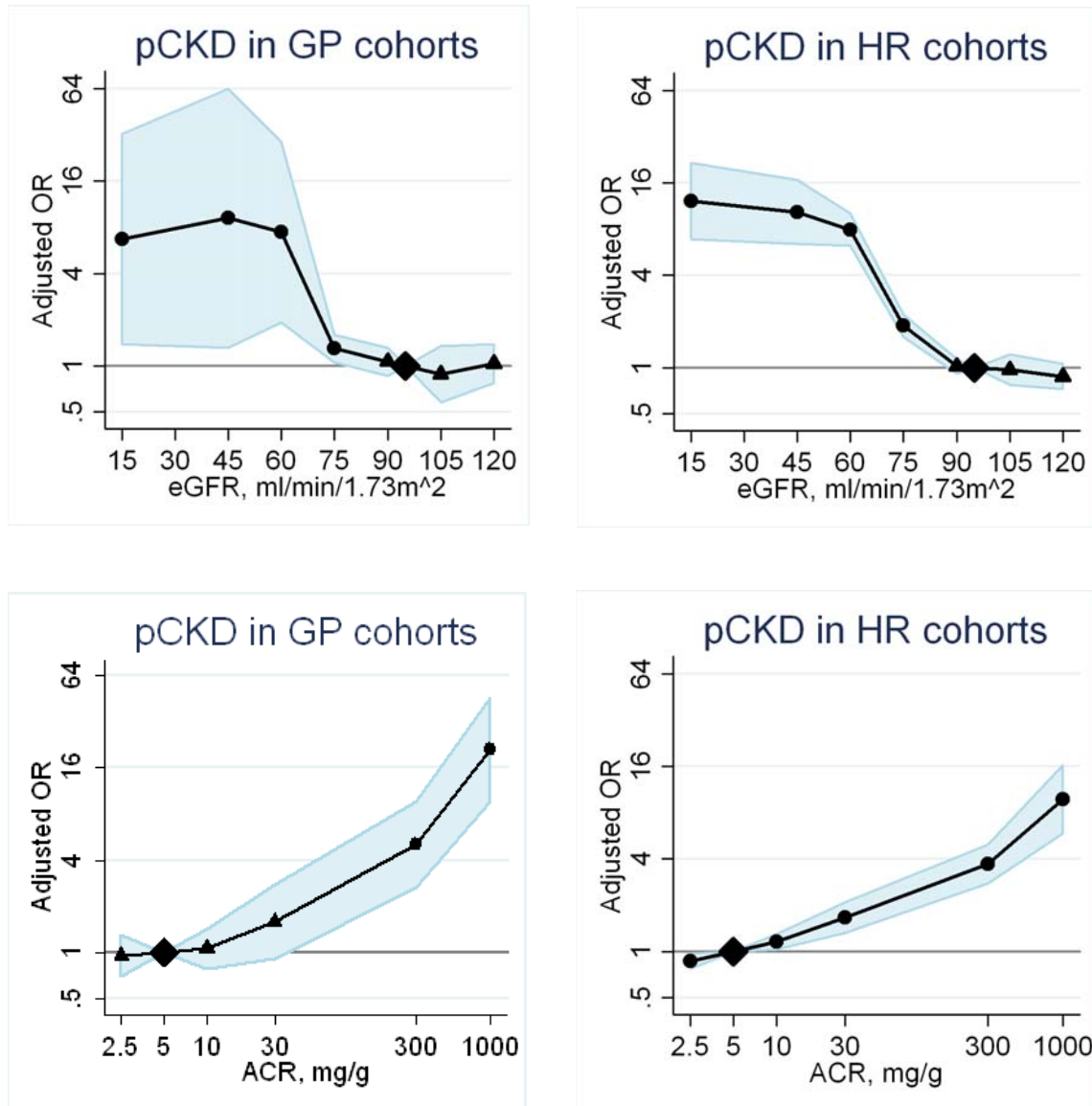
Web Table 11: Hazard ratios for incident acute kidney injury

Web Table 12: Odds Ratios for incident progressive chronic kidney disease

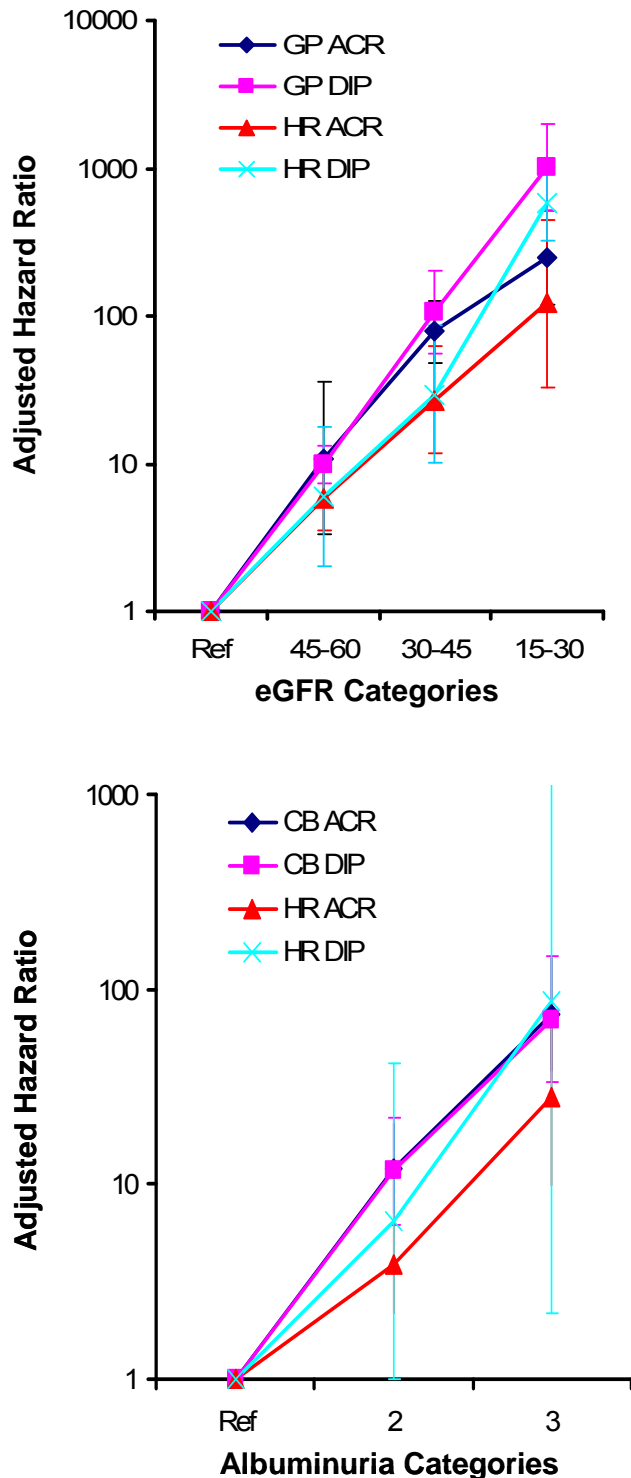
**Web appendix Figure 1:** Pooled adjusted hazard ratios (95% confidence intervals) for acute kidney injury according to spline eGFR and albumin-to-creatinine ratio adjusted for each other and for age, sex and cardiovascular risk factors. Reference category is eGFR 95 mL/min/1.73 m<sup>2</sup> plus albumin-to-creatinine ratio 5 mg/g or dipstick -/±. Left panels show results for general population cohorts, and right panels for high risk cohorts. Dots represent statistical significance and triangles represent non significance.



**Web appendix Figure 2:** Pooled adjusted hazard ratios (95% confidence intervals) for progressive chronic kidney disease (pCKD) according to spline eGFR and albumin-to-creatinine ratio adjusted for each other and for age, sex and cardiovascular risk factors. Reference category is eGFR 95 mL/min/1.73 m<sup>2</sup> plus albumin-to-creatinine ratio 5 mg/g or dipstick -/±. Left panels show results for General Population cohorts, and right panels for high risk cohorts. Dots represent statistical significance and triangles represent non significance.



**Web appendix Figure 3:** Pooled hazard ratios for end-stage renal disease according to eGFR and albuminuria, adjusted for each other and for age, sex and cardiovascular risk factors (categorical analyses). Four groups are shown (general population cohorts with albumin-to-creatinine ratio data (GP ACR), general population cohorts with dipstick data (GP DIP), high risk cohorts with albumin-to-creatinine ratio data (HR ACR) and high risk cohorts with dipstick data (HR DIP)). Upper panel shows results for eGFR (reference category is eGFR >60 ml/min/1.73m<sup>2</sup>), and lower panel for albuminuria (reference category is albumin-to-creatinine ratio <30 mg/g or dipstick -/±). Category 2 represents an albumin-to-creatinine ratio 30-299 mg/g or dipstick 1+, and category 3 represents albumin-to-creatinine ratio ≥300 mg/g or dipstick ≥2+).



**Web Appendix Table 1.** Acronyms or abbreviations for studies included in the current report and their key references.

**General population cohorts:**

AKDN UDIP:	Alberta Kidney Disease Network <sup>1</sup>
ARIC:	Atherosclerosis Risk in Communities Study <sup>2</sup>
AusDiab:	Australian Diabetes, Obesity, and Lifestyle Study <sup>3</sup>
Beaver Dam:	Beaver Dam CKD Study <sup>4</sup>
CHS:	Cardiovascular Health Study <sup>5</sup>
HUNT:	Nord Trøndelag Health Study <sup>6</sup>
MESA:	Multi-Ethnic Study of Atherosclerosis Study <sup>7</sup>
Okinawa 83:	Okinawa Study (1983) <sup>8</sup>
Okinawa 93	Okinawa Study (1993) <sup>9</sup>

**High Risk cohorts:**

ADVANCE:	The Action in Diabetes and Vascular Disease: Preterax and Diamicon Modified Release Controlled Evaluation (ADVANCE) trial <sup>10</sup>
AKDN ACR:	Alberta Kidney Disease Network <sup>1</sup>
CARE:	the Cholesterol and Recurrent Events (CARE) Trial <sup>11</sup>
ONTARGET:	Ongoing Telmisartan Alone and in combination with Ramipril Global Endpoint Trial (ONTARGET) study <sup>12</sup>
Pima:	PIMA Indian Study <sup>13</sup>
TRANSCEND:	Telmisartan Randomised Assessment Study in ACE Intolerant Subjects with Cardiovascular Disease Trial <sup>14</sup>
KP Hawaii:	Kaiser Permanente Hawaii Region <sup>15</sup>
MRFIT:	Multiple Risk Factor Intervention Trial <sup>16</sup>

**Key references:**

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**Web appendix Table 2:** Incidence rate for end-stage renal disease (expressed per 1000 patient years). Shaded areas make up the combined reference groups.

**Pooled analysis of general population cohorts with albumin-to-creatinine ratio or dipstick data**

	Overall					Subdivision according to age									
	Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
	1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
<b>eGFR</b>															
<i>mL/min/1.73m<sup>2</sup></i>															
>105			0.13	0.75				0.14	0.78				0.00	0.00	
90-104	0.04		0.05	0.57	0.06	0.03		0.06	0.39	0.05	0.09		0.00	2.38	0.11
75-89			0.11	2.35				0.11	2.75				0.12	0.00	
60-74			0.27	2.66				0.18	3.15				0.45	1.81	
45-59	0.12	0.77	1.44	5.13	0.34	0.02	1.11	1.87	8.42	0.34	0.21	0.57	1.19	2.52	0.33
30-44	1.03	1.55	9.15	27.07	4.02	2.71	5.06	18.6	40.3	10.3	0.70	0.79	7.19	20.6	2.59
15-29	9.05	19.5	37.7	128.4	43.0	25.6	87.9	86.3	195	113	6.40	6.19	24.5	85.9	23.2
<b>All</b>	<b>0.09</b>		<b>1.61</b>	<b>14.9</b>	<b>0.31</b>	<b>0.06</b>		<b>1.14</b>	<b>14.3</b>	<b>0.23</b>	<b>0.25</b>		<b>2.72</b>	<b>16.7</b>	<b>0.73</b>

**Pooled analysis of cohorts selected for high risk of chronic kidney disease with albumin-to-creatinine ratio or dipstick data**

	Overall					Subdivision according to age									
	Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
	1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
<b>eGFR</b>															
<i>mL/min/1.73m<sup>2</sup></i>															
>105			1.22	6.52				1.34	6.50				0.18	6.37	
90-104	0.22		0.39	5.00	0.45	0.22		0.44	5.29	0.48	0.20		0.27	3.07	0.37
75-89			0.30	4.56				0.26	5.02				0.36	3.30	
60-74			0.36	7.77				0.37	10.28				0.36	4.42	
45-59	0.25	0.36	1.65	13.38	1.44	0.19	0.31	1.65	19.45	2.13	0.31	0.38	1.66	7.24	1.03
30-44	1.56	2.42	4.33	29.80	7.35	1.62	3.09	7.13	49.69	15.90	1.59	2.27	3.40	17.34	4.40
15-29	1.57	12.78	20.93	133.0	60.98	0.00	28.21	26.77	187.9	106.8	1.84	9.15	18.74	97.91	37.38
<b>All</b>	<b>0.31</b>		<b>1.41</b>	<b>25.72</b>	<b>1.83</b>	<b>0.26</b>		<b>1.23</b>	<b>27.47</b>	<b>1.70</b>	<b>0.43</b>		<b>1.63</b>	<b>22.9</b>	<b>2.07</b>

Abbreviations are: ACR. albumin:creatinine ratio; eGFR. estimated glomerular filtration rate, albuminuria 1, ACR <10 mg/g or dipstick negative; albuminuria 2, ACR 10-29 mg/g or dipstick trace; albuminuria 3, ACR 30-299 mg/g or dipstick 1+; albuminuria 4, ACR ≥300 mg/g or dipstick ≥2.

**Web appendix Table 3:** Incidence rate for acute kidney injury (expressed per 1000 patient years). Shaded areas make up the combined reference groups.

**Pooled analysis of general population cohorts with albumin-to-creatinine ratio or dipstick data**

	Overall					Subdivision according to age									
	Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
	1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
<b>eGFR</b>															
<i>mL/min/1.73m<sup>2</sup></i>															
>105			3.55	7.57				3.40	6.67				5.90	25.51	
90-104	0.98		3.04	5.73	1.14	0.59		2.02	3.62	0.67	3.68		13.69	39.33	4.25
75-89			3.45	5.86				1.57	5.30				12.90	7.76	
60-74			6.46	13.77				3.38	6.00				13.29	31.36	
45-59	4.73	13.10	21.40	36.08	6.48	1.44	7.67	8.24	26.93	2.47	7.77	16.42	29.77	44.71	10.00
30-44	24.49	42.53	52.09	76.62	32.65	15.68	66.53	55.60	71.76	28.72	26.09	43.59	51.35	81.16	33.26
15-29	69.66	65.82	92.93	109.6	81.37	54.68	39.47	63.97	86.44	68.96	74.79	74.80	97.10	122.6	87.38
<b>All</b>	<b>1.69</b>		<b>10.15</b>	<b>26.26</b>	<b>2.21</b>	<b>0.70</b>		<b>3.83</b>	<b>14.67</b>	<b>0.91</b>	<b>6.93</b>		<b>27.04</b>	<b>53.87</b>	<b>8.77</b>

**Pooled analysis of cohorts selected for high risk of chronic kidney disease with albumin-to-creatinine ratio or dipstick data**

	Overall					Subdivision according to age									
	Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
	1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
<b>eGFR</b>															
<i>mL/min/1.73m<sup>2</sup></i>															
>105			2.99	5.54				2.89	4.04				4.07	26.74	
90-104	1.41		3.35	5.43	2.25	1.23		3.16	5.30	1.86	1.97		4.05	6.31	3.29
75-89			3.09	9.92				2.55	9.40				4.08	10.21	
60-74			6.06	13.73				4.09	13.28				8.10	13.64	
45-59	2.28	8.00	13.42	29.03	8.07	1.44	7.95	11.79	25.63	6.86	2.86	7.71	14.74	31.95	8.76
30-44	11.2	17.76	36.70	52.09	27.63	3.74	16.91	22.62	65.55	27.38	13.16	18.53	40.15	45.75	27.7
15-29	25.74	48.66	69.90	104.7	73.94	34.01	17.48	21.98	100.0	55.64	23.43	56.52	90.11	113.2	77.22
<b>All</b>	<b>2.33</b>		<b>9.08</b>	<b>26.59</b>	<b>4.88</b>	<b>1.51</b>		<b>4.70</b>	<b>21.08</b>	<b>2.84</b>	<b>3.80</b>		<b>14.53</b>	<b>33.83</b>	<b>8.15</b>

Abbreviations are: ACR. albumin:creatinine ratio; eGFR. estimated glomerular filtration rate, albuminuria 1, ACR <10 mg/g or dipstick negative; albuminuria 2, ACR 10-29 mg/g or dipstick trace; albuminuria 3, ACR 30-299 mg/g or dipstick 1+; albuminuria 4, ACR ≥300 mg/g or dipstick ≥2+.





**Web appendix Table 4:** Incidence rate for progressive chronic kidney disease (expressed per 1000 patient years). Shaded areas make up the combined reference groups.

**Pooled analysis of general population cohorts with albumin-to-creatinine ratio or dipstick data**

Overall						Subdivision according to age									
Albuminuria						<65 year Albuminuria					>65 year Albuminuria				
	1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
>105			1.56	12.6				1.76	12.59				0.00	NA	
90-104	2.02		2.72	7.02	2.48	0.83		1.12	7.41	1.12	6.97		13.11	4.76	8.03
75-89			5.25	25.21				2.40	22.58				14.45	33.37	
60-74			16.80	47.50				8.72	39.66				28.44	62.73	
<b>eGFR</b>															
<i>mL/min/1.73m<sup>2</sup></i>															
45-59	23.91	31.91	63.61	135.1	28.78	8.28	12.99	34.96	137.0	12.72	36.12	43.13	79.37	133.8	41.01
30-44	37.53	54.60	82.27	177.5	55.37	29.15	63.52	69.60	183.4	59.62	39.76	52.70	85.46	173.7	54.24
15-29	33.12	55.36	82.08	178.9	77.14	61.11	101.4	118.3	192.2	128.6	27.08	44.39	72.02	168.2	58.84
<b>All</b>	<b>5.62</b>		<b>25.93</b>	<b>89.59</b>	<b>7.55</b>	<b>1.62</b>		<b>10.13</b>	<b>70.54</b>	<b>2.71</b>	<b>17.36</b>		<b>49.74</b>	<b>115.9</b>	<b>21.27</b>

**Pooled analysis of cohorts selected for high risk of chronic kidney disease with albumin-to-creatinine ratio or dipstick data**

Overall						Subdivision according to age									
Albuminuria						<65 year Albuminuria					>65 year Albuminuria				
	1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
>105			4.43	27.52				4.54	29.71				3.87	10.93	
90-104	5.51		5.75	14.44	7.97	3.01		5.56	12.00	5.23	9.65		6.19	24.44	12.40
75-89			8.59	30.90				6.95	35.44				10.82	20.97	
60-74			19.01	68.77				12.16	67.31				24.82	70.97	
<b>eGFR</b>															
<i>mL/min/1.73m<sup>2</sup></i>															
45-59	23.75	37.88	57.67	147.1	43.84	14.99	25.58	41.38	155.5	36.33	29.00	43.19	66.14	136.5	48.04
30-44	33.55	35.35	64.99	160.3	65.65	12.61	35.61	54.37	180.8	73.04	39.33	35.13	69.17	148.0	63.32
15-29	12.44	43.16	58.43	209.3	103.3	0.00	98.66	75.59	226.8	147.9	14.11	28.22	52.64	202.0	85.94
<b>All</b>	<b>10.40</b>		<b>25.96</b>	<b>105.0</b>	<b>18.44</b>	<b>4.86</b>		<b>14.82</b>	<b>96.48</b>	<b>11.68</b>	<b>17.42</b>		<b>37.48</b>	<b>115.4</b>	<b>27.41</b>

Abbreviations are: ACR. albumin:creatinine ratio; eGFR. estimated glomerular filtration rate, albuminuria 1, ACR <10 mg/g or dipstick negative; albuminuria 2, ACR 10-29 mg/g or dipstick trace; albuminuria 3, ACR 30-299 mg/g or dipstick 1+; albuminuria 4, ACR ≥300 mg/g or dipstick ≥2+.

**Web appendix Table 5:** Distribution of subjects for analysis of incident end-stage renal disease (expressed as percentage of the total population under study). Shaded areas make up the combined reference groups. Absolute numbers of subjects per eGFR-albuminuria category can be calculated by multiplying proportions with the total number of subjects under investigation. For general population cohorts overall 811014, <65 year 667454 and >65 year 143560 subjects were included, whereas for high risk cohorts these numbers were 169222, 110880 and 58342, respectively.

**Pooled analysis of general population cohorts with albumin-to-creatinine ratio or dipstick data**

		Overall					Subdivision according to age									
		Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
		1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
eGFR mL/min/1.73m <sup>2</sup>	>105			0.30	0.11				0.33	0.12				0.14	0.04	
	90-104	86.3		0.50	0.17	89.6	91.7		0.54	0.18	94.8	61.3		0.30	0.10	65.1
	75-89			0.84	0.29				0.85	0.28				0.84	0.29	
	60-74			0.79	0.30				0.64	0.24				1.45	0.59	
	45-59	7.36	0.52	0.40	0.23	8.51	4.18	0.24	0.18	0.12	4.72	22.2	1.82	1.44	0.74	26.2
	30-44	1.13	0.13	0.16	0.15	1.58	0.22	0.03	0.04	0.06	0.34	5.38	0.64	0.75	0.56	7.32
	15-29	0.14	0.03	0.05	0.08	0.31	0.02	0.01	0.01	0.04	0.08	0.70	0.14	0.24	0.28	1.36
	<15	0.01	0.00	0.01	0.02	0.04	0.00	0.00	0.00	0.01	0.02	0.02	0.01	0.02	0.06	0.11
	<b>All</b>	<b>95.6</b>		<b>3.05</b>	<b>1.35</b>	<b>100</b>	<b>96.3</b>		<b>2.59</b>	<b>1.07</b>	<b>100</b>	<b>92.1</b>		<b>5.17</b>	<b>2.64</b>	<b>100</b>

**Pooled analysis of cohorts selected for high risk of chronic kidney disease with albumin-to-creatinine ratio or dipstick data**

		Overall					Subdivision according to age									
		Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
		1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
eGFR mL/min/1.73m <sup>2</sup>	>105			2.11	0.38				2.87	0.54				0.67	0.08	
	90-104	60.4		2.48	0.45	78.6	69.8		3.00	0.57	88.4	42.6		1.48	0.21	59.9
	75-89			4.53	0.80				4.75	0.94				4.12	0.53	
	60-74			6.25	1.15				4.90	1.01				8.82	1.41	
	45-59	6.02	4.96	3.44	1.05	15.47	4.13	2.42	1.83	0.79	9.17	9.60	9.80	6.51	1.54	27.5
	30-44	1.09	1.31	1.56	0.82	4.78	0.38	0.40	0.58	0.49	1.85	2.43	3.05	3.43	1.43	10.4
	15-29	0.09	0.15	0.39	0.45	1.08	0.02	0.04	0.15	0.29	0.50	0.23	0.35	0.83	0.76	2.18
	<15	0.00	0.00	0.01	0.10	0.12	0.00	0.00	0.01	0.09	0.10	0.00	0.00	0.02	0.14	0.16
	<b>All</b>	<b>74.0</b>		<b>20.77</b>	<b>5.20</b>	<b>100</b>	<b>77.2</b>		<b>18.1</b>	<b>4.73</b>	<b>100</b>	<b>68.0</b>		<b>25.9</b>	<b>6.10</b>	<b>100</b>

Abbreviations are: ACR. albumin:creatinine ratio; eGFR. estimated glomerular filtration rate, albuminuria 1, ACR <10 mg/g or dipstick negative; albuminuria 2, ACR 10-29 mg/g or dipstick trace; albuminuria 3, ACR 30-299 mg/g or dipstick 1+; albuminuria 4, ACR≥300 mg/g or dipstick ≥2+.

**Web appendix Table 6:** Distribution of incident end-stage renal disease events (expressed as percentage of the total population under study). Absolute number of events per eGFR-albuminuria category can be calculated by multiplying proportions with the total number of events under investigation. For general population cohorts overall 860, <65 year 486 and >65 year 374 events were observed, whereas for high risk cohorts these numbers were 1341, 951 and 390, respectively.

**Pooled analysis of general population cohorts with albumin-to-creatinine ratio or dipstick data**

		Overall					Subdivision according to age									
		Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
		1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
eGFR mL/min/1.73m <sup>2</sup>	>105			0.23	0.23				0.41	0.41				0.00	0.00	
	90-104	10.4		0.23	0.35	18.1	12.4		0.41	0.21	23.1	7.75		0.00	0.53	11.8
	75-89			0.35	1.98				0.41	3.50				0.27	0.00	
	60-74			1.05	3.37				0.82	4.53				1.34	1.87	
	45-59	3.37	1.63	3.14	4.77	12.9	1.03	1.44	3.09	5.56	11.1	6.42	1.87	3.21	3.74	15.2
	30-44	3.84	0.58	5.35	12.7	22.4	2.88	0.41	3.09	10.7	17.1	5.08	0.80	8.29	15.2	29.4
	15-29	2.91	1.16	5.12	20.6	29.8	2.06	1.44	4.12	23.1	30.7	4.01	0.80	6.42	17.4	28.6
	<15	2.09	0.81	2.21	11.6	16.7	2.06	1.03	2.26	12.8	18.1	2.14	0.53	2.14	10.2	15.0
	<b>All</b>	<b>26.7</b>		<b>17.7</b>	<b>55.6</b>	<b>100</b>	<b>24.7</b>		<b>14.6</b>	<b>60.7</b>	<b>100</b>	<b>29.4</b>		<b>21.7</b>	<b>48.9</b>	<b>100</b>

**Pooled analysis of cohorts selected for high risk of chronic kidney disease with albumin-to-creatinine ratio or dipstick data**

		Overall					Subdivision according to age									
		Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
		1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
eGFR mL/min/1.73m <sup>2</sup>	>105			3.80	3.13				5.26	4.21				0.26	0.51	
	90-104	22.7		1.34	2.24	43.8	29.8		1.68	2.94	55.2	5.64		0.51	0.51	15.9
	75-89			1.34	2.68				1.47	3.36				1.03	1.03	
	60-74			1.64	4.85				1.37	5.15				2.31	4.10	
	45-59	1.64	1.19	2.83	6.04	11.7	1.58	0.74	1.47	6.31	10.1	1.79	2.31	6.15	5.38	15.6
	30-44	0.82	1.64	2.91	8.95	14.3	0.21	0.63	1.68	7.89	10.4	2.31	4.10	5.90	11.5	23.9
	15-29	0.07	0.67	2.76	16.5	20.0	0.00	0.42	1.37	13.3	15.0	0.26	1.28	6.15	24.4	32.1
	<15	0.00	0.15	0.60	9.47	10.2	0.00	0.11	0.74	8.41	9.25	0.00	0.26	0.26	12.1	12.6
	<b>All</b>	<b>28.9</b>		<b>17.2</b>	<b>53.8</b>	<b>100</b>	<b>33.4</b>		<b>15.0</b>	<b>51.5</b>	<b>100</b>	<b>18.0</b>		<b>22.6</b>	<b>59.4</b>	<b>100</b>

Abbreviations are: ACR, albumin:creatinine ratio; eGFR, estimated glomerular filtration rate, albuminuria 1, ACR <10 mg/g or dipstick negative; albuminuria 2, ACR 10-29 mg/g or dipstick trace; albuminuria 3, ACR 30-299 mg/g or dipstick 1+; albuminuria 4, ACR ≥300 mg/g or dipstick ≥2

**Web appendix Table 7:** Distribution of incident acute kidney injury events (expressed as percentage of the total population under study). Shaded areas make up the combined reference groups. Absolute number of events per eGFR-albuminuria category can be calculated by multiplying proportions with the total number of events under investigation. For general population cohorts overall 3865, <65 year 1309 and >65 year 2556 events were observed, whereas for high risk cohorts these numbers were 1074, 401 and 673, respectively

**Pooled analysis of general population cohorts with albumin-to-creatinine ratio or dipstick data**

		Overall					Subdivision according to age									
		Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
		1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
eGFR mL/min/1,73m <sup>2</sup>	>105			0.52	0.41				1.38	1.07				0.08	0.08	
	90-104	38.5		0.72	0.49	46.7	59.5		1.30	0.92	71.5	27.7		0.43	0.27	67.0
	75-89			1.35	0.72				1.53	1.68				1.25	0.23	
	60-74			2.20	1.79				2.52	1.60				2.03	1.88	
	45-59	14.4	2.25	3.39	2.95	23.0	6.19	1.45	1.45	2.90	12.0	18.6	2.66	4.38	2.97	28.6
	30-44	11.2	1.76	2.98	4.19	20.1	3.59	0.69	1.76	3.90	9.93	15.1	2.31	3.60	4.34	25.4
	15-29	3.83	0.65	1.63	3.00	9.11	1.22	0.23	0.69	3.28	5.42	5.16	0.86	2.11	2.86	11.0
	<b>All</b>	<b>72.8</b>		<b>13.0</b>	<b>14.2</b>	<b>100</b>	<b>73.2</b>		<b>10.8</b>	<b>16.0</b>	<b>100</b>	<b>72.6</b>		<b>14.1</b>	<b>13.3</b>	<b>100</b>

**Pooled analysis of cohorts selected for high risk of chronic kidney disease with albumin-to-creatinine ratio or dipstick data**

		Overall					Subdivision according to age									
		Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
		1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
eGFR mL/min/1,73m <sup>2</sup>	>105			0.93	0.28				2.00	0.50				0.30	0.15	
	90-104	18.4		1.86	0.47	37.2	29.7		3.74	1.00	56.1	11.7		0.74	0.15	26.0
	75-89			3.45	1.58				4.99	2.99				2.53	0.74	
	60-74			7.26	2.98				6.73	4.49				7.58	2.08	
	45-59	3.26	5.87	10.2	5.87	25.2	2.24	4.74	7.48	6.48	21.0	3.86	6.54	11.9	5.50	27.8
	30-44	2.89	3.82	10.8	7.73	25.2	0.50	2.00	3.99	9.48	16.0	4.31	4.90	14.9	6.69	30.8
	15-29	0.56	1.30	4.47	5.40	11.7	0.25	0.25	1.00	5.24	6.73	0.74	1.93	6.54	5.50	14.7
	<b>All</b>	<b>36.1</b>		<b>39.2</b>	<b>24.7</b>	<b>100</b>	<b>39.7</b>		<b>30.2</b>	<b>30.2</b>	<b>100</b>	<b>34.0</b>		<b>44.6</b>	<b>21.4</b>	<b>100</b>

Abbreviations are: ACR, albumin:creatinine ratio; eGFR, estimated glomerular filtration rate, albuminuria 1, ACR <10 mg/g or dipstick negative; albuminuria 2, ACR 10-29 mg/g or dipstick trace; albuminuria 3, ACR 30-299 mg/g or dipstick 1+; albuminuria 4, ACR ≥300 mg/g or dipstick ≥2+.

**Web appendix Table 8:** Distribution of incident progressive chronic kidney disease events (expressed as percentage of the total population under study). Shaded areas make up the combined reference groups. Absolute number of events per eGFR-albuminuria category can be calculated by multiplying proportions with the total number of events under investigation. For general population cohorts overall 4797, <65 year 1298 and >65 year 3499 events were observed, whereas for high risk cohorts these numbers were 6347, 2241 and 4106, respectively.

**Pooled analysis of general population cohorts with albumin-to-creatinine ratio or dipstick data**

Overall						Subdivision according to age										
Albuminuria						<65 year Albuminuria					>65 year Albuminuria					
	1	2	3	4	All	1	2	3	4	All	1	2	3	4	All	
eGFR mL/min/1,73m <sup>2</sup>	>105		0.04	0.17				0.15	0.54				0.00	0.03		
	90-104	23.3		0.15	0.15	29.4			0.23	0.46	21.1		0.11	0.03	25.5	
	75-89			0.58	0.94				0.77	2.39			0.51	0.40		
	60-74			1.96	2.15				2.23	4.01			1.86	1.46		
	45-59	32.4	2.40	4.13	5.11	44.1	18.1	1.31	2.77	8.63	30.8	37.7	2.80	4.63	3.80	49.0
	30-44	10.1	1.19	2.36	5.63	19.2	5.86	1.08	1.46	8.40	16.8	11.6	1.23	2.69	4.60	20.1
	15-29	1.40	0.31	0.96	3.36	6.02	1.69	0.39	1.23	6.16	9.48	1.29	0.29	0.86	2.31	4.74
	<15	0.27	0.08	0.17	0.75	1.27	0.62	0.15	0.39	1.62	2.77	0.14	0.06	0.09	0.43	0.71
	<b>All</b>	<b>71.4</b>		<b>10.3</b>	<b>18.2</b>	<b>100</b>	<b>58.6</b>		<b>9.24</b>	<b>32.2</b>	<b>100</b>	<b>76.2</b>		<b>10.8</b>	<b>13.1</b>	<b>100</b>

**Pooled analysis of cohorts selected for high risk of chronic kidney disease with albumin-to-creatinine ratio or dipstick data**

Overall						Subdivision according to age										
Albuminuria						<65 year Albuminuria					>65 year Albuminuria					
	1	2	3	4	All	1	2	3	4	All	1	2	3	4	All	
eGFR mL/min/1,73m <sup>2</sup>	>105			0.93	0.77				2.37	2.10				0.15	0.05	
	90-104	19.6		0.93	0.46	35.9	20.8		1.92	0.98	44.9	18.9		0.39	0.17	31.0
	75-89			2.30	1.21				3.12	2.77				1.85	0.37	
	60-74			5.86	3.86				5.04	5.85				6.31	2.78	
	45-59	10.4	8.07	12.2	8.51	39.2	6.92	4.46	8.39	12.1	31.9	12.3	10.0	14.3	6.55	43.2
	30-44	2.63	2.22	5.88	7.18	17.9	0.62	1.29	3.53	8.79	12.2	3.73	2.73	7.16	6.31	19.9
	15-29	0.08	0.33	1.24	4.18	5.83	0.00	0.49	1.20	5.22	6.92	0.12	0.24	1.27	3.60	5.24
	<15	0.00	0.02	0.08	1.09	1.18	0.00	0.04	0.18	1.87	2.10	0.00	0.00	0.02	0.66	0.68
	<b>All</b>	<b>43.3</b>		<b>29.5</b>	<b>27.3</b>	<b>100</b>	<b>34.6</b>		<b>25.8</b>	<b>39.7</b>	<b>100</b>	<b>48.0</b>		<b>31.5</b>	<b>20.5</b>	<b>100</b>

Abbreviations are: ACR, albumin:creatinine ratio; eGFR, estimated glomerular filtration rate, albuminuria 1, ACR <10 mg/g or dipstick negative; albuminuria 2, ACR 10-29 mg/g or dipstick trace; albuminuria 3, ACR 30-299 mg/g or dipstick 1+; albuminuria 4, ACR ≥300 mg/g or dipstick ≥2

**Web appendix Table 9.** Statistical significance for interaction between eGFR and age, and between eGFR and albuminuria in the models adjusted for covariates for end-stage renal disease, acute kidney injury and progressive chronic kidney disease. In case the interaction term eGFR\*age reached statistical significance ( $p < 0.05$ ) this indicates that in this cohort the predictive value of eGFR for the outcome under study was less at older age. For the interaction term eGFR\*albuminuria statistical significance indicates that the predictive value of higher albuminuria was less at low eGFR.

Study	Interaction	
	eGFR * age (p-value)	eGFR * albuminuria (p-value)
<b>ESRD</b>		
General population cohorts with albumin-to-creatinine ratio data		
- ARIC	0.054	0.051
- HUNT	0.262	0.481
General population cohorts with dipstick data		
- AKDN dip*	NA	NA
- OKINAWA 83	<0.001	0.146
- OKINAWA 93	0.052	0.001
High risk cohorts with albumin-to-creatinine ratio data		
- ADVANCE	0.159	0.117
- AKDN ACR*	0.474	0.470
- ONTARGET	0.910	NA
- Pima	NA	NA
High risk cohorts with dipstick data		
- Hawaii	0.997	0.999
- MRFIT	0.577	0.646
<b>Acute kidney injury</b>		
General population cohorts with albumin-to-creatinine ratio data		
- ARIC	0.034	0.030
- CHS	0.086	0.294
General population cohorts with dipstick data		
- AKDN dip*	<0.001	<0.001
High risk cohorts with albumin-to-creatinine ratio data		
- AKDN ACR*	0.032	<.0001
- ONTARGET	0.985	0.183
<b>Progressive chronic kidney disease</b>		
General population cohorts with albumin-to-creatinine ratio data		
- AusDiab	0.236	0.160
- MESA	0.959	0.023
General population cohorts with dipstick data		
- AKDN dip*	<0.001	<0.001
- Beaver Dam	0.218	0.9101
High risk cohorts with albumin-to-creatinine ratio data		
- ADVANCE	0.261	0.163
- AKDN ACR*	<0.001	0.600
- ONTARGET	0.085	0.002
- Pima	0.013	0.510
- TRANSCEND	0.705	0.253
High risk cohorts with dipstick data		
- CARE	0.846	0.075
- HAWAII	<0.001	<.0001

Abbreviations: eGFR, estimated glomerular filtration rate; ESRD, end-stage renal disease; for acronyms of included cohorts see web appendix Table 12; \*AKDN delivered two datasets, one on subjects in whom albuminuria was measured as albumin-to-creatinine ratio and one in whom albuminuria was measured by dipstick.

**Web appendix Table 10:** Hazard ratio for end-stage renal disease, after adjustment for age, sex and cardiovascular risk factors (Bold: hazard ratio is statistically significant. Italic: hazard ratio shows significant heterogeneity). Shaded areas make up the combined reference groups.

**Pooled analysis of general population cohorts with albumin-to-creatinine ratio or dipstick data**

		Overall					Subdivision according to age									
		Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
		1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
eGFR mL/min/1.73m <sup>2</sup>	>105			<b>7.82</b>	<b>18.1</b>				<b>12.4</b>	<b>28.6</b>				0.0	0.0	
	90-104	Ref		<b>11.3</b>	<b>19.7</b>	Ref	Ref		<b>14.2</b>	<b>13.8</b>	Ref	Ref		0.0	0.0	Ref
	75-89			<b>3.83</b>	<b>48.1</b>				<b>5.81</b>	<b>65.2</b>				0.0	0.0	
	60-74			<b>7.42</b>	<b>67.2</b>				<b>5.58</b>	<b>87.3</b>				<b>6.61</b>	<b>18.8</b>	
	45-59	<b>5.16</b>	<b>21.8</b>	<b>40.3</b>	<b>147</b>	<b>9.67</b>	<b>3.06</b>	<b>31.8</b>	<b>55.4</b>	<b>261</b>	<b>9.45</b>	<b>3.44</b>	<b>9.61</b>	<b>16.4</b>	<b>41.4</b>	<b>4.48</b>
	30-44	<b>55.6</b>	<b>74.1</b>	<b>294</b>	<b>763</b>	<b>98.1</b>	<b>101</b>	<b>293</b>	<b>272</b>	<b>828</b>	<b>110</b>	<b>11.5</b>	<b>18.1</b>	<b>90.8</b>	<b>268</b>	<b>42.1</b>
	15-29	<b>433</b>	<b>1044</b>	<b>1056</b>	<b>2287</b>	<b>573</b>	<b>999</b>	<b>3897</b>	<b>2398</b>	<b>5081</b>	<b>1281</b>	<b>131</b>	<b>115</b>	<b>413</b>	<b>1071</b>	<b>186</b>
	All	Ref		<b>12.0</b>	<b>72.1</b>		Ref		<b>13.7</b>	<b>124</b>		Ref		<b>10.3</b>	<b>47.5</b>	

**Pooled analysis of cohorts selected for high risk of chronic kidney disease with albumin-to-creatinine ratio or dipstick data**

		Overall					Subdivision according to age									
		Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
		1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
eGFR mL/min/1.73m <sup>2</sup>	>105			1.1	2.0				1.1	1.4				0.0	<b>20.6</b>	
	90-104	Ref		<b>2.4</b>	<b>10.0</b>	Ref	Ref		2.6	<b>10.5</b>	Ref	Ref		0.0	<b>15.5</b>	
	75-89			1.7	<b>17.3</b>				1.7	<b>16.3</b>				1.9	<b>16.2</b>	Ref
	60-74			<b>3.1</b>	<b>32.2</b>				<b>4.0</b>	<b>39.0</b>				1.7	<b>20.7</b>	
	45-59	<b>2.7</b>	<b>3.8</b>	<b>14.5</b>	<b>55.5</b>	<b>5.7</b>	<b>2.5</b>	<b>5.3</b>	<b>16.9</b>	<b>66.9</b>	<b>7.0</b>	<b>2.8</b>	1.8	<b>10.0</b>	<b>31.2</b>	<b>3.8</b>
	30-44	<b>23.4</b>	<b>33.4</b>	<b>56.0</b>	<b>140</b>	<b>27.4</b>	<b>15.9</b>	<b>73.6</b>	<b>90.9</b>	<b>161</b>	<b>33.9</b>	<b>16.2</b>	<b>18.1</b>	<b>24.3</b>	<b>92.7</b>	<b>20.7</b>
	15-29	<b>32.6</b>	<b>308</b>	<b>387</b>	<b>463</b>	<b>165</b>	<b>0.0</b>	<b>656</b>	<b>792</b>	<b>998</b>	<b>223</b>	<b>25.0</b>	<b>175</b>	<b>125</b>	<b>506</b>	<b>146</b>
	All	Ref		<b>4.3</b>	<b>38.1</b>		Ref		<b>4.5</b>	<b>43.8</b>		Ref		<b>4.1</b>	<b>43.3</b>	

Abbreviations are: ACR. albumin:creatinine ratio; eGFR. estimated glomerular filtration rate, albuminuria 1, ACR <10 mg/g or dipstick negative; albuminuria 2, ACR 10-29 mg/g or dipstick trace; albuminuria 3, ACR 30-299 mg/g or dipstick 1+; albuminuria 4, ACR ≥300 mg/g or dipstick ≥2+.



**Web appendix Table 11:** Hazard ratio for incident acute kidney injury, after adjustment for age, sex and cardiovascular risk factors (Bold: hazard ratio is statistically significant. *Italic:* hazard ratio shows significant heterogeneity). Shaded areas make up the combined reference groups.

**Pooled analysis of general population cohorts with albumin-to-creatinine ratio or dipstick data**

		Overall					Subdivision according to age									
		Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
		1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
<b>eGFR</b> <i>mL/min/1.73m<sup>2</sup></i>	>105			2.7	8.4				3.7	9.5				2.4	6.3	
	90-104	Ref		2.4	5.8	Ref	Ref		3.0	6.6	Ref	Ref		2.5	5.5	Ref
	75-89			2.5	4.1				2.2	6.2				2.7	1.6	
	60-74			3.3	6.4				3.8	6.0				2.7	5.9	
	45-59	2.2	4.9	6.4	5.9	2.6	1.8	8.0	6.7	18.4	2.5	2.0	4.4	5.9	8.1	2.6
	30-44	7.3	10.2	12.5	19.6	7.9	8.4	26.2	16.3	32.0	9.9	6.2	8.7	9.6	13.7	7.4
	15-29	16.8	16.8	21.5	28.8	16.7	40.0	30.7	60.9	28.5	17.8	13.5	13.6	16.8	20.9	13.0
	All	Ref		2.5	6.0		Ref		3.3	10.9		Ref		2.4	4.7	

**Pooled analysis of cohorts selected for high risk of chronic kidney disease with albumin-to-creatinine ratio or dipstick data**

		Overall					Subdivision according to age									
		Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
		1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
<b>eGFR</b> <i>mL/min/1.73m<sup>2</sup></i>	>105			2.2	3.4				2.1	2.9				2.6	11.6	
	90-104	Ref		2.1	3.4	Ref	Ref		2.3	0.0	Ref	Ref		1.7	2.7	Ref
	75-89			1.8	5.2				1.8	6.1				1.7	3.6	Ref
	60-74			2.8	6.3				2.9	8.8				2.8	4.0	
	45-59	1.7	3.5	6.6	13.0	3.0	1.4	5.2	8.2	15.9	3.9	1.6	2.5	5.1	10.0	2.3
	30-44	8.0	7.5	14.3	26.9	10.6	4.6	11.5	15.6	60.3	14.2	7.0	5.6	11.5	12.2	7.7
	15-29	12.2	1.6	25.3	13.7	16.8	20.0	10.6	15.0	39.8	23.4	9.1	14.2	21.4	1.3	12.6
	All	Ref		2.7	7.4		Ref		2.7	13.5		Ref		2.7	5.1	

Abbreviations are: ACR. albumin:creatinine ratio; eGFR. estimated glomerular filtration rate, albuminuria 1, ACR <10 mg/g or dipstick negative; albuminuria 2, ACR 10-29 mg/g or dipstick trace; albuminuria 3, ACR 30-299 mg/g or dipstick 1+; albuminuria 4, ACR ≥300 mg/g or dipstick ≥2+.

**Web appendix Table 12:** Odds ratio for progressive chronic kidney disease, after adjustment for age, sex and the cardiovascular risk factors (Bold: hazard ratio is statistically significant. *Italic:* hazard ratio shows significant heterogeneity). Shaded areas make up the combined reference groups.

**Pooled analysis of general population cohorts with albumin-to-creatinine ratio or dipstick data**

		Overall					Subdivision according to age									
		Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
		1	2	3	4	All	1	2	3	4	All	1	2	3	4	All
<b>eGFR</b> <i>mL/min/1,73m<sup>2</sup></i>	>105			<b>0.7</b>	<i>3.0</i>				<b>0.9</b>	<i>1.7</i>				<b>0.5</b>	<i>2.3</i>	
	90-104	Ref		0.9	3.3	Ref	Ref		1.3	13.1	Ref	Ref		1.4	1.2	Ref
	75-89			1.9	5.0				2.0	7.7				1.6	3.0	
	60-74			<b>3.2</b>	<b>8.1</b>				4.0	<b>14.2</b>				<b>2.5</b>	<b>11.0</b>	
	45-59	<b>3.1</b>	<b>4.1</b>	<b>9.4</b>	<b>56.6</b>	<b>3.9</b>	2.5	4.0	<b>6.2</b>	<i>68.1</i>	<b>4.7</b>	<b>3.4</b>	<b>4.2</b>	<b>9.0</b>	<b>32.2</b>	<b>3.7</b>
	30-44	<b>3.0</b>	<b>19.1</b>	<b>14.9</b>	<b>22.2</b>	<b>3.7</b>	20.7	<b>34.9</b>	<b>37.7</b>	<b>113</b>	<b>13.9</b>	<b>3.1</b>	<b>9.4</b>	<b>13.9</b>	2.4	<b>3.0</b>
	15-29	<b>4.0</b>	<b>11.7</b>	<b>21.0</b>	<b>7.7</b>	<b>7.9</b>	<b>23.9</b>	<b>193.9</b>	<b>908.0</b>	<b>32.8</b>	<b>37.6</b>	<b>1.7</b>	<b>3.5</b>	<b>11.7</b>	4.6	<b>5.6</b>
	All	Ref		<b>3.1</b>	<b>11.2</b>		Ref		<b>5.2</b>	<b>21.3</b>		Ref		<b>2.8</b>	<b>7.7</b>	

**Pooled analysis of cohorts selected for high risk of chronic kidney disease with albumin-to-creatinine ratio or dipstick data**

		Overall					Subdivision according to age									
		Albuminuria					<65 year Albuminuria					>65 year Albuminuria				
		1	2	3	4		1	2	3	4		1	2	3	4	
<b>eGFR</b> <i>mL/min/1,73m<sup>2</sup></i>	>105			<b>0.6</b>	<i>4.7</i>				1.1	<i>7.2</i>				<b>0.5</b>	<b>0.4</b>	
	90-104	Ref		0.9	3.5	Ref	Ref		1.6	<b>4.5</b>	Ref	Ref		<b>0.6</b>	1.3	
	75-89			1.0	<b>3.6</b>				<b>2.0</b>	<b>9.3</b>				1.1	<b>1.6</b>	Ref
	60-74			<b>2.8</b>	<b>9.3</b>				<b>3.5</b>	<b>22.5</b>				<b>2.4</b>	<b>6.8</b>	
	45-59	<b>3.0</b>	<b>4.8</b>	<b>10.1</b>	<b>31.4</b>	<b>4.7</b>	<b>4.8</b>	<b>7.2</b>	<b>13.0</b>	<b>43.7</b>	<b>6.3</b>	<b>2.8</b>	<b>4.3</b>	<b>7.1</b>	<b>15.4</b>	<b>4.0</b>
	30-44	<b>3.3</b>	<b>3.4</b>	<b>9.8</b>	<b>68.7</b>	<b>6.4</b>	<b>4.7</b>	<b>10.9</b>	<b>14.2</b>	<b>67.1</b>	<b>10.3</b>	<b>3.4</b>	<b>3.2</b>	<b>6.7</b>	<b>15.6</b>	<b>4.8</b>
	15-29	<b>0.5</b>	<b>3.1</b>	<b>9.4</b>	<b>38.6</b>	<b>8.9</b>	#	<b>41.7</b>	<b>35.4</b>	<b>185</b>	<b>36.4</b>	1.0	2.9	4.1	10.8	6.2
	All	Ref		<b>2.2</b>	<b>9.9</b>		Ref		<b>2.5</b>	<b>13.7</b>		Ref		<b>2.1</b>	<b>7.1</b>	

Abbreviations are: ACR. albumin:creatinine ratio; eGFR. estimated glomerular filtration rate, albuminuria 1, ACR <10 mg/g or dipstick negative; albuminuria 2, ACR 10-29 mg/g or dipstick trace; albuminuria 3, ACR 30-299 mg/g or dipstick 1+; albuminuria 4, ACR ≥300 mg/g or dipstick ≥2+.

