

**Supplementary Table1.Comparison of baseline characteristics  
between included and excluded patients**

	<b>Exclusion group (n=2469)</b>	<b>Data missing rate</b>	<b>Inclusion group (n=1012)</b>	<b>P</b>
Male (%)	1067 (43.27)	3 (0.12)	415 (41.01)	0.221
Age (years)	45.22 ± 13.18	2 (0.08)	43.89 ± 11.85	< 0.05
SBP	128.13 ± 22.88	1141 (46.21)	125.33±21.01	0.374
DBP	80.09 ± 14.13	1141 (46.21)	78.90 ± 13.20	0.84
Hypertension (%)	303 (12.27)	0	136 (13.44)	0.346
Diabetes (%)	16 (0.65)	0	0 (0)	0.092
Alcohol consumption (%)	108 (5.86)	0	55 (5.4)	0.618
Smoking (%)	229(12.49)	0	112 (11.1)	< 0.05
Hb	125.51 ± 19.19	4(0.16)	127.57 ± 18.92	< 0.05
ALB	37.38 ± 5.30	9(0.36)	37.87 ± 4.41	< 0.05
24h-UP	1.69 ± 2.37	39(1.58)	1.36 ± 1.59	< 0.05
SUA	371.79 ± 104.35	3(0.12)	367.95 ± 101.93	0.32
SCr	103.74 ± 97.38	2 (0.08)	94.86 ± 61.83	< 0.05
Urea	6.46 ± 3.62	2 (0.08)	6.12 ± 3.03	< 0.05
M(1,%)	2049 (99.51)	410(16.61)	1011 (99.90)	0.172
E(1%)	634 (30.79)	410(16.61)	398 (39.33)	< 0.05
S(1,%)	1680 (81.59)	410(16.61)	824 (81.42)	0.909
T(1/2,%)	631 (30.66)	411(16.65)	269 (26.58)	< 0.05
C(1/2,%)	1301 (63.18)	410(16.61)	674 (66.60)	0.101
Podocyte fusion > 50%	276 (13.90)	329(13.32)	130 (12.8)	0.426
IgA(3+/4+,%)	1680 (71.43)	117(5.44)	826 (81.62)	< 0.05
IgG(+,%)	663 (26.89)	3(0.12)	343 (33.89)	< 0.05
IgM(2+/3+,%)	370 (15.00)	3(0.12)	194 (19.17)	< 0.05
C3(3+/4+,%)	682 (27.67)	4(0.16)	351 (34.68)	< 0.05
C4(+,%)	151(6.30)	73(2.96)	47(4.6)	0.059
ARB	1670 (67.64)	0	790 (78.06)	< 0.05
ACEI	372 (15.07)	0	167 (16.50)	0.288
SGLT2	295 (11.95)	0	107 (10.57)	0.249
GC	531 (21.51)	0	275 (27.17)	< 0.05

**Supplementary Table 2. Clinicopathological manifestations and laboratory data of the excluded IgAN patients at baseline**

	young IgAN group		elderly IgAN group	P
	Total (n = 2467)	(n = 2079)	(n = 388)	
Age (years)	45.22 ± 13.18	41.23 ± 9.95	66.65 ± 5.43	< 0.05
Male (%)	1067 (43.27)	858 (41.29)	209 (53.87)	< 0.05
SBP	128.13 ± 22.88	126.32 ± 22.30	137.47 ± 23.59	< 0.05
DBP	80.09 ± 14.13	79.88 ± 14.41	81.20 ± 12.57	0.206
Hb	125.50 ± 19.20	126.05 ± 19.07	122.59 ± 19.62	< 0.05
ALB	37.38 ± 5.30	37.77 ± 5.10	35.33 ± 5.83	< 0.05
SUA	371.78 ± 104.36	367.90 ± 106.01	392.57 ± 92.47	< 0.05
SCr	103.73 ± 97.42	99.39 ± 97.36	126.91 ± 94.52	< 0.05
Urea	6.46 ± 3.62	6.13 ± 3.41	8.21 ± 4.17	< 0.05
24h-UP	1.69 ± 2.37	1.57 ± 2.21	2.35 ± 3.03	< 0.05
Hypertension (%)	303 (12.28)	238 (11.45)	65 (16.75)	< 0.05
Diabetes (%)	16 (0.65)	8 (0.38)	8 (2.06)	< 0.05
Alcohol consumption (%)	83 (3.36)	50 (2.41)	33 (8.51)	< 0.05
Smoking (%)	184 (7.46)	135 (6.49)	49 (12.63)	< 0.05
Podocyte fusion > 50%	276 (13.90)	204 (12.15)	72 (23.53)	< 0.05
IgA(3+/4+,%)	1679 (71.45)	1473 (74.13)	206 (56.75)	< 0.05
IgG(+,%)	663 (26.91)	555 (26.73)	108 (27.84)	0.654
IgM(2+/3+,%)	370 (15.02)	306 (14.74)	64 (16.49)	0.374
C3(3+/4+,%)	682 (27.69)	608 (29.29)	74 (19.12)	< 0.05
M(1,%)	2048 (99.51)	1756 (99.43)	292 (100.00)	0.404
E(1%)	634 (30.81)	559 (31.65)	75 (25.68)	< 0.05
S(1,%)	1680 (81.63)	1470 (83.24)	210 (71.92)	< 0.05
T(1/2,%)	631 (30.68)	494 (27.99)	137 (46.92)	< 0.05
C(1/2,%)	688 (63.24)	592 (63.59)	96 (61.15)	0.557
ARB	1669 (67.65)	1417 (68.16)	252 (64.95)	0.215
ACEI	372 (15.08)	324 (15.58)	48 (12.37)	0.104
SGLT2	295 (11.96)	249 (11.98)	46 (11.86)	0.946
GC	531 (21.52)	458 (22.03)	73 (18.81)	0.157