

Supplemental Digital Content (SDC)

Table S1. Sensitivity analysis: association between income (5 years before dialysis/average over the 5 years prior to dialysis) and access to the waiting list/access to kidney transplantation conditional on transplant listing, by Cox proportional hazard regression

Variables included in the model	Access to the kidney waiting list		Access to kidney transplantation conditional on waitlisting	
	Income 5 years before dialysis (n=13,759)	Average income over the 5 years before dialysis (n=13,751)	Income 5 years before dialysis (n=2,607)	Average income over the 5 years before dialysis (n=2,605)
	Model 1 HR (95% CI)	Model 2 HR (95% CI)	Model 3 HR (95% CI)	Model 4 HR (95% CI)
Disposable income (ref = quintile 1)				
Quintile 2	0.94 (0.82–1.07)	1.06 (0.93–1.21)	1.05 (0.90–1.21)	1.04 (0.89–1.21)
Quintile 3	1.08 (0.95–1.23)	1.15* (1.01–1.32)	1.01 (0.87–1.16)	1.08 (0.93–1.25)
Quintile 4	1.36*** (1.21–1.54)	1.44*** (1.27–1.63)	1.12 (0.97–1.29)	1.20* (1.04–1.38)
Quintile 5	1.55*** (1.37–1.75)	1.86*** (1.64–2.11)	1.15* (1.01–1.33)	1.22** (1.06–1.41)
Education (ref = mandatory)				
Secondary school	1.28*** (1.16–1.40)	1.25*** (1.14–1.37)	0.93 (0.84–1.04)	0.93 (0.83–1.03)
Higher education	1.90*** (1.69–2.13)	1.80*** (1.60–2.02)	1.14* (1.01–1.29)	1.12 (0.99–1.26)
Age at dialysis/being waitlisted, years (ref = 18–39)				
40–49	0.78*** (0.68–0.89)	0.77*** (0.67–0.88)	0.77** (0.66–0.90)	0.77** (0.66–0.90)
50–59	0.55*** (0.48–0.63)	0.53*** (0.46–0.60)	0.79** (0.68–0.92)	0.78** (0.67–0.90)
60+	0.10*** (0.09–0.12)	0.10*** (0.09–0.11)	0.83* (0.70–0.97)	0.81* (0.69–0.95)
Gender (ref = female)				
Male	1.06 (0.98–1.16)	1.04 (0.96–1.13)	1.01 (0.92–1.11)	1.00 (0.91–1.10)
Year of dialysis/being waitlisted[#]	0.97*** (0.96–0.98)	0.97*** (0.96–0.98)	1.01 (1.00–1.02)	1.01 (1.00–1.02)
Marital status (ref = married)				
Single	0.72*** (0.66–0.80)	0.73*** (0.66–0.80)	1.03 (0.92–1.15)	1.02 (0.92–1.14)

Divorced	0.85** (0.76–0.95)	0.85** (0.77–0.95)	0.90 (0.80–1.02)	0.90 (0.79–1.01)
Widowed	0.41*** (0.33–0.51)	0.40*** (0.32–0.50)	0.73* (0.56–0.95)	0.71* (0.55–0.93)
Citizenship (ref = non-Swedish)				
Swedish	1.26* (1.03–1.54)	1.23* (1.00–1.51)	1.08 (0.87–1.35)	1.08 (0.87–1.35)
Missing	1.17 (0.91–1.50)	1.15 (0.89–1.47)	1.10 (0.83–1.45)	1.09 (0.82–1.43)
Home county[§] (ref = no KTx centre)				
KTx centre	0.99 (0.92–1.07)	0.98 (0.91–1.06)	0.95 (0.87–1.03)	0.94 (0.87–1.03)
Blood type (ref = O)				
A			2.01*** (1.82–2.22)	2.00*** (1.82–2.21)
B			1.51*** (1.31–1.75)	1.51*** (1.31–1.75)
AB			3.46*** (2.84–4.23)	3.47*** (2.84–4.23)

CI = confidence interval; HR = hazard ratio; ref = reference group; KTx = kidney transplantation.

For a definition of quintiles 1–5, see Table 1. #Year of dialysis/being waitlisted was treated as a continuous variable. §Whether patients' home county has a Tx centre.

***p<0.001; **p<0.01; *p<0.05.

Table S2. Association between income and access to the waiting list/kidney transplantation for men and women separately, by Cox proportional hazard regression

Variables included in the model	Access to the kidney waiting list		Access to kidney transplantation	
	Men (n=9,171) HR (95% CI)	Women (n=4,811) HR (95% CI)	Men (n=1,781) HR (95% CI)	Women (n=913) HR (95% CI)
Disposable income (ref = quintile 1)				
Quintile 2	0.98 (0.83–1.16)	1.04 (0.84–1.29)	1.20 (0.99–1.45)	1.30* (1.02–1.67)
Quintile 3	0.91 (0.77–1.08)	1.08 (0.87–1.35)	0.92 (0.76–1.12)	1.19 (0.92–1.53)
Quintile 4	1.21* (1.03–1.41)	1.52*** (1.22–1.89)	1.22* (1.02–1.45)	1.33* (1.04–1.72)
Quintile 5	1.73*** (1.49–2.01)	1.78*** (1.42–2.23)	1.30** (1.10–1.53)	1.51** (1.17–1.97)
Education (ref = mandatory)				
Secondary school	1.20** (1.07–1.34)	1.37*** (1.16–1.62)	0.93 (0.82–1.05)	0.88 (0.73–1.06)
Higher education	1.86*** (1.63–2.14)	1.74*** (1.42–2.12)	1.01 (0.86–1.17)	1.15 (0.92–1.42)
Age at dialysis/being waitlisted, years (ref = 18–39)				
40–49	0.72*** (0.61–0.85)	0.80* (0.65–0.99)	0.76** (0.63–0.92)	0.82 (0.64–1.05)
50–59	0.53*** (0.45–0.63)	0.49*** (0.39–0.60)	0.75** (0.63–0.90)	0.84 (0.65–1.07)
60+	0.10*** (0.08–0.12)	0.10*** (0.08–0.13)	0.74** (0.61–0.90)	0.93 (0.72–1.21)
Year of dialysis/being waitlisted[#]	0.97*** (0.96–0.98)	0.98** (0.96–0.99)	1.00 (0.98–1.01)	1.03** (1.01–1.05)
Marital status (ref = married)				
Single	0.75*** (0.67–0.85)	0.76** (0.64–0.90)	0.95 (0.84–1.09)	1.28* (1.06–1.55)
Divorced	0.86* (0.75–0.99)	0.87 (0.73–1.04)	0.89 (0.76–1.04)	0.92 (0.75–1.12)
Widowed	0.39*** (0.27–0.56)	0.42*** (0.31–0.57)	0.78 (0.51–1.19)	0.70* (0.50–0.99)
Citizenship (ref = non-Swedish)				
Swedish	1.21 (0.97–1.51)	1.16 (0.86–1.57)	1.07 (0.84–1.36)	1.21 (0.86–1.71)
Missing	1.14 (0.86–1.52)	1.10 (0.75–1.62)	1.05 (0.76–1.45)	1.35 (0.87–2.11)
Home county[§] (ref = no KTx centre)				
KTx centre	0.96	1.06	1.01	0.81**

	(0.88–1.06)	(0.92–1.21)	(0.91–1.12)	(0.70–0.94)
Blood type (ref = O)				
A			2.02*** (1.79–2.28)	2.24*** (1.89–2.66)
B			1.53*** (1.28–1.82)	1.52** (1.19–1.94)
AB			4.49*** (3.54–5.69)	2.23*** (1.53–3.26)

CI = confidence interval; HR = hazard ratio; ref = reference group; KTx = kidney transplantation. For

a definition of quintiles 1–5, see Table 1. #Year of dialysis/being waitlisted was treated as a

continuous variable. §Whether patients' home county has a Tx centre. ***p<0.001; **p<0.01;

*p<0.05.

Table S3. Association between education and access to the waiting list/kidney transplantation for men and women separately, by Cox proportional hazard regression

Variables included in the model	Access to the kidney waiting list		Access to kidney transplantation	
	Men (n=9,171) HR (95% CI)	Women (n=4,811) HR (95% CI)	Men (n=1,781) HR (95% CI)	Women (n=913) HR (95% CI)
Education (ref = mandatory)				
Secondary school	1.31*** (1.17–1.46)	1.47*** (1.24–1.73)	0.95 (0.84–1.07)	0.92 (0.77–1.11)
Higher education	2.20*** (1.93–2.51)	2.07*** (1.71–2.51)	1.07 (0.92–1.24)	1.26* (1.02–1.54)
Age at dialysis/being waitlisted, years (ref = 18–39)				
40–49	0.75** (0.64–0.89)	0.84 (0.68–1.04)	0.77** (0.64–0.93)	0.86 (0.67–1.10)
50–59	0.59*** (0.50–0.69)	0.57*** (0.46–0.70)	0.77** (0.65–0.93)	0.93 (0.73–1.18)
60+	0.11*** (0.09–0.13)	0.11*** (0.09–0.14)	0.78* (0.65–0.95)	1.06 (0.83–1.36)
Year of dialysis/being waitlisted[#]	0.98** (0.97–0.99)	0.98** (0.96–0.99)	1.00 (0.99–1.01)	1.03** (1.01–1.04)
Marital status (ref = married)				
Single	0.73*** (0.65–0.82)	0.77** (0.64–0.91)	0.96 (0.84–1.09)	1.34** (1.11–1.62)
Divorced	0.86* (0.75–0.98)	0.88 (0.74–1.05)	0.91 (0.78–1.06)	0.93 (0.76–1.13)
Widowed	0.41*** (0.28–0.58)	0.44*** (0.33–0.59)	0.80 (0.53–1.22)	0.73 (0.52–1.03)
Citizenship (ref = non-Swedish)				
Swedish	1.35** (1.09–1.68)	1.28 (0.95–1.72)	1.15 (0.91–1.46)	1.32 (0.94–1.85)
Missing	1.31 (0.99–1.74)	1.16 (0.79–1.71)	1.13 (0.83–1.56)	1.41 (0.91–2.18)
Home county[§] (ref = no KTx centre)				
KTx centre	0.98 (0.89–1.08)	1.10 (0.97–1.26)	1.01 (0.91–1.13)	0.83* (0.71–0.96)
Blood type (ref = O)				
A			2.00*** (1.77–2.25)	2.21*** (1.87–2.62)
B			1.52*** (1.27–1.81)	1.46** (1.15–1.86)
AB			4.49*** (3.54–5.69)	2.21*** (1.51–3.23)

CI = confidence interval; HR = hazard ratio; ref = reference group; KTx = kidney transplantation.

#Year of dialysis/being waitlisted was treated as a continuous variable. §Whether patients' home

county has a Tx centre. *** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$.

Table S4. Sensitivity analysis: association between income (excluding patients with negative and very low disposable income) and access to the waiting list/access to kidney transplantation conditional on transplant listing, by Cox proportional hazard regression

Variables included in the model	Access to the kidney waiting list (n=13, 305) HR (95% CI)	Access to kidney transplantation (n= 2, 499) HR (95% CI)
Disposable income (ref = quintile 1)		
Quintile 2	1.04 (0.90–1.20)	1.19* (1.02–1.40)
Quintile 3	1.03 (0.89–1.18)	1.03 (0.88–1.21)
Quintile 4	1.38*** (1.21–1.58)	1.27** (1.09–1.47)
Quintile 5	1.84*** (1.61–2.10)	1.33*** (1.15–1.55)
Education (ref = mandatory)		
Secondary school	1.24*** (1.12–1.36)	0.91 (0.82–1.01)
Higher education	1.81*** (1.61–2.03)	1.08*** (0.95–1.22)
Age at dialysis/being waitlisted, years (ref = 18–39)		
40–49	0.74*** (0.64–0.85)	0.80** (0.68–0.94)
50–59	0.52*** (0.46–0.60)	0.77*** (0.66–0.90)
60+	0.10*** (0.09–0.12)	0.81** (0.69–0.95)
Gender (ref = female)		
Male	1.02 (0.94–1.12)	0.97 (0.88–1.06)
Year of dialysis/being waitlisted#	0.97*** (0.96–0.98)	1.01 (1.00–1.02)
Marital status (ref = married)		
Single	0.76*** (0.69–0.84)	1.02 (0.92–1.14)
Divorced	0.87* (0.78–0.97)	0.91 (0.80–1.03)
Widowed	0.41*** (0.32–0.51)	0.95* (0.57–0.97)
Citizenship (ref = non-Swedish)		
Swedish	1.30* (1.05–1.60)	1.05 (0.84–1.31)
Missing	1.26 (0.98–1.63)	1.08 (0.82–1.44)
Home county§ (ref = no KTx centre)		

KTx centre	0.99 (0.92–1.08)	0.95 (0.87–1.04)
Blood type (ref = O)		
A		2.05*** (1.86–2.27)
B		1.54*** (1.33–1.79)
AB		3.42*** (2.80–4.19)

CI = confidence interval; HR = hazard ratio; ref = reference group; KTx = kidney transplantation. For a definition of quintiles 1–5, see Table 1. #Year of dialysis/being waitlisted was treated as a continuous variable. §Whether patients' home county has a Tx centre. ***p<0.001; **p<0.01; *p<0.05.