

Appendix 1. Crude incidence and prevalence rates of RRT due to DN per million population during the period 2000-2010 in the Netherlands

	Year												APC % (95% CI)	
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
Incidence														
All	92.6	97.6	98.9	100.3	103.3	106.3	110.7	113.8	120.9	118.7	117.7	117.6	120.2	2000-2008: 3.0 (2.6;3.4) 2008-2012: 0.3 (-0.8;1.4)
Non-DN	58.0	63.1	64.2	68.1	67.9	67.4	69.1	70.6	75.8	77.3	71.1	71.2	71.5	2000-2009: 2.5 (1.7;3.4) 2009-2012: -2.5 (-6.8;1.9)
Unknown/ Missing	19.1	18.3	17.3	15.1	16.9	21.4	22.9	21.6	22.8	23.1	27.9	26.3	29.0	2000-2003: -4.2 (-14.4;7.1) 2003-2012: 6.5 (4.4;8.7)
DN Both	15.6	16.5	17.3	16.9	18.7	17.3	18.8	21.7	22.2	18.5	18.7	20.1	19.6	2000-2012: 1.9 (0.7;3.2)
T1DN	6.8	6.2	5.1	5.6	5.7	5.8	5.9	5.3	5.1	3.6	4.5	4.4	3.6	2000-2012: -4.1 (-5.9;-2.4)
T2DN	8.9	10.3	12.2	11.3	13.0	11.6	12.9	16.4	17.1	14.9	14.2	15.7	16.0	2000-2012: 4.5 (2.7;6.2)
Prevalence														
All	611.6	628.7	647.3	666.0	691.3	721.7	758.0	785.0	820.2	855.3	882.7	911.2	923.4	2000-2003: 2.8 (2.3;3.4) 2003-2009: 4.2 (4.0;4.5) 2009-2012: 2.7 (2.1;3.2)
Non-DN	461.5	473.9	487.3	500.5	517.0	533.9	555.7	570.8	591.4	613.1	627.2	641.2	642.4	2000-2003: 2.7 (2.2;3.2) 2003-2009: 3.4 (3.2;3.6) 2009-2012: 1.7 (1.3;2.2)
Unknown/ Missing	93.2	94.9	96.5	97.5	101.5	110.8	120.5	125.6	132.8	141.6	153.0	162.3	172.4	2000-2003: 1.4 (-0.6;3.4) 2003-2012: 6.5 (6.1;6.9)
DN Both	56.9	60.0	63.5	68.0	72.8	77.0	81.9	88.6	96.0	100.7	102.5	107.6	108.6	2000-2009: 6.7 (6.3;7.0) 2009-2012: 2.6 (0.9;4.3)
T1DN	32.5	32.3	32.6	32.6	33.4	34.6	35.7	36.2	37.2	36.8	38.0	38.6	37.4	2000-2003: 0.1 (-1.6;1.9) 2003-2007: 3.0 (1.2;4.8) 2006-2012: 0.6 (-0.1;1.4)
T2DN	24.4	27.7	30.9	35.4	39.4	42.4	46.1	52.4	58.7	63.9	64.5	69.1	71.3	2000-2008: 11.4 (10.6;12.3) 2008-2012: 4.8 (2.6;7.1)

Categories may not add up because of rounding off. Abbreviations: APC; annual percentage change; DN, diabetic nephropathy; T1DN, type 1 DN; T2DN, type 2 DN.

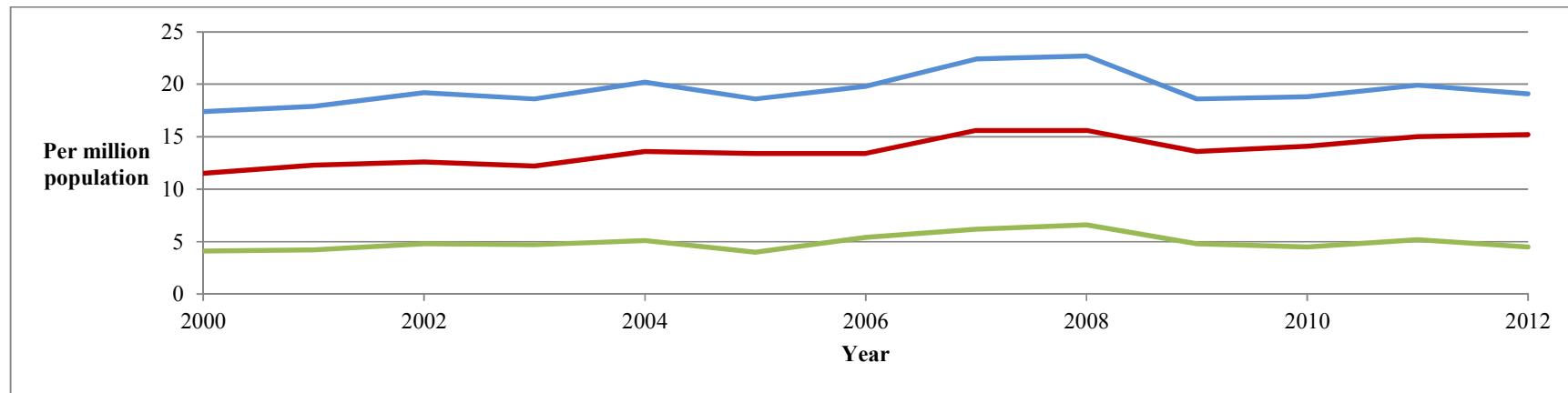
Appendix 2. Additional sensitivity analysis

A. Age and gender adjusted incidence of RRT for all causes, non-DN and DN (both T1DN and T2DN) for centres with <20% (and $\geq 20\%$ (green line) missing primary causes of RRT.

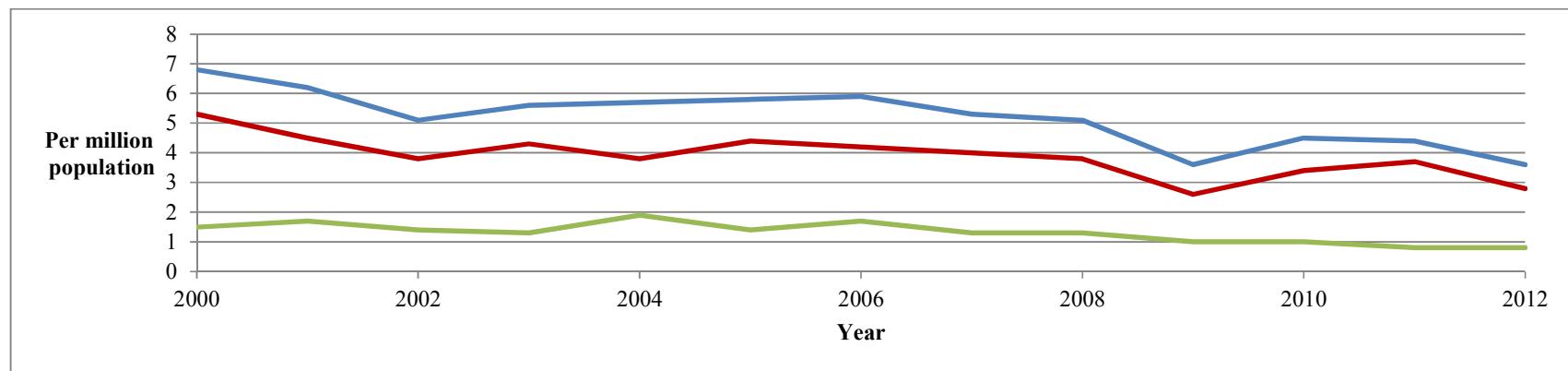
	Year												APC % (95% CI)	
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
<20% missing														
All	65.0	68.0	69.4	69.0	72.8	74.7	75.5	79.6	82.7	79.7	78.7	79.5	81.0	2000-2008: 2.7 (2.2;3.2) 2008-2012: -0.4 (-1.8;1.0)
Non-DN	43.6	46.3	47.8	49.2	50.8	50.7	51.3	54.0	57.6	55.2	53.0	52.9	53.7	2000-2008: 2.9 (2.2;3.6) 2008-2012: -1.5 (-3.4;0.5)
Unknown/ Missing	9.9	9.5	8.9	7.5	8.7	10.5	10.8	9.8	9.5	11.0	11.7	11.6	12.2	2000-2012: 2.6 (0.9;4.2)
DN Both	11.5	12.3	12.6	12.2	13.6	13.4	13.4	15.6	15.6	13.6	14.1	15.0	15.2	2000-2012: 2.1 (1.2;3.1)
T1DN	5.3	4.5	3.8	4.3	3.8	4.4	4.2	4.0	3.8	2.6	3.4	3.7	2.8	2000-2012: -3.7 (-5.7;-1.7)
T2DN	6.2	7.9	8.8	7.9	9.8	9.0	9.2	11.7	11.8	11.0	10.7	11.3	12.4	2000-2012: 4.7 (3.1;6.3)
$\geq 20\%$ missing														
All	27.8	29.7	29.4	31.2	30.6	31.5	35.1	34.4	38.1	38.8	39.0	38.1	39.0	2000-2012: 3.1 (2.5;3.7)
Non-DN	14.4	16.8	16.3	18.9	17.1	16.7	17.7	16.7	18.1	22.0	18.2	18.4	17.8	2000-2012: 1.5 (0.2;2.9)
Unknown/ Missing	9.2	8.8	8.4	7.7	8.2	10.8	12.0	11.6	13.3	12.2	16.2	14.7	16.8	2000-2003: -3.1 (-16.0;11.9) 2003-2012: 8.5 (5.7;11.4)
DN Both	4.1	4.2	4.8	4.7	5.1	4.0	5.4	6.2	6.6	4.8	4.5	5.2	4.5	2000-2012: 1.3 (-1.1;3.8)
T1DN	1.5	1.7	1.4	1.3	1.9	1.4	1.7	1.3	1.3	1.0	1.0	0.8	0.8	2000-2006: 0.5 (-6.1;7.6) 2006-2012: -11.4 (-17.2;-5.2)
T2DN	2.6	2.4	3.4	3.5	3.2	2.6	3.7	4.8	5.2	3.9	3.4	4.4	3.6	2000-2012: 3.9 (0.7;7.1)

Categories may not add up because of rounding off. Abbreviations: APC; annual percentage change; DN, diabetic nephropathy; T1DN, type 1 DN; T2DN, type 2 DN.

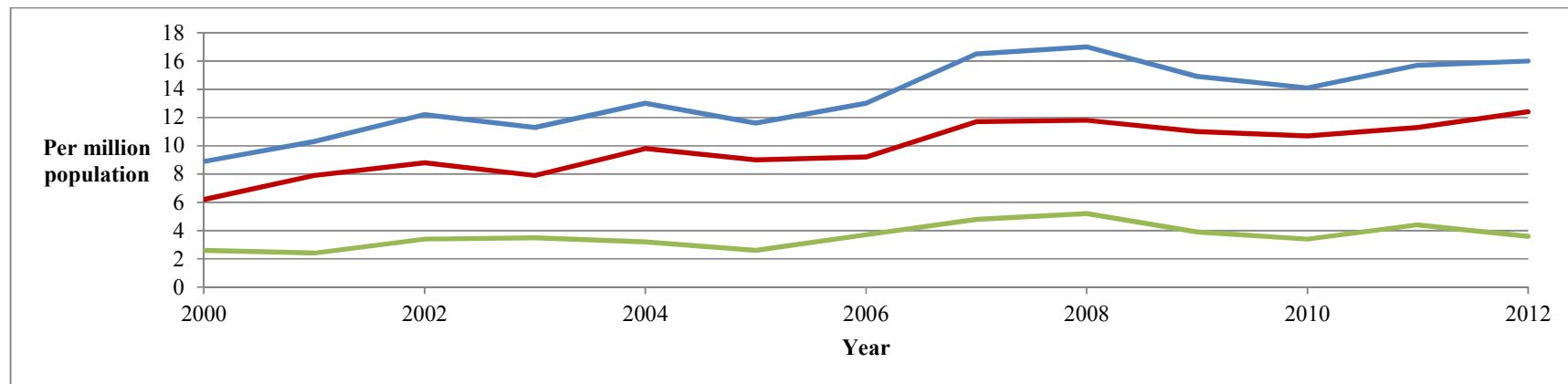
B. Visual representation of the course of the incidence of RRT for DN (both forms) for all centres (blue line) and centres with <20% (red line) or $\geq 20\%$ (green line) missing primary causes of RRT.



C. Visual representation of the course of the incidence of RRT for T1DN comparing all centres (blue line) and centres with <20% (red line) or $\geq 20\%$ (green line) missing primary causes of RRT.



D. Visual representation of the course of the incidence of RRT for T2DN comparing all centres (blue line) and centres with <20% (red line) or $\geq 20\%$ (green line) missing primary causes of RRT.



Appendix 3.

A. Contribution of each treatment modality (dialysis or Tx) to the adjusted incidence of RRT due to DN.

All	32.1	34.1	28.2	28.0	24.7	24.2	26.3	23.9	25.7	22.5	22.0	18.5	18.0	2000-2012: -4.4 (-5.5;-3.2)
Non-DN	20.2	22.9	19.4	19.9	16.5	16.3	18.1	15.9	16.9	15.3	14.6	11.2	11.5	2000-2012: -4.8 (-6.1;-3.3)
Unknown/ Missing	6.1	5.8	4.2	3.3	3.5	4.6	3.9	4.1	4.3	4.4	3.4	3.5	3.7	2000-2012: -2.8 (-5.4;-0.2)
DN Both	5.7	5.4	4.6	4.8	4.8	3.3	4.3	3.9	4.6	2.9	4.0	3.8	2.8	2000-2012: -4.3 (-6.5;-2)
T1DN	3.2	2.5	1.9	1.7	2.0	1.6	1.3	1.3	1.1	0.9	1.4	0.7	0.4	2000-2012: -12.1 (-15.3;-8.6)
T2DN	2.5	2.9	2.6	3.0	2.8	1.8	2.9	2.6	3.4	2.0	2.6	3.0	2.4	2000-2012: -0.3 (-3.2;2.7)
Tx														
All	4.6	3.5	3.9	4.4	4.6	6.4	7.7	8.3	10.8	11.4	13.1	12.9	14.3	2000-2002: -9.2 (-29.2;16.4) 2002-2008: 19.9 (13.4;26.7)
Non-DN	2.1	0.8	0.6	1.6	1.7	2.9	3.9	2.6	4.4	2.8	6.7	5.9	7.0	2000-2012: 18.1 (10.3;26.5)
Unknown/ Missing	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.2	-
DN Both	2.2	2.3	2.9	2.6	2.6	3.1	3.4	5.4	6.0	8.1	5.3	5.7	6.5	2000-2012: 11.1 (7.6;14.6)
T1DN	0.3	0.4	0.4	0.2	0.2	0.2	0.4	0.2	0.3	0.4	0.9	1.1	0.6	2000-2012: 8.8 (0.6;17.7)
T2DN	0.3	0.4	0.4	0.2	0.3	0.4	0.4	0.3	0.3	0.5	1.0	1.2	0.8	2000-2012: 10.1 (3.4;17.2)

Categories may not add up because of rounding off. Abbreviations: APC; annual percentage change; DN, diabetic nephropathy; T1DN, type 1 DN; T2DN, type 2 DN.

B. Contribution of each treatment modality (dialysis or Tx) to the adjusted prevalence of RRT due to DN.

	Year												AAPC % (95% CI)	
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
Dialysis														
All	333.6	334.4	343.9	348.1	353.3	361.9	375.9	375.0	383.5	393.8	390.9	384.9	378.2	2000-2009: 2 (1.7;2.2) 2009-2012: -1.1 (-2.4;0.2)
Non-DN	228.4	230.9	237.8	241.2	242.7	245.4	254.6	250.4	253.6	259.0	256.1	250.1	244.2	2000-2009: 1.4 (1.1;1.7) 2009-2012: -2 (-3.6;-0.3)
Unknown/ Missing	62.2	59.3	58.7	55.2	55.4	59.8	61.8	62.0	62.5	66.3	68.3	67.4	68.5	2000-2003: -3.4 (-7;0.3) 2003-2012: 2.5 (1.8;3.2)
DN Both	42.9	44.2	47.5	51.7	55.2	56.7	59.5	62.6	67.4	68.6	66.5	67.5	65.5	2000-2008: 5.9 (5.2;6.6) 2008-2012: -0.5 (-2.3;1.4)
T1DN	17.7	16.5	16.2	16.0	16.6	16.5	16.5	15.4	15.6	14.7	14.9	14.1	12.4	2000-2010: -1.3 (-2.1;-0.5) 2010-2012: -8.6 (-17.4;1.3)
T2DN	25.2	27.7	31.3	35.7	38.7	40.3	43.1	47.2	51.8	53.9	51.6	53.4	53.1	2003-2009: 7.2 (5.6;8.8) 2009-2012: -0.7 (-3.9;2.6)
Haemodialysis														
All	236.1	233.1	244.9	252.5	266.0	276.5	292.1	295.8	308.1	322.3	322.2	325.1	321.5	2000-2009: 3.8 (3.3;4.3) 2009-2012: 0.2 (-2.4;2.9)
Non-DN	160.7	159.6	167.5	172.3	180.3	185.5	195.6	194.5	202.0	210.8	210.0	210.2	206.9	2000-2009: 3.3 (2.8;3.7) 2009-2012: -0.4 (-2.7;2)
Unknown/ Missing	44.4	41.7	42.3	41.1	42.8	46.1	48.7	49.3	49.8	53.2	56.0	56.6	57.6	2000-2003: -1.3 (-4.9;2.5) 2003-2012: 3.9 (3.2;4.6)
DN Both	31.0	31.9	35.1	39.1	42.8	44.9	47.8	51.9	56.4	58.3	56.3	58.4	57.1	2000-2008: 8.1 (7.2;8.9) 2008-2012: 0.4 (-1.8;2.7)
T1DN	11.3	10.6	10.7	11.0	11.6	11.7	12.7	12.6	12.7	11.9	11.5	11.5	10.3	2000-2008: 2.3 (0.9;3.7) 2008-2012: -4.6 (-8.3;-0.8)
T2DN	19.6	21.3	24.4	28.1	31.2	33.2	35.2	39.3	43.7	46.4	44.8	46.9	46.7	2000-2008: 10.5 (9.3;11.8) 2008-2012: 1.4 (-1.9;4.9)
Peritoneal dialysis														
All	97.5	101.2	99.0	95.6	87.4	85.3	83.8	79.2	75.4	71.6	68.7	59.8	56.6	2000-2002: 0.3 (-6;7) 2002-2010: -4.6 (-5.4;-3.7)

														2010-2012: -9.6 (-15.3;-3.6)
Non-DN	67.7	71.3	70.3	68.9	62.4	59.8	58.9	55.9	51.6	48.2	46.1	39.9	37.3	2000-2002: 2.3 (-5.9;11.3) 2002-2010: -5.4 (-6.4;-4.3) 2010-2012: -10.7 (-17.9;-2.8)
Unknown/ Missing	17.8	17.6	16.3	14.2	12.5	13.7	13.1	12.6	12.7	13.1	12.3	10.8	10.9	2000-2012: -3.7 (-4.7;-2.6)
DN Both	12.0	12.3	12.3	12.5	12.4	11.8	11.7	10.6	11.0	10.3	10.3	9.1	8.4	2000-2003: 1.5 (-3.1;6.4) 2003-2010: -3.1 (-4.6;-1.5) 2010-2012: -9.1 (-17.3;-0.2)
T1DN	6.4	5.9	5.5	5.0	5.0	4.7	3.8	2.7	3.0	2.8	3.5	2.6	2.0	2000-2012: -8.5 (-10.4;-6.6)
T2DN	5.6	6.4	6.8	7.6	7.4	7.1	7.9	7.9	8.1	7.5	6.8	6.4	6.4	2000-2007: 4.5 (2.1;7) 2007-2012: -5.4 (-9.1;-1.6)
Tx														
All	316.6	321.3	337.3	349.4	366.3	384.2	402.2	423.0	443.0	460.2	480.2	498.6	521.0	2000-2012: 4.4 (4.3;4.6)
Non-DN	259.3	260.9	272.2	280.1	292.9	303.9	313.3	327.7	340.6	351.4	361.2	370.3	380.6	2000-2009: 3.6 (3.4;3.9) 2009-2012: 2.8 (1.2;4.3)
Unknown/ Missing	38.9	41.3	44.9	48.7	51.9	56.5	63.7	67.4	73.0	76.9	84.6	92.1	101.4	2000-2012: 8.3 (8.1;8.6)
DN Both	18.3	19.0	20.2	20.6	21.4	23.8	25.2	28.0	29.4	31.9	34.4	36.2	39.0	2000-2004: 4.6 (3.3;5.9) 2004-2012: 7.7 (7.2;8.1)
T1DN	15.7	16.1	16.9	17.0	17.0	18.1	19.0	20.4	20.7	21.0	21.8	22.5	23.5	2000-2012: 3.5 (3.2;3.8)
T2DN	2.6	2.9	3.2	3.7	4.4	5.7	6.3	7.5	8.7	10.8	12.5	13.7	15.5	2000-2002: 10.7 (-2.7;26) 2002-2010: 18.7 (16.6;20.7) 2010-2012: 10.7 (-2.7;26)

Categories may not add up because of rounding off. Abbreviations: APC; annual percentage change; DN, diabetic nephropathy; T1DN, type 1 DN; T2DN, type 2 DN.

Appendix 4.

A. Patient survival probabilities and crude hazard ratios (HR) and age and gender adjusted HRs of patients starting RRT, subdivided into haemo- and peritoneal dialysis in the period 2000-2010.

		Adjusted 1 year survival (95% CI)	Adjusted 5 year survival (95% CI)	Unadjusted 5 year survival (95% CI)	Crude HR (95%CI)	Adjusted HR (95% CI)
Survival on haemodialysis	No DN	86.6 (85.9 - 87.4)	50.9 (49.5 - 52.5)	39.8 (39.3 - 40.3)	1 (ref)	1 (ref)
	DN both	85.7 (84.4 - 87.0)	42.9 (40.7 - 45.3)	34.0 (33.2 - 34.7)	1.13 (1.07 - 1.20)	1.22 (1.15 - 1.29)
	T1DN	83.1 (80.2 - 86.2)	34.0 (29.8 - 38.8)	32.7 (31.3 - 34.1)	1.17 (1.06 - 1.30)	1.55 (1.40 - 1.72)
	T2DN	86.5 (85.1 - 87.9)	45.6 (43.0 - 48.3)	34.4 (33.5 - 35.2)	1.12 (1.05 - 1.19)	1.13 (1.06 - 1.21)
Survival on peritoneal dialysis	No DN	93.6 (92.6 - 94.6)	61.4 (58.8 - 64.0)	59.7 (58.3 - 61.1)	1 (ref)	1 (ref)
	DN both	88.9 (86.6 - 91.2)	42.3 (37.9 - 47.1)	38.9 (37.2 - 40.6)	1.88 (1.67 - 2.12)	1.84 (1.63 - 2.08)
	T1DN	83.0 (78.0 - 88.3)	32.0 (25.1 - 40.8)	41.0 (38.0 - 44.0)	1.94 (1.61 - 2.32)	2.53 (2.10 - 3.04)
	T2DN	91.3 (88.9 - 93.8)	46.8 (41.6 - 52.7)	37.8 (35.7 - 39.8)	1.86 (1.61 - 2.14)	1.61 (1.39 - 1.85)

Categories may not add up because of rounding off. Abbreviations: CI, confidence interval; DN, diabetic nephropathy; HR, hazard ratios; T1DN, type 1 DN; T2DN, type 2 DN.

B. Age and gender adjusted hazard ratios (HR) of patients starting RRT in 2005-2009 when compared to 2000-2004. Subdivided into RRT (both dialysis and kidney transplantation), dialysis (both haemo- and peritoneal dialysis) haemodialysis, peritoneal dialysis and kidney transplantation.

	Survival on RRT Adjusted HR (95% CI)	Survival on dialysis Adjusted HR (95% CI)	Survival on haemodialysis Adjusted HR (95% CI)	Survival on peritoneal dialysis Adjusted HR (95% CI)	Survival after kidney transplantation Adjusted HR (95% CI)
All	0.78 (0.74 - 0.81)	0.80 (0.77 - 0.84)	0.81 (0.77 - 0.85)	0.77 (0.69 - 0.86)	0.91 (0.78 - 1.06)
Non-DN	0.80 (0.75 - 0.84)	0.82 (0.77 - 0.87)	0.83 (0.78 - 0.89)	0.75 (0.64 - 0.86)	0.98 (0.82 - 1.18)
Unknown/ Missing	0.74 (0.67 - 0.82)	0.78 (0.71 - 0.87)	0.76 (0.68 - 0.86)	0.90 (0.71 - 1.16)	0.99 (0.67 - 1.47)
DN Both	0.76 (0.69 - 0.84)	0.77 (0.70 - 0.85)	0.79 (0.71 - 0.89)	0.70 (0.57 - 0.87)	0.77 (0.54 - 1.10)
T1DN	0.75 (0.62 - 0.90)	0.77 (0.64 - 0.93)	0.74 (0.59 - 0.93)	0.86 (0.60 - 1.25)	0.59 (0.34 - 1.01)
T2DN	0.77 (0.69 - 0.87)	0.79 (0.70 - 0.88)	0.82 (0.72 - 0.94)	0.66 (0.50 - 0.86)	0.92 (0.57 - 1.50)

Categories may not add up because of rounding off. Dialysis is defined as both peritoneal- or haemodialysis. Abbreviations: CI, confidence interval; DN, diabetic nephropathy; T1DN, type 1 DN; T2DN, type 2 DN; Tx, kidney transplantation.

C. Graft survival probabilities and crude hazard ratios (HR) and age and gender adjusted HRs of patients having a renal transplantation in the period 2000-2010.

		Adjusted 1 year survival (95% CI)	Adjusted 5 year survival (95% CI)	Unadjusted 5 year survival (95% CI)	Crude HR (95%CI)	Adjusted HR (95% CI)
Graft survival	No DN	90.6 (89.8 - 91.5)	77.0 (75.7 - 78.3)	75.8 (74.8 - 76.8)	1 (ref)	1 (ref)
	DN both	86.7 (84.1 - 89.4)	68.8 (65.1 - 72.8)	65.6 (62.9 - 68.2)	1.53 (1.33 - 1.75)	1.43 (1.25 - 1.64)
	T1DN	90.7 (87.5 - 93.9)	74.7 (69.9 - 79.7)	74.1 (70.2 - 77.6)	1.11 (0.92 - 1.34)	1.14 (0.95 - 1.38)
	T2DN	82.4 (78.1 - 86.8)	62.1 (56.4 - 68.4)	54.4 (50.8 - 57.9)	2.28 (1.91 - 2.73)	1.85 (1.54 - 2.22)

Categories may not add up because of rounding off. Abbreviations: CI, confidence interval; DN, diabetic nephropathy; HR, hazard ratios; T1DN, type 1 DN; T2DN, type 2 DN.