

Supplement 3

Supplement 3a. Course of the disease burden among persons with T1DM

		Baseline	6 months	12 months	Difference (12 months)
SF-12^{v2}					
PCS	Observed	51.3 [46.1, 54.7]	52.1 [47.4, 55.1] **	51.8 [47.2, 55.1] **	
	Number	1051	836	537	
	Estimated	49.8 (49.3, 50.2)	50.5 (50.1, 51.0)	50.2 (49.5, 50.7)	0.4 (-0.5, 1.3)
MCS	Observed	49.6 [40.8, 56.4]	51.1 [43.4, 57.6] **	52.7 [45.1, 58.8] **	
	Number	1051	836	537	
	Estimated	48.1 (47.5, 48.7)	50.0 (49.3, 50.7)	51.5 (50.6, 52.3)	3.4 (2.1, 4.7)
EQ-5D-3L					
Dutch Tariff	Observed	0.84 [0.77, 1.00]	0.90 [0.81, 1.00] **	0.90 [0.81, 1.00] **	
	Number	1051	837	537	
	Estimated	0.84 (0.83, 0.85)	0.87 (0.86, 0.88)	0.87 (0.85, 0.88)	0.03 (0.01, 0.05)
VAS	Observed	73.0 [62.0, 81.2]	76.0 [68.5, 82.0] *	79.0 [69.0, 85.0] *	
	Number	1052	837	537	
	Estimated	69.9 (68.7, 71.1)	72.1 (70.8, 73.5)	73.2 (71.5, 74.9)	3.3 (0.8, 5.8)
Hypoglycaemic events					
Presence of any hypoglycaemic events in past 6 months, yes, n (%)		1017 (96.8)	803 (95.9)	504 (93.9) **	
	Number	1051	837	537	
Number of hypoglycaemic events in past 6 months, n (%)	Observed	40.0 [12.5, 80.0]	30.0 [12.0, 80.0]	28.0 [12.0, 75.0]	
	Number	1013	799	503	
	Estimated	60.2 (55.6, 64.7)	58.3 (53.3, 63.4)	61.3 (54.8, 67.7)	1.1 (-8.5, 10.7)
Use of strips					
Strips per day, n (%)	Observed	6.0 [4.0, 8.0]	5.0 [1.0, 7.0] **	3.0 [0.0, 6.0] **	

	Number	1042	831	537	
	Estimated	6.2 (6.0, 6.4)	4.9 (4.7, 5.2)	4.0 (3.6, 4.3)	-2.2 (-2.7, -1.7)
Hospital admissions					
Hospital admissions in past 6 months, yes, n (%)		144 (13.7)	72 (8.6) **	22 (2.1) **	
	Number	1051	834	535	
Number of hospital admissions (days)	Observed	0.0 [0.0, 0.0]	0.0 [0.0, 0.0]	0.0 [0.0, 0.0]	
	Number	1051	834	535	
	Estimated	0.3 (0.2, 0.4)	0.3 (0.1, 0.3)	0.1 (-0.1, 0.2)	-0.2 (-0.4, 0.1)
Loss of working days					
Absenteeism rate in past 6 months, yes, n (%)		192 (18.3)	84 (10.0) **	42 (7.8) **	
	Number	1051	837	537	
Number of working days lost in last 6 months	Observed	7.0 [3.0, 27.0]	9.0 [3.0, 30.0]	10.0 [2.5, 80.0]	
	Number	190	79	41	
	Estimated	35.2 (26.6, 43.8)	38.1 (24.8, 51.4)	47.2 (28.8, 65.7)	12.0 (-12.9, 37.0)

Values are presented as number (%), median [25th, 75th percentile] and estimated mean (difference) (95% CI). Data are presented as observed data and estimated data using the linear mixed model. * P<0.05 as compared to baseline; ** p<0.001 as compared to baseline. Abbreviations: PCS, Physical component score; MCS, Mental component score.

Supplement 3b. Course of the disease burden among persons with T2DM

		Baseline	6 months	12 months	Difference (12 months)
SF-12^{v2}					
PCS	Observed	45.7 [39.1, 51.2]	46.3 [37.8, 51.6]	46.8 [40.9, 51.4]	
	Number	221	154	98	
	Estimated	44.5 (43.4, 45.7)	44.4 (43.0, 45.8)	45.1 (43.4, 46.9)	0.6 (-1.9, 3.1)
MCS	Observed	47.9 [48.5, 55.7]	49.7 [41.8, 57.3] *	50.5 [44.9, 57.8] *	
	Number	221	154	98	
	Estimated	46.9 (45.5, 48.3)	48.9 (47.2, 50.6)	50.5 (48.3, 52.6)	3.6 (0.5, 6.7)
EQ5D-3L					
Dutch Tariff	Observed	0.81 [0.69, 0.95]	0.84 [0.71, 1.00]	0.81 [0.73, 1.00]	
	Number	221	154	98	
	Estimated	0.76 (0.72, 0.79)	0.77 (0.73, 0.81)	0.78 (0.72, 0.83)	0.02 (-0.06, 0.09)
VAS	Observed	68.0 [50.0, 80.0]	71.0 [60.0, 80.0]	71.0 [61.0, 81.2]	
	Number	221	155	98	
	Estimated	62.4 (59.4, 65.4)	66.0 (62.4, 69.6)	67.7 (63.2, 72.3)	5.3 (-1.4, 12.0)
Hypoglycaemic events					
Presence of any hypoglycaemic events in past 6 months, yes, n (%)		169 (76.5)	114 (74.0)	77 (77.8)	
	Number	221	154	99	
Number of hypoglycaemic events in past 6 months, n (%)	Observed	12.0 [6.0, 30.0]	15.0 [6.0, 48.0]	20.0 [6.5, 45.0]	
	Number	169	114	77	
	Estimated	25.9 (19.4, 32.3)	34.8 (26.9, 42.6)	32.6 (23.1, 42.2)	6.7 (-7.4, 20.8)
Use of strips					

Strips per day, n (%)	Observed	5.0 [1.0, 7.0]	5.0 [1.0, 7.0] **	3.0 [0.0, 6.0] **	
	Number	220	153	99	
	Estimated	5.7 (5.2, 6.2)	5.0 (4.4, 5.6)	3.7 (2.9, 4.4)	-2.0 (-3.1, -1.0)
Hospital admissions					
Hospital admissions in past 6 months, yes, n (%)		29 (13.0)	19 (8.5)	7 (7.2)	
	Number	223	151	97	
Number of hospital admissions (days)	Observed	0.0 [0.0, 0.0]	0.0 [0.0, 0.0]	0.0 [0.0, 0.0]	
	Number	217	151	97	
	Estimated	0.4 (-0.1, 0.8)	0.6 (0.1, 1.1)	0.2 (-0.5, 0.8)	-0.2 (-1.1, 0.7)
Loss of working days					
Absenteeism rate in past 6 months, yes, n (%)		42 (19.0)	15 (9.7) **	6 (6.1) *	
	Number	221	154	99	
Number of working days lost in last 6 months	Observed	9.0 [3.3, 35.0]	6.0 [5.0, 75.5]	17.0 [3.25, 36.8]	
	Number	42	15	6	
	Estimated	32.3 (15.7, 48.9)	42.2 (13.1, 71.4)	19.0 (-33.6, 71.6)	-13.3 (-81.3, 54.6)

Values are presented as number (%), median [25th, 75th percentile] and estimated mean (difference) (95% CI). Data are presented as observed data and estimated data using the linear mixed model. * P<0.05 as compared to baseline; ** p<0.001 as compared to baseline. Abbreviations: PCS, Physical component score; MCS, Mental component score.