Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance placed on this supplemental material which has been supplied by the author(s)

BMJ Open

SUPPLEMENTARY MATERIAL
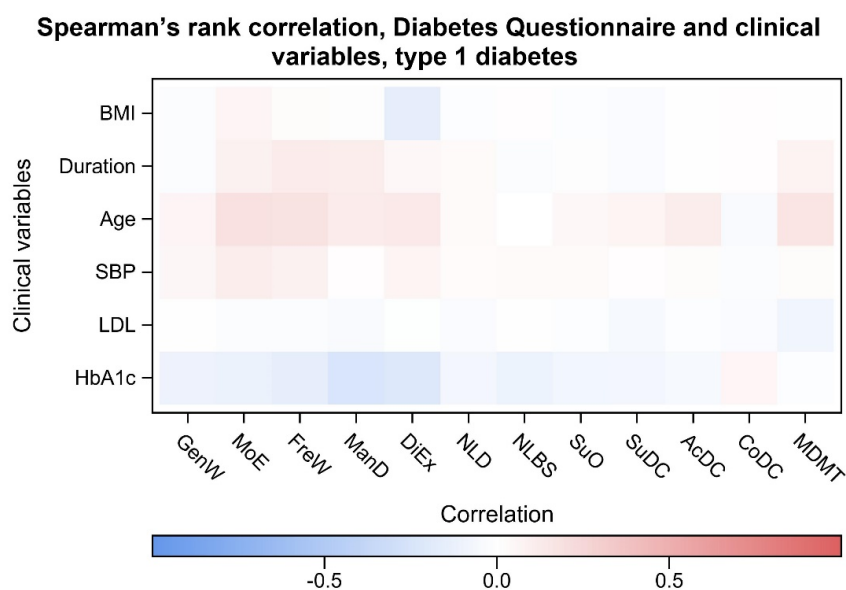
To the article titled

New diabetes questionnaire to add patients' perspectives to diabetes care for adults with type 1 and type 2 diabetes – Nationwide cross-sectional study of construct validity assessing associations with generic health-related quality of life and clinical variables

By

Maria Svedbo Engström; Janeth Leksell; Unn-Britt Johansson; Sixten Borg, Bo Palaszewski; Stefan Franzén; Soffia Gudbjörnsdottir; Katarina Eeg-Olofsson
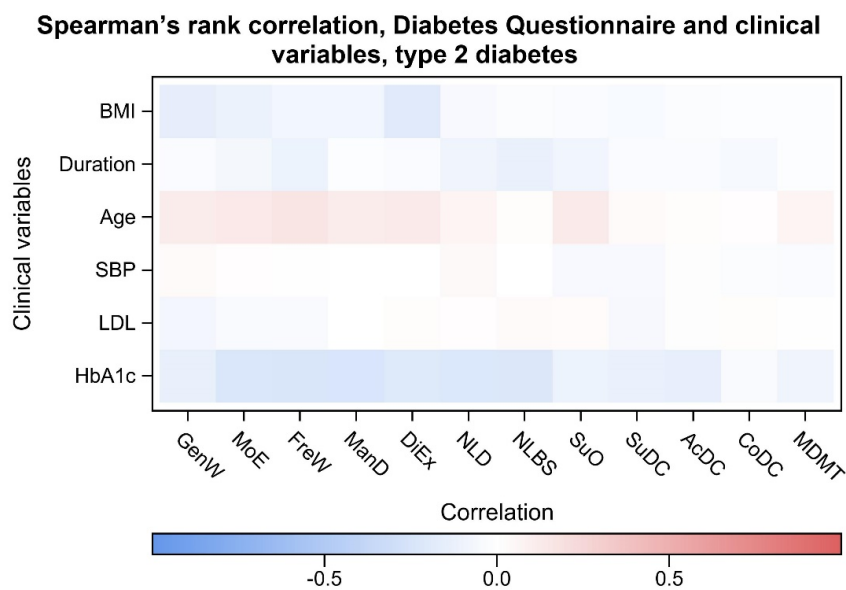
Submitted to BMJ Open

Supplementary figures

Fig. S1. Spearman's rank correlation between the Diabetes Questionnaire scales and clinical variables in type 1 diabetes

Diabetes Questionnaire scales: GenW: General Wellbeing; MoE: Mood and Energy; FreW: Free of Worries about blood sugar; ManD: Capabilities to Manage your Diabetes; DiEx: Diet and Exercise; NLD: Not Limited by Diabetes; NLBS: Not Limited by Blood Sugar; SuO: Support from Others; SuDC: Support from Diabetes Care; AcDC: Access to Diabetes Care; CoDC: Continuity in Diabetes Care; MDMT: Medical Devices and Medical Treatment.
Clinical variables: BMI: body mass index, SBP: systolic blood pressure, LDL: LDL cholesterol, HbA$_{1c}$: glycated haemoglobin level.
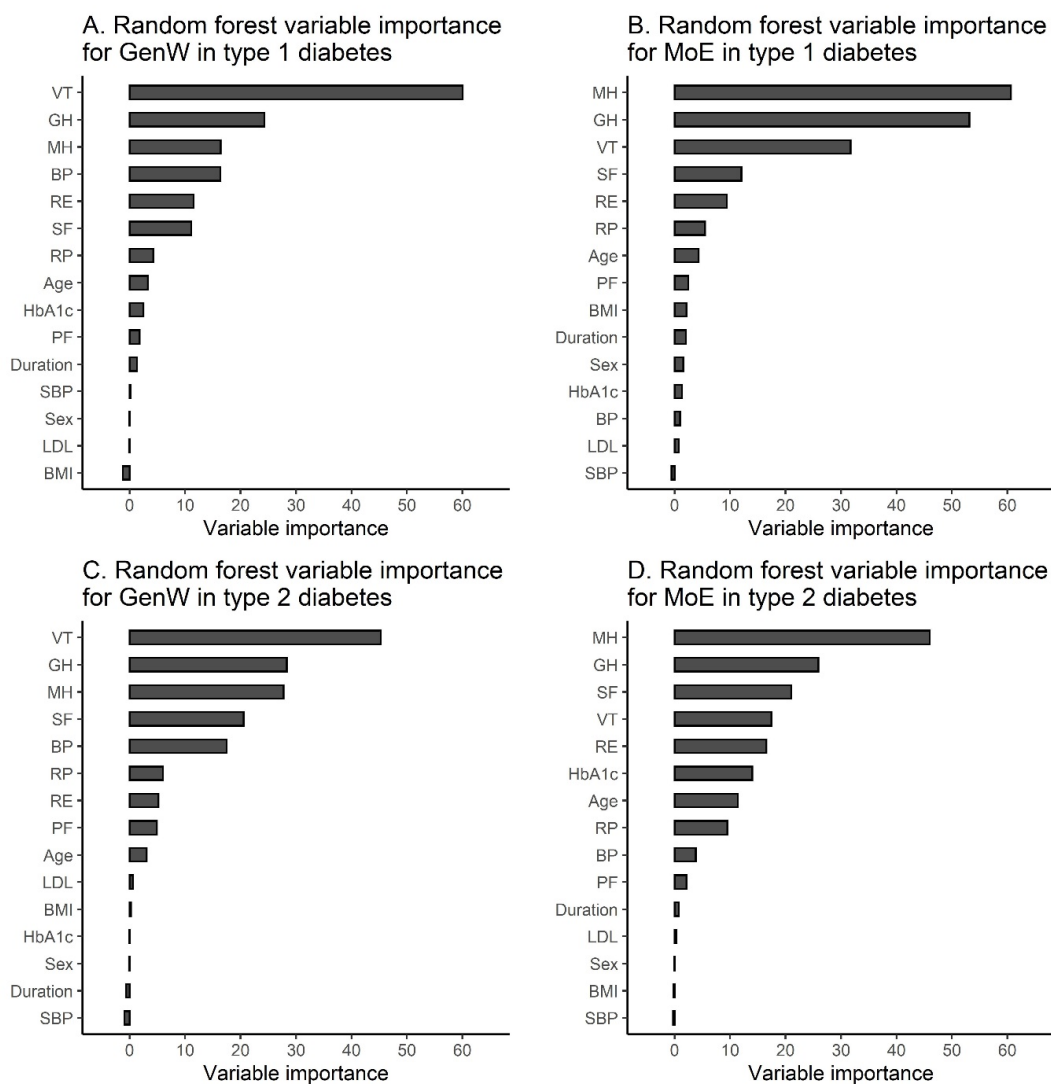
Fig. S2. Spearman's rank correlation between the Diabetes Questionnaire scales and clinical variables in type 2 diabetes

Diabetes Questionnaire scales: GenW: General Wellbeing; MoE: Mood and Energy; FreW: Free of Worries about blood sugar; ManD: Capabilities to Manage your Diabetes; DiEx: Diet and Exercise; NLD: Not Limited by Diabetes; NLBS: Not Limited by Blood Sugar; SuO: Support from Others; SuDC: Support from Diabetes Care; AcDC: Access to Diabetes Care; CoDC: Continuity in Diabetes Care; MDMT: Medical Devices and Medical Treatment.
Clinical variables: BMI: body mass index, SBP: systolic blood pressure, LDL: LDL cholesterol, HbA$_{1c}$: glycated haemoglobin level.

Svedbo Engström et al. A new diabetes questionnaire to add patients' perspectives to diabetes care for adults with type 1 and type 2 diabetes – A nationwide cross-sectional study of associations with generic health-related quality of life and clinical variables

Fig. S3. Variable importance of clinical variables and the SF-36v2 domains as predictors of the Diabetes Questionnaire scales GenW (General Wellbeing) and MoE (Mood and Energy) in type 1 (A and B) and type 2 diabetes (C and D)

Clinical variables: BMI: body mass index, SBP: systolic blood pressure, LDL: LDL cholesterol, HbA$_{1c}$: glycated haemoglobin level.
SF-36v2 domains: PF: physical functioning; RP: role-physical; BP: bodily pain; GH: general health; VT: vitality; SF: social functioning; RE: role-emotional; MH: mental health.

Svedbo Engström et al. A new diabetes questionnaire to add patients' perspectives to diabetes care for adults with type 1 and type 2 diabetes – A nationwide cross-sectional study of associations with generic health-related quality of life and clinical variables

Supplementary tables

Table S1. Crude means and standard deviations for the Diabetes Questionnaire scales and the SF-36v2 domains for participants with type 1 diabetes and those with type 2 diabetes

Diabetes Questionnaire scale	Type 1 diabetes	Type 2 diabetes	p-value	Standardized mean difference, SMD
GenW	59.69 (23.81)	63.76 (24.71)	<0.001	0.168
MoE	64.07 (23.60)	75.19 (22.25)	<0.001	0.485
FreW	54.89 (21.91)	69.03 (22.29)	<0.001	0.640
ManD	63.20 (20.16)	70.48 (19.89)	<0.001	0.364
DiEx	56.66 (24.36)	58.88 (24.08)	0.018	0.092
NLD	75.33 (23.47)	84.14 (21.70)	<0.001	0.390
NLBS	69.97 (26.94)	80.94 (26.84)	<0.001	0.408
SuO	62.32 (23.46)	66.26 (23.71)	<0.001	0.167
SuDC	78.35 (20.29)	77.89 (22.61)	0.574	0.022
AcDC	67.80 (20.73)	71.31 (22.61)	<0.001	0.162
CoDC	80.04 (23.29)	71.42 (27.39)	<0.001	0.339
MDMT	75.40 (21.78)	80.47 (18.39)	<0.001	0.252

Diabetes questionnaire scales: GenW: General Wellbeing; MoE: Mood and Energy; FreW: Free of Worries about blood sugar; ManD: Capabilities to Manage your Diabetes; DiEx: Diet and Exercise; NLD: Not Limited by Diabetes; NLBS: Not Limited by Blood Sugar; SuO: Support from Others; SuDC: Support from Diabetes Care; AcDC: Access to Diabetes Care; CoDC: Continuity in Diabetes Care; MDMT: Medical Devices and Medical Treatment.

Svedbo Engström et al. A new diabetes questionnaire to add patients' perspectives to diabetes care for adults with type 1 and type 2 diabetes – A nationwide cross-sectional study of associations with generic health-related quality of life and clinical variables

Table S2. Clinical and demographic characteristics for non-responders separated for type 1 and type 2 diabetes

Variable	Type 1 diabetes (n=1106)	Type 2 diabetes (n=1116)
Men, %	60.7	58.1
Age, years (SD)	41.2 (15.5)	62.8 (10.9)
Diabetes duration, years (SD)	21.7 (14.0)	8.7 (7.0)
HbA$_{1c}$, mmol/mol (SD)	65.2 (15.1)	54.7 (14.3)
BMI, kg/m^2 (SD)	26.1 (4.6)	30.9 (5.9)
Systolic blood pressure, mmHg (SD)	126.1 (14.0)	134.7 (15.8)
Antihypertensive medication, %	34.6	77.5
LDL-cholesterol, mmol/L (SD)	2.53 (0.79)	2.64 (0.93)
Lipid-lowering medication, %	37.1	60.5
Micro-albuminuria, %	11.4	18.4
Macro-albuminuria, %	5.6	5.0
Retinopathy, %	66.2	30.5
Smoker, %	15.7	18.4
Physical activity, daily, %	20.3	27.1
Diabetes treatment		
Diet alone, %	-	20.1
Oral hypoglycaemic agent alone, %	-	52.5
Insulin alone, %	97.2	8.1
Insulin and oral agent, %	2.3	16.7
Insulin pump users, %	19.9	-

The descriptive statistics are presented as the means and standard deviations (SD) for continuous variables or number and percentages for categorical variables.

Svedbo Engström et al. A new diabetes questionnaire to add patients' perspectives to diabetes care for adults with type 1 and type 2 diabetes – A nationwide cross-sectional study of associations with generic health-related quality of life and clinical variables

Table S3. Spearman's rank correlations with p-values between the Diabetes Questionnaire scale scores and clinical variables in type 1 diabetes

Clinical variable	GenW	MoE	FreW	ManD	DiEx	NLD	NLBS	SuO	SuDC	AcDC	CoDC	MDMT
Age	0.06 (0.0184)	0.19 (<.0001)	0.18 (<.0001)	0.13 (<.0001)	0.14 (<.0001)	0.03 (0.2050)	0.01 (0.8445)	0.05 (0.0875)	0.07 (0.0093)	0.11 (<.0001)	-0.04 (0.1635)	0.17 (<.0001)
Diabetes duration	-0.02 (0.4673)	0.09 (0.0006)	0.13 (<.0001)	0.11 (<.0001)	0.05 (0.0456)	0.04 (0.1981)	-0.02 (0.4678)	-0.01 (0.6936)	-0.03 (0.2024)	-0.00 (0.9883)	0.01 (0.6045)	0.08 (0.0027)
HbA$_{1c}$	-0.12 (<.0001)	-0.12 (<.0001)	-0.16 (<.0001)	-0.25 (<.0001)	-0.21 (<.0001)	-0.07 (0.0073)	-0.12 (<.0001)	-0.08 (0.0101)	-0.07 (0.0070)	-0.05 (0.0542)	0.06 (0.0356)	-0.02 (0.5485)
BMI	-0.02 (0.4601)	0.07 (0.0151)	0.03 (0.2763)	-0.01 (0.6738)	-0.15 (<.0001)	-0.01 (0.6239)	0.02 (0.5767)	-0.01 (0.6620)	-0.03 (0.2568)	-0.00 (0.9175)	0.02 (0.5998)	0.01 (0.7292)
SBP	0.06 (0.0231)	0.12 (<.0001)	0.09 (0.0005)	0.02 (0.5036)	0.07 (0.0072)	0.03 (0.3393)	0.03 (0.2152)	0.03 (0.3092)	0.01 (0.6002)	0.03 (0.2773)	-0.03 (0.3239)	0.03 (0.2610)
LDL	-0.00 (0.9452)	-0.02 (0.4805)	-0.02 (0.4380)	-0.04 (0.1549)	-0.01 (0.8077)	-0.03 (0.2406)	-0.00 (0.9780)	-0.02 (0.5905)	-0.06 (0.0474)	-0.02 (0.5275)	-0.03 (0.2873)	-0.09 (0.0023)

Diabetes questionnaire scales: GenW: General Wellbeing; MoE: Mood and Energy; FreW: Free of Worries about blood sugar; ManD: Capabilities to Manage your Diabetes; DiEx: Diet and Exercise; NLD: Not Limited by Diabetes; NLBS: Not Limited by Blood Sugar; SuO: Support from Others; SuDC: Support from Diabetes Care; AcDC: Access to Diabetes Care; CoDC: Continuity in Diabetes Care; MDMT: Medical Devices and Medical Treatment.
Clinical variables: BMI: body mass index; SBP: systolic blood pressure; LDL: LDL cholesterol; HbA$_{1c}$: glycated haemoglobin level.

Supplemental material
BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance
placed on this supplemental material which has been supplied by the author(s)
BMJ Open

Svedbo Engström et al. A new diabetes questionnaire to add patients' perspectives to diabetes care for adults with type 1 and type 2 diabetes – A nationwide cross-sectional study of associations with generic health-related quality of life and clinical variables

Table S4. Spearman's rank correlations with p-values between the Diabetes Questionnaire scale scores and clinical variables in type 2 diabetes

Clinical variable	GenW	MoE	FreW	ManD	DiEx	NLD	NLBS	SuO	SuDC	AcDC	CoDC	MDMT
Age	0.12 (<.0001)	0.14 (<.0001)	0.16 (<.0001)	0.12 (<.0001)	0.14 (<.0001)	0.07 (0.0061)	0.02 (0.3646)	0.13 (0.0002)	0.04 (0.1926)	0.02 (0.3657)	0.01 (0.6265)	0.07 (0.0089)
Diabetes duration	-0.03 (0.2226)	-0.07 (0.0202)	-0.11 (<.0001)	-0.02 (0.5662)	-0.04 (0.1868)	-0.10 (0.0007)	-0.13 (<.0001)	-0.09 (0.0184)	-0.04 (0.2043)	-0.03 (0.2353)	-0.06 (0.0570)	-0.01 (0.6150)
HbA$_{1c}$	-0.14 (<.0001)	-0.24 (<.0001)	-0.24 (<.0001)	-0.24 (<.0001)	-0.21 (<.0001)	-0.23 (<.0001)	-0.22 (<.0001)	-0.11 (0.0015)	-0.13 (<.0001)	-0.15 (<.0001)	-0.04 (0.1270)	-0.09 (0.0012)
BMI	-0.15 (<.0001)	-0.12 (<.0001)	-0.08 (0.0046)	-0.08 (0.0037)	-0.20 (<.0001)	-0.05 (0.0752)	-0.03 (0.3242)	-0.03 (0.4203)	-0.05 (0.0854)	-0.03 (0.3238)	-0.01 (0.6580)	-0.02 (0.5507)
SBP	0.03 (0.2195)	0.02 (0.5649)	0.01 (0.7496)	0.00 (0.9131)	0.00 (0.8954)	0.04 (0.1082)	0.01 (0.8433)	-0.05 (0.1746)	-0.05 (0.0781)	-0.01 (0.6444)	-0.02 (0.4327)	-0.03 (0.2736)
LDL	-0.07 (0.0151)	-0.04 (0.1773)	-0.04 (0.1310)	0.00 (0.9813)	0.02 (0.4793)	0.02 (0.5751)	0.04 (0.2250)	0.03 (0.4554)	-0.06 (0.0504)	-0.01 (0.7171)	0.02 (0.5061)	0.01 (0.8070)

Diabetes questionnaire scales: GenW: General Wellbeing; MoE: Mood and Energy; FreW: Free of Worries about blood sugar; ManD: Capabilities to Manage your Diabetes;
DiEx: Diet and Exercise; NLD: Not Limited by Diabetes; NLBS: Not Limited by Blood Sugar; SuO: Support from Others; SuDC: Support from Diabetes Care; AcDC:
Access to Diabetes Care; CoDC: Continuity in Diabetes Care; MDMT: Medical Devices and Medical Treatment.
Clinical variables: BMI: body mass index; SBP: systolic blood pressure; LDL: LDL cholesterol; HbA$_{1c}$: glycated haemoglobin level.

Svedbo Engström et al. A new diabetes questionnaire to add patients' perspectives to diabetes care for adults with type 1 and type 2 diabetes – A nationwide cross-sectional study of associations with generic health-related quality of life and clinical variables

Table S5. Spearman's rank correlations with p-values between the Diabetes Questionnaire scales and the SF-36v2 domains in type 1 diabetes

Diabetes Questionnaire scale	SF-36v2 domain							
	PF	**RP**	**BP**	**GH**	**VT**	**RF**	**SF**	**MH**
GenW	0.33 (<.0001)	0.43 (<.0001)	0.43 (<.0001)	0.56 (<.0001)	0.60 (<.0001)	0.43 (<.0001)	0.48 (<.0001)	0.53 (<.0001)
MoE	0.23 (<.0001)	0.40 (<.0001)	0.30 (<.0001)	0.55 (<.0001)	0.57 (<.0001)	0.46 (<.0001)	0.52 (<.0001)	0.60 (<.0001)
FreW	0.17 (<.0001)	0.29 (<.0001)	0.21 (<.0001)	0.46 (<.0001)	0.40 (<.0001)	0.31 (<.0001)	0.38 (<.0001)	0.41 (<.0001)
ManD	0.18 (<.0001)	0.28 (<.0001)	0.20 (<.0001)	0.47 (<.0001)	0.44 (<.0001)	0.29 (<.0001)	0.37 (<.0001)	0.41 (<.0001)
DiEx	0.26 (<.0001)	0.28 (<.0001)	0.23 (<.0001)	0.45 (<.0001)	0.51 (<.0001)	0.32 (<.0001)	0.35 (<.0001)	0.39 (<.0001)
NLD	0.29 (<.0001)	0.37 (<.0001)	0.24 (<.0001)	0.44 (<.0001)	0.34 (<.0001)	0.37 (<.0001)	0.42 (<.0001)	0.38 (<.0001)
NLBS	0.31 (<.0001)	0.39 (<.0001)	0.27 (<.0001)	0.43 (<.0001)	0.37 (<.0001)	0.35 (<.0001)	0.41 (<.0001)	0.36 (<.0001)
SuO	0.10 (0.0017)	0.15 (<.0001)	0.14 (<.0001)	0.29 (<.0001)	0.30 (<.0001)	0.23 (<.0001)	0.29 (<.0001)	0.32 (<.0001)
SuDC	0.15 (<.0001)	0.22 (<.0001)	0.16 (<.0001)	0.31 (<.0001)	0.29 (<.0001)	0.23 (<.0001)	0.27 (<.0001)	0.29 (<.0001)
AcDC	0.13 (<.0001)	0.20 (<.0001)	0.15 (<.0001)	0.30 (<.0001)	0.28 (<.0001)	0.23 (<.0001)	0.26 (<.0001)	0.31 (<.0001)
CoDC	0.01 (0.8176)	0.03 (0.3182)	0.03 (0.3309)	0.08 (0.0027)	0.02 (0.3822)	0.06 (0.0375)	0.06 (0.0297)	0.06 (0.0335)
MDMT	0.06 (0.0240)	0.14 (<.0001)	0.09 (0.0006)	0.30 (<.0001)	0.27 (<.0001)	0.19 (<.0001)	0.26 (<.0001)	0.30 (<.0001)

Diabetes Questionnaire scales: GenW: General Wellbeing; MoE: Mood and Energy; FreW: Free of Worries about blood sugar; ManD: Capabilities to Manage your Diabetes; DiEx: Diet and Exercise; NLD: Not Limited by Diabetes; NLBS: Not Limited by Blood Sugar; SuO: Support from Others; SuDC: Support from Diabetes Care; AcDC: Access to Diabetes Care; CoDC: Continuity in Diabetes Care; MDMT: Medical Devices and Medical Treatment.
SF-36v2 domains: PF: physical functioning; RP: role-physical; BP: bodily pain; GH: general health; VT: vitality; SF: social functioning; RE: role-emotional; MH: mental health.

Svedbo Engström et al. A new diabetes questionnaire to add patients' perspectives to diabetes care for adults with type 1 and type 2 diabetes – A nationwide cross-sectional study of associations with generic health-related quality of life and clinical variables

Table S6. Spearman's rank correlations with p-values between the Diabetes Questionnaire scales and the SF-36v2 domains in type 2 diabetes

Diabetes Questionnaire scale	SF-36v2 domain							
	PF	**RP**	**BP**	**GH**	**VT**	**RF**	**SF**	**MH**
GenW	0.39 (<.0001)	0.44 (<.0001)	0.48 (<.0001)	0.56 (<.0001)	0.60 (<.0001)	0.44 (<.0001)	0.51 (<.0001)	0.53 (<.0001)
MoE	0.41 (<.0001)	0.45 (<.0001)	0.42 (<.0001)	0.57 (<.0001)	0.58 (<.0001)	0.51 (<.0001)	0.54 (<.0001)	0.60 (<.0001)
FreW	0.28 (<.0001)	0.35 (<.0001)	0.34 (<.0001)	0.47 (<.0001)	0.42 (<.0001)	0.38 (<.0001)	0.40 (<.0001)	0.43 (<.0001)
ManD	0.26 (<.0001)	0.32 (<.0001)	0.28 (<.0001)	0.44 (<.0001)	0.45 (<.0001)	0.34 (<.0001)	0.37 (<.0001)	0.42 (<.0001)
DiEx	0.32 (<.0001)	0.33 (<.0001)	0.36 (<.0001)	0.48 (<.0001)	0.51 (<.0001)	0.30 (<.0001)	0.36 (<.0001)	0.38 (<.0001)
NLD	0.38 (<.0001)	0.44 (<.0001)	0.34 (<.0001)	0.46 (<.0001)	0.43 (<.0001)	0.45 (<.0001)	0.47 (<.0001)	0.43 (<.0001)
NLBS	0.34 (<.0001)	0.40 (<.0001)	0.31 (<.0001)	0.40 (<.0001)	0.38 (<.0001)	0.44 (<.0001)	0.46 (<.0001)	0.42 (<.0001)
SuO	0.14 (0.0001)	0.19 (<.0001)	0.25 (<.0001)	0.31 (<.0001)	0.32 (<.0001)	0.20 (<.0001)	0.26 (<.0001)	0.32 (<.0001)
SuDC	0.14 (<.0001)	0.21 (<.0001)	0.21 (<.0001)	0.26 (<.0001)	0.25 (<.0001)	0.21 (<.0001)	0.26 (<.0001)	0.28 (<.0001)
AcDC	0.22 (<.0001)	0.26 (<.0001)	0.28 (<.0001)	0.32 (<.0001)	0.31 (<.0001)	0.26 (<.0001)	0.29 (<.0001)	0.32 (<.0001)
CoDC	0.07 (0.0130)	0.10 (0.0006)	0.11 (0.0001)	0.16 (<.0001)	0.13 (<.0001)	0.11 (0.0002)	0.13 (<.0001)	0.14 (<.0001)
MDMT	0.13 (<.0001)	0.20 (<.0001)	0.18 (<.0001)	0.24 (<.0001)	0.24 (<.0001)	0.22 (<.0001)	0.26 (<.0001)	0.28 (<.0001)

Diabetes Questionnaire scales: GenW: General Wellbeing; MoE: Mood and Energy; FreW: Free of Worries about blood sugar; ManD: Capabilities to Manage your Diabetes; DiEx: Diet and Exercise; NLD: Not Limited by Diabetes; NLBS: Not Limited by Blood Sugar; SuO: Support from Others; SuDC: Support from Diabetes Care; AcDC: Access to Diabetes Care; CoDC: Continuity in Diabetes Care; MDMT: Medical Devices and Medical Treatment.
SF-36v2 domains: PF: physical functioning; RP: role-physical; BP: bodily pain; GH: general health; VT: vitality; SF: social functioning; RE: role-emotional; MH: mental health.

Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance placed on this supplemental material which has been supplied by the author(s)

BMJ Open

Svedbo Engström et al. A new diabetes questionnaire to add patients' perspectives to diabetes care for adults with type 1 and type 2 diabetes – A nationwide cross-sectional study of associations with generic health-related quality of life and clinical variables

Table S7. Least square mean estimates and 95% confidence intervals for the Diabetes Questionnaire scales in three glycated haemoglobin (HbA_{1c}) groups for type 1 and type 2 diabetes

Diabetes Questionnaire scale	Type 1 diabetes						Type 2 diabetes					
	Unadjusted analysis			Adjusted analysis			Unadjusted analysis			Adjusted analysis		
	HbA_{1c} <52 mmol/mol	HbA_{1c} 52-69 mmol/mol	HbA_{1c} ≥70 mmol/mol	HbA_{1c} <52 mmol/mol	HbA_{1c} 52-69 mmol/mol	HbA_{1c} ≥70 mmol/mol	HbA_{1c} <52 mmol/mol	HbA_{1c} 52-69 mmol/mol	HbA_{1c} ≥70 mmol/mol	HbA_{1c} <52 mmol/mol	HbA_{1c} 52-69 mmol/mol	HbA_{1c} ≥70 mmol/mol
GenW	64.33 (63.46-65.20)	59.27 (58.74-59.79)	56.34 (55.49-57.19)	51.11 (49.14-53.07)	47.23 (45.44-49.01)	45.66 (43.80-47.53)	65.97 (65.41-66.54)	62.92 (62.24-63.60)	54.26 (52.90-55.62)	63.63 (62.10-65.15)	62.81 (61.29-64.32)	56.81 (54.85-58.78)
MoE	67.15 (66.29-68.01)	65.14 (64.62-65.66)	58.32 (57.48-59.16)	57.77 (55.87-59.66)	56.14 (54.41-57.86)	49.75 (47.96-51.54)	79.24 (78.74-79.74)	72.75 (72.15-73.35)	61.02 (59.80-62.25)	77.12 (75.78-78.46)	72.23 (70.91-73.56)	60.73 (58.99-62.46)
FreW	58.21 (57.41-59.01)	56.09 (55.61-56.58)	48.72 (47.96-49.49)	55.28 (53.51-57.05)	52.22 (50.61-53.82)	46.09 (44.42-47.75)	73.07 (72.57-73.57)	66.72 (66.12-67.32)	54.82 (53.62-56.03)	70.39 (69.03-71.75)	65.51 (64.16-66.86)	54.66 (52.90-56.42)
ManD	70.05 (69.33-70.78)	63.88 (63.45-64.32)	55.09 (54.40-55.79)	64.84 (63.20-66.47)	59.71 (58.23-61.19)	51.49 (49.95-53.03)	74.12 (73.67-74.56)	67.74 (67.20-68.28)	60.35 (59.26-61.43)	71.53 (70.33-72.74)	66.65 (65.46-67.85)	60.07 (58.51-61.63)
DiEx	63.95 (63.07-64.84)	56.52 (55.98-57.06)	50.18 (49.32-51.04)	54.44 (52.50-56.37)	50.59 (48.83-52.35)	45.40 (43.57-47.23)	62.48 (61.92-63.03)	55.86 (55.20-56.52)	50.13 (48.80-51.47)	57.97 (56.54-59.40)	55.31 (53.91-56.72)	52.85 (51.02-54.68)
NLD	76.79 (75.93-77.66)	76.59 (76.07-77.11)	70.75 (69.92-71.58)	68.78 (66.84-70.71)	70.09 (68.33-71.85)	64.26 (62.44-66.09)	87.94 (87.46-88.43)	81.82 (81.23-82.40)	71.54 (70.37-72.71)	83.17 (81.79-84.55)	78.57 (77.21-79.94)	69.61 (67.83-71.38)
NLBS	74.54 (73.54-75.54)	70.33 (69.73-70.93)	64.60 (63.63-65.58)	64.39 (62.08-66.69)	61.14 (59.05-63.23)	57.16 (54.98-59.33)	85.59 (84.98-86.20)	77.91 (77.18-78.64)	65.85 (64.37-67.33)	81.69 (79.96-83.43)	75.53 (73.81-77.25)	65.42 (63.19-67.65)
SuO	66.33 (65.31-67.35)	61.93 (61.32-62.54)	59.61 (58.63-60.59)	63.01 (60.74-65.28)	59.84 (57.79-61.88)	58.00 (55.86-60.14)	68.56 (67.83-69.29)	65.70 (64.89-66.51)	57.12 (55.49-58.74)	68.47 (66.77-70.16)	66.84 (65.20-68.48)	57.40 (55.25-59.56)
SuDC	79.87 (79.13-80.61)	79.34 (78.89-79.79)	74.41 (73.70-75.13)	77.71 (76.01-79.41)	77.27 (75.73-78.81)	73.04 (71.44-74.64)	80.06 (79.54-80.58)	76.49 (75.87-77.11)	70.89 (69.64-72.14)	77.76 (76.38-79.14)	75.23 (73.86-76.59)	72.46 (70.69-74.24)
AcDC	69.08 (68.32-69.84)	68.52 (68.06-68.98)	64.78 (64.05-65.51)	64.69 (62.96-66.42)	64.90 (63.33-66.47)	62.54 (60.91-64.17)	73.64 (73.12-74.16)	69.68 (69.06-70.30)	64.39 (63.14-65.64)	70.33 (68.92-71.75)	68.12 (66.72-69.52)	65.20 (63.37-67.02)

Svedbo Engström et al. A new diabetes questionnaire to add patients' perspectives to diabetes care for adults with type 1 and type 2 diabetes – A nationwide cross-sectional study of associations with generic health-related quality of life and clinical variables

Diabetes Questionnaire scale	Type 1 diabetes						Type 2 diabetes					
	Unadjusted analysis			Adjusted analysis			Unadjusted analysis			Adjusted analysis		
	HbA$_{1c}$ <52 mmol/mol	HbA$_{1c}$ 52-69 mmol/mol	HbA$_{1c}$ ≥70 mmol/mol	HbA$_{1c}$ <52 mmol/mol	HbA$_{1c}$ 52-69 mmol/mol	HbA$_{1c}$ ≥70 mmol/mol	HbA$_{1c}$ <52 mmol/mol	HbA$_{1c}$ 52-69 mmol/mol	HbA$_{1c}$ ≥70 mmol/mol	HbA$_{1c}$ <52 mmol/mol	HbA$_{1c}$ 52-69 mmol/mol	HbA$_{1c}$ ≥70 mmol/mol
CoDC	78.03 (77.13-78.92)	80.76 (80.22-81.29)	80.05 (79.20-80.90)	74.89 (72.88-76.90)	77.58 (75.75-79.41)	76.08 (74.18-77.97)	72.45 (71.77-73.12)	70.90 (70.11-71.70)	67.72 (66.11-69.33)	72.22 (70.34-74.09)	70.45 (68.59-72.31)	68.43 (66.01-70.84)
MDMT	77.14 (76.34-77.94)	75.78 (75.30-76.26)	72.81 (72.04-73.58)	72.21 (70.41-74.01)	71.74 (70.11-73.38)	70.14 (68.45-71.84)	82.46 (82.02-82.90)	78.80 (78.29-79.31)	76.45 (75.41-77.48)	81.42 (80.23-82.62)	78.79 (77.62-79.96)	76.64 (75.11-78.17)

Table S7 continued. GenW: General Wellbeing; MoE: Mood and Energy; FreW: Free of Worries about blood sugar; ManD: Capabilities to Manage your Diabetes; DiEx: Diet and Exercise; NLD: Not Limited by Diabetes; NLBS: Not Limited by Blood Sugar; SuO: Support from Others; SuDC: Support from Diabetes Care; AcDC: Access to Diabetes Care; CoDC: Continuity in Diabetes Care; MDMT: Medical Devices and Medical Treatment