

SUPPLEMENTARY DATA

Supplementary Table 1. General Characteristics of Participants According to Baseline Diabetes Status: Study of Health in Pomerania, 1997 – 2006.

	No Diabetes (n=2280)	Incident T2 Diabetes (n=79)	T2 Diabetes, controlled (n=80)	T2 Diabetes, uncontrolled (n=72)	T1 Diabetes, controlled (n=43)	T1 Diabetes, uncontrolled (n=72)	P-value*
Age (years)	44±14	57±12	61±10	58±10	39±13	40±13	<0.0001
Female (vs. Male)	54%	38%	39%	32%	49%	51%	<0.0001
Rural (vs. Urban)	39%	32%	46%	44%	56%	53%	0.01
Low Education (<10 yrs)	25%	48%	56%	61%	11%	26%	
Intermediate Education (10 yrs)	54%	41%	30%	22%	56%	61%	
High Education (>10 yrs)	21%	11%	14%	17%	33%	13%	<0.0001
Current Smoker	26%	27%	19%	11%	37%	39%	
Former Smoker	33%	34%	45%	47%	28%	25%	
Never Smoker	59%	61%	64%	58%	65%	64%	0.004
Physician visit in previous year	81%	84%	86%	85%	81%	74%	0.43
Dentist visit in previous year	93%	87%	95%	93%	93%	89%	0.28
HbA1c (%)	5.16±0.52	5.83±0.46	6.15±0.73	8.32±1.14	6.24±0.56	8.33±1.21	<0.0001
Δ-HbA1c (%)	-0.00±0.52	0.94±1.17	0.14±0.97	-0.86±1.71	0.60±1.41	-0.40±0.71	<0.0001
Mean PD (mm)	2.40±0.61	2.75±0.82	2.65±0.68	2.88±0.85	2.35±0.75	2.54±0.67	<0.0001
Mean AL (mm)	2.27±1.55	3.46±1.67	3.66±1.69	3.83±1.92	2.17±1.56	2.48±1.80	<0.0001
%AL≥5 mm (%)	13±22	27±27	30±29	34±32	12±21	15±24	<0.0001
Moderate Periodontitis**	35%	39%	49%	43%	26%	32%	
Severe Periodontitis**	16%	32%	34%	38%	23%	21%	<0.0001
Baseline Tooth Count	22±0.1	19±0.7	19±0.7	17±0.7	24±0.9	21±0.7	<0.0001
Incident Tooth loss	0.7±1.5	1.4±2.3	1.16±1.7	1.8±2.4	0.88±2.2	2.0±3.3	<0.0001
Systolic blood pressure (mmHg)	132±19	148±24	149±20	151±20	126±15	132±21	<0.0001
Waist-to-hip ratio	0.85±0.09	0.93±0.07	0.91±0.08	0.94±0.09	0.83±0.09	0.85±0.09	<0.0001
BMI (kg/m ²)	26.5±4.4	31.4±4.8	30.1±4.2	31.1±5.1	25.9±4.5	26.5±4.6	<0.0001
hs-CRP (mg/L)	2.38±4.2	3.76±4.39	3.25±5.12	3.63±4.16	3.32±1.77	3.90±3.78	0.0001
White Blood Cell Count	6.6±0.04	6.8±0.21	6.7±0.21	7.0±0.22	6.8±0.29	7.2±0.22	0.05
Urinary deoxyypyridinoline excretion (nmol/mmol creatinine)	5.4±0.06	6.3±0.3	5.4±0.3	5.3±0.3	NA	NA	0.03

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Medication use							
Insulin	NA	NA	8%	28%	100%	100%	
Glucose Lowering Medications	NA	NA	34%	40%	0%	0%	
Biguanides	NA	NA	24%	25%	0%	0%	
Sulfonamides	NA	NA	18%	25%	0%	0%	

* p for any difference arising from ANOVA for continuous variables (5 d.f.) and Chi-Square test for categorical variables.

** Periodontitis defined according to the joint CDC/AAP case definition²⁹

Controlled diabetes defined as HbA1c < 7.0%

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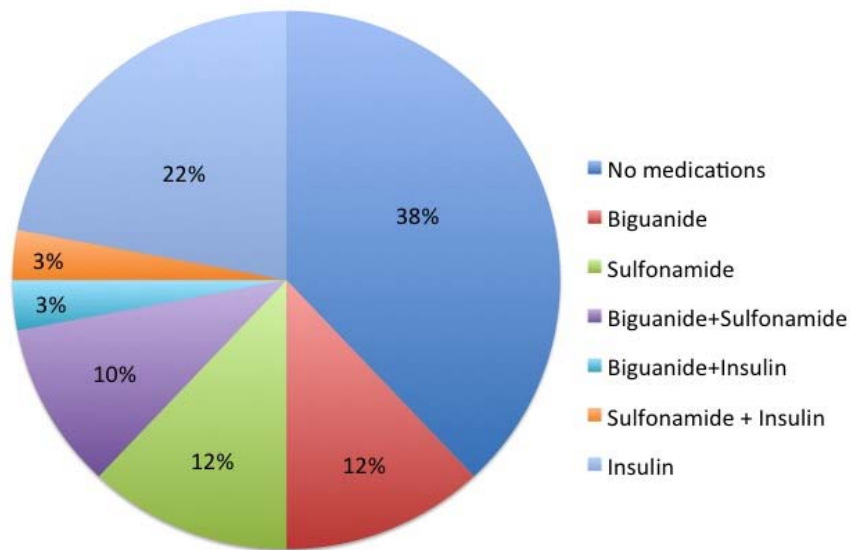
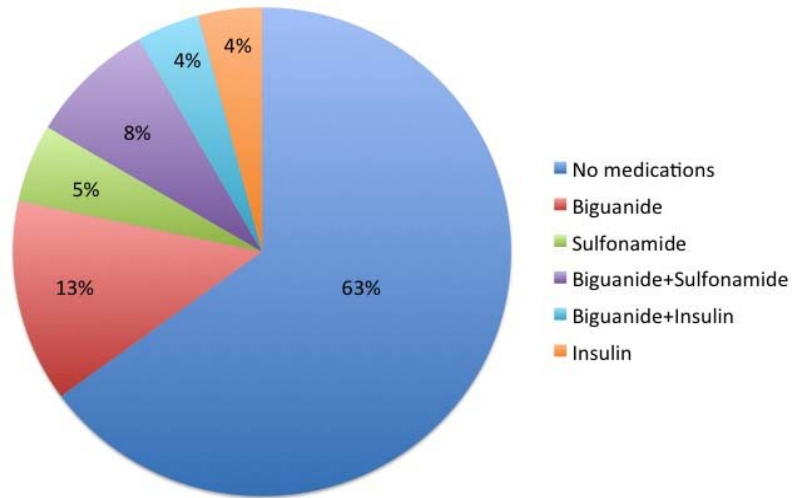
Supplementary Table 2. Mean baseline probing depth and attachment loss levels according to diabetes and tooth loss status during five-year follow-up. Study of Health in Pomerania, 1997 – 2006.

	Longitudinal tooth status		P-value*
	Retained	Lost	
Diabetes Free			
Mean CAL, mm	1.90 ± 1.54	4.75 ± 2.52	<0.001
Mean PD, mm	2.29 ± 0.70	3.41 ± 1.36	<0.001
Incident Type 2 Diabetes			
Mean CAL, mm	2.98 ± 1.69	5.42 ± 1.97	<0.001
Mean PD, mm	2.55 ± 0.84	3.65 ± 1.41	<0.001
Controlled Type 2 Diabetes			
Mean CAL, mm	3.22 ± 1.64	5.48 ± 1.65	<0.001
Mean PD, mm	2.54 ± 0.79	3.46 ± 1.00	0.005
Uncontrolled Type 2 Diabetes			
Mean CAL, mm	3.07 ± 1.81	6.53 ± 2.49	<0.001
Mean PD, mm	2.61 ± 0.80	4.07 ± 1.38	<0.001
Controlled Type 1 Diabetes			
Mean CAL, mm	1.93 ± 1.68	5.74 ± 2.54	<0.001
Mean PD, mm	2.24 ± 0.78	4.22 ± 2.14	<0.001
Uncontrolled Type 1 Diabetes			
Mean CAL, mm	1.89 ± 1.53	3.73 ± 1.70	<0.001
Mean PD, mm	2.36 ± 0.69	2.91 ± 0.90	<0.001

Multilevel linear regression, crude.

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Supplementary Figure 1. Distribution of Baseline Diabetes Medications among Patients with Controlled (A) and Uncontrolled (B) Type 2 Diabetes Mellitus in the Study of Health in Pomerania (SHIP). N=80 patients had controlled T2DM and n=72 had uncontrolled T2DM.



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Supplementary Figure 2. Risk Ratios and 95% confidence intervals for losing more than 1 tooth during five years of follow-up in the Study of Health in Pomerania (SHIP). Adjusted for age, gender, smoking, waist-to-hip ratio and education. Risk ratios were calculated using Poisson regression with a robust error variance²⁰.

