

## SUPPLEMENTARY DATA

**Supplementary Table 1. Grades of severity of acute pancreatitis (15). Reproduced from Gut, Banks PA, et al. 62, 102–111, copyright 2013 with permission from BMJ Publishing Group Ltd.**

Severity of acute pancreatitis	Characteristics of the severity grade
Mild	No organ failure No local or systemic complications
Moderate	Organ failure that resolves within 48 hours (transient organ failure), and/or Local or systemic complications without persistent organ failure
Severe	Persistent organ failure (>48 hours) Single organ failure Multiple organ failure

SUPPLEMENTARY DATA

**Supplementary Table 2. Association of baseline characteristics with estimated treatment ratios for lipase and amylase to placebo at 3 years.** Full analysis set. Tests for interaction analyzed interaction between liraglutide and lipase and amylase levels within baseline characteristic groups. Adjusted for multiple comparisons using Bonferroni method.  $p<0.0025$  considered significant.

	Lipase		Amylase	
	Liraglutide–placebo ratio (95% CI)	$p$ –interaction	Liraglutide–placebo ratio (95% CI)	$p$ –interaction
Age (years)				
≤60	1.26 (1.22–1.31)	0.30	1.08 (1.06–1.10)	0.33
>60	1.29 (1.26–1.32)		1.07 (1.05–1.09)	
Gender	1.28 (1.25–1.32)	0.70	1.07 (1.05–1.08)	0.51
Male				
Female	1.27 (1.23–1.31)		1.08 (1.06–1.10)	
BMI ( $\text{kg}/\text{m}^2$ )	1.28 (1.24–1.32)	0.66	1.07 (1.05–1.09)	0.40
≤30				
>30	1.28 (1.25–1.32)		1.07 (1.06–1.09)	
HbA <sub>1c</sub> (%)	1.26 (1.23–1.30)	0.32	1.06 (1.04–1.08)	0.25
≤8.3				
>8.3	1.30 (1.26–1.34)		1.08 (1.06–1.10)	
Diabetes duration (years)	1.27 (1.24–1.31)	0.55	1.07 (1.05–1.09)	0.20
≤11				
>11	1.28 (1.25–1.32)		1.08 (1.06–1.10)	
Lipase at baseline	1.29 (1.26–1.31)		1.07 (1.06–1.09)	
≤ULN				
>ULN	1.21 (1.15–1.28)	0.012	1.06 (1.02–1.09)	0.0002
≥3 x ULN	1.49 (1.24–1.78)		1.18 (1.06–1.32)	
Amylase at baseline	1.27 (1.25–1.30)		1.07 (1.06–1.08)	
≤ULN				
>ULN	1.31 (1.23–1.39)	0.019	1.08 (1.04–1.12)	0.016
≥3 x ULN	2.66 (1.72–4.10)		1.75 (1.34–2.27)	

SUPPLEMENTARY DATA

eGFR-MDRD (mL/min/1.73 m <sup>2</sup> )				
<30	1.24 (1.07–1.43)		1.14 (1.04–1.24)	
30–59	1.23 (1.18–1.29)	0.28	1.05 (1.03–1.08)	
60–89	1.28 (1.24–1.32)		1.08 (1.06–1.10)	
≥90	1.31 (1.26–1.35)		1.07 (1.05–1.09)	0.75
Glucose-lowering therapy	1.18 (1.05–1.32)		1.03 (0.96–1.10)	
Not on insulin/OAD	1.28 (1.18–1.38)		1.09 (1.04–1.14)	
Insulin only	1.26 (1.22–1.29)	0.012	1.06 (1.04–1.08)	0.091
OAD only	1.32 (1.28–1.37)		1.09 (1.07–1.11)	
Smoking	1.24 (1.17–1.32)		1.06 (1.02–1.10)	
Current	1.28 (1.25–1.32)	0.57	1.08 (1.06–1.10)	0.0068
Previous	1.28 (1.25–1.33)		1.07 (1.05–1.09)	
Never				
History of acute/chronic pancreatitis				
No	1.28 (1.26–1.31)		1.07 (1.06–1.09)	
Yes	1.21 (1.08–1.36)	0.38	1.07 (1.00–1.15)	0.47
History of biliary disease	1.28 (1.25–1.31)		1.07 (1.05–1.08)	
No	1.29 (1.22–1.36)	0.89	1.09 (1.06–1.13)	0.45
Yes				
Hypertriglyceridemia	1.29 (1.25–1.33)		1.07 (1.05–1.09)	
No	1.27 (1.23–1.30)	0.72	1.07 (1.06–1.09)	0.99
Yes				
Hypercalcemia	1.28 (1.25–1.31)		1.07 (1.06–1.09)	
No	1.25 (1.14–1.38)	0.45	1.05 (0.99–1.11)	0.48
Yes				

## SUPPLEMENTARY DATA

Prior cardiovascular disease				
No	1.28 (1.23–1.34)	0.78	1.07 (1.04–1.10)	0.42
Yes	1.28 (1.25–1.31)		1.07 (1.06–1.09)	
Metformin use	1.26 (1.21–1.32)		1.06 (1.04–1.09)	
No metformin		0.89	1.07 (1.06–1.09)	0.95
Metformin	1.28 (1.26–1.31)			
Sulfonylurea use	1.27 (1.23–1.31)		1.07 (1.05–1.09)	0.64
No sulfonylurea		0.69	1.08 (1.06–1.10)	
Sulfonylurea	1.29 (1.25–1.33)			
Thiazolidinedione use	1.28 (1.26–1.31)		1.07 (1.06–1.09)	
No thiazolidinedione		0.79	1.06 (1.01–1.11)	0.65
Thiazolidinedione	1.24 (1.15–1.35)			
Insulin use	1.25 (1.22–1.29)		1.06 (1.04–1.08)	0.13
No insulin		0.0082	1.09 (1.07–1.11)	
Insulin	1.32 (1.28–1.36)			
Diuretic use	1.26 (1.21–1.32)		1.06 (1.04–1.09)	0.95
No diuretic		0.89	1.07 (1.06–1.09)	
Diuretic	1.28 (1.26–1.31)			

BMI, body mass index; CI, confidence interval; eGFR-MDRD, estimated glomerular filtration rate, calculated using the Modification of Diet in Renal Disease study equation; OAD, oral antidiabetic drug; ULN, upper limit of normal.

## SUPPLEMENTARY DATA

**Supplementary Table 3. Characteristics of confirmed acute pancreatitis events.** Event Adjudication Committee-confirmed acute pancreatitis index events (full analysis set). Index events with an Event Adjudication Committee onset date from randomization to follow-up are included.

	Liraglutide		Placebo	
	E	%	E	%
Number of events	19	100.0	31	100.0
Severe, acute, upper abdominal pain	18	94.7	31	100.0
Elevated blood levels of pancreatic enzymes	13	68.4	27	87.1
Characteristics imaging finding	11	57.9	17	54.8
Number of criteria fulfilled				
0	0	0	0	0
1	0	0	0	0
2	15	78.9	18	58.1
3	4	21.1	13	41.9

%, proportion of events; E, number of events

## SUPPLEMENTARY DATA

**Supplementary Table 4 Reasons for seeking adjudication of suspected acute pancreatitis events that were not confirmed by adjudication.** Data are for events not confirmed by the Event Adjudication Committee, based on a review of source documents by the trial sponsor.

	Liraglutide		Placebo	
	E	%	E	%
Events sent for adjudication	50	100.0	21	100.0
Primary reason for seeking adjudication				
Abdominal pain	20	40.0	14	66.7
Elevated pancreatic enzymes	20	40.0	7	33.3
Abdominal pain and elevated pancreatic enzymes	3	6.0	0	0.0
Incidental imaging finding	1	2.0	0	0.0
Other	3	6.0	0	0.0
Information not available	3	6.0	0	0.0

%, proportion of events; E, number of events

## SUPPLEMENTARY DATA

**Supplementary Table 5. Acute pancreatitis parameter analysis of events not confirmed by adjudication.** Data are for events not confirmed by the Event Adjudication Committee, based on a review of source documents by the trial sponsor. \*Severe upper abdominal pain; †computed tomography scan, magnetic resonance imaging or ultrasound scan.

Parameter		Liraglutide		Placebo	
		E	%	E	%
Abdominal pain	Information on abdominal pain reported	27	54.0	14	66.7
	Of those, pain typical for acute pancreatitis*	6	22.2	3	21.4
Pancreatic enzymes (lipase, amylase)	Lipase and/or amylase reported	43	86.0	22	100
	Of those:				
	Lipase and/or amylase >ULN	38	88.4	18	81.8
	Lipase and/or amylase $\geq 3 \times$ ULN	23	53.5	10	45.5
Pancreatic imaging	Any imaging procedure performed†	39	78.0	18	85.7
	Of those, number of imaging procedures performed:				
	1	28	71.8	14	77.8
	2	11	28.2	4	22.2
	Results for those with pancreatic imaging performed:				
	Results show no sign of acute pancreatitis	30	76.9	11	61.1
	Results are indeterminate	8	20.5	6	33.3
	Results are compatible with acute pancreatitis	1	2.6	1	5.6

%, proportion of events; E, number of events; ULN, upper limit of normal.

## SUPPLEMENTARY DATA

**Supplementary Table 6. Adjudication of suspected acute pancreatitis events not confirmed by adjudication.** Data are for events not confirmed by the Event Adjudication Committee. Characteristics of the events displayed were assessed during a review of source documents by the trial sponsor.  
 \*Endoscopic retrograde cholangiopancreatography-related event in a patient diagnosed with pancreatic cancer.

		Liraglutide		Placebo	
		E	%	E	%
Number of parameters available for the adjudication process	0	3	6.0	0	0.0
	1	4	8.0	1	4.8
	2	17	34.0	8	38.1
	3	26	52.0	12	57.1
Diagnostic criteria fulfilled	0	20	40.0	8	38.1
	1	6	12.0	2	9.5
	1	23	46.0	9	42.9
	1	1	2.0	1	4.8
	2	0	0.0	1*	4.8
	3	0	0.0	0	0.0

ULN, upper limit of normal.

## SUPPLEMENTARY DATA

**Supplementary Table 7. Confirmed pancreatitis events.** Event Adjudication Committee-confirmed pancreatitis with onset from randomization to follow-up (full analysis set). From New England Journal of Medicine, Marso SP, Daniels GH, Brown-Frandsen K, Kristensen P, Mann JF, Nauck MA, Nissen SE, Pocock S, Poulter NR, Ravn LS, Steinberg WM, Stockner M, Zinman B, Bergenstal RM, Buse JB, Liraglutide and cardiovascular outcomes in type 2 diabetes, 375, 311–322. Copyright © 2016 Massachusetts Medical Society. Reprinted with permission from Massachusetts Medical Society. (13).

	Liraglutide			Placebo		
	N	E	R	N	E	R
Number of subjects	4668			4672		
Patient years of observation	17,822			17,741		
Number of events	18	19	–	25	33	–
Chronic pancreatitis	0	0	–	2	2	–
Acute pancreatitis	18	19	1.1	23	31	1.7
<b>Severity of acute pancreatitis by modified Atlanta criteria (15), N (%)</b>						
Mild acute pancreatitis	16 (88.9)	17 (89.5)	–	21 (91.3)	26 (83.9)	–
Moderate acute pancreatitis	0 (0.0)	0 (0.0)	–	3 (13.0)	4 (12.9)	–
Severe acute pancreatitis	2 (11.1)	2 (10.5)	–	1 (4.3)	1 (3.2)	–
Hospitalizations for acute pancreatitis	17 (94.4)	18 (94.7)	–	19 (82.6)	25 (80.6)	–

E, number of events; N, number of subjects, R, event rate per 1,000 patient-years of observation. Patients number 21 and 32 in the placebo arm (see Supplementary Table 4) had events of different severity and are therefore included in the relevant rows describing severity of acute pancreatitis events

SUPPLEMENTARY DATA

**Supplementary Table 8. Individual cases of acute pancreatitis identified in patients randomized to liraglutide or placebo.** \*Subject days of exposure/observation during the trial. Gallstone disease was ascertained by imaging and by levels of ALT and/or AST  $\geq 3 \times$  ULN. Information on the presence of gallstones (yes/no) was available for all events of acute pancreatitis. Presence of gallstones was confirmed for 7/18 patients in the liraglutide arm and 10/23 patients in the placebo arm (Chi square,  $p=0.81$ , post hoc). Presence of gallstones was confirmed/suggested by imaging in 7 and 11 events with liraglutide and placebo treatment, respectively. ALT and/or AST  $\geq 3 \times$  UNL was observed in 1 and 2 events in the liraglutide and placebo arms, respectively. Patient numbers are randomly assigned and not linked to their actual study identification number.

Patient number	Study day of acute pancreatitis / days since last dose	Age (years) / sex / BMI (kg/m <sup>2</sup> )	Diagnostic criteria fulfilled (✓=yes, NF=not fulfilled)			Severity by modified Atlanta criteria (15)	Total exposure to liraglutide or placebo / total observation time (days)*	Signs of gallstone disease at time of event
			Ab. pain	Enzymes	Imaging			
<b>Patients randomized to liraglutide</b>								
1	710 / 637	72 / F / 41.0	✓	✓	✓	Mild	73 / 1499	Yes
2	724 / 634	74 / F / 37.2	✓	✓	NF	Mild	75 / 1316	No
3	197 / 30	68 / M / 31.9	✓	NF	✓	Mild	166 / 1409	No
4	195 / 1	68 / F / 34.7	✓	NF	✓	Mild	194 / 1319	No
5	196 / 1	76 / M / 33.1	✓	✓	NF	Mild	194 / 1421	No
5	341 / 146	76 / M / 33.1	✓	NF	✓	Mild	194 / 1421	Yes
6	777 / 1	64 / M / 34.7	✓	NF	✓	Mild	777 / 1319	No
7	566 / 1	75 / M / 33.0	✓	✓	NF	Mild	806 / 1680	Yes
8	956 / 1	63 / M / 43.4	✓	✓	✓	Severe	954 / 1318	Yes
9	439 / 1	65 / M / 31.4	✓	NF	✓	Mild	1122 / 1352	No

SUPPLEMENTARY DATA

10	1307 / 103	68 / M / 32.1	✓	✓	NF	Mild	1204 / 1507	Yes
11	606 / 2	59 / F / 29.7	✓	✓	NF	Mild	1239 / 1328	No
12	685 / 1	63 / F / 41.9	✓	✓	NF	Mild	1290 / 1328	Yes
13	1031 / 1	63 / M / 27.6	✓	✓	NF	Mild	1297 / 1455	No
14	1304 / 1	65 / M / 28.2	✓	✓	✓	Mild	1308 / 1404	Yes
15	896 / 1	54 / F / 28.7	✓	✓	NF	Severe	1369 / 1404	No
16	1352 / 1	58 / M / 39.5	✓	✓	NF	Mild	1372 / 1496	No
17	1482 / 1	66 / M / 32.0	NF	✓	✓	Mild	1406 / 1521	No
18	1485 / 28	60 / M / 37.3	✓	✓	✓	Mild	1458 / 1493	No

**Patients randomized to placebo**

19	47 / 1	69 / M / 29.7	✓	✓	✓	Mild	46 / 1486	Yes
20	79 / 6	59 / M / 60.4	✓	NF	✓	Moderate	73 / 1492	No
21	125 / 1	68 / M / 30.7	✓	✓	✓	Moderate	124 / 1505	Yes
21	624 / 499	68 / M / 30.7	✓	✓	✓	Mild	124 / 1505	Yes
22	216 / 9	67 / F / 43.0	✓	✓	NF	Mild	206 / 447	No
23	744 / 508	77 / M / 37.3	✓	✓	NF	Mild	303 / 1335	No
24	897 / 532	70 / M / 25.9	✓	✓	NF	Mild	365 / 1685	Yes
24	1513 / 1148	70 / M / 25.9	✓	✓	✓	Mild	365 / 1685	Yes

SUPPLEMENTARY DATA

25	501 / 1	60 / F / 42.3	✓	✓	✓	Severe	500 / 557	Yes
26	779 / 186	63 / F / 45.6	✓	✓	NF	Mild	592 / 815	No
27	517 / 1	52 / F / 24.4	✓	✓	NF	Mild	664 / 1327	No
28	735 / 1	63 / M / 35.9	✓	✓	✓	Mild	735 / 1314	No
28	1249 / 514	63 / M / 35.9	✓	✓	✓	Mild	735 / 1314	No
29	481 / 1	75 / M / 31.2	✓	NF	✓	Mild	761 / 1576	No
30	806 / 1	59 / M / 28.4	✓	✓	✓	Mild	807 / 1317	Yes
30	1173 / 366	59 / M / 28.4	✓	✓	NF	Mild	807 / 1317	Yes
31	914 / 1	57 / M / 32.4	✓	✓	✓	Mild	914 / 1574	Yes
31	1072 / 158	57 / M / 32.4	✓	✓	NF	Mild	914 / 1574	No
32	928 / 1	54 / M / 26.7	✓	✓	✓	Moderate	928 / 1369	No
32	1208 / 43	54 / M / 26.7	✓	✓	NF	Mild	928 / 1369	No
32	971 / 280	54 / M / 26.7	✓	NF	✓	Moderate	928 / 1369	No
33	882 / 1	55 / M / 34.2	✓	NF	✓	Mild	988 / 1320	No
34	1049 / 1	66 / M / 29.0	✓	✓	NF	Mild	1049 / 1435	No
35	1065 / 1	58 / M / 31.9	✓	✓	NF	Mild	1073 / 1310	No
36	1292 / 205	57 / F / 35.9	✓	✓	✓	Mild	1078 / 1505	Yes
37	434 / 1	64 / M /	✓	✓	✓	Mild	1259 / 1582	Yes

## SUPPLEMENTARY DATA

		33.9						
38	207 / 1	62 / M / 28.2	✓	✓	✓	Mild	1269 / 1320	Yes
39	1299 / 13	65 / M / 28.9	✓	✓	NF	Mild	1287 / 1322	No
40	1385 / 1	70 / F / 32.8	✓	✓	NF	Mild	1385 / 1492	Yes
40	1392 / 6	70 / F / 32.8	✓	✓	NF	Mild	1385 / 1492	Yes
41	45 / 1	59 / M / 30.8	✓	✓	NF	Mild	1462 / 1499	No

Ab., abdominal; ALT, alanine aminotransferase; AST, aspartate transaminase; BMI, body mass index; F, female; M, male; NF, not fulfilled (criteria field not selected as being applicable in data entry form); ULN, upper limit of normal.

SUPPLEMENTARY DATA

**Supplementary Table 9. Baseline characteristics and potential risk factors for acute pancreatitis at baseline by emergent pancreatitis.**

Full analysis set. Adjusted for multiple comparisons using Bonferroni method.  $p<0.0025$  considered significant. A  $P$ -value for interaction between baseline lipase and subsequent pancreatitis was not generated, due to the small amount of data available.

	No pancreatitis				Acute pancreatitis				$P$ -value for interaction between baseline characteristic/potential risk factor and treatment versus subsequent acute pancreatitis (logistic regression)	
	Liraglutide		Placebo		Liraglutide		Placebo			
	N	%	N	%	N	%	N	%		
Number of subjects	4650	100.0	4649	100.0	18	100.0	23	100.0	9340	
Age (years)										
≤60	1486	32.0	1392	29.9	4	22.2	10	43.5	0.11	
>60	3164	68.0	3257	70.1	14	77.8	13	56.5		
Gender										
Male	2999	64.5	2975	64.0	12	66.7	17	73.9	0.59	
Female	1651	35.5	1674	36.0	6	33.3	6	26.1		
BMI ( $\text{kg}/\text{m}^2$ )										
≤30	1739	37.4	1823	39.2	4	22.2	8	34.8	0.44	
>30	2906	62.5	2822	60.7	14	77.8	15	65.2		
HbA <sub>1c</sub> (%)										
≤8.3	2332	50.2	2418	52.0	8	44.4	10	43.5	0.86	
>8.3	2318	49.8	2231	48.0	10	55.6	13	56.5		
Diabetes duration (years)										
≤11	2209	47.5	2205	47.4	7	38.9	8	34.8	0.79	
>11	2430	52.3	2436	52.4	11	61.1	15	65.2		

SUPPLEMENTARY DATA

Lipase										
Missing	90	1.9	104	2.2	—	—	—	—	—	—
≤ULN	3779	81.3	3804	81.8	18	100.0	18	78.3		
>ULN	732	15.7	679	14.6	—	—	5	21.7		
≥3x ULN	49	1.1	62	1.3	—	—	—	—		
Amylase										
Missing	68	1.5	82	1.8	—	—	—	—		
≤ULN	4019	86.4	4032	86.7	16	88.9	20	87.0	0.97	
>ULN	556	12.0	524	11.3	2	11.1	3	13.0		
≥3x ULN	7	0.2	11	0.2	—	—	—	—		
eGFR (mL/min/1.73 m <sup>2</sup> )										
<30	117	2.5	105	2.3	—	—	2	8.7		
30–59	994	21.4	929	20.0	5	27.8	6	26.1	0.43	
60–89	1925	41.4	1968	42.3	7	38.9	7	30.4		
≥90	1614	34.7	1647	35.4	6	33.3	8	34.8		
Glucose-lowering therapy										
Not on insulin/OAD	194	4.2	163	3.5	—	—	3	13.0		
Insulin only	356	7.7	375	8.1	5	27.8	2	8.7	0.031	
OAD only	2427	52.2	2368	50.9	9	50.0	7	30.4		
Insulin + OAD	1673	36.0	1743	37.5	4	22.2	11	47.8		
Smoking										
Current	564	12.1	560	12.0	3	16.7	3	13.0	0.90	
Previous	2143	46.1	2177	46.8	8	44.4	12	52.2		
Never	1943	41.8	1912	41.1	7	38.9	8	34.8		
History of acute/chronic pancreatitis										
No	4505	96.9	4535	97.5	16	88.9	17	73.9	0.13	
Yes	145	3.1	114	2.5	2	11.1	6	26.1		

SUPPLEMENTARY DATA

History of biliary disease	3922	84.3	3966	85.3	16	88.9	17	73.9	
No	728	15.7	683	14.7	2	11.1	6	26.1	0.19
Yes									
Hypertriglyceridemia	2336	50.2	2371	51.0	9	50.0	13	56.5	
No	2314	49.8	2278	49.0	9	50.0	10	43.5	0.71
Yes									
Hypercalcemia	4440	95.5	4452	95.8	17	94.4	19	82.6	
No	210	4.5	197	4.2	1	5.6	4	17.4	0.21
Yes									
Prior cardiovascular disease	835	18.0	905	19.5	2	11.1	—	—	
No	3815	82.0	3744	80.5	16	88.9	23	100.0	0.056
Yes									
Metformin use	4	0.1	9	0.2	—	—	—	—	
Missing	1116	24.0	1048	22.5	8	44.4	11	47.8	0.73
No metformin	3530	75.9	3592	77.3	10	55.6	12	52.2	
Sulfonylurea use	4	0.1	9	0.2	—	—	—	—	
Missing	2283	49.1	2287	49.2	11	61.1	13	56.5	0.76
No sulfonylurea	2363	50.8	2353	50.6	7	38.9	10	43.5	
Thiazolidinedione use	4	0.1	9	0.2	—	—	—	—	
Missing	4351	93.6	4365	93.9	17	94.4	19	82.6	0.21
No thiazolidinedione	295	6.3	275	5.9	1	5.6	4	17.4	
Thiazolidinedione									
Insulin use	4	0.1	9	0.2	—	—	—	—	
Missing	2617	56.3	2522	54.2	9	50.0	10	43.5	0.77
No insulin	2029	43.6	2118	45.6	9	50.0	13	56.5	
Insulin									

## SUPPLEMENTARY DATA

Diuretic use									
Missing	4	0.1	9	0.2	–	–	–	–	0.29
No diuretic	1116	24.0	1048	22.5	8	44.4	11	47.8	
Diuretic	3530	75.9	3592	77.3	10	55.6	12	52.2	

%, proportion of subjects; BMI, body mass index; eGFR, estimated glomerular filtration rate; N, number of subjects; OAD, oral antidiabetic drug; ULN, upper limit of normal

SUPPLEMENTARY DATA

**Supplementary Table 10. Predictive value of increased lipase levels for confirmed acute pancreatitis.** Data are for Event Adjudication Committee-confirmed acute pancreatitis (full analysis set). Subjects are included in the elevated lipase category from the date of first elevation within the stated categories ( $>\text{ULN}$  and  $\geq 3 \times \text{ULN}$  lipase).

Treatment	Lipase	Number of subjects developing acute pancreatitis	Number of subjects	Sensitivity of entering elevated lipase category (%)	Specificity of not entering elevated lipase category (%)	NPV of not entering elevated lipase category (%)	PPV of entering elevated lipase category (%)
Liraglutide	$>\text{ULN}$	7	2604	38.9	44.2	—	0.3
	$<\text{ULN}$	11	2064	—	—	99.5	—
Placebo	$>\text{ULN}$	11	1682	47.8	64.1	—	0.7
	$<\text{ULN}$	12	2990	—	—	99.6	—
Liraglutide	$\geq 3 \times \text{ULN}$	0	339	0.0	92.7	—	0.0
	$<3 \times \text{ULN}$	18	4329	—	—	99.6	—
Placebo	$\geq 3 \times \text{ULN}$	2	216	8.7	95.4	—	0.9
	$<3 \times \text{ULN}$	21	4456	—	—	99.5	—

%, percentage of subjects; NPV, negative predictive value; PPV, positive predictive value; ULN, upper limit of normal.

SUPPLEMENTARY DATA

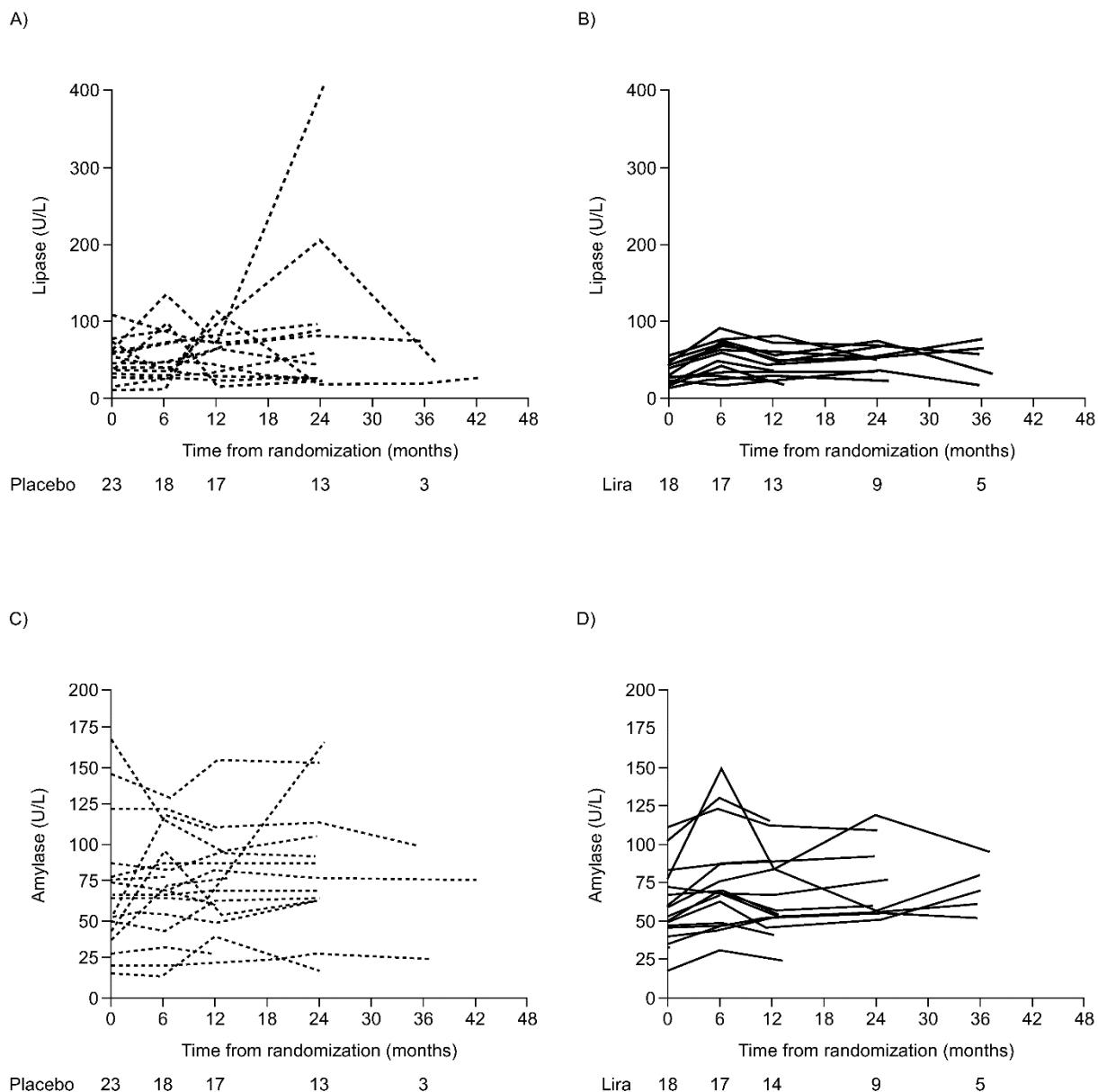
**Supplementary Table 11. Predictive value of increased amylase levels for confirmed acute pancreatitis.** Data are for Event Adjudication Committee-confirmed acute pancreatitis (full analysis set). Subjects are included in the elevated amylase category from the date of first elevation within the stated categories ( $>\text{ULN}$  and  $\geq 3 \times \text{ULN}$  amylase).

Treatment	Amylase	Number of subjects developing acute pancreatitis	Number of subjects	Sensitivity of entering elevated amylase category (%)	Specificity of not entering elevated amylase category (%)	NPV of not entering elevated amylase category (%)	PPV of entering elevated amylase category (%)
Liraglutide	$>\text{ULN}$	3	1382	16.7	70.3	—	0.2
	$<\text{ULN}$	15	3286	—	—	99.54	—
Placebo	$>\text{ULN}$	5	1084	21.7	76.8	—	0.5
	$<\text{ULN}$	18	3588	—	—	99.5	—
Liraglutide	$\geq 3 \times \text{ULN}$	0	38	0.0	99.2	—	0.0
	$<3 \times \text{ULN}$	18	4630	—	—	99.6	—
Placebo	$\geq 3 \times \text{ULN}$	0	35	0.0	99.3	—	0.0
	$<3 \times \text{ULN}$	23	4637	—	—	99.5	—

%, percentage of subjects; NPV, negative predictive value; PPV, positive predictive value; ULN, upper limit of normal.

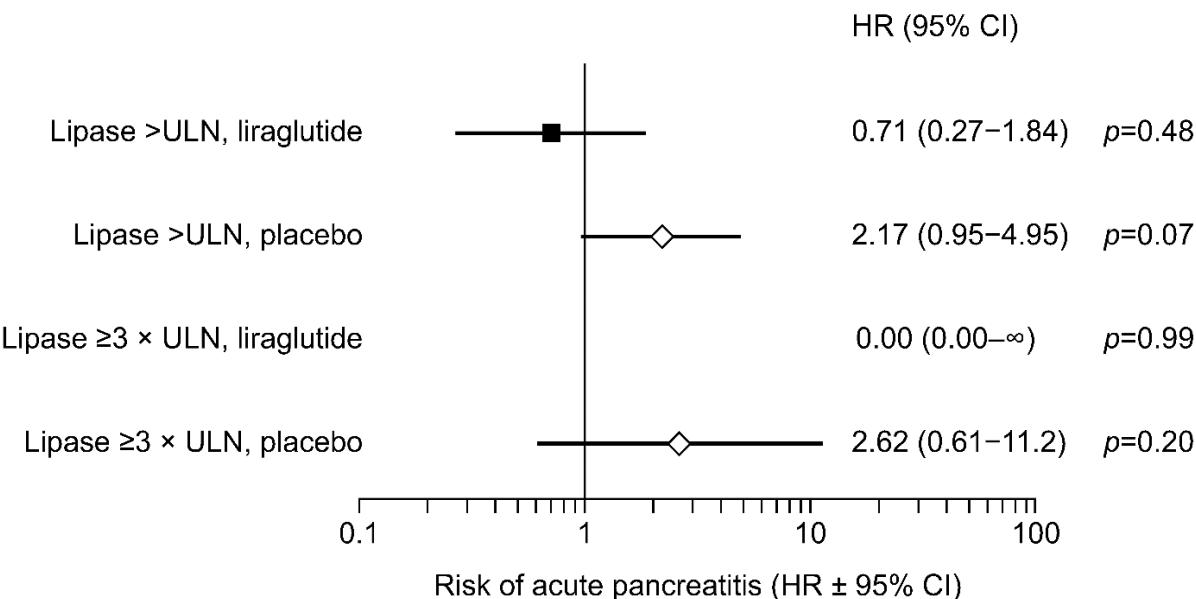
## SUPPLEMENTARY DATA

**Supplementary Figure 1. Lipase and amylase values preceding acute pancreatitis in the placebo group (A, C) and liraglutide group (B, D). Each line shows lipase or amylase values for an individual who subsequently experienced acute pancreatitis (full analysis set). Values underneath the graphs are number of subjects. Lira, liraglutide.**



## SUPPLEMENTARY DATA

**Supplementary Figure 2. Relationship between serum lipase categories and risk of acute pancreatitis (*post hoc* analysis).** Data are HR  $\pm$  95% CI for Event Adjudication Committee-confirmed acute pancreatitis (full analysis set; *post hoc* Cox regression interaction analysis). Subjects are included in the elevated lipase category from the date of first lipase elevation within the stated categories ( $>\text{ULN}$  or  $\geq 3 \times \text{ULN}$ ). Based on data shown in Table 1. CI: confidence interval; HR, hazard ratio;  $\infty$ , infinity; ULN, upper limit of normal.



## SUPPLEMENTARY DATA

### LEADER Committee Members and Investigators.

**Steering Committee:** Richard Bergenstal, Park Nicollet Institute, International Diabetes Center, Minneapolis, MN, USA; John Buse, The University of North Carolina School of Medicine, Chapel Hill, NC, USA; Gilbert Daniels, Massachusetts General Hospital, Boston, MA, USA; Johannes Mann, Friedrich Alexander University of Erlangen, Erlangen, Germany; Steven P Marso, UT Southwestern, Clinical Heart Center, Dallas, TX, USA; Allan Charles Moses, Novo Nordisk A/S, Søborg, Denmark (2009-2014); Michael Nauck, Medizinische Klinik, St Josef Hospital (Ruhr-Universität Bochum), Bochum, Germany; Steven Nissen, Cleveland Clinic, Cleveland, OH, USA; Stuart Pocock, London School of Hygiene and Tropical Medicine, London, UK; Neil Poulter, International Centre for Circulatory Health, Imperial College, London, UK; William Steinberg, George Washington University Medical Center, MD, USA; Bernard Zinman, Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Toronto, Canada; Kirstine Brown Frandsen, Novo Nordisk A/S, Søborg, Denmark; Mette Stockner, Novo Nordisk A/S, Søborg, Denmark; Peter Kristensen, Novo Nordisk A/S, Søborg, Denmark (2015-2016); Lasse Steen Ravn, Novo Nordisk A/S, Søborg, Denmark (2011-2016); Marcin Zychma, Novo Nordisk A/S, Søborg, Denmark (2009-2011).

**Data Monitoring Committee:** Allan Flyvbjerg, Aarhus University, Aarhus, Denmark; Ian Ford, University of Glasgow, Glasgow, United Kingdom; Richard T. Kloos, Veracyte, Inc, South San Francisco, CA, USA; Mark J. Schactman, (External Independent Statistician), Statistics Collaborative, Inc., Washington DC, USA; Peter Sleight, John Radcliffe Hospital, Oxford, United Kingdom; Karl Swedberg, Sahlgrenska University Hospital/Östra, Gothenburg, Sweden; Scott M. Tenner, State University of New York, NY, USA

**Global Expert Panel:** Sema Akalın, Marmara University Medical FacultyIstanbul, Turkey (2010); Rosario Arechavaleta, Colonia Monraz, Guadalajara, Mexico; Steve Bain, Swansea University Medical School, Swansea, UK; Miguel Camafort Babkowski, Comité Español Interdisciplinario de Prevención Cardiovascular España, Sociedad Española de Medicina Interna, Madrid, Spain (2010–2011); Marian Benrouri, Athens Polyclinic General Hospital, Athens, Greece; Lori Berard, Health Sciences Centre Winnipeg, University of Manitoba, Winnipeg, Canada; Abdurrahman Comlekci, Dokuz Eylül University, Izmir, Turkey; Leszek Czupryniak, Medical University of Lodz, Lodz, Poland; Björn Eliasson, Sahlgrenska University Hospital, Gothenburg, Sweden; Mats Eriksson, Karolinska University Hospital, Stockholm, Sweden; Vivian Fonseca, Tulane University Health Sciences Center, New Orleans, LA, USA; Edward Franek, Central Clinical Hospital MSW, Warsaw, Poland; Jorge Gross, Hospital de Clinicas de Porto Alegre, Porto Alegre, Brazil; Khadija Hafidh, Rashid Hospital, Dubai, United Arab Emirates; Martin Haluzik, Charles University, Praha, Czech Republic; Frances Hayes, Dept. of Endocrinology, St. Vincent's University Hospital, Dublin , Ireland (2010-2013); Yu-Yao Huang, Chang Gung Memorial Hospital and Chang Gung University, Taoyuan, Taiwan; Stephan Jacob, Kardio Metabolischen Instituts, Villingen- Schwenningen, Germany; Ghaida Kaddaha, Rashid Hospital, Dubai, United Arab Emirates (2011-2014); Ali Khalil, Center for Diabetes and Endocrinology, Sheikh Khalifa Medical City, Abu Dhabi, United Arab Emirates (2010); Bente Kilhovd, Oslo University Hospital, Oslo, Norway; Markku Laakso, University of Eastern Finland and Kuopio University Hospital, Kuopio, Finland; Lawrence Leiter, St. Michael's Hospital, University of Toronto, Toronto, Canada; Nebojsa Lalic, University Medical Center and Belgrade School of Medicine, Belgrade, Serbia; Linong Ji, Peking University People's Hospital, Beijing, China; Joerg Luedemann, Medicine and Nutrition Diabetes and Foot Care Centre, Falkensee, Germany;

Eduardo Mannucci, Diabetes Section Geriatric Unit, Careggi Hospital, Florence, Italy; Michel Marre,

## SUPPLEMENTARY DATA

Groupe Hospitalier Bichat, Paris, France; Luis Masmiquel, Universitat de les Illes Balears, Palma de Mallorca, Spain; Maria Mota, University of Medicine and Pharmacy of Craiova, Craiova, Romania; Mahomed Omar, Nelson R Mandela School of Medicine, University of KwaZulu Natal, South Africa; Donal O'Shea, St Vincent's Hospital, Dublin, Ireland; Changyu Pan, Chinese PLA General Hospital, Beijing, China; John Petrie, BHF Glasgow Cardiovascular Research Centre, University of Glasgow, Glasgow, UK; Thomas Pieber, Medical University of Graz, Graz, Austria; Richard Pratley, Florida Hospital, Diabetes Institute, Orlando, FL, USA; Itamar Raz, Hadassah Hebrew University Hospital, Jerusalem, Israel; Rosangela Rea, Clinical Hospital of the Federal University of Parana, Curitiba, Brazil; Guy Rutten, University Medical Center Utrecht, Utrecht, The Netherlands; Ilhan Satman, Istanbul University, Istanbul, Turkey; Marina Shestakova, Endocrinology Research Centre and M.I., Sechenov First Moscow State Medical University, Moscow, Russia; Richard Simpson, Eastern Clinical Research Unit, Monash University and Eastern Health, Victoria, Australia; Diarmuid Smith, Beaumont Hospital, Dublin, Ireland; Cornelis Tack, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands; Lise Tarnow, Nordsjællands Hospital, Hillerød, Denmark; Nihal Thomas, Endocrinology, Diabetes and Metabolism, Christian Medical College and Hospital, Vellore, Tamil Nadu, India; Luc Van Gaal, Antwerp University Hospital, Antwerp, Belgium; Florence Travert, Groupe Hospitalier Bichat, Paris, France (2010-2015); Josep Vidal, Hospital Clínic de Barcelona, Barcelona, Spain; Mark Warren, Endocrinology and Metabolism Physicians East, PA, Greenville, SC, USA; Kun-Ho Yoon, Seoul St. Mary's Hospital, The Catholic University of Korea, Seoul, Republic of Korea

**Calcitonin Monitoring Committee:** Robert Michael Tuttle, Memorial Sloan-Kettering Cancer Center and Weill Medical College of Cornell University, Brewster, NY, USA; Stephen I. Sherman, The University of Texas MD Anderson Cancer Center, Houston, TX, USA; Laszlo Hegedüs, Odense University Hospital, Odense, Denmark

**Patient Retention Panel:** Heike Baerwald, Diabetologische Schwerpunktpraxis, Gifhorn, Germany; Lori Berard, Health Sciences Centre, University of Manitoba, Winnipeg, Canada; Margit Bergenstal, Region Skåne, Endokrinologiska kliniken, Malmo, Sweden (2012–2013); Selda Celik, Istanbul Medical Faculty, Istanbul University, Istanbul, Turkey; Cristiane Dias, Hospital Santa Casa, Curitiba, Brazil; Michaela Eder, Klinische Studienkoordinatorin, Diabetes-und Stoffwechselambulanz Medizinische Universität Graz, Austria (2010-2013); Stacey Fitzgibbons, USA (2010- 2011); Lena Irvhage, Avdelningen för Kliniska Prövningar, Universitetssjukhuset Örebro, Sweden (2010-2011); Jana Kloluckova, Charles University and General University Hospital, Prague, Czech Republic; Rozalin Kriulianski, Institute of Endocrinology , Diabetes and Metabolism, Rambam Medical Center, Haifa, Israel (2010-2013); Roberta McDuffie, Tulane University, New Orleans, LA, USA; Solfrid Moen, Stavanger Helseforskning, Stavanger, Norway; Ayana Paster, Sheba Medical Center, Tel-Hashomer, Israel; Rosangela Maria Saalfeld, General Carneiro, Curitiba, Brazil (2010-2013); Kavitha Sankar, Christian Medical College, Vellore, India; Ermal Shehaj, Istituto Scientifico San Raffaele, Italy (2010-2011); Patrycja Swierzewska, Niepubliczny Zakład Opieki Zdrowotnej OmniMed, ul. Rzgowska, Łódź, Poland (2010-2012); Margaret Tiktin, Case Western Reserve University, Cleveland, OH, USA; Sharon Tovey, Southmead Hospital, Bristol, UK

## Event Adjudication Committees

**Chair:** C. Michael Gibson, Harvard Medical School, Boston, MA, USA

**Cardiology:** Anjan K. Chakrabarti, Eastern Virginia Medical School, Chesapeake, VA, USA; John Francis Dashe, St. Elizabeth's Medical Center, Boston/Waltham, MA, USA; Judith Hinckley, St.

## SUPPLEMENTARY DATA

Elisabeth's Medical Center, Boston, MA, USA; Megan Carroll Leary, Lehigh Valley Hospital, Allentown, PA, USA; Yuri Pride, Gwinnett Medical Center, Lawrenceville, GA, USA; Steve Wiviott, Brigham and Women's Hospital, Boston, MA, USA

**Microvascular:** Samuel Allen, Tallman Eye Association, Lawrence, MA, USA; Ali Poyan Mehr, Beth Israel Deaconess Medical Center, Boston, MA, USA; Walter P. Mutter, Newton-Wellesley Hospital, Newton, MA, USA; Samir Parikh, Harvard Medical School, Newton, MA, USA; Subhransu Ray, Bay Area Retina Associates, CA, USA

**Pancreatitis:** Adam Cheifetz, Beth Israel Deaconess Medical Center, Boston, MA, USA; Daniel Leffler, Beth Israel Deaconess Medical Centre, Boston, MA, USA; Sunil Sheth, Beth Israel Deaconess Medical Centre, Boston, MA, USA

**Oncology:** Erik Alexander, Brigham and Women's Hospital, Boston, MA, USA; Jason L. Gaglia, Harvard Medical School, Boston, MA, USA; Wolfram Goessling, Harvard Medical School, Boston, MA, USA; Lyle D Mitzner (Former), Joslin Diabetes Center, Boston, MA, USA; Carol Rosenberg, Harvard Vanguard/ Boston University School of Medicine, Boston, MA, USA; Kenneth J. Snow (Former), Joslin Diabetes Center, Boston, MA, USA; Andrew Wagner, Dana-Farber Cancer Institute, Boston, MA, USA

**ECG reviewer:** Gregory Piazza, Brigham and Women's Hospital, Boston, MA, USA

## Study Investigators

Australia: Sally Abell, St. Vincent's Hospital, Fitzroy, VIC; Tim Davis, University of Western Australia, School of Medicine and Pharmacology, Fremantle Hospital, Fremantle, WA; Michael D'Emden, Royal Brisbane & Womens Hospital, Herston, QLD; Su Ann Ding, Blacktown Hospital Clinical Trials Centre, University of Western Sydney, Blacktown, NSW; Christopher Gilfillan, Eastern Health Clinical School, Monash University, Melbourne, VIC; Tim Greenaway, Diabetes Centre, Royal Hobart Hospital, Hobart, TAS; Florence Gunawan, Eastern Health Clinical School, Monash University, Melbourne, VIC; Jui Ho, South Australian Endocrine Research Pty Ltd, Keswick, SA; Richard Jackson, Logan Hospital, Griffith University, Griffith University, Meadowbrook, QLD; Balvinder Kalra, Eastern Health Clinical School, Monash University, Melbourne, VIC; Sue-Lynn Lau, Blacktown Hospital Clinical Trials Centre, University of Western Sydney, Blacktown, NSW; Jaime Lin, Blacktown Hospital Clinical Trials Centre, University of Western Sydney, Blacktown, NSW; Richard MacIsaac, St. Vincent's Hospital, Fitzroy, VIC; Ashley Makepeace, University of Western Australia, School of Medicine and Pharmacology, Fremantle Hospital, Fremantle, WA; Usman Malabu, Townsville Hospital, Douglas, QLD; Joanne Marjason, Royal Brisbane & Women's Hospital, Herston, QLD; Roland McCallum, Diabetes Centre, Royal Hobart Hospital, Hobart, TAS; Mark McLean, Blacktown Hospital Clinical Trials Centre, University of Western Sydney, Blacktown, NSW; Naswrin Moin, Blacktown Hospital Clinical Trials Centre, University of Western Sydney, Blacktown, NSW; Carolyn Petersons, Southern Adelaide Diabetes & Endocrine Services, Repatriation General Hospital, Adelaide, SA; Sarah Price, Eastern Health Clinical School, Monash University, Melbourne, VIC; Anthony Roberts, South Australian Endocrine Research Pty Ltd, Keswick, SA; David Roberts, Logan Hospital, Meadowbrook, QLD; Kunwarjit Sangla, Townsville Hospital, Douglas, QLD; Richard Simpson, Eastern Health Clinical School, Monash University, Melbourne, VIC; Stephen Stranks, Southern Adelaide Diabetes & Endocrine Services, Repatriation General Hospital, Adelaide, SA; Yong Tan, Townsville Hospital, Douglas, QLD; Tilenka Thynne, Southern Adelaide Diabetes & Endocrine Services, Repatriation

## SUPPLEMENTARY DATA

General Hospital, Adelaide, SA; Jacqueline Walters, St. Vincent's Hospital, Fitzroy, VIC; Glenn Ward, St. Vincent's Hospital, Fitzroy, VIC; Wanling Wen, Eastern Health Clinical School, Monash University, Melbourne, VIC; Jane Zhang, Blacktown Hospital Clinical Trials Centre, University of Western Sydney, Blacktown, NSW.

Austria: Johanna Brix, Rudolfstiftung Hospital, Vienna; Astrid Feder, Rudolfstiftung Hospital, Vienna; Clemens Höbaus, Medical University of Vienna, Vienna; Florian Höllerl, Rudolfstiftung Hospital, Vienna; Vera Höller, Medical University of Graz, Graz; Torsten Kotter, Hanusch Hospital, Vienna; Eva Kratz, Rudolfstiftung Hospital, Vienna; Eva-Christina Krzizek, Rudolfstiftung Hospital, Vienna; Ulrike Leb-Stoeger, Medical University of Graz, Graz; Julia Mader, Medical University of Graz, Graz; Nikolaus Mras, Hanusch Hospital, Vienna; Eva Novak, Medical University of Graz, Graz; Florian Obendorf, Medical University of Vienna, Vienna; Slobodan Peric, Hietzing Hospital, Vienna; Gerfried Pesau, Medical University of Vienna, Vienna; Thomas Pieber, Medical University of Graz, Graz; Rudolf Prager, Hietzing Hospital, Vienna; Anja Ribitsch, Medical University of Graz, Graz; Christoph Schnack, Rudolfstiftung Hospital, Vienna; Guntram Schernthaner, Rudolfstiftung Hospital, Vienna; Gerit Schernthaner, Medical University of Vienna, Vienna; Thomas Wascher, Hanusch Hospital, Vienna. Belgium: Arsène-Hélène Batens, Ghent University Hospital, De Pintelaan, Ghent; Katrien Benhalima, University Hospital Leuven, Leuven; Christophe De Block, Faculty of Medicine, Antwerp University Hospital, Edegem, Antwerp; Philippe Ernest, CHU de Liège, Liège; Alice Fouckova, Ghent University Hospital, De Pintelaan, Ghent; Bernard Jandrain, Pharmacology Clinic, CHU de Liège, Liège; Bruno Lapauw, Ghent University Hospital, De Pintelaan, Ghent; Michel Letiexhe, CHU de Liège, Liège; Chantal Mathieu, University Hospital Leuven, Leuven; Sophie Neven, University Hospital Leuven, Leuven; Frida Peiffer, Faculty of Medicine, Antwerp University Hospital, Edegem, Antwerp; Johannes Ruige, Ghent University Hospital, De Pintelaan, Ghent; André Scheen, CHU de Liège, Liège; Youri Taes, Ghent University Hospital, De Pintelaan, Ghent; Inge Van Boxelaer, University Hospital Leuven, Leuven; Greet Vandistel, University Hospital Leuven, Leuven; Yannick Van Durme, Ghent University Hospital, De Pintelaan, Ghent; Luc Van Gaal, Faculty of Medicine, Antwerp University Hospital, Edegem, Antwerp; Ann Verhaegen, Faculty of Medicine, Antwerp University Hospital, Edegem, Antwerp.

Brazil: Eveline Alencar, Centro de Pesquisas em Diabetes e Doenças Endócrino-metabólicas, Fortaleza, CE; Renata Alencar, Instituto Cearense de Endocrinologia, Fortaleza, CE; Ana Cristina Almeida, Irmandade da Santa Casa de Misericórdia de Curitiba, Unidade de Pesquisa Clínica, Curitiba, PR; Breno Alves, Hospital das Clinicas da Faculdade de Medicina de Universidade de São Paulo, São Paulo, SP; Erica Alves, Centro de Pesquisas Clínicas Ltda, São Paulo, SP; Graciella Alves, Hospital Geral de Goiânia Dr. Alberto Rassi, RDM Pesquisas Clínicas, Goiânia, GO; Jacy Alves, Hospital de Clínicas/UFPR, Curitiba, PR; Leticia Araujo, Hospital Geral de Goiânia Dr. Alberto Rassi, RDM Pesquisas Clínicas, Goiânia, GO; Vivian Arruda, Clínica de Endocrinologia Prof. Dr. Fadlo Fraige Filho, São Paulo, SP; Gustavo Akerman Augusto, CPQuali Pesquisa Clínica Ltda, São Paulo, SP; Rejane Baggentoss, Instituto de Endocrinologia e Diabetes de Joinville, Joinville, SC; Luíza Balestrassi, Hospital São Joaquim, Beneficência Portuguesa de São Paulo, São Paulo, SP; Marcus Barbosa, Instituto de Endocrinologia e Diabetes de Joinville, Joinville, SC; Igor Barcelos, Hospital Geral de Goiânia Dr. Alberto Rassi, RDM Pesquisas Clínicas, Goiânia, GO; Lucia Belem, Instituto Cearense de Endocrinologia, Fortaleza, CE; Anke de Bem, Hospital de Clinicas, Curitiba, PR; Roberto Tadeu Betti, Instituto do Coração do Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, SP; Renata Bona, Centro de Pesquisas Clínicas Ltda, São Paulo, SP; Adriana Bosco, Centro de Estudos e Pesquisa da Clinica de Endocrinologia e Metabologia, Belo Horizonte, MG; Julia Branda, Hospital São Joaquim, Beneficência Portuguesa, São Paulo, SP; Marcello Bronstein, CPQuali Pesquisa

## SUPPLEMENTARY DATA

Clínica Ltda., São Paulo, SP; Thiago Bueno, Clínica de Endocrinologia Prof. Dr. Fadlo Fraige Filho, São Paulo, SP; Tania Bulcão, Instituto de Estudos e Pesquisas Clínicas do Ceará, Fortaleza, CE; Fátima Caiado, Instituto de Ciências Farmacêuticas de Estudos e Pesquisas, Aparecida de Goiânia, GO; Fabio Camazzola, Instituto de Pesquisas Clínicas para Estudos Multicêntricos, Universidade de Caxias do Sul, Caxias do Sul, RS; Maria Fernanda Cambréa, Clínica de Endocrinologia Prof Dr Fadlo Fraige Filho, São Paulo, SP; Simone Campos, Centro de Estudos e Pesquisa da Clinica de Endocrinologia e Metabologia, Belo Horizonte, MG; Stela Campos, Instituto Estadual de Diabetes e Endocrinologia, Rio de Janeiro, RJ; Luis Canani, Centro de Pesquisas em Diabetes, Porto Alegre, RS; Mario Kehdi Carra, Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, SP; Salvador Caruso, Hospital São Joaquim, Beneficência Portuguesa de São Paulo, São Paulo, SP; Nara Carvalho, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Angela Casillo, Instituto de Ensino e Pesquisa do Hospital da Cruz Vermelha Brasileira, Curitiba, PR; Denise Castro, Centro de Pesquisas Clínicas Ltda., São Paulo, SP; Taciana Cavalcanti, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Vinicius Cavichioli, Centro de Endocrinologia Geloneze, Campinas, SP; Cintia Cercato Hospital das Clinicas da Faculdade de Medicina de Universidade de Sao Paulo, São Paulo, SP; Antonio Chacra, Centro de Pesquisa Clínica em Diabetes, Hospital São Paulo UNIFESP, São Paulo, SP; William Challela, Instituto do Coração do Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo,, São Paulo, SP; Helaine Silva Charchar, Hospital Universitário João de Barros Barreto, Belém, PA; Camila Chaves, Núcleo de Medicina Integrada, Mogi das Cruzes, SP; Carlos Chrisman, Núcleo de Medicina Integrada, Mogi das Cruzes, SP; Carolina Chrisman, Núcleo de Medicina Integrada, Mogi das Cruzes, SP; Joya Correia-Deur, Centro de Pesquisas Clínicas Ltda., São Paulo, SP; Augusto da Costa Junior, CPQuali Pesquisa Clínica Ltda,São Paulo, SP; Midiã Costa, Pontifícia Universidade Católica de Campinas, Campinas, SP; Bruna Costi, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Priscilla Coutinho, Centro de Diabetes Curitiba, Curitiba, PR; Walmir Coutinho, Instituto Estadual de Diabetes e Endocrinologia, Rio de Janeiro, RJ; Maria Rosaria Cunha, Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, SP; Jorge Daher Junior, Hospital Geral de Goiânia Dr. Alberto Rassi, RDM Pesquisas Clínicas, Goiânia, GO; Elaine Davini, Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, SP; Dimas Democh Junior, Centro de Pesquisa Clínica em Diabetes, Hospital São Paulo UNIFESP, São Paulo, SP; Freddy Eliaschewitz, Centro de Pesquisas Clínicas Ltda., São Paulo, SP; Giuseppe Esmanhoto Facin, Instituto de Ensino e Pesquisa do Hospital da Cruz Vermelha Brasileira, Curitiba, PR; Francisco Farias, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; João Felício, Hospital Universitário João de Barros Barreto, Belém, PA; Virgínia Fernandes, Instituto Cearense de Endocrinologia, Fortaleza, CE; Celso Sallum Filho, Centro de Pesquisa Clínica em Diabetes, Hospital São Paulo UNIFESP, São Paulo, SP; Fadlo Fraige Filho, Clínica de Endocrinologia Prof. Dr. Fadlo Fraige Filho, São Paulo, SP; Manoel Filho, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Daniele Fontan, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Ana Paula Fontenele, Centro de Pesquisasem Diabetes e Doenças Endócrino-metabólicas, Fortaleza, CE; Adriana Forti, Centro de Estudos em Diabetes e Hipertensão, Fortaleza, CE; Denise Franco, Centro de Pesquisas Clínicas Ltda., São Paulo, SP; Kyara Freire, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Annunziata Fusaro, Centro de Pesquisa Clínica em Diabetes, Hospital São Paulo UNIFESP, São Paulo, SP; Paulo Genestreti, Centro de Pesquisas Clínicas Ltda., São Paulo, SP; Fernando Gerchman, Hospital Moinhos de Vento, Porto Alegre, RS; Ana Godi, Hospital de Clinicas da Faculdade de Medicina de Marília, Marília, SP; Karla Fabiana Gomes, Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, SP; Pedro Gonçalves, Instituto Estadual de Diabetes e Endocrinologia, Rio de Janeiro, RJ; Rodrigo Gonçalves, Centro de Pesquisas Clínicas Ltda, São Paulo, SP; Luiz Griz, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Jorge Gross, Centro de Pesquisas em Diabetes, Porto Alegre, RS; Michelle Grossman, Centro de Pesquisas Clínicas Ltda, São Paulo, SP; Maria Helane

## SUPPLEMENTARY DATA

Gurgel, Instituto Cearense de Endocrinologia, Fortaleza, CE; Amine Wiener Vasconcellos Haddad, Clínica de Endocrinologia Prof. Dr. Fadlo Fraige Filho, São Paulo, SP; Alfredo Halpern, Hospital das Clinicas da Faculdade de Medicina de Universidade de Sao Paulo, São Paulo, SP; Miguel Hissa, Centro de Pesquisas em Diabetes e Doenças Endócrinometabólicas, Fortaleza, CE; Alinne Inuy, Clínica de Endocrinologia Prof. Dr. Fadlo Fraige Filho, São Paulo, SP; Juliana Jaime, Hospital Geral de Goiânia Dr. Alberto Rassi, RDM Pesquisas Clínicas, Goiânia, GO; Thaisa Jonasson, Hospital de Clínicas/UFPR, Curitiba, PR; José Carlos Jorge, Irmandade da Santa Casa de Misericórdia de Curitiba, Unidade de Pesquisa Clínica, Curitiba, PR; Fernanda Justus Malucelli, Hospital de Clinicas, Curitiba, PR; Suely Kohara, Instituto de Endocrinologia e Diabetes de Joinville, Joinville, SC; Caroline Kramer, Centro de Pesquisas em Diabetes, Porto Alegre, RS; Claudio Lacerda, Centro de Diabetes Curitiba, Curitiba, PR; Suzanny Ladeira, Hospital Universitário João de Barros Barreto, Belém, PA; Janaína Lana, Centro de Pesquisas Clínicas Ltda., São Paulo, SP; Flavio Lastebasse, Centro de Pesquisas Clínicas Ltda, São Paulo, SP; Andressa Leitão, Centro de Diabetes Curitiba, Curitiba, PR; Silmara Leite, Instituto de Ensino e Pesquisa do Hospital da Cruz Vermelha Brasileira, Curitiba, PR; Antonio Carlos Lerário, Instituto do Coração do Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, SP; Denise Lima, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Marcelo Lima, Centro de Endocrinologia Geloneze, Campinas, SP; Vinicius Lippi, Hospital São Joaquim, Beneficência Portuguesa de São Paulo, São Paulo, SP; Maria Lunardi, Núcleo de Medicina Integrada, Mogi das Cruzes, SP; Evelyn Machado, Centro de Diabetes de Sergipe, Aracaju, SE; Frederico Maia, CPQuali Pesquisa Clínica Ltda., São Paulo, SP; Juliana Maia, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Kleisson Pontes Maia, Centro de Estudos e Pesquisa da Clinica de Endocrinologia e Metabologia, Belo Horizonte, MG; Nadila Mañas, Hospital de Clinicas, Curitiba, PR; Frederico Marchisotti, CPQuali Pesquisa Clínica Ltda., São Paulo, SP; Carlos Marinho, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Carliane Martins, Hospital Universitário João de Barros Barreto, Belém, PA; Fabrícia Figueiredo de Medeiros, Hospital Geral de Goiânia Dr. Alberto Rassi, RDM Pesquisas Clínicas, Goiânia, GO; Amanda Melo, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Franciane Melo, Hospital Universitário João de Barros Barreto, Belém, PA; Eurico Mendonca, Centro de Pesquisa Clínica em Diabetes, Hospital São Paulo UNIFESP, São Paulo, SP; Paulo Mendonça, Hospital Geral de Goiânia Dr. Alberto Rassi, RDM Pesquisas Clínicas, Goiânia, GO; Raimundo Menezes Filho, Centro de Diabetes de Sergipe, Aracaju, SE; Marianna Miguel, Hospital Geral de Goiânia Dr. Alberto Rassi, RDM Pesquisas Clínicas, Goiânia, GO; Karem Miléo, Hospital Universitário João de Barros Barreto, Belém, PA; Margareth Miyahara, Hospital Universitário João de Barros Barreto, Belém, PA; Ana Paula Montenegro, Instituto Cearense de Endocrinologia, Fortaleza, CE; Aline Moraes, Instituto Estadual de Diabetes e Endocrinologia, Rio de Janeiro, RJ; Alessandro Moreira, Instituto de Ciências Farmacêuticas de Estudos e Pesquisas, Aparecida de Goiânia, GO; José Ítalo Mota, Instituto de Estudos e Pesquisas Clínicas do Ceará, Fortaleza, CE; Flávia Silvia Mothe, Pontifícia Universidade Católica de Campinas, Campinas, SP; Ada Murro, Universidade Estadual de Campinas, Campinas, SP; Viviane Nakatani, Hospital de Clinicas, Curitiba, PR; Thiago Fraga Napoli, Instituto de Pesquisa Clínica, São Paulo, SP; Bruno Geloneze Neto, Centro de Endocrinologia Geloneze, Campinas, SP; Oscar Queiroz Neto, Instituto de Estudos e Pesquisas Clínicas do Ceará, Fortaleza, CE; Edgard Niclewicz, Centro de Diabetes Curitiba, Curitiba, PR; Louis Nakayama Ohe, Centro de Pesquisa Clínica em Diabetes, Hospital São Paulo UNIFESP, São Paulo, SP; Francisco Oliveira, Hospital São Joaquim, BeneficênciaPortuguesa de São Paulo, São Paulo, SP; Marcela Oliveira, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Daniel Panarotto, Instituto de Pesquisas Clínicas para Estudos Multicêntricos, Universidade de Caxias do Sul, Caxias do Sul, RS; Erika Parente, Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, SP; Salma Parolin, Irmandade da Santa Casa de Misericórdia de Curitiba, Unidade de Pesquisa Clínica, Curitiba, PR; Luciana Pechmann, Centro de Diabetes Curitiba, Curitiba, PR; Paula Costa da Penha, Hospital

## SUPPLEMENTARY DATA

Universitário João de Barros Barreto, Belém, PA; Lidiane Perlamagna, Centro de Pesquisas Clínicas Ltda., São Paulo, SP; Bruno Perotta, Clínica de Endocrinologia Prof. Dr. Fadlo Fraige Filho, São Paulo, SP; Larissa Pimentel, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Mauro Pinto, Centro de Diabetes Curitiba, Curitiba, PR; Christiani Poço, Instituto de Pesquisa Clínica, São Paulo, SP; Clarisse Ponte, Instituto Cearense de Endocrinologia Fortaleza, CE; Paula Prazeres, Centro de Pesquisas Medicas Básica e Clínica Ltda., Recife, PE; Eder Quintao, CPQuali Pesquisa Clínica Ltda., São Paulo, SP; Roberto Raduan, Hospital São Joaquim, Beneficência Portuguesa de São Paulo, São Paulo, SP; Danilo Teixeira Rassi, Hospital Geral de Goiânia Dr. Alberto Rassi, RDM Pesquisas Clínicas, Goiânia, GO; Nelson Rassi, Hospital Geral de Goiânia Dr. Alberto Rassi, RDM Pesquisas Clínicas, Goiânia, GO; Rosangela Rea, Universidade Federal do Paraná, Curitiba, PR; Luciana Reck, Centro de Pesquisas em Diabetes, Porto Alegre, RS; Renan Montenegro Jr., Instituto Cearense de Endocrinologia, Fortaleza, CE; Rochele Ribeiro, Instituto Cearense de Endocrinologia, Fortaleza, CE; Sylka Rodovalho, Centro de Endocrinologia Geloneze, Campinas, SP; Goretti Silveira Rodrigues, Instituto de Endocrinologia e Diabetes de Joinville, Joinville, SC; Guilherme Rollin, Hospital Moinhos de Vento, Porto Alegre, RS; Sarah Rossi, Clínica de Endocrinologia Prof. Dr. Fadlo Fraige Filho, São Paulo, SP; Cleide Sabino, Centro de Pesquisas Clínicas Ltda., São Paulo, SP; Ana Paula Sales, Instituto Cearense de Endocrinologia, Fortaleza, CE; João Salles, Instituto de Pesquisa Clínica, São Paulo, SP; Celia Regina Sampaio, Centro de Pesquisas Clínicas Ltda., São Paulo, SP; Lidiana Santana, Hospital Universitário João de Barros Barreto, Belém, PA; Victor Sato, Centro de Pesquisas Clínicas Ltda., São Paulo, SP; Mariana da Silva Santos, Hospital Geral de Goiânia Dr. Alberto Rassi, RDM Pesquisas Clínicas, Goiânia, GO; Norma Lúcia Santos, Centro de Diabetes de Sergipe, Aracaju, SE; Rosa Santos, Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, SP; José Saraiva, Pontifícia Universidade Católica de Campinas, Campinas, SP; Carla Sartori, Centro de Pesquisas em Diabetes, Porto Alegre, RS; Rita Sena, Centro de Estudos em Diabetes e Hipertensão, Fortaleza, CE; Marcela Sevilha, Hospital São Joaquim, Beneficência Portuguesa de São Paulo, São Paulo, SP; José Sgarbi, Hospital de Clinicas da Faculdade de Medicina de Marília, Marília, SP; Dalisbor Silva, Instituto de Endocrinologia e Diabetes de Joinville Joinville, SC; Daniel Silva, Centro de Estudos e Pesquisa da Clinica de Endocrinologia e Metabologia, Belo Horizonte, MG; Lilian D'Albuquerque Silva, Hospital Universitário João de Barros Barreto, Belém, PA; Maria Elizabeth Silva, Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, SP; Kátia Siqueira, Centro de Pesquisas Clínicas Ltda, São Paulo, SP; Samuel Soares, Hospital Geral de Goiânia Dr. Alberto Rassi, RDM Pesquisas Clínicas, Goiânia, GO; Wladia Sobreira, Instituto de Estudos e Pesquisas Clínicas do Ceará, Fortaleza, CE; Bruno Sousa, Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, SP; Ana Carolina Souza, Hospital Universitário João de Barros Barreto, Belém, PA; Barbara Souza, Instituto de Endocrinologia e Diabetes de Joinville, Joinville, SC; Marcos Tambascia, Universidade Estadual de Campinas, Campinas, SP; Roberta Tarantino, Instituto Estadual de Diabetes e Endocrinologia, Rio de Janeiro, RJ; Fernanda Tenor, CPQuali Pesquisa Clínica Ltda., São Paulo, SP; Maithe Tomarchio, Clínica de Endocrinologia Prof. Dr. Fadlo Fraige Filho, São Paulo, SP; Cristina Triches, Instituto de Pesquisas Clínicas para Estudos Multicêntricos, Universidade de Caxias do Sul, Caxias do Sul, RS; Lívia Justen Tristão, Instituto de Ensino e Pesquisa do Hospital da Cruz Vermelha Brasileira, Curitiba, PR; Adriana Valenti, Centro de Pesquisas em Diabetes, Porto Alegre, RS; Enio Vasques, Núcleo de Medicina Integrada, Mogi das Cruzes, SP; Sergio Vencio, Instituto de Ciências Farmacêuticas de Estudos e Pesquisas, Aparecida de Goiânia, GO; André Vianna, Centro de Diabetes Curitiba, Curitiba, PR; Thiago Munhoz Vidotto, Centro de Pesquisa Clínica em Diabetes, Hospital São Paulo UNIFESP, São Paulo, SP; Suélen Vieira, Instituto de Ensino e Pesquisa do Hospital da Cruz Vermelha Brasileira, Curitiba, PR; Heloisa Villar, Hospital de Clinicas da Faculdade de Medicina de Marília, Marília, SP; Guilherme Visconti, Centro de Pesquisas Clínicas Ltda, São Paulo, SP; Alexei Volaco, Irmandade da Santa Casa de Misericórdia de Curitiba, Unidade de Pesquisa Clínica,

## SUPPLEMENTARY DATA

Curitiba, PR; Bernardo Wajchenberg, Instituto do Coração do Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, SP; Leila Zanatta, Hospital de Clinicas, Curitiba, PR; Leila Zimmerman, Instituto de Pesquisa Clínica, São Paulo, SP.

Canada: E. Carl Abbott, Nova Scotia Health Authority, Halifax, Nova Scotia; Asiru Abu-Bakare, Port Arthur, Ontario; Andrew Advani, St. Michael's Health Centre, Toronto, Ontario; Roy Allison, Canadian Centre for Research on Diabetes, Smith Falls, Ontario; Phoebe Bishara, Medicine Professional Corporation, Cambridge, Ontario; C. Keith Bowering, Baker Clinic, Edmonton, Alberta; Alice Cheng, Credit Valley Hospital, Mississauga, Ontario; Sylvain Chouinard, Institut Universitaire de Cardiologie et de Pneumologie de Québec, Québec; Dale Clayton, Nova Scotia Health Authority, Halifax, Nova Scotia; James Conway, Canadian Centre for Research on Diabetes, Smith Falls, Ontario; Martin D'Amours, CHUL Research Center, Québec; Barna de Tugwell, Nova Scotia Health Authority, Halifax, Nova Scotia; Paul DeYoung, McConnell Medical Centre, Cornwall; Giuseppe D'Ignazio, Canadian Centre for Research on Diabetes, Smith Falls, Ontario; Francois Dube, Institut Universitaire de Cardiologie et de Pneumologie de Québec, Québec; Jean-Marie Ekoe, Institut de Recherches Cliniques de Montréal, Montréal, Québec; Susan Fagan, St. John's, Newfoundland; Claude Garceau, Institut Universitaire de Cardiologie et de Pneumologie de Québec, Québec; Irving Gottesman, Credit Valley Hospital, Mississauga, Ontario; Amir Hanna, St. Michael's Health Centre, Toronto, Ontario; Stewart Harris, The Western Centre for Public Health and Family Medicine, London, Ontario; Irene M. Hramiak, St. Joseph's Health Care, London, Ontario; Carmen Hurd, Health Sciences Centre, Winnipeg, Manitoba; S. Imran, Nova Scotia Health Authority, Halifax, Nova Scotia; Robert Josse, St. Michael's Health Centre, Toronto, Ontario; Carol Joyce, Memorial University of Newfoundland, St. John's, Newfoundland; Stephanie Kaiser, Nova Scotia Health Authority, Halifax Nova Scotia; Farrukh Khan, Rouge Valley Metabolic Research Centre, Scarborough, Ontario; Isabelle Kirouac, Institut Universitaire de Cardiologie et de Pneumologie de Québec, Québec; Christopher Kovacs, Memorial University of Newfoundland, St. John's, Newfoundland; Isabelle Labonte, Institut Universitaire de Cardiologie et de Pneumologie de Québec, Québec; W. John Langlois, Credit Valley Hospital, Mississauga, Ontario; Lawrence Leiter, St. Michael's Health Centre, Toronto, Ontario; Marie-France Levac, McConnell Medical Centre, Cornwall, Canada; Joanne Liutkus, Medicine Professional Corporation, Cambridge, Ontario; Charlotte McDonald, St. Joseph's Health Care, London, Ontario; Vladimir Milosevic, Credit Valley Hospital, Mississauga, Ontario; Bulangu Lukuki Nyomba, Health Sciences Centre, Winnipeg, Manitoba; Terri Paul, St.

Joseph's Health Care, London, Ontario; Kathleen Raby, Institut Universitaire de Cardiologie et de Pneumologie de Québec, Québec; Thomas Ransom, Nova Scotia Health Authority, Halifax, Nova Scotia; Sonja M. Reichert, The Western Centre for Public Health and Family Medicine, London, Ontario; Ravi Retnakaran, Mount Sinai Hospital, Toronto, Canada; Remi Rabasa-Lhoret, Institut de Recherches Cliniques de Montréal, Montréal, Québec; Errol Raff, Baker Clinic Edmonton, Alberta; Roya Shaikholeslami, Cambridge, Ontario; John Sigalas, Rouge Valley Metabolic Research Centre, Scarborough, Ontario; Churn-Ern Yip, Nova Scotia Health Authority, Halifax, Nova Scotia; S. John Weisnagel, CHUL Research Center, Québec, Canada; Vincent Woo, Health Sciences Centre, Winnipeg, Manitoba; Bernard Zinman, Mount Sinai Hospital, Toronto, Canada.

China: Yi Bao, Shanghai Changzheng Hospital, Shanghai; Xiaoling Cai, Peking University People's Hospital, Beijing; Jiangtian Chen, Peking University People's Hospital, Beijing; Kang Chen, Chinese PLA General Hospital, Beijing; Meiling Chen, Chinese PLA General Hospital, Beijing; Xia Chen, the Affiliated Hospital of Jiangsu University, Jiangsu; Yingli Chen, Peking University People's Hospital, Beijing; Linong Ji, Peking University People's Hospital, Beijing; Yang Ji, The affiliated hospital of

## SUPPLEMENTARY DATA

Qingdao University, Shandong Province; Juan Lei, Sun Yat-sen memorial Hospital, Sun Yat-sen University, Guangzhou; Hongbing Li, Beijing Tongren Hospital, Beijing; Peijing Liu, the Affiliated Hospital of Jiangsu University, Jiangsu; Yiming Mu, Chinese PLA General Hospital, Beijing; Changyu Pan, Chinese PLA General Hospital, Beijing; Meng Ren, Sun Yat-sen memorial Hospital, Sun Yat-sen University, Guangzhou; Yusheng Ren, Shanghai Changzheng Hospital, Shanghai; Yongquan Shi, Shanghai Changzheng Hospital, Shanghai; Dong Wang, the Affiliated Hospital of Jiangsu University, Jiangsu; Fang Wang, The affiliated hospital of Qingdao University, Shandong Province; Jingjing Wang, Chinese PLA General Hospital, Beijing; Yangang Wang, The affiliated hospital of Qingdao University, Shandong Province; Li Yan, Sun Yat-sen memorial Hospital, Sun Yat-sen University, Guangzhou; Guoqing Yang, Chinese PLA General Hospital, Beijing; Jinkui Yang, Beijing Tongren Hospital, Beijing; Xiaolong Yu, The affiliated hospital of Qingdao University, Shandong Province; Guoyue Yuan, the Affiliated Hospital of Jiangsu University, Jiangsu; Mingtong Xu, Sun Yat-sen memorial Hospital, Sun Yat-sen University, Guangzhou; Xiuli Zhao, Beijing Tongren Hospital, Beijing; Jiaoyang Zheng, Shanghai Changzheng Hospital, Shanghai; Lingli Zhou, Peking University People's Hospital, Beijing.

Czech Republic: Kateřina Anderlová, III. Interní klinika VFN v Praze, U Nemocnice 1, Prague; Jitka Brožová, Diabetologické centrum I. interní kliniky FN Plzeň, Alej Svobody 80, Plzeň; Martin Haluzík, III. Interní klinika VFN a 1. LF UK v Praze, U Nemocnice 1, Prague; Věra Hanušová, III. Interní klinika VFN v Praze, U Nemocnice 1, Praha; Mikuláš Kosák, III. Interní klinika VFN v Praze, U Nemocnice 1, Prague; Jarmila Křížová, III. Interní klinika VFN v Praze, U Nemocnice 1, Prague; Miloš Mráz, III. Interní klinika VFN v Praze, U Nemocnice 1, Prague; Klára Owen, III. Interní klinika VFN v Praze, U Nemocnice 1, Prague; Zdenek Rušavý, Diabetologické centrum I. interní kliniky FN Plzeň, Alej Svobody 80, Plzeň; Jitka Tomešová, Diabetologické centrum I. interní kliniky FN Plzeň, Alej Svobody 80, Plzeň; Pavel Trachta, III. Interní klinika VFN v Praze, U Nemocnice 1, Prague; Michal Žourek, Diabetologické centrum I. interní kliniky FN Plzeň, Alej Svobody 80, Plzeň.

Denmark: Per Heden Andersen, Endokrinologisk Ambulatorium, Sydvestjysk Sygehus, Esbjerg; Trine Boesgaard, Steno Diabetes Centre, Gentofte; Sidsel Christensen, Steno Diabetes Centre, Gentofte; Jeppe Gram, Endokrinologisk Ambulatorium, Sydvestjysk Sygehus, Esbjerg; Søren Gregersen, Endokrinologisk Afdeling Medicinsk, MEA, Århus Universitetshospital THG, Århus; Jan Erik Henriksen, Endokrinologisk afdeling M, Odense Universitets Hospital, Odense; Kjeld Hermansen, Endokrinologisk Afdeling Medicinsk, MEA, Århus Universitetshospital THG, Århus; Poul Erik Jakobsen, Endokrinologisk Afdeling, Aalborg Sygehus, Aalborg; Jens Jensen, Endokrinologisk Afdeling Medicinsk, MEA, Århus Universitetshospital THG, Århus; Peter Kristensen, Steno Diabetes Centre, Gentofte; Annesofie Krogsaa, Steno Diabetes Centre, Gentofte; Mette Larsen, Endokrinologisk Afdeling Medicinsk, MEA, Århus Universitetshospital THG, Århus; Hans Henrik Lervang, Endokrinologisk Afdeling, Aalborg Sygehus Aalborg; Sten Madsbad, Medicinsk endokrinologisk amubalatorium, Hvidovre Hospital, Hvidovre; Lene Mortensen, Endokrinologisk Afdeling Medicinsk, MEA, Århus Universitetshospital THG, Århus; Thomas Olesen, Endokrinologisk afdeling M, Odense Universitets Hospital, Odense; Anna Pietraszek, Endokrinologisk Afdeling, Aalborg Sygehus, Aalborg; Martin Ridderstråle, Steno Diabetes Centre, Gentofte; Narges Safai, Steno Diabetes Centre, Gentofte; Anne Grethe Schioldan, Endokrinologisk Afdeling Medicinsk, MEA, Århus Universitetshospital THG, Århus; Christina Schmidt, Endokrinologisk afdeling M, Odense Universitets Hospital, Odense; Ole Snorgaard, Medicinsk endokrinologisk amubalatorium, Hvidovre Hospital, Hvidovre; Jacob Stidsen, Endokrinologisk afdeling M, Odense Universitets Hospital, Odense; Lise Tarnow, Steno Diabetes Center, Gentofte.

Finland: Henna Cederberg, Kuopio University Hospital, Kuopio; Hannu Haapamäki, Mehiläinen, Lahti; Janne Hukkanen, Oulu Sisätautien tutkimusyksikkö, Oulu; Raimo Jauhainen, Kuopio University

## SUPPLEMENTARY DATA

Hospital, Kuopio; Mona-Lisa Kujari, Oulu Sisätautien tutkimusyksikkö, Oulu; Markku Laakso, Kuopio University Hospital, Kuopio; Jorma Lahtela, Finn-Medi Research Ltd., Tampere; Merja Laine, Myyrmäki Health Centre, Vantaa; Jyrki Mäkelä, Mehiläinen, Lahti; Manna Miilunpohja, Kuopio University Hospital, Kuopio; Markku Savolainen, Oulu Sisätautien tutkimusyksikkö, Oulu; Jyrki Taurio, Finn-Medi Research Ltd., Tampere; Markku Vänttinen, Kuopio University Hospital, Kuopio

France: Christine Creton, Nancy; Valeria Cosma, Hôpital Caremeau, Nîmes; Jean Dillinger, Mondelange; Jean-Luc Jacques, Mars-la-Tour; Anne-Marie Guedj, Hôpital Caremeau, Nîmes; Michel Marre, Hôpital Bichat, Paris; Mustapha Moulla, Pont-à-Mousson; Catherine Petit, Centre Hospitalier Général Sud Francilien, Corbeil-Essonnes; Victor Ratsianoharana, Bousse; Dominique Richter, Jarny; Michel Rodier, Hôpital Caremeau, Nîmes; Ronan Roussel, Service de Diabétologie, Hôpital Bichat, Paris; Florence Travert, Service de Diabétologie, Hôpital Bichat, Paris.

Germany: Andrea Hinz, Diabetologische Schwerpunktpraxis, Gifhorn; Eberhard Politz, Diabetologische Schwerpunktpraxis, Gifhorn; Michael Esser, Praxis Esser, Essen; Ulrich Deuse, Praxis Esser, Essen; Dirk Mittag, Zentrum für Klinische Studien Südbrandenburg GmbH, Elsterwerda; Andreas Hagenow, Zentrum für Klinische Studien Südbrandenburg GmbH, Elsterwerda; Frohmut Jacob, Praxis für Prävention und Therapie, Villingen-Schwenningen; Stephan Jacob, Praxis für Prävention und Therapie, Villingen-Schwenningen; Ralf Jordan, Clintrial Berlin Praxis für Medizinische Studien, Berlin; Dominique Gantke, Clintrial Berlin Praxis für Medizinische Studien, Berlin; Ulrike Venschott-Jordan, ClinTrial Berlin c/o Diabetologie Steglitz, Berlin; Carmen Löhr, Studienzentrum, Aschaffenburg; Gerhard Klausmann, Studienzentrum, Aschaffenburg; Karin Eschenbrücher, Studienzentrum, Aschaffenburg; Mahir Karakas, Universitätsklinikum Ulm Innere Medizin II, Ulm; Bernd Jahrasdörfer, Universitätsklinikum Ulm Innere Medizin II, Ulm; Markus Rolf Kunze, Universitätsklinikum Ulm Innere Medizin II, Ulm; Jochen Wöhrle, Universitätsklinikum Ulm Innere Medizin II, Ulm; Wolfgang König, Universitätsklinikum Ulm Innere Medizin II, Ulm; Heike Spielhagen, Praxis Dr. med. J Lüdemann, Falkensee; Adam Kilimnik, Praxis Dr. med. J Lüdemann, Falkensee; Hans-Peter Lüdemann, Praxis Dr. med. J Lüdemann, Falkensee; Jörg Lüdemann, Praxis Dr. med. J Lüdemann, Falkensee; Andrea Mölle, Diabetologicum Dresden, Dresden; Matthias Mölle, Diabetologicum Dresden, Dresden; Joachim Müller, Ambulanzzentrum, Schweinfurt; Steffi Appelt, Ambulanzzentrum, Schweinfurt; Anke Sauter, Praxis Sauter & Sauter & Hartmann, Wangen; Joachim Sauter, Praxis Sauter & Sauter & Hartmann, Wangen; Ulrike Hartmann, Praxis Sauter & Sauter & Hartmann, Wangen; Anja Löw, Medizinische Klinik LMU Präventive Kardiologie, München; Florian Krötz, Medizinische Klinik LMU Präventive Kardiologie, München; Hae-Young Sohn, Medizinische Klinik LMU Präventive Kardiologie, München; Clemens von Schacky, Medizinische Klinik LMU Präventive Kardiologie, München; Volker Klauss, Medizinische Klinik LMU Präventive Kardiologie, München; Desiree Braun, Gemeinschaftspraxis Segner & Braun, St. Ingbert; Alexander Segner, Gemeinschaftspraxis Segner & Braun, St. Ingbert; Elizaveta Degtyareva, Synexus Clinical Research GmbH, Leipzig; Kristin Kreutzmann, GWT-TUD GmbH, Zentrum für Klinische Studien Forschungsbereich Endokrinologie und Stoffwechsel, Dresden; Rita Paschmionka, Synexus Clinical Research GmbH, Leipzig; Nora Hauck, Synexus Clinical Research GmbH, Leipzig; Olena Sihal, Synexus Clinical Research GmbH, Leipzig; Anne-Kathrin Busch, Synexus Clinical Research GmbH, Leipzig; Olga Maus, Synexus Clinical Research GmbH, Leipzig; Petra Stübler, Landteilstr 24, 68163 Mannheim; Sabine Füllgraf-Horst, Landteilstr 24, 68163 Mannheim; Angelika Vietzke, Studienzentrum in Berlin, Berlin; Christine Müller, Studienzentrum in Berlin, Berlin; Regina Tosch-Sisting, Studienzentrum in Berlin, Berlin; Bianca Lengsfeld, RED-Institut für medizinische Studien und Fortbildung GmbH, Oldenburg; Julia Thaler, RED-Institut für medizinische Studien und Fortbildung GmbH, Oldenburg; Thomas Schaum, RED-Institut für medizinische Studien und Fortbildung GmbH, Oldenburg; Joerg Steindorf, Diabetes-

## SUPPLEMENTARY DATA

Schwerpunktpraxis, Schkeuditz; Sandra Steindorf, Diabetes-Schwerpunktpraxis, Schkeuditz; Alexander König, Klemens-Mengele Str. 10, 89407 Dillingen; Stefan Reitschuster, Klemens-Mengele Str. 10, 89407 Dillingen; Daniel Schlott, Blankeneser Bahnhofstr 23, 22587 Hamburg; Hans-Ulrich Clever, Blankeneser Bahnhofstr 23, 22587 Hamburg; Peter Witzel, Blankeneser Bahnhofstr 23, 22587 Hamburg; Hans-Peter Kempe, Gemeinschaftspraxis Dr. med. Kempe Dr. med. Stemler, Ludwigshafen; Lutz Stemler, Gemeinschaftspraxis Dr. med. Kempe Dr. med. Stemler, Ludwigshafen.

Greece: Apostolos Benis, "Thermi" Private Hospital, Thessaloniki; Marian Benroubi, Athens Polyclinic General Hospital, Athens; Evarthia Diakoumopoulou, Diabetes Centre, Laiko General Hospital of Athens, Athens; Kyriakos Kazakos, "Thermi" Private Hospital, Thessaloniki; Nikolaos Kypraios, Athens Polyclinic General Hospital, Athens; Stavros Liatis, Diabetes Centre, Laiko General Hospital of Athens, Athens; Emmanouil Pagkalos, "Thermi" Private Hospital, Thessaloniki; Evangelia Siami, Laiko General Hospital of Athens, Athens; Nikolaos Tentolouris, Diabetes Centre, Laiko General Hospital of Athens, Athens.

India: Varun Chandra Alur, Department of Endocrinology and Diabetes, Amrita Institute of Medical Sciences, Kerala; Megha Agrawal, TOTALL Diabetes Hormone Institute, Indore; Mazher Ali, CARE Outpatient Centre, Babu Khan Chambers, Hyderabad; Arthur Asirvatham, Kuruvikaran Salai, Madurai, Tamil Nadu; Evelyn Asirvatham, Kuruvikaran Salai, Madurai, Tamil Nadu; Tushar R Bandgar, Seth GS Medical College & KEM Hospital, Parel, Mumbai; Madhuri Balaji, Diabetes Research Institute, Chennai; Neil Bardoloi, Excel Care Hospitals, Ulubari, Guwahati; Manash Baruah, Excel Care Hospitals, Ulubari, Guwahati; Ragini Bekur, Kasturba Hospital, Manipal, Karnataka; Anil Bhansali, Postgraduate Institute of Medical Education and Research, Chandigarh; Sumith Bhatia, Kasturba Hospital, Manipal, Karnataka; Suchitra Bhonsley, Bangalore Clinisearch, Kalyan Nagar, Bangalore, Karnataka; Sonali Bhuyan, Excel Care Hospitals, Ulubari, Guwahati; Bidyut Borah, Christian Medical College, Vellore, Tamil Nadu; Nancy Bright, Bangalore Clinisearch, Kalyan Nagar, Bangalore, Karnataka; Ambrish C, Bangalore Clinisearch, Kalyan Nagar, Bangalore, Karnataka; Tirthankar Chaudhury, Apollo Gleneagles Hospital, Kolkata, West Bengal; Sapna Choudhury, TOTALL Diabetes Hormone Institute, Indore; Gopi Chellan, Department of Endocrinology and Diabetes, Amrita Institute of Medical Sciences, Kerala; Mrinal Das, Apollo Gleneagles Hospital, Kolkata, West Bengal; Mala Dharmalingam, Bangalore Endocrinology & Diabetes Research Centre, Malleshwaram, Bangalore, Karnataka; Pinaki Dutta, Postgraduate Institute of Medical Education and Research, Chandigarh; Anil Erugu, Christian Medical College, Vellore, Tamil Nadu; Vinutha F P, Bangalore Endocrinology & Diabetes Research Centre, Malleshwaram, Bangalore, Karnataka; Prasad Gunasekaran, Christian Medical College, Vellore, Tamil Nadu; Riddhi Das Gupta, Christian Medical College, Vellore, Tamil Nadu; Asif Iqbal, Kasturba Hospital, Manipal, Karnataka; Padoor Jagadish, Madras Diabetes Research Foundation, Chennai, Tamil Nadu; Sanjay Jain, TOTALL Diabetes Hormone Institute, Indore; Sunil Jain, TOTALL Diabetes Hormone Institute, Indore; Helen Jebasingh, Kuruvikaran Salai, Madurai, Tamil Nadu; Anulekha John, Christian Medical College, Vellore, Tamil Nadu; Maya John, Jothydev's Diabetes & Research Center, Kerala; Bharti Kalra, Bharti Research Institute of Diabetes & Endocrinology, Karnal, Haryana; Sanjay Kalra, Bharti Research Institute of Diabetes & Endocrinology, Karnal, Haryana; Prakash Kasaragod, Department of Endocrinology and Diabetes, Amrita Institute of Medical Sciences, Kerala; Jothydev Kesavadev, Jothydev's Diabetes & Research Center, Kerala; Harish Kumar, Department of Endocrinology and Diabetes, Amrita Institute of Medical Sciences, Kerala; Prasanna Kumar, Bangalore Diabetes Hospital, Vasanth Nagar Bangalore, Karnataka; Vivek Lakshmanan, Department of Endocrinology and Diabetes, Amrita Institute of Medical Sciences, Kerala; Anurag Ranjan Lila, Seth GS Medical College & KEM Hospital, Parel, Mumbai; Tom Mathew, Jothydev's Diabetes & Research Center, Kerala; Hameed Miyan, Bangalore Clinisearch, Kalyan Nagar,

## SUPPLEMENTARY DATA

Bangalore, Karnataka; Tara Mohan, Jothydev's Diabetes & Research Center, Kerala; Ashwin Motha, Christian Medical College, Vellore, Tamil Nadu; Chaithanya Murthy, Christian Medical College, Vellore, Tamil Nadu; Shivashankara N, Kasturba Hospital, Manipal, Karnataka; Amrit Nanaiah, Christian Medical College, Vellore, Tamil Nadu; Tittu Ommen, Department of Endocrinology and Diabetes, Amrita Institute of Medical Sciences, Kerala; Keshava Pani, Bangalore Clinisearch, Kalyan Nagar Bangalore, Karnataka; Kirnesh Pandey, TOTALL Diabetes Hormone Institute, Indore; Shamanna Paramesh, Bangalore Clinisearch, Kalyan Nagar, Bangalore, Karnataka; Vijayalakshmi Paramesh, Bangalore Diabetes Centre, Kalyan Nagar Bangalore, Karnataka; Binu Pillai, Department of Endocrinology and Diabetes, Amrita Institute of Medical Sciences, Kerala; Mukhyaprana Prabhu, Kasturba Hospital, Manipal, Karnataka; Kalki R.C, Christian Medical College, Vellore, Tamil Nadu; Saritha Ramachandran, Bangalore Diabetes Hospital, Vasanth Nagar Bangalore, Karnataka; Muthu Ramu, Madras Diabetes Research Foundation, Chennai, Tamil Nadu; Yashwanth Rao, Kasturba Hospital, Manipal, Karnataka; Sanjay Reddy, Bangalore Diabetes Hospital, Bangalore Vasanth Nagar, Bangalore, Karnataka; Padma Saikia, Bangalore Clinisearch, Kalyan Nagar, Bangalore, Karnataka; Kavitha Saravu, Kasturba Hospital, Manipal, Karnataka; Kasthuri Selvam, Madras Diabetes Research Foundation, Chennai, Tamil Nadu; Bipin Sethi, CARE Outpatient Centre, Babu Khan Chambers, Hyderabad; Arun Shankar, Jothydev's Diabetes & Research Center, Karala; Amit Sharma, Bharti Research Institute of Diabetes & Endocrinology, Karnal, Haryana ; Nalini Shah, Seth GS Medical College & KEM Hospital, Parel, Mumbai; Priti Shankar, Bangalore Endocrinology & Diabetes Research Centre, Malleshwaram, Bangalore, Karnataka; Ranjan Shetty, Kasturba Hospital, Manipal, Karnataka; Vyankatesh Shivane, Seth GS Medical College & KEM Hospital, Parel, Mumbai; Sudha Srivalli, Bangalore Clinisearch, Kalyan Nagar, Bangalore, Karnataka; Sufiya Thaseen, Christian Medical College, Vellore, Tamil Nadu; Nihal Thomas, Christian Medical College, Vellore, Tamil Nadu; Sarada S, Christian Medical College, Vellore, TamilNadu; Amanchi Shirisha, Christian Medical College, Vellore, Tamil Nadu; Manvizhi Subramani, Christian Medical College, Vellore, Tamil Nadu; Balaji V, Diabetes Research Institute, Chennai; Mohan V, Madras Diabetes Research Foundation, Chennai, Tamil Nadu; Padmanaban V, Christian Medical College, Vellore, Tamil Nadu; Muralidhar Verma, Kasturba Hospital, Manipal, Karnataka; Sudha Vidyasagar, Kasturba Hospital, Manipal, Karnataka; Vidya Walinjkar, Madras Diabetes Research Foundation, Chennai, Tamil Nadu; Rama Walia, Postgraduate Institute of Medical Education and Research, Chandigarh.

Ireland: Colin Davenport, Beaumont Hospital, Dublin; Hannah Forde, Beaumont Hospital, Dublin; Gaoatswe Gadintshware, Diabetes Day Centre, St Vincent's University Hospital, Dublin; KJ Gan, St Vincent's University Hospital, Dublin; Frances Hayes, St Vincent's University Hospital, Dublin; Aftab Khattak, St Vincent's University Hospital, Dublin; Jean O'Connell, St Vincent's University Hospital, Dublin; Donal O'Shea, St Vincent's University Hospital, Dublin; Diarmuid Smith, Beaumont Hospital, Dublin.

Israel: Victorya Beilin, Rabin Medical Center, Hasharon Hospital, Petah Tikva; Avivit Cahn, Diabetes Unit, Hadassah Ein Karem Medical Center, Jerusalem; Ohad Cohen, Institute of Endocrinology Sheba Medical Center, Tel HaShomer; Tali Cukierman-Yaffe, Institute of Endocrinology, Sheba Medical Center, Tel HaShomer; Deeb Daoud, Rambam Medical Center, Haifa; Mahmud Darawsha, Lin Medical Center, Haifa; Dror Dicker, Rabin Medical Center, Hasharon Hospital, Petah Tikva; Alex Gavish, Diabetes Unit, Hadassah Ein Karem Medical Center, Jerusalem; Irit Hochberg, Rambam Medical Center, Haifa; Jacob Ilany, Institute of Endocrinology Sheba Medical Center, Tel HaShomer; Uri Inbal, Institute of Endocrinology, Sheba Medical Center, Tel HaShomer; Baruch Itzhak, Lin Medical Center, Haifa; Avraham Karasik, Institute of Endocrinology, Sheba Medical Center, Tel HaShomer; Eddy Karniel, Rambam Medical Center, Haifa; Nader Khader, Lin Medical Center, Haifa; Mogher Khamaisi,

## SUPPLEMENTARY DATA

Rambam Medical Center, Haifa; Dan Lender, Diabetes Unit, Hadassah Ein Karem Medical Center, Jerusalem; Gabriella Segal Lieberman, Institute of Endocrinology, Sheba Medical Center, Tel HaShomer; Riad Mahamid, Rambam Medical Center, Haifa; Dana Marcovicci, Rabin Medical Center - Hasharon Hospital, Petah Tikva; Leonid Michael, Institute of Endocrinology, Sheba Medical Center, Tel HaShomer; Oscar Minuchin, Lin Medical Center, Haifa; Ofri Mosenzon, Diabetes Unit, Hadassah Ein Karem Medical Center, Jerusalem; Feige Narevichius, Rambam Medical Center, Haifa; Ruth Percik, Institute of Endocrinology, Sheba Medical Center, Tel HaShomer; Marina Potekhin, Diabetes Unit, Hadassah Ein Karem Medical Center, Jerusalem; Itamar Raz, Diabetes Unit, Hadassah Ein Karem Medical Center, Jerusalem; Muhammad Sabbah, Lin Medical Center, Haifa; Said Sawaed, Lin Medical Center, Haifa; Daniel Schurr, Diabetes Unit, Hadassah Ein Karem Medical Center, Jerusalem; Elena Segal, Rambam Medical Center, Haifa; Ladislav Slezak, Lin Medical Center, Haifa; Ira Vollach, Institute of Endocrinology, Sheba Medical Center, Tel HaShomer; Adnan Zaina, Rambam Medical Center, Haifa; Moshe Zloczower, Rambam Medical Center, Haifa; Sagit Zolotov, Rambam Medical Center, Haifa.

Italy: Alessandro Antenore, Azienda Ospedaliero Universitaria Careggi, Firenze; Mariangela Arnone, Azienda Ospedaliera Universitaria Policlinico Paolo Giaccone, Palermo; Franco Arturi, Policlinico Mater Domini Università di Catanzaro Campus Germaneto, Catanzaro; Valeria Barbaro, Azienda Ospedaliero Universitaria Careggi, Firenze; Milena Barone, Policlinico Mater Domini Università di Catanzaro Campus Germaneto, Catanzaro; Rosamaria Di Biagio, Università degli Studi Gabriele d'Annunzio, Chieti; Chiara Buscemi, Azienda Ospedaliera Universitaria Policlinico Paolo Giaccone, Palermo; Silvio Buscemi, Azienda Ospedaliera Universitaria Policlinico Paolo Giaccone, Palermo; Raffaella Buzzetti, Ospedale Santa Maria Goretti, Latina; Alberto Di Carlo, Ospedale Civile Campo di Marte, Lucca; Angela Carlone, Ospedale Santa Maria Goretti, Latina; Vittoria Caruso, Policlinico Mater Domini Università di Catanzaro Campus Germaneto, Catanzaro; Ilaria Casadidio, Ospedale Civile Campo di Marte, Lucca; Fernanda Cerrelli, Policlinico Sant'Orsola-Malpighi, Bologna; Adolfo Ciavarella, Policlinico Sant'Orsola-Malpighi, Bologna; Laura Cipolloni, Ospedale Santa Maria Goretti, Latina; Alessandra Colella, Umberto I - Policlinico di Roma, Roma; Marco Colotto, Umberto I - Policlinico di Roma, Roma; Agostino Consoli, Università degli Studi Gabriele d'Annunzio, Chieti; Valentina Giulia Crippa, Ospedale San Raffaele, Milano; Ilaria Cuccuru, Ospedale Civile Campo di Marte, Lucca; Sabrina Cufone, Policlinico Mater Domini Università di Catanzaro Campus Germaneto, Catanzaro; Carla Desideri, Azienda Ospedaliero Universitaria Careggi, Firenze; Mara Fallarino, Umberto I - Policlinico di Roma, Roma; Fabrizio Febo, Università degli Studi Gabriele d'Annunzio, Chieti; Sebastiano Filetti, Umberto I - Policlinico di Roma, Roma; Chiara Foffi, Ospedale Santa Maria Goretti, Latina; Gloria Formoso, Università degli Studi Gabriele d'Annunzio, Chieti; Laura Frosio, Ospedale San Raffaele, Milano; Patrizia Di Fulvio, Università degli Studi Gabriele d'Annunzio, Chieti; Alessandra Gambineri, Università di Bologna, Azienda Ospedaliera S. Orsola Malpighi, Bologna; Federica Ginestra, Università degli Studi Gabriele d'Annunzio, Chieti; Michele Salvatore Grimaldi, Policlinico Sant'Orsola-Malpighi, Bologna; Caterina Lamanna, Azienda Ospedaliero Universitaria Careggi, Firenze; Gaetano Leto, Ospedale Santa Maria Goretti, Latina; Pietro Lucotti, Ospedale San Raffaele, Milano; Marina Lugarà, Policlinico Mater Domini Università di Catanzaro Campus Germaneto, Catanzaro; Gabriella Lumera, Ospedale San Raffaele, Milano; Andrea Magistro, Ospedale San Raffaele, Milano; Edoardo Mannucci, Azienda Ospedaliero Universitaria Careggi, Firenze; Marianna Maranghi, Umberto I - Policlinico di Roma, Roma; Daniele Martelli, Azienda Ospedaliero Universitaria Careggi, Firenze; Alessandro Mattina, Azienda Ospedaliera Universitaria Policlinico Paolo Giaccone, Palermo; Lucilla D. Monti, Ospedale San Raffaele, Milano; Martina Parise, Policlinico Mater Domini Università di Catanzaro Campus Germaneto, Catanzaro; Elisabetta Pedace, Policlinico Mater Domini Università di Catanzaro Campus Germaneto, Catanzaro; Francesca Perticone, Ospedale San

## SUPPLEMENTARY DATA

Raffaele, Milano; PierMarco Piatti, Ospedale San Raffaele, Milano; Maria Pompea Antonia Baldassarre, Università degli Studi Gabriele d'Annunzio, Chieti; Benedetta Ragghianti, Azienda Ospedaliero Universitaria Careggi, Firenze; Andrea Repaci, Università di Bologna, Azienda Ospedaliera S. Orsola Malpighi, Bologna; Danilo Ribichini, Università di Bologna, Azienda Ospedaliera S. Orsola Malpighi, Bologna; Silvia Da Ros, Umberto I - Policlinico di Roma, Roma; Margherita Rossi, Ospedale San Raffaele, Milano; Marcella Santilli, Umberto I - Policlinico di Roma, Roma; Giorgio Sesti, Policlinico Mater Domini Università di Catanzaro Campus Germaneto, Catanzaro; Emanuela Setola, Ospedale San Raffaele, Milano; Ermal Shehaj, Ospedale San Raffaele, Milano; Elena Succurro, Policlinico Mater Domini Università di Catanzaro Campus Germaneto, Catanzaro; Elodia Sussolano, Umberto I - Policlinico di Roma, Roma; Giovanna Tarquini, Umberto I - Policlinico di Roma, Roma; Salvatore Verga, Azienda Ospedaliera Universitaria Policlinico Paolo Giaccone, Palermo; Valentina Vitale, Azienda Ospedaliero Universitaria Careggi, Firenze.

Mexico: Ricardo Rodríguez Alanis, Hospital Universitario Dr. José Eleuterio González, Monterrey; María del Rosario Arechavaleta-Granell, Unidad de Patología Clínica, Guadalajara; Teresita de Jesús Beltran Jaramillo, Unidad de Patología Clínica, Guadalajara; David Amador de Jesús Rodríguez Berrones, Hospital Universitario Dr. José Eleuterio González, Monterrey; Ignacio Rodríguez Briones, Cardioarritmias e Investigación, S.C., San Luis Potosí; Rocio Rodríguez Briones, Cardioarritmias e Investigación, S.C., San Luis Potosí; Eduardo Saúl Acevedo Castañeda, Instituto Jalisciense de Investigación en Diabetes y Obesidad, S.C., Guadalajara; Jesus Benito Chapa Grimaldo, Hospital Universitario Dr. José Eleuterio González, Monterrey; Claudia Aida Flores-Moreno, Hospital Universitario Dr. José Eleuterio González, Monterrey; Sandra Garza Felix, Hospital Universitario Dr. José Eleuterio González, Monterrey; Jesus Nieto Flores, Instituto Jalisciense de Investigación en Diabetes y Obesidad, Guadalajara; Guadalupe Morales Franco, Centro de Diabetes Durango, Durango; Ricardo Aarón Garza Morán, Hospital Universitario Dr. José Eleuterio Gonzalez, Monterrey; Sandra Ofelia Hernández González, Investigación Clínica Especializada, Guadalajara; Guillermo González-Gálvez, Instituto Jalisciense de Investigación en Diabetes y Obesidad, S.C., Guadalajara; José Gerardo González González, Hospital Universitario Dr. José Eleuterio González, Monterrey; Eduardo Hernández Salazar, Unidad de Patología Clínica, Guadalajara; Pedro Alberto García Hernández, Hospital Universitario Dr. José Eleuterio González, Monterrey; Sandra Campos Hurtado, Centro de Diabetes Durango, Durango; Martha Leticia López-Velázco, Instituto Jalisciense de Investigación en Diabetes y Obesidad, S.C., Guadalajara; Ernesto Germán Cardona Muñoz, Investigación Clínica Especializada, Guadalajara; Ricardo Nuñez Márquez, Unidad de Patología Clínica, Guadalajara; Oscar Vladimir Campos Moreno, Centro de Diabetes Durango, Durango; Francisco Javier Cavazos Oliveros, Hospital Universitario Dr. José Eleuterio González, Monterrey; Jose Alfredo Haro Ortiz, Cardioarritmias e Investigación, S.C., San Luis Potosí; Emilia Susana Pelayo-Orozco, Instituto Jalisciense de Investigación en Diabetes y Obesidad, S.C., Guadalajara; Paulina Sida Perez, CardioPrevent S.C., Durango; Roxana Vazquez Ramírez, Hospital Universitario Dr. José Eleuterio González, Monterrey; Maritta A. Uribe Rios, CardioPrevent S.C., Durango; Julio César López Rodríguez, Hospital Universitario Dr. José Eleuterio González, Monterrey; Mónica Rodríguez Rosales, Hospital Universitario Dr. José Eleuterio Gonzalez, Monterrey; Israel Robledo Durón, Unidad de Patología Clínica, Guadalajara; Ricardo Alvarado Ruíz, CardioPrevent S.C., Durango; Gerardo González Saldivar, Hospital Universitario Dr. José Eleuterio González, Monterrey; Roxana Reyes Sánchez, CardioPrevent S.C., Durango; Blanca Leticia Sánchez-Michel, Instituto Jalisciense de Investigación en Diabetes y Obesidad, S.C., Guadalajara; Aleida Yael Contreras Sandoval, Unidad de Patología Clínica, Guadalajara; Arturo Velasco Gutiérrez, Instituto Jalisciense de Investigación en Diabetes y Obesidad, S.C., Guadalajara; Ana Elena Perez Verdín, Instituto Jalisciense de Investigación en Diabetes y Obesidad, S.C., Guadalajara; María Guadalupe Ramos Zavala, Investigación Clínica Especializada, Guadalajara; .

## SUPPLEMENTARY DATA

Netherlands: Evertine Abbink-Zandbergen, Radboud University Medical Centre, Nijmegen; Mohamed Ahdi, Slotervaart Ziekenhuis, Amsterdam; Annemiek Bugter, SHL-Groep, Etten-Leur; Marcel van Dijk, University Medical Center Utrecht, Utrecht; Geert Eisma, SHL-Groep, Etten-Leur; Ronald Erdtsieck, Máxima Medisch Centrum, Eindhoven; Maaike Gerards, Slotervaart Ziekenhuis, Amsterdam; Victor Gerdes, Slotervaart Ziekenhuis, Amsterdam; Harm Haak, Máxima Medisch Centrum, Eindhoven; Veroniek Harbers, Radboud University Medical Centre, Nijmegen; Klaas Hoogenberg, Martini Ziekenhuis, Groningen; Frank Huvers, Bethesda Diabetes Research Center, Hoogeveen; Wilbert Janssen, Martini Ziekenhuis, Groningen; Marleen Kars, Academic Hospital Maastricht, Maastricht; Adriaan Kooy, Bethesda Diabetes Research Center, Hoogeveen; M. Lafeber, University Medical Center Utrecht, Utrecht; Sabine Landewé-Cleuren, Academic Hospital Maastricht, Maastricht; Aloysius Lieverse, Máxima Medisch Centrum, Eindhoven; Eelco Meesters, Slotervaart Ziekenhuis, Amsterdam; Sharon Moerman, Divisie Julius Centrum, University Medical Center Utrecht, Utrecht; Dirk van Moorsel, Academic Hospital Maastricht, Maastricht; Jeroen Nijhuis, Academic Hospital Maastricht, Maastricht; Guy Rutten, University Medical Center Utrecht, Utrecht; C.J Smit, Martini Ziekenhuis, Groningen; Cornelius Tack, Radboud University Medical Centre, Nijmegen; Kristof Thevissen, Máxima Medisch Centrum, Eindhoven; Dirk Meijer Timmerman Thijssen, SHL-Groep, Etten-Leur; Annelieke Willemse, Máxima Medisch Centrum, Eindhoven.

Norway: Kåre Birkeland, Endokrinologisk Avdeling, Oslo Universitetssykehus, Oslo; John Cooper, Stavanger Helseforskning, Stavanger; Hanne Gulseth, Oslo Universitetssykehus, Oslo; Jørn Hjelmesæth, Senter for Syklig Overvekt, Tønsberg; Pål Jørgensen, Endokrinologisk Seksjon, Medisinsk avdeling, Trondheim; Bente K. Kilhovd, Oslo Universitetssykehus, Oslo; Bård Kulseng, Endokrinologisk Seksjon, Medisinsk Avdeling, Trondheim; Bjørn Nicolaisen, Endokrinologisk Seksjon, Medisinsk Avdeling, Trondheim; Øivind Skadberg, Stavanger Helseforskning, Stavanger, Njord Nordstrand, Senter for syklig overvekt, Tønsberg; Cecilie Wium, Endokrinologisk Avdeling, Oslo Universitetssykehus, Oslo.

Poland: Karolina Antkowiak-Piatyszek, Synexus Polska Sp, Warszawa; Małgorzata Arciszewska, NZOZ Specjalistyczny Ośrodek Internistyczno-Diabetologiczny, Białystok; Agnieszka Bajkowska-Fiedziukiewicz, Centrum Medyczne OmniMed, Łódź; Paweł Bogdanski, Oddział Nadciśnienia Tętniczego i Zaburzeń Metabolicznych, Katedra i Klinika Chorób Wewnętrznych, Zaburzeń Metabolicznych i Nadciśnienia Tętniczego Uniwersytetu Medycznego im. K. Marcinkowskiego w Poznaniu, Poznań; Urszula Czubek, UNICARDIA Specjalistyczne Centrum Leczenia Chorob Serca i Naczyn & UNIMEDICA Specjalistyczne Centrum Medyczne, Kraków; Katarzyna Cypryk, Centrum Medyczne OmniMed, Łódź; Jan Dabrowski, Centrum Medyczne OmniMed, Łódź; Magda Dabrowska, Synexus Polska Sp, Warszawa; Marek Dwojak, Synexus Polska Sp, Wrocław; Szymon Dziedzic, Śląskie Centrum Osteoporozy, Katowice; Tomasz Dziewit, Śląskie Centrum Osteoporozy, Katowice; Małgorzata Faligowska, Synexus Polska Sp, Warszawa; Grazyna Fedor-Plenkowska, Medyczne Centrum Diabetologiczno-Endokrynologiczno-Metaboliczne "Diab-Endo-Met", Kraków; Edward Franek, Centralny Szpital Kliniczny MSW w Warszawie, Warszawa; Grzegorz Gajos, UNICARDIA Specjalistyczne Centrum Leczenia Chorob Serca i Naczyn & UNIMEDICA Specjalistyczne Centrum Medyczne, Kraków; Danuta Galicka-Latala, SPZOZ Uniwersytecki Szpital w Krakowie, Kraków; Alicja Galuszka-Bilinska, Samodzielny Publiczny Zakład Opieki Zdrowotnej, Ruda Śląska; Izabella Gladysz, Synexus Polska Sp, Warszawa; Joanna Gryciewicz, Centrum Medyczne OmniMed, Łódź; Grzegorz Hachula, Śląskie Centrum Osteoporozy, Katowice; Izabela Janas, SPZOZ Uniwersytecki Szpital w Krakowie, Kraków; Ewa Jazwinska-Tarnawska, Synexus Polska Sp, Wrocław; Krystyna Jedynasty, Centralny Szpital Kliniczny MSW w Warszawie, Warszawa; Małgorzata Jozefowska, Centrum

## SUPPLEMENTARY DATA

Medyczne OmniMed, Lodz; Anna Kaminska, Bydgoskie Centrum Diabetologii i Endokrynologii, Bydgoszcz; Beata Katra, SPZOZ Uniwersytecki Szpital w Krakowie, Kraków; Jolanta Kitowska-Koterla, Śląskie Centrum Osteoporozy, Katowice; Tomasz Klupa, SPZOZ Uniwersytecki Szpital w Krakowie, Kraków; Teresa Koblik, SPZOZ Uniwersytecki Szpital w Krakowie, Kraków; Ewa Konduracka, UNICARDIA Specjalistyczne Centrum Leczenia Chorob Serca i Naczyn & UNIMEDICA Specjalistyczne Centrum Medyczne, Kraków; Jan Konieczny, KO-MED Marek Konieczny Centrum Wielospecjalistycznej Opieki Ambulatoryjnej z Ambulatoryjnym Osrodkiem Zabiegowym, Pulawy; Marek Konieczny, KO-MED Marek Konieczny Centrum Wielospecjalistycznej Opieki Ambulatoryjnej z Ambulatoryjnym Osrodkiem Zabiegowym, Pulawy; Marcin Kosinski, Centrum Medyczne OmniMed, Lodz; Grzegorz Kulkowski, Samodzielny Publiczny Zaklad Opieki Zdrowotnej, Ruda Śląska; Marcin Kunecki, Śląskie Centrum Osteoporozy, Katowice; Małgorzata Kurmaniak, Samodzielny Publiczny Zaklad Opieki Zdrowotnej, Ruda Śląska; Robert Lesniewski, Centralny Szpital Kliniczny MSW w Warszawie, Warszawa; Teresa Lominska, Centralny Szpital Kliniczny MSW w Warszawie, Warszawa; Beata Losa, Samodzielny Publiczny Zaklad Opieki Zdrowotnej, Ruda Śląska; Danuta Majkowska, Medyczne Centrum Diabetologiczno-Endokrynologiczno-Metaboliczne "Diab-Endo-Met", Kraków; Maciej Malecki, SPZOZ Uniwersytecki Szpital w Krakowie, Kraków; Joanna Mirocka, Medyczne Centrum Diabetologiczno-Endokrynologiczno-Metaboliczne "Diab-Endo- Met", Kraków; Marcin Misztal, UNICARDIA Specjalistyczne Centrum Leczenia Chorob Serca i Naczyn & UNIMEDICA Specjalistyczne CentrumMedyczne, Kraków; Krzysztof Mruk, Medyczne Centrum Diabetologiczno-Endokrynologiczno-Metaboliczne "Diab-Endo-Met", Kraków; Katarzyna Musialik, Oddział Nadciśnienia Tętniczego i Zaburzeń Metabolicznych, Katedra i Klinika Chorób Wewnętrznych, Zaburzeń Metabolicznych i Nadciśnienia Tętniczego Uniwersytetu Medycznego im. K. Marcinkowskiego w Poznaniu, Poznan; Henryka Olejniczak, Bydgoskie Centrum Diabetologii i Endokrynologii, Bydgoszcz; Piotr Opadczuk, Synexus Polska Sp, Warszawa; Jadwiga Peczynska, NZOZ Specjalistyczny Ośrodek Internistyczno-Diabetologiczny, Białystok; Maria Plinta, Medyczne Centrum Diabetologiczno-Endokrynologiczno-Metaboliczne "Diab-Endo-Met", Kraków; Mirosława Polaszewska-Muszynska, Bydgoskie Centrum Diabetologii i Endokrynologii, Bydgoszcz; Elzbieta Przech, Centrum Medyczne OmniMed, Lodz; Danuta Pupek-Musialik, Oddział Nadciśnienia Tętniczego i Zaburzeń Metabolicznych, Katedra i Klinika Chorób Wewnętrznych, Zaburzeń Metabolicznych i Nadciśnienia Tętniczego Uniwersytetu Medycznego im. K. Marcinkowskiego w Poznaniu, Poznan; Zofia Ruzga, Synexus Polska Sp, Wrocław; Zdzisława Scibor, Centrum Medyczne OmniMed, Lodz; Anna Sidorowicz-Bialynicka, Synexus Polska Sp, Wrocław; Anna Siegel, Śląskie Centrum Osteoporozy, Katowice; Andrzej Stankiewicz, Medyczne Centrum Diabetologiczno-Endokrynologiczno-Metaboliczne "Diab-Endo-Met", Kraków; Agnieszka Strzelecka-Sosik, KO-MED Marek Konieczny Centrum Wielospecjalistycznej Opieki Ambulatoryjnej z Ambulatoryjnym Osrodkiem Zabiegowym, Pulawy; Teresa Swierszcz, NZOZ Specjalistyczny Ośrodek Internistyczno-Diabetologiczny, Białystok; Monika Szulinska, Oddział Nadciśnienia Tętniczego i Zaburzeń Metabolicznych, Katedra i Klinika Chorób Wewnętrznych, Zaburzeń Metabolicznych i Nadciśnienia Tętniczego Uniwersytetu Medycznego im. K. Marcinkowskiego w Poznaniu, Poznan; Katarzyna Szymkowiak, Synexus Polska Sp, Wrocław; Iwona Trybul, SPZOZ Uniwersytecki Szpital w Krakowie, Kraków; Przemysław Witek, SPZOZ Uniwersytecki Szpital w Krakowie, Kraków; Iwona Wozniak, KO-MED Marek Konieczny Centrum Wielospecjalistycznej Opieki Ambulatoryjnej z Ambulatoryjnym Osrodkiem Zabiegowym, Pulawy; Jan Zambrzycki, Synexus Polska Sp, Warszawa; Grazyna Zarzycka-Lindner, Bydgoskie Centrum Diabetologii i Endokrynologii, Bydgoszcz; Dorota Zuradzka-Wajda, Medyczne Centrum Diabetologiczno-Endokrynologiczno-Metaboliczne "Diab-Endo-Met", Kraków; Monika Zurawska-Klis, Centrum Medyczne OmniMed, Lodz.

Republic of Korea: Hwa Young Ahn, Seoul National University Bundang Hospital, Seongnam; Sang

## SUPPLEMENTARY DATA

Ouk Chin, Kyung-hee University Medical Center, Seoul; Sung Hee Choi, Seoul National University Bundang Hospital, Seongnam; Suk Chon, Kyung-hee University Medical Center, Seoul; Kyung Ah Han, Eulji General Hospital, Seoul; Hak Chul Jang, Seoul National University Bundang Hospital, Seongnam; Ki Cheon Jeong, National Health Insurance Corporation Ilsan Hospital, Goyang; Seon Mee Kang, Seoul National University Bundang Hospital, Seongnam; Jin Woo Kim, Kyung-hee University Medical Center, Seoul; Hun-Sung Kim, The Catholic University of Korea, Seoul St. Mary's Hospital, Seoul; Soo Joong Kim, Kyung-hee University Medical Center, Seoul; Sung Woon Kim, Kyung-hee University Medical Center, Seoul; Young Seol Kim, Kyung-hee University Medical Center, Seoul; Eun Young Lee, National Health Insurance Corporation Ilsan Hospital, Goyang; Soo Lim, Seoul National University Bundang Hospital, Seongnam; Kyung Wan Min, Eulji General Hospital, Seoul; Joo Young Nam, National Health Insurance Corporation Ilsan Hospital, Goyang; Seung Joon Oh, Kyung-hee University Medical Center, Seoul; So Young Park, Kyung-hee University Medical Center, Seoul; Sang Youl Rhee, Kyung-hee University Medical Center, Seoul; Jung Ah Shin, The Catholic University of Korea, Seoul St. Mary's Hospital, Seoul; Jung Il Son, Kyung-hee University Medical Center, Seoul; Young Duk Song, National Health Insurance Corporation Ilsan Hospital, Goyang; Jeong Taek Woo, Kyung-hee University Medical Center, Seoul; Hae Kyung Yang, The Catholic University of Korea, Seoul St. Mary's Hospital, Seoul; JeongSeon Yoo, National Health Insurance Corporation Ilsan Hospital, Goyang; Ji Won Yoon, Seoul National University Bundang Hospital, Seongnam; Kun-Ho Yoon, The Catholic University of Korea, Seoul St. Mary's Hospital, Seoul.

Romania: Rodica Avram, County Hospital Deva, Deva; Marioara Daniela Braicu, Clinical County Emergency Hospital, Craiova; Luminita Carlan, Bacau County Emergency Hospital, Bacau; Doina Catrinoiu, Emergency County Hospital, Constanta; Daniela Ciomos, Centrul Medical PULS, Târgu Mureş; Alina Ciorba, County Emergency Hospital Satu Mare, Satu Mare; Gheorghe Ghise, Clinical County Hospital Sibiu, Sibiu; Sigina Girgavu, Clinical County Emergency Hospital, Craiova; Cristian Guja, Institute of Diabetes, Nutrition and Metabolic Diseases, Bucharest; Doina Mihai, Institute of Diabetes, Nutrition and Metabolic Diseases, Bucharest; Maria Mota, Clinical County Emergency Hospital, Craiova; Simona Nicodim, Emergency County Hospital, Constanta; Laura Nistor, SC Consultmed SRL, Iasi; Delia Reurean Pintilei, SC Consultmed SRL, Iasi; Ella Pintilei, SC Consultmed SRL, Iasi; Noemí Pletea, Bacau County Emergency Hospital, Bacau; Alina Pop, County Emergency Hospital Satu Mare, Satu Mare; Mihaela Rosu, Clinical County Hospital, Timisoara; Octavian Savu, Institute of Diabetes, Nutrition and Metabolic Diseases, Bucharest; Viorel Serban, Clinical County Hospital, Timisoara; Alexandra Sima, Clinical County Hospital, Timisoara; Carmen Sitterli-Natea, Clinical County Hospital Sibiu, Sibiu; Gina Suciu, Centrul Medical PULS, Târgu Mureş; Monica Szabo, Centrul Medical PULS, Târgu Mureş; Iosif Szilagyi, County Emergency Hospital Satu Mare, Satu Mare; Bogdan Timar, Spitalul Clinic Județean de Urgență Timisoara, Timisoara; Adrian Vlad, Clinical County Hospital, Timisoara; Ionela Mihaela Vladu, Clinical County Emergency Hospital, Craiova.

Russian Federation: Anas Alfaraj, Central Clinical, Moscow; Veronika Dubova, Yaroslavl Regional Clinical Hospital, Yaroslavl; Irina Dvoryashina, First City Hospital Of Arkhangelsk, Arkhangelsk; Leylya Gaysina, Republic Clinical Hospital, GUZ, Tatarstan; Svetlana Gromova, GUZ Regional Clinical Hospital, Saratov; Ksenia Gudkova, Smolensk State Medical Institute, Smolensk; Svetlana Ivanova, Regional Clinical Hospital, Arkhangelsk; Irina Ivashkina, Penza Regional Clinical Hospital, Penza; Marina Kalashnikova, Propaedeutics of Internal Diseases Clinic, Moscow; Tatyana Kazankova, City Clinical Hospital №5, Barnaul; Elena Khaykina, Smolensk State Medical Institute, Smolensk; Olga Khaykina, Smolensk State Medical Institute, Smolensk; Tatiana Kiseleva, Republic Clinical Hospital, GUZ, Tatarstan; Ekaterina Komissarova, Penza Regional Clinical Hospital, Penza; Irina Kononenko, Institute Of Endocrinology, Moscow; Valeria Koreneva, Central Clinical, Moscow; Olga Koshcheeva,

## SUPPLEMENTARY DATA

Central Clinical, Moscow; Larisa Koshel, Propaedeutics of internal diseases clinic, Moscow; Dina Kozachuk, Regional Clinical Hospital, Arkhangelsk; Tatiana Kufelkina, Republic Clinical Hospital, GUZ, Tatarstan; Marina Kunitsyna, GUZ Regional Clinical Hospital, Saratov; Natalia Likhodey, Propaedeutics of Internal Diseases Clinic, Moscow; Tatyana Lysenko, City Clinical Hospital №5, Barnaul; Olga Makarova, Tyumen Medical Academy, Tyumen Region; Anna Malceva, City Clinical Hospital №5, Barnaul; Svetlana Mikhailova, Regional Clinical Hospital, Arkhangelsk; Evgeniya Ogorodnikova, City Clinical Hospital №5, Barnaul; Irina Pavlikova, City Clinical Hospital №5, Barnaul; Elena Pekareva, Institute Of Endocrinology, Moscow; Anna Postoeva, First City Hospital Of Arkhangelsk, Arkhangelsk; Dmitry Reshedko, Smolensk State Medical Institute, Smolensk; Galina Reshedko, Smolensk State Medical Institute, Smolensk; Leonid Reshedko, Smolensk State Medical Institute, Smolensk; Angelika Rogaleva, Regional Clinical Hospital, Arkhangelsk; Larisa Rogova, Central Clinical, Moscow; Denis Rozanov, Yaroslavl Regional Clinical Hospital, Yaroslavl; Georgiy Runov, Hospital Of Semashko, Nizhny Novgorod; Irina Samylina, Penza Regional Clinical Hospital, Penza; Tatiana Semikina, GUZ Regional Clinical Hospital, Saratov; Marina Sergeeva-Kondrachenko, Penza Regional Clinical Hospital, Penza; Olga Shatskaya, Institute Of Endocrinology, Moscow; Marina Shestakova, Institute Of Endocrinology, Moscow; Olga Shimokhina, Penza Regional Clinical Hospital, Penza; Svetlana Smetanina, Tyumen Medical Academy, Tyumen Region; Maria Startseva, Regional Clinical Hospital, Arkhangelsk; Alexandra Strelkova, First City Hospital Of Arkhangelsk, Arkhangelsk; Lyudmila Suplotova, Tyumen Medical Academy, Tyumen Region; Larisa Suvorova, GUZ Regional Clinical Hospital, Saratov; Yulia Sych, Propaedeutics of internal diseases clinic, Moscow; Alfiya Valeeva, Kazan State Medical University (KSMU), Kazan; Farida Valeeva, Kazan State Medical University (KSMU), Kazan; Tatiana Venjkova, GUZ Regional Clinical Hospital, Saratov; Valentina Vinokurova, GUZ Regional Clinical Hospital, Saratov; Emma Voychik, Central Clinical, Moscow; Elena Yanovskaya, Yaroslavl Regional Clinical Hospital, Yaroslavl; Maria Yanovskaya, Yaroslavl Regional Clinical Hospital, Yaroslavl; Natalia Yarkova, Hospital Of Semashko, Nizhny Novgorod; Ekaterina Yarygina, Regional Clinical Hospital, Arkhangelsk; Natalia Yuzhakova, Tyumen Medical Academy, Tyumen Region; Tatiana Zakhrova, Yaroslavl Regional Clinical Hospital, Yaroslavl; Olga Zanozina, Hospital Of Semashko, Nizhny Novgorod; Anatoly Zenovko, Central Clinical, Moscow; Svetlana Zhuk, Hospital Of Semashko, Nizhny Novgorod; Elena Zhukova, GUZ Regional Clinical Hospital, Saratov.

Serbia: Sandra Aleksic, Clinical Center of Serbia, Belgrade; Ana Bulatovic, Clinical Hospital Centre Zvezdara, Belgrade; Bogdan Buric, Clinical Hospital Centre Zvezdara, Belgrade; Goran Cvijovic, Clinical Center of Serbia, Belgrade; Marina Andjelic Jelic, Clinical Hospital Centre Zvezdara, Belgrade; Biljana Jovic, Clinical Hospital Centre Zvezdara, Belgrade; Aleksandra Jotic, Clinical Center of Serbia, Belgrade; Aleksandra Kendereski, Clinical Center of Serbia, Belgrade; Katarina Lalic, Clinical Center of Serbia, Belgrade; Nebojsa Lalic, Clinical Center of Serbia, Belgrade; Ljiljana Lukic, Clinical Center of Serbia, Belgrade; Marija Macesic, Clinical Center of Serbia, Belgrade; Milica Marjanovic Petkovic, Clinical Hospital Centre Zvezdara, Belgrade; Dragan Micic, Clinical Center of Serbia, Belgrade; Tanja Milicic, Clinical Center of Serbia, Belgrade; Ljiljana Popovic, Clinical Center of Serbia, Belgrade; Milica Prostran, Clinical Center of Serbia, Belgrade; Natasa Rajkovic, Clinical Center of Serbia, Belgrade; Jelena Seferovic, Clinical Center of Serbia, Belgrade; Sandra Singh, Clinical Center of Serbia, Belgrade; Radan Stojanovic, Clinical Hospital Centre Zvezdara, Belgrade; Ljubica Stosic, Clinical Center of Serbia, Belgrade; Miljanka Vuksanovic, Clinical Hospital Centre Zvezdara, Belgrade; Miroslava Zamaklar, Clinical Center of Serbia, Belgrade; Teodora Beljic Zivkovic, Clinical Hospital Centre Zvezdara, Belgrade; Svetlana Zoric, Clinical Center of Serbia, Belgrade

South Africa: Nazimuddin Aboo, Centre for Diabetes and Endocrinology, Durban; Hendrik Willem

## SUPPLEMENTARY DATA

Albertse, Rosepark Hospital, Fichardtpark; Aysha Badat, The Wits Donald Gordon Medical Centre, Johannesburg; Matthys Basson, Tiervlei Trial Centre, Cape Town; Ebrahim Bawa, Dr Lakha's Rooms, Lenasia South; Frederick Bester, Rosepark Hospital, Fichardtpark; Suzanne Blignaut, Tread Research, Cape Town; Susan Booysen, Tread Research, Cape Town; Fredricka Johanna Bosch, Rosepark Hospital, Fichardtpark; Lesley Burgess, Tread Research, Cape Town; Soraya Cassimjee, The Wits Donald Gordon Medical Centre, Johannesburg; Kathleen Coetzee, Tread Research, Cape Town; Jeannine Du Bois, Tiervlei Trial Centre, Cape Town; Johannes Engelbrecht, Mediclinic Vergelegen, Western Cape; Kathleen Finegan, Midrand Medical Centre, Midrand; Gilbert John Gibson, Rosepark Hospital, Fichardtpark; Somaya Hansa, The Wits Donald Gordon Medical Centre, Johannesburg; Alana Hemus, The Wits Donald Gordon Medical Centre, Johannesburg; Ignatius Petrus Immink, Rosepark Hospital, Fichardtpark; Andrew Jacovides, Midrand Medical Centre, Midrand; Pankaj Joshi, Louis Pasteur Medical Center, Pretoria; Shaifali Joshi, Suite 5 Diabetes Care Centre, Benoni; Cornelia Kapp, Union Hospital, Alberton; Setswakae Khoele-Machobane, Midrand Medical Centre, Midrand; Hendrik Johannes Uys Knox, RoseparkHospital, Fichardtpark; Johanna Kok, Union Hospital, Alberton; Stephanus Komati, Louis Pasteur Medical Center, Pretoria; Evelyn Lai, The Wits Donald Gordon Medical Centre, Johannesburg; Deepak Lakha, Dr Lakha's Rooms, Lenasia South; Kenneilwe Lehloenyane, Tread Research, Cape Town; Akhter Goolam Mahomed, Louis Pasteur Medical Center, Pretoria; Ronel Meeding, The Wits Donald Gordon Medical Centre, Johannesburg; Rajendran Moodley, Netcare Umhlanga Medical Centre, Durban; Naeem Moosa, Moosa N, Lenasia; Jeanne Nel, Tiervlei Trial Centre, Cape Town; Haylene Nell, Tiervlei Trial Centre, Cape Town; Frederick Johannes Van Niekerk, Mediclinic Heart Hospital, Pretoria; Mahomed Omar, Suite 1 Parklands Medical Centre, Durban; Nagassree Pillay, Seadoone Medical Centre, Durban; Maria Pretorius, Tiervlei Trial Centre, Cape Town; Hans Prozesky, Tread Research, Cape Town; Shantakumari Ramduth, Midrand Medical Centre, Midrand; Johannes Roos, Mediclinic Vergelegen, Western Cape; Mahomed Sarvan, Netcare Umhlanga Medical Centre, Durban; Mary Seeber, Mediclinic Heart Hospital, Pretoria; Mirna Siebert, Tiervlei Trial Centre, Cape Town; Pillay Somasundram, Seadoone Medical Centre, Durban; Andreas Stavrides, Union Hospital, Alberton; Frederick Johannes Van Niekerk, Mediclinic Heart Hospital, Pretoria; Nadia Venter, Tiervlei Trial Centre, Cape Town; Shahid Wadvalla, Moosa N, Lenasia.

Spain: Josefina Olivares Alcolea, Hospital Son Llàtzer, Palma de Mallorca; Aránztzazu Álvarez de Arcaya Vicente, Hospital Universitario Clínico San Carlos, Madrid; M<sup>a</sup> Beatriz Pérez Arroyo, Quirónsalud Madrid University Hospital, Madrid; Enrique Romero Bobillo, Hospital Clínico Universitario de Valladolid, Castilla y Leon; M<sup>a</sup> Manuela Buño, Hospital de A Coruña, La Coruña; José N. Carreira Arias, Hospital de A Coruña, La Coruña; Miguel Camafort Babkowski, Hospital Clínic de Barcelona, Barcelona; Daniel Cepero García, Clinica San Pedro, Almería; Luis Masmiquel Comas, Hospital Son Llàtzer, Palma de Mallorca; María José Coves Figueras, Hospital Clínic de Barcelona, Barcelona; Carmen de la Cuesta Mayor, Nuevas Tecnologías en Diabetes y Endocrinología S.L, Sevilla; Mónica Domenech Feria-Carot, Hospital Clínic de Barcelona, Barcelona; Ana M<sup>a</sup> Frade Fernández, Hospital de A Coruña, La Coruña; Manuel Ferreiro Gómez, Hospital de A Coruña, La Coruña; Clara García García, Nuevas Tecnologías en Diabetes y Endocrinología S.L, Sevilla; Emilio García Delgado, Hospital Universitario de Móstoles, Móstoles; Santiago Durán García, University Hospital Nuestra Señora de Valme, Sevilla; Luis A. Gómez Gómez, Hospital Son Llàtzer, Palma de Mallorca; Alfonso Soto González, Hospital de A Coruña, La Coruña; Cristina Hernán García, Hospital Clínico Universitario de Valladolid, Castilla y Leon Valladolid; M<sup>a</sup> Ángeles Tapia Herrero, Hospital Universitario de Móstoles, Móstoles; Esteban Jodar Gimeno, Quirónsalud Madrid University Hospital, Madrid; Julia Quevedo Juanals, Hospital Son Llàtzer, Palma de Mallorca; Manuel López Jiménez, Hospital Universitario de Móstoles, Móstoles; Ferrán Masanes , Hospital Clínic de Barcelona, Barcelona; Ángel L. Marco Mur, Hospital Universitario de Móstoles, Móstoles; Margarita Navarro

## SUPPLEMENTARY DATA

López, Hospital Clínic de Barcelona, Barcelona; Joana Nicolau Ramis, Hospital Son Llàtzer, Palma de Mallorca; Apolonia Gil Palmer, Hospital Son Llàtzer, Islas Baleares; Alfonso Calle Pascual, Hospital Universitario Clínico San Carlos, Madrid; Laura G. Romero Pérez, Hospital Universitario Clínico San Carlos, Madrid; Cristobal Morales Portillo, Nuevas Tecnologías en Diabetes y Endocrinología S.L, Sevilla; Sergio Prieto González, Hospital Clínic de Barcelona, Barcelona; Pedro Mezquita Raya, Clinica San Pedro, Almería; Rebeca Reyes García, Clinica San Pedro, Almería; Tomás Ripoll Vera, Hospital Son Llàtzer, Palma de Mallorca; Carmen Rodríguez Castro, Hospital Universitario de Móstoles, Móstoles; Irene Rodríguez Rodríguez, Hospital Son Llàtzer, Palma de Mallorca; Emilio Sacanella Meseguer, Hospital Clínic de Barcelona, Barcelona; Isabel Serrano Olmedo, Nuevas Tecnologías en Diabetes y Endocrinología S.L, Sevilla; Alfonso Lopez Soto, Hospital Clínic de Barcelona, Barcelona; Fernando Toba Alonso, Hospital de A Coruña, La Coruña; Alberto Aliaga Verdugo, Nuevas Tecnologías en Diabetes y Endocrinología S.L, Sevilla; Josep Vidal Cortada, Hospital Clínic de Barcelona, Barcelona; Luis Vigil Medina, Hospital Universitario de Móstoles, Móstoles.

Sweden: Eva Ackefelt-Frick, Universitetssjukhuset Örebro, Örebro; Helena Alfredsson, Karolinska Trial Alliance, Stockholm; Erik Beling, Karolinska Trial Alliance, Stockholm; Peter Benedek, Karolinska Universitetssjukhuset, Stockholm; Milita Crisby, Karolinska Trial Alliance, Stockholm; Mozgan Dorkhan, Endokrinologiska kliniken, Malmo; Tomasz Drescik, Universitetssjukhuset Örebro, Örebro; Katarina Eeg-Olofsson, Lundberglaboratoriet för diabetesforskning, Sahlgrenska Universitetssjukhuset, Göteborg; Björn Eliasson, Lundberglaboratoriet för diabetesforskning, Sahlgrenska Universitetssjukhuset, Göteborg; Ken Eliasson, Universitetssjukhuset Örebro, Örebro; Mats Eriksson, Karolinska Universitetssjukhuset, Stockholm; Peter Fardelin, Universitetssjukhuset Örebro, Örebro; Anna Fredholm, Karolinska Trial Alliance, Stockholm; Anders Frid, Endokrinologiska kliniken, Malmo; Kurt Gerok-Andersson, Karolinska Universitetssjukhuset, Stockholm; Lars Hjelmaeus, Citydiabetes, Stockholm; Andreas Hufnagl, Karolinska Trial Alliance, Stockholm; Ewa Jasinska, Universitetssjukhuset Örebro, Örebro; Ewa Kowalska, Universitetssjukhuset Örebro, Örebro; Pierre Lafolie, Karolinska Trial Alliance, Stockholm; Otto Lindquist, Karolinska Trial Alliance, Stockholm; Martin Lundvall, Universitetssjukhuset Örebro, Örebro; Eva Melander, Universitetssjukhuset Örebro, Örebro; Camilla Nicander, Universitetssjukhuset Örebro, Örebro; Linda Moris, Karolinska Trial Alliance, Stockholm; Bengt-Olov Tengmark, Citydiabetes, Stockholm; Martin Ridderstråle, Endokrinologiska kliniken, Malmo; Ulrika Saphir, Karolinska Trial Alliance, Stockholm; Pia Skagerberg, Karolinska Trial Alliance, Stockholm; Christian Steczkó-Nilsson, Universitetssjukhuset Örebro, Örebro; Björn Strandell, Universitetssjukhuset Örebro, Örebro; Ylva Tomson, Karolinska Trial Alliance, Stockholm.

Taiwan: Jeng-Yeou Chen, Chung Gung Medical Foundation-Linkou Branch 5, Gueishan, Taoyuan; Yu-Cheng Chen, Changhua Christian Hospital, Changhua; Chun-Yen Chiang, Chi Mei Medical Center, Tainan Tsuei-Yuan Huang, Chi Mei Medical Center, Tainan; Chien-Wen Chou, Chi Mei Medical Center, Tainan; Chun-Wei Ho, Kaohsiung Medical University Hospital, Kaohsiung; Pi-Jung Hsiao, Kaohsiung Medical University Hospital, Kaohsiung; Ming-Chia Hsieh, Changhua Christian Hospital, Changhua; Ray-Sea Hsu, Chung Gung Medical Foundation-Linkou Branch 5, Gueishan, Taoyuan; Shang Ren Hsu, Changhua Christian Hospital, Changhua; Chung-Huei Huang, Chung Gung Medical Foundation-Linkou Branch 5, Gueishan, Taoyuan; Yu-Yao Huang, Chung Gung Medical Foundation-Linkou Branch 5, Gueishan, Taoyuan; Wei-Wen Hung, Kaohsiung Medical University Hospital, Kaohsiung; Mei-Yueh Lee, Kaohsiung Medical University Hospital, Kaohsiung; Yang-Ming Lee, Changhua Christian Hospital, Changhua; Chen-Wei Lin, Chung Gung Medical Foundation-Linkou Branch 5, Gueishan, Taoyuan; Chia-Hung Lin, Chung Gung Medical Foundation-Linkou Branch 5, Gueishan, Taoyuan; Kun-Der Lin, Kaohsiung Medical University Hospital, Kaohsiung; Shi-Dou Lin,

## SUPPLEMENTARY DATA

Changhua Christian Hospital, Changhua; Shu-Fu Lin, Chung Gung Medical Foundation-Linkou Branch 5, Gueishan, Taoyuan; Miaw-Jene Liou, Chung Gung Medical Foundation-Linkou Branch 5, Gueishan, Taoyuan; Wen-Tsung Lu, Chung Gung Medical Foundation-Linkou Branch 5, Gueishan, Taoyuan; Shyi-Jang Shin, Kaohsiung Medical University Hospital, Kaohsiung; Hon-Ke Sia, Changhua Christian Hospital, Changhua; Mu-Hsuan Su, Kaohsiung Medical University Hospital, Kaohsiung; Shih-Li Su, Changhua Christian Hospital, Changhua; Jui-Hung Sun, Chung Gung Medical Foundation- Linkou Branch 5, Gueishan, Taoyuan; Kai-Jen Tien, Chi Mei Medical Center, Tainan; Dong Hwa Tsai, Changhua Christian Hospital, Changhua; Sung-Sheng Tsai, Chung Gung Medical Foundation-Linkou Branch 5, Gueishan, Taoyuan; Shih-Te Tu, Changhua Christian Hospital, Changhua; Chih-Ching Wang, Chung Gung Medical Foundation-Linkou Branch 5, Gueishan, Taoyuan; Shu Yi Wang, Changhua Christian Hospital, Changhua; Chwen-Yi Yang, Chi Mei Medical Center, Tainan; Feng Chieh Yen, Chi Mei Medical Center, Tainan.

Turkey: Abdurrahman Acikgoz, Haseki Training and Research Hospital, Istanbul; Sema Akalin, Marmara University Medical Faculty, Istanbul; Safak Akin, Hacettepe University Medical School, Ankara; Baris Akinci, Dokuz Eylul University Medical Faculty, Izmir; Aysen Akkurt, School of Medicine, Uludag University, Bursa; Mujde Akturk, Gazi University Faculty of Medicine, Ankara; Nihan Alkis, School of Medicine, Uludag University, Bursa; Ilker Altun, Ege University Medical School, Izmir; Hasan Ali Altunbas, Akdeniz University Medical Faculty, Antalya; Yuksel Altuntas, Sisli Etfal Training and Research Hospital, Istanbul; Mustafa Araz, Gaziantep University Medical Faculty, Gaziantep; Sulbiye Aribas, Erciyes University Medical Faculty, Kayseri; Emre Arslan, Gazi University Faculty of Medicine, Ankara; Gulgun Arslan, Dr. Lutfi Kirdar Kartal Training and Research Hospital, Istanbul; Metin Arslan, Gazi University Faculty of Medicine, Ankara; Esra Hayriye Ataoglu, Haseki Training and Research Hospital, Istanbul; Faruk Ayan, Cerrahpasa Medical School, Istanbul University, Istanbul; Kadriye Aydin, Hacettepe University School of Medicine, Ankara; Berna Imge Aydogan, Ankara University School of Medicine, Ankara; Goksun Ayvaz, Gazi University Faculty of Medicine, Ankara; Muzeyyen Arslan Bahadir, Goztepe Training and Research Hospital, Istanbul Medeniyet University, Istanbul; Mustafa Kemal Balci, Akdeniz University Medical Faculty, Antalya; Mehtap Navdar Basaran, Ankara Numune Training and Research Hospital, Ankara; Nilgun Baskal, Ankara University School of Medicine, Ankara; Melike Zehra Bugra, Istanbul Faculty of Medicine, Istanbul University, Istanbul; Mehmet Calan, Dokuz Eylul University Medical Faculty, Izmir; Umit Cavdar, Dokuz Eylul University Medical Faculty, Izmir; Faik Cetin, Haseki Training and Research Hospital, Istanbul; Nese Cinar, Hacettepe University School of Medicine, Ankara; Mehmet Colbay, Gazi University Faculty of Medicine, Ankara; Abdurrahman Comlekci, Dokuz Eylul University Medical Faculty, Izmir; Selcuk Dagdelen, Hacettepe University School of Medicine, Ankara; Taner Damci, Cerrahpasa Medical School, Istanbul University, Istanbul; Vedat Davutoglu, Gaziantep University Medical Faculty, Gaziantep; Mustafa Demir, Dr. Lutfi Kirdar Kartal Training and Research Hospital, Istanbul; Tevfik Demir, Dokuz Eylul University Medical Faculty, Izmir; Oguzhan Deyneli, Marmara University Medical Faculty, Istanbul; Irem Dincer, Ankara University School of Medicine, Ankara; Burcu Dogan, Goztepe Training and Research Hospital, Istanbul Medeniyet University, Istanbul; Kadriye Yesim Kanipek Doker, Haseki Training and Research Hospital, Istanbul; Ismail Engin, Haseki Training and Research Hospital, Istanbul; Ayten Eraydin, Gaziantep University Medical Faculty, Gaziantep; Tomris Erbas, Hacettepe University School of Medicine, Ankara; Murat Faik Erdogan, Ankara University School of Medicine, Ankara; Canan Ersoy, School of Medicine, Uludag University, Bursa; Arzu Gedik, Dokuz Eylul University Medical Faculty, Izmir; Ferhat Gokay, Ankara Numune Training and Research Hospital, Ankara; Ozen Oz Gul, School of Medicine, Uludag University, Bursa; Serdar Guler, Ankara Numune Training and Research Hospital, Ankara; Tugba Gumus, Dokuz Eylul University Medical Faculty, Izmir; Elif Gunes, School of Medicine, Uludag University, Bursa; Mehmet

## SUPPLEMENTARY DATA

Yavuz Gurler, Sisli Etfal Training and Research Hospital, Istanbul; Esra Hatipoglu, Cerrahpasa Medical School, Istanbul University, Istanbul; Hasan Ilkova, Florence Nightingale Hospital, Istanbul; Ozlem Turhan Iyidir, Gazi University Faculty of Medicine, Ankara; Giray Kabakci, Hacettepe University Medical School, Ankara; Berrin Karadag, Sisli Etfal Training and Research Hospital, Istanbul; Guzin Karatemiz, Sisli Etfal Training and Research Hospital, Istanbul; Alper Cagri Karci, Ankara Numune Training and Research Hospital, Ankara; Emine Kartal, Ege University Medical School, Izmir; Ergun Baris Kaya, Hacettepe University Medical School, Ankara; Caglar Keskin, Ankara University School of Medicine, Ankara; ElaFatma Keskin, Cerrahpasa Medical Sc Goztepe Training and Research Hospital, Istanbul Medeniyet University, Istanbul; Aylin Kamut Kol, Sisli Etfal Training and Research Hospital, Istanbul; Hakan Korkmaz, Gaziantep University Faculty of Medicine, Gaziantep; Ferit Kerim Kucukler, Ankara Numune Training and Research Hospital, Ankara; Banu Alpaslan Mesci, Goztepe Training and Research Hospital, Istanbul Medeniyet University, Istanbul; Aytekin Oguz, Istanbul Medeniyet University, Goztepe Training and Research Hospital, Istanbul; Ekrem Orbay, Dr. Lutfi Kirdar Kartal Training and Research Hospital, Istanbul; Hasan Oz, Dr. Lutfi Kirdar Kartal Training and Research Hospital, Istanbul; Nazan Demir Ozcan, Sisli Etfal Training and Research Hospital, Istanbul; Sadi Ozdem, Akdeniz University Medical Faculty, Antalya; Secil Ozisik, Dokuz Eylul University Medical Faculty, Izmir; Cigdem Ozkan, Gazi University Faculty of Medicine, Ankara; Muge Ozsan, Gaziantep University Medical Faculty, Gaziantep; Mucahit Ozyazar, Cerrahpasa Medical School, Istanbul University, Istanbul; Hayri Parlar, Florence Nightingale Hospital, Istanbul; Haluk Sargin, Dr. Lutfi Kirdar Kartal Training and Research Hospital, Istanbul; Mehmet Sargin, Dr. Lutfi Kirdar Kartal Training and Research Hospital, Istanbul; Ilhan Satman, Istanbul Faculty of Medicine, Istanbul University, Istanbul; Fusun Saygili, Ege University Medical School, Izmir; Alev Selek, Marmara University Faculty of Medicine, Istanbul; Yasin Simsek, Erciyes University Medical Faculty, Kayseri; Pinar Sisman, School of Medicine, Uludag University, Bursa; Kubra Solmaz, Haseki Training and Research Hospital, Istanbul; Cahide Soydas, Ege University Medical School, Izmir; Serkan Tatliagac, Florence Nightingale Hospital, Istanbul; Ismet Tamer, Dr. Lutfi Kirdar Kartal Training and Research Hospital, Istanbul; Sule Temizkan, Marmara University Medical Faculty, Istanbul; Cansin Tulunay, Ankara University School of Medicine, Ankara; Ercan Tuncel, School of Medicine, Uludag University, Bursa; Fulya Turker, Istanbul Faculty of Medicine, Istanbul University, Istanbul; Kursat Unluhizarcı, Erciyes University Medical Faculty, Kayseri; Ugur Unluturk, Ankara University School of Medicine, Ankara; Meliha Melin Uygur, Marmara University Medical Faculty, Istanbul; Buket Vatansever, Dr. Lutfi Kirdar Kartal Training and Research Hospital, Istanbul; Dilek Yazici, Marmara University Medical Faculty, Istanbul; Dilek Gogas Yavuz, School of Medicine, Marmara University, Istanbul; Serkan Yener, Dokuz Eylul University Medical Faculty, Izmir; Mustafa Yenigun, Haseki Training and Research Hospital, Istanbul; Merve Yilmaz, Dokuz Eylul University Medical Faculty, Izmir.

United Arab Emirates: Saira Abbas, Diabetology Unit, Rashid Hospital, Dubai; Fatheya Alawadi, Dubai Hospital, Dubai; Azza Abdul Aziz, Dubai Hospital, Dubai; Alaaeldin Bashier, Dubai Hospital, Dubai; Khadija Hafidh, Rashid Hospital, Dubai; Ghaida Kaddaha, Rashid Hospital, Dubai; Fauzia Rashid, Dubai Hospital, Dubai.

United Kingdom: Prakash Abraham, Aberdeen Royal Infirmary, Aberdeen; Karen Adamson, St John's Hospital, Livingston; Steve Atkin, Michael White Centre for Diabetes & Endocrinology, Hull Royal Infirmary, Hull; Myint Aye, Michael White Centre for Diabetes & Endocrinology, Hull Royal Infirmary, Hull; Mohammad Azam, Diabetes Centre, Birmingham Heartlands Hospital, Birmingham; S Bain, Clinical Trials Unit, Morriston Hospital, Morriston; AH Barnett, Diabetes Centre, Birmingham Heartlands Hospital, Birmingham; Srikanth Bellary, Diabetes Centre, Birmingham Heartlands Hospital, Birmingham; Ketan Dhatariya, University of East Anglia, Norwich; Mike Eaton, Diabetes Clinical

## SUPPLEMENTARY DATA

Research Unit, Plymouth Science Park, Plymouth; Patrick English, Derriford Hospital, Plymouth; Jane Ewing, University of East Anglia, Norwich; Niall Furlong, Diabetes & Endocrinology Centre, Whiston Hospital, Preston; Martin Gibson, Clinical Science Building, Salford Royal Hospital Foundation Trust, Salford; Darren Green, Salford Royal NHS Foundation Trust, Salford; Roselle Herring, Cedar Centre, Royal Surrey County Hospital, Guildford; VictoriaHordern, The Royal Surrey County Hospital, Guildford; Alan Jaap, Royal Infirmary of Edinburgh, Edinburgh; Zeesham Javed, Michael White Centre for Diabetes & Endocrinology, Hull Royal Infirmary, Hull; Andrew Johnson, Southmead Hospital, Westbury on Trym; Judit Konya, Michael White Centre for Diabetes & Endocrinology, Hull Royal Infirmary, Hull; Sudesh Kumar, Diabetes and Metabolism Unit, Coventry & Warwick Hospital, Coventry; Robert Lindsay, BHF Glasgow Cardiovascular Research Centre, University of Glasgow, Glasgow; Alasdair Mackie, Diabetes Support Unit, Ninewells Hospital, Dundee; Stephen McGlynn, Salford Royal Hospital Foundation Trust, Salford; Joyce McKenzie, Diabetes Centre, The New Stobhill Hospital, Glasgow; Ann Millward, Derriford Hospital, Plymouth; N. Murthy, Warwickshire Institute for Diabetes, Endocrinology and Metabolism Centre, University Hospital Coventry & Warwickshire NHS Trust, Coventry; Richard Paisey, Torbay Hospital, Torquay; Ewan Pearson, Ninewells Hopital and Medical School, Dundee; Milan Piya, University Hospitals Coventry and Warwickshire NHS Trust, Coventry; Mike Ramell, Royal Devon & Exeter Hospital, Exeter; Doug Robertson, Diabetes Centre, Sandwell General Hospital, West Bromwich; David Russell-Jones, The Cedar Centre, Royal Surrey County Hospital, Guildford; Ponnusamy Saravanan, Diabetes and Endocrinology Centre, George Eliot Hospital NHS Trust, Nuneaton; Thozhukat Sathyapalan, Michael White Centre for Diabetes & Endocrinology, Hull Royal Infirmary, Hull; Jayadave Shakher, Diabetes Centre, Birmingham Heartlands Hospital, Birmingham; Hannah Shiels, Torbay Hospital, Torquay; Subash Sivaraman, University Hospitals Coventry and Warwickshire NHS Trust, Coventry; Jamie Smith, Torbay Hospital, Torquay; Upendram Srinivas-Shankar, Diabetes Centre, St. Helens Hospital, Merseyside; J Stokes, Derriford Hospital, Plymouth; Inessa Tracey, Diabetes Centre, Sandwell General Hospital, West Bromwich; Bijay Vaidya, Royal Devon & Exeter Hospital, Wonford; Michael Yee, Metabolic Medicine, St Mary's Hospital, London; Prasad Yemparala, Diabetes Centre, Birmingham Heartlands Hospital, Birmingham; James Walker, St John's Hospital, Livingston; Peter Wiggins, Castlemilk Health Centre, Glasgow; Jane Williams, Diabetes Centre, Hospital of St Cross, Rugby; John Wright, Cedar Centre, Royal Surrey County Hospital, Guildford; Carol Mackinnon, Castlemilk Group Practice, Glasgow; Janet Inkster, Aberdeen Royal Infirmary, Aberdeen; Javeed Zeeshan, Michael White Centre for Diabetes and Endocrinology, Hull Royal Infirmary, Hull; Christina Bejnariu, Michael White Centre for Diabetes and Endocrinology, Hull Royal Infirmary, Hull; Nagaraj Malipatil, Salford Royal NHS Foundation Trust, Salford; Sumithra Giritharan, Salford Royal NHS Foundation Trust, Salford; Kathryn Lonnen, Southmead Hospital, Bristol; Ioannis Kyrou, Diabetes and Metabolism Unit, Coventry & Warwick Hospital, Coventry.

United States: Sayed Aamir, University Specialty Clinics, Columbia; Michelle Ababa, Anaheim Clinical Trials, Anaheim; Marconi Abreu, UT Southwestern Medical Center, Dallas; Derick Adams, Lexington VA Medical Center, Lexington; Penny Adams, Station Medical Center, Altoona; Joy Aden, Northeast Clinical Research Center, Bethlehem; Diana Aguilar, Catalina Research Institute, Chino; Ana Aguilera, Facey Medical Group, Mission Hills; Afia Ahmed, Apex Medical Research Inc, Chicago; Azazuddin Ahmed, Apex Medical Research Inc, Chicago; Bilal Ahmed, Central Florida Medical Associates, Orange City; Intekhab Ahmed, Thomas Jefferson University Hospitals, Philadelphia; Atif Akhtar, Northwest Heart Center, Tomball; Bruce Akright, Northeast Clinical Research Center, Bethlehem; Laura Akright, Northeast Clinical Research Center, Bethlehem; Cesar Albarracin, Corpus Christi Memorial Hospital, Corpus Christi; Sara Albert, FPA Clinical Research, Kissimmee; Shamasa Ali, Tulane University School of Medicine, New Orleans; Bushra Aliuddin, Apex Medical Research Inc,

## SUPPLEMENTARY DATA

Chicago; Afrah Almasmary, Alzohaili Medical Consultants, Dearborn; Abdulmalek Al-Maweri, Alzohaili Medical Consultants, Dearborn; Opada Alzohaili, Medical Consultants, Dearborn; William Amador, University Specialty Clinics, Columbia; Maged Amine, Northwest Heart Center, Tomball; Sami Amini, Narbonne Medical, Lomita; Marshall Anderson, Kernodle Clinic Inc, Burlington; Linda Anderson, The Christ Hospital Lindner Research Center, Cincinnati; Robert Anderson, VeteransAffairs Medical Center, Omaha; Maria Andrews, Covenant Clinical Research, San Antonio; Jose Angel, Iowa Diabetes & Endocrinology Center, Des Moines; Wissam Anteer, Alzohaili Medical Consultants, Dearborn; Vincent Anthony, American Institute of Research, Los Angeles; Arturo Antillon, American Institute of Research, Los Angeles; Penny Anzures, Veterans Affairs Medical Center, Omaha; Sirlys Arcon-Rios, OUHSC: Diabetes and Endocrinology, Oklahoma City; David Arkin, Physicians Research Associates LLC, Lawrenceville; Bassam Arodak, OUHSC: Diabetes and Endocrinology, Oklahoma City; Louis Aronne, Comprehensive Weight Control Center, New York; Stephen Aronoff, Research Institute of Dallas, Dallas; Guadalupe Arreola, Facey Medical Group, Mission Hills; Sonia Arroyo, 400 North Medical Center, Michigan City; Sunil Asnani, Jersey Shore University Medical Center, Neptune; Gwendolyn Astudillo-Tee, Dignity Health - Chandler Regional Medical Center, Chandler; Susan Ault, Awasty Research Network, Marion; Barry Austin, Preferred Primary Care Physicians, Pittsburgh; Veronica Avila, Orange County Senior Care Clinical Trials, Tustin; Nicholas Avitabile, Tulane University School of Medicine, New Orleans; Vivek Awasty, Awasty Research Network, Marion; Vivek Awasty, OhioHealth Marion Area Physicians, Marion; Madona Azar, University of Oklahoma College of Medicine Internal Medicine, Oklahoma City; Ammara Aziz, OUHSC: Diabetes and Endocrinology, Oklahoma City; Pouya Bahrami, American Institute of Research, Los Angeles; Mirza Baig, Paramount Medical Research & Consulting, Cleveland; Kimberly Bailey, Christ Hospital Lindner Research Center, Cincinnati; Timothy Bailey, AMCR Institute Inc, Escondido; Mary Baker, University Of Oklahoma College Of Medicine, Oklahoma City; Narinder S. Bala, Bala and Khaira Medical Center, Fresno; Idelisse Balbes-Reyes, Eastern Consulting Group Inc, Humacao; David Baldwin, Rush University Medical Center, Chicago; Elisa Baldwin, Awasty Research Network, Marion; Tracy Balentine, Meridien Research, Tampa; Thomas Ballard, Mountain View Clinical Research, Greer; Kemal Baloch, Northwest Houston Cardiology, Houston; Salomon Banarer, Dallas Diabetes & Endocrine Center, Dallas; Cheryl Baney, Blair Medical Associates Inc, Station Medical Center, Altoona; Ajaz Banka, Tulane University School of Medicine, New Orleans; Linda Barber, Lexington VA Medical Center, Lexington; Mark Barber, Professional Clinical Research, Interlochen; Timothy Barker, Research Institute of the Carolinas, Mooresville; Kristie Barnes, Physicians East Endocrinology, Greenville; Otis Barnum, Natchitoches Medical Specialists, Natchitoches; Joel Barra, American Institute of Research, Los Angeles; Anthony Bartkowiak, Blair Medical Associates Inc, Altoona; Giovanni Baula, Westcoast Primary Care, St. Petersburg; Angela Bautista, AMCR Institute Inc, Escondido; Robert Bayliss, Internal Medicine Associates of Greenville, Greenville; Melissa Beaman, Facey Medical Group, Mission Hills; Karen Beatty, University of Louisville Physicians, Louisville; Judith Becker, Paramount Medical Research & Consulting, Cleveland; Laura Bedolla, AMCR Institute Inc, Escondido; Gulshan Begum, Medex Healthcare Research Inc., New York; Paula Belejchak, Preferred Primary Care Physicians, Pittsburgh; Amy Bell, University of Tennessee Health Science Center, Memphis; Magali Beltran, Radiant Research Inc, Chicago; Christine Belucher, Blair Medical Associates Inc, Altoona; Erin Bensfield, Orange County Senior Care Clinic Tustin; Julia Benton, Blair Medical Associates Inc, Altoona; Katherine Bergamo, UNC Diabetes Care Center, Chapel Hill; Richard Bergenstal, International Diabetes Center, Minneapolis; Bradford Bergman, Benefis Medical Group, Great Falls; Martha Berry, Arthritis & Diabetes Clinic, Monroe; Kirsten Bettino, Narbonne Medical, Lomita; Matthew Beyea, Clinical Study Center of Asheville, Asheville; Anuj Bhargava, Iowa Diabetes & Endocrinology Center, Des Moines; Arjun Bhattacharya, Medex HealthCare Research, St. Louis; Alistaire Bilas, Anaheim Clinical Trials, Anaheim; Lindsay Bischoff, Thomas Jefferson University Hospitals, Philadelphia; Lacey

## SUPPLEMENTARY DATA

Bixler, OUHSC: Diabetes and Endocrinology, Oklahoma City; Susan Bizjack, Paramount Medical Research & Consulting, Cleveland; Roy Blank, Novant Health Southern Piedmont, Monroe; Robert Blankfield, Paramount Medical Research & Consulting, Cleveland; Louba Block, Thomas Jefferson University Hospitals, Philadelphia; James Bloodworth, Internal Medicine Associates of Greenville, Ann Arbor; Kerri Bloomberg, Dignity Health - Chandler Regional Medical Center, Chandler; Robert Bloomberg, Dignity Health - Chandler Regional Medical Center, Chandler; Joy Blustein, Facey Medical Group, Mission Hills; Ivica Boban, Thomas Jefferson University Hospitals, Philadelphia; Alicia Bolden, Maxine Hamilton PA, Fort Lauderdale; Otilia Boncu, Midwest Endocrinology, Crystal Lake; Patricia Bookless, Southern New Hampshire Diabetes and Endocrinology, Nashua; Christina Brassie, Internist Associates of Central New York Crouse Medical Practice, Manlius; Donald Brautigam, Great Lakes Medical Research, Westfield; Peter Bressler, North Texas Endocrine Center, Dallas; Rose Brewster, Innovative Research of West Florida, Clearwater; Christina Brown, Heritage Valley Medical Group, Beaver; Cynthia Brown, Southeastern Endocrine & Diabetes, Roswell; Debra Brown, Endocrine and Psychiatry Center, Houston; Flossine Brown, Union Memorial Hospital, Baltimore; Mary Bruskewitz, University of Wisconsin School of Medicine and Public Health, Madison; Dawn Bryant, Endocrine and Psychiatry Center, Houston; Cyndi Buchanan, Medex HealthCare Research, St. Louis; Nicole Buchanan, Blair Medical Associates Inc, Altoona; Genena Buck, Physicians East Endocrinology, Greenville; Sharon Buckley, OUHSC: Diabetes and Endocrinology, Oklahoma City; Jacqueline Bueno, Midwest Endocrinology, Crystal Lake; Deborah Burke, Innovative Research of West Florida, Clearwater; Kathryn Burton, Cincinnati VA Medical Center, Cincinnati; John Buse, UNC Diabetes Care Center, Chapel Hill; Sherry Buske, Iowa Diabetes & Endocrinology Center, Des Moines; William Byars, Mountain View Clinical Research, Greer; Robin Bye, Tulane University School of Medicine, New Orleans; Ronald Caldwell, Clinical Study Center of Asheville, Asheville; Krystle Calvin, 400 North Medical Center, Michigan City; Rolando Camacho, Monterey Bay Family Physicians, Watsonville; Edward Campbell, Research Institute of the Carolinas, Mooresville; Daniel Cannon, Clinical Study Center of Asheville, Asheville; Janette Cantrell, Tampa Clinical Research, Tampa; Jonathan Caplan, Florida Diabetes/Endocrine Center, Orlando; Carlos Cardenas, Northeast Clinical Research Center, Bethlehem; Jamie Carlton, Alzohaili Medical Consultants, Dearborn; Gandahari Carpio, Tulane University School of Medicine, New Orleans; Anne Carrol, Paramount Medical Research & Consulting, Cleveland; Laurie Cartwright, Orange County Senior Care Clinic, Tustin; Gerardo Casanova, Apex Medical Research Inc, Chicago; Lorena Castaneda, Martin Diagnostic Clinic, Tomball; Martha Castle, Internist Associates of Central New York Crouse Medical Practice, Manlius; LouAnn Castro, Northeast Clinical Research Center, Bethlehem; Jennifer Catangay, Linda Vista Health Care Center, San Diego; Sushela Chaidarun, Dartmouth-Hitchcock Medical Center, Lebanon; Joseph Chambers, Facey Medical Group, Mission Hills; Thomas Chambliss, Internal Medicine Associates of Greenville, Ann Arbor; Lokesh Chandra, Apex Medical Research Inc, Chicago; Alvin Chang, Orange County Senior Care Clinic, Tustin; Simon Chang, Orange County Senior Care Clinic, Tustin; Jordan Chappel, FPA Clinical Research, Kissimmee; Christopher Chappel, FPA Clinical Research, Kissimmee; Tierra Chappell, Maxine Hamilton PA, Fort Lauderdale; Carmina Charles, Medical University of South Carolina, Charleston; Alberto Chavira, AMCR Institute Inc, Escondido; Louis Chaykin, Meridien Research, St. Petersburg; Ellen Check, Louis Stokes Cleveland VA Medical Center, Cleveland; Lambert Chee, Diablo Clinical Research, Walnut Creek; Junping Chen, University of Oklahoma College of Medicine, Oklahoma City; Amanda Cherry, Physicians East, Greenville, NC; Aaron Chestnut, University Specialty Clinics, Columbia; June Chiarot, Great Lakes Medical Research, Westfield; Niyati Chiniwala, Thomas Jefferson University Hospitals, Philadelphia; Kristen Chionh, Baylor Research Institute, Dallas, TX; James Choe, OUHSC: Diabetes and Endocrinology, Oklahoma City; Mark Christiansen, Diablo Clinical Research, Walnut Creek; Steven Chrzanowski, Benefis Med Spa, Great Falls; Ellie Chuang, Southern New Hampshire Diabetes and Endocrinology, Nashua; Leonard Chuck,

## SUPPLEMENTARY DATA

Diablo Clinical Research, Walnut Creek; Julie Clyatt, Florida Diabetes/Endocrine Center, Orlando; Barry Cohan, Great Falls Clinic, Great Falls; Barry Cohan, Benefis Med Spa, Great Falls; Robert Cohen, University of Cincinnati College of Medicine, Cincinnati; Richard Comi, Dartmouth-Hitchcock Medical Center, Lebanon; Angel Comulada-Rivera, Instituto De Endocrinologia Diabetes, Levittown; Kathi Conner, Harrison Community Hospital, Cadiz; Gordon Connor, Radiant Research Inc, Birmingham; Rosa Contreras, Anaheim Clinical Trials, Anaheim; Karen Cook, Physicians Research Associates LLC, Lawrenceville; Robin Cook, Novant Health Southern Piedmont, Monroe; Richard Cook, Preferred Primary Care Physicians, Uniontown; Clinton Corder, COR Clinical Research, Oklahoma City; Brenda Cornejo Sr., Catalina Research Institute, Chino; Lisa Cornette, Southern New Hampshire Diabetes and Endocrinology, Nashua; Guadelupe Cortes, Facey Medical Group, Mission Hills; Lenore Cortez, Southern New Hampshire Diabetes and Endocrinology, Nashua; Carole Cox, Crescent City Clinical Research, Metairie; Gabriela Cox, Louis Stokes Cleveland VA Medical Center, Cleveland; William Craig, Internal Medicine Associates of Greenville, Ann Arbor; Bethany Cramer, Louis Stokes Cleveland VA Medical Center, Cleveland; Carol Cromer, Tampa Clinical Research, Tampa; Michael Cromer, Tampa Clinical Research, Tampa; Robert Cuddihy, International Diabetes Center, Minneapolis; Dawn Culmer, UNC Diabetes Care Center, Chapel Hill; Dawn Culmer, UNC Diabetes Care Center, Chapel Hill; Hope Curran, Radiant Research Inc, Chicago; Miriam Curran, Suncoast Medical Center, St. Petersburg; Catherine Dadis, Benefis Med Spa, Great Falls; Samuel Dagogo-Jack, University of Tennessee Health Science Center, Memphis; Ismail Dairywala, Northwest Heart Center, Tomball; David D'Alessio, University of Cincinnati College of Medicine, Cincinnati; Gregory Damberg, International Diabetes Center, Minneapolis; Andy Dang, Facey Medical Group, Mission Hills; Karen Daniel, Endocrine and Psychiatry Center, Houston; Michael Davidson, Radiant Research Inc, Chicago; Trent Davis, AMCR Institute Inc, Escondido; John Dean, Clinical Study Center of Asheville, Asheville; Rowan DeBold, International Diabetes Center, Minneapolis; Peggy Deitz, Clinical Study Center of Asheville, Asheville; Maria Del, Pilar Solano Diabetes Research Institute University of Miami, Miami; David Delaney, Great Falls Clinic, Great Falls; Elizabeth Delgado, Anaheim Clinical Trials, Anaheim; Michael DeMicco, Anaheim Clinical Trials, Anaheim; Mary Ann DeMuro, University of Louisville Hospital, Louisville; Dina DeSalle, Heritage Valley Medical Group, Beaver; Cyrus Desouza, Veterans Affairs Medical Center, Omaha; Karthikeya Devireddy, KD Medical Group Inc, Columbia; Benjamin DeVries, Innovative Research of West Florida, Clearwater; Milana Dezube, UNC Diabetes Care Center, Chapel Hill; Isam Diab, Paramount Medical Research & Consulting, Cleveland; Amy Diesburg-Stanwood, Denver VA Medical Center, Denver; Julia Dilliard, North Texas Endocrine Center, Dallas; Jessica Dilling, Blair Medical Associates Inc, Altoona; Jaime Diner, UNC Diabetes Care Center, Chapel Hill; Katherine Dishongh, John L. McClellan Memorial Veterans Hospital, Little Rock; Regina Dodis, Norwalk Medical Group, Norwalk; Christina Doing, Mercy Medical Research Institute, Springfield; Warren Doll, Union Memorial Hospital, Baltimore; Amanda Donoho, Holston Medical Group, Kingsport; Daniel Donovan, Mount Sinai Hospital, New York; Nathan Doremus, American Institute of Research, Los Angeles; Steven Dorfman, Research Institute Of Dallas, Dallas; Pinal Doshi, Pioneer Medical Group, Cerritos; Jean Dostou, UNC Diabetes Care Center, Chapel Hill; Jean Dostou, Highgate Specialty Center, Durham; Delaine Douglas, Grunberger Diabetes Institute, Bloomfield Hills; Sara Douglass, University of Colorado School of Medicine, Denver; Desiree Douglas, Meridien Research, St. Petersburg; Michelle Dowell, Meridien Research, St. Petersburg; Emily Drazich, Great Falls Clinic, Great Falls; Erika Driver, Radiant Research Inc, Chicago; Haiming Du, University of Tennessee Health Science Center, Memphis; Robert DuBose III, Internal Medicine Associates of Greenville Ann Arbor; Michelle Duclos, UNC Diabetes Care Center, Chapel Hill; Michelle Duclos, UNC Diabetes Care Center, Chapel Hill; Kelly Dunn, Tampa Clinical Research, Tampa; Terry Dunnam, Research Institute Of Dallas, Dallas; Nancy Durham, Mountain View Clinical Research, Greer; Lyndsey Dye, Lexington VA Medical Center, Lexington; Donald Eagerton, Carolina Health Specialists, Myrtle Beach; Sotonte

## SUPPLEMENTARY DATA

Ebenibo, University of Tennessee Health Science Center, Memphis; Chimaroke Edeoga, University of Tennessee Health Science Center, Memphis; Gina Edwards, Panacea Clinical Research, San Antonio; James Ekwensi, University of Tennessee Health Science Center, Memphis; Imad El Asmar, American Institute of Research, Los Angeles; Nabil El Sayad, Narbonne Medical, Lomita; Christopher Eliopoulos, UK HealthCare Kentucky Clinic, Lexington; Myriam Elkosseifi, OUHSC: Diabetes and Endocrinology, Oklahoma City; Ryanne Elmer, OUHSC: Diabetes and Endocrinology, Oklahoma City; Miles Elmore, Clinical Study Center of Asheville, Asheville; Diane Elson, University of Wisconsin School of Medicine and Public Health, Madison; Louna El-Zein, University Specialty Clinics, Columbia; Laurie Emmert, Meridien Research, St. Petersburg; Lee Erbe, Medical University of South Carolina, Charleston; Susie Estes, Endocrine and Psychiatry Center, Houston; Lorie Estrada, Baylor Research Institute, Dallas, TX; Aristides Estrada, Internal Medicine of Morris County, Dover; Tricia Eveleigh, Crouse Medical Practice, Syracuse; Brian Everhart, Heritage Valley Medical Group, Beaver; Fred Faas, John L. McClellan Memorial Veterans Hospital, Little Rock; Carri Faircloth, Research Institute of the Carolinas, Mooresville; Mildred Farmer, Meridien Research, Brooksville; Karen Fehr, Suncoast Medical Center, St. Petersburg; Tanya Ferguson, Orange County Senior Care Clinic, Tustin; Joytika Fernandes, Medical University of South Carolina, Charleston; Kristin Ferree, Diabetes & Endocrinology Consultants, Morehead; Beth Ferrington, Arthritis & Diabetes Clinic, Monroe; Stacey Fitzgibbons, Crouse Medical Practice, Syracuse; Margeret Fitzhugh, Natchitoches Medical Specialists, Natchitoches; Rosaliee Fitzsimmons, Suncoast Medical Center, St. Petersburg; Donna Flanders, North Texas Endocrine Center, Dallas; Maryalice Flores, Northeast Clinical Research Center, Bethlehem; Edith Flores, Facey Medical Group, Mission Hills; John Flores, Facey Medical Group, Mission Hills; Maryalice Flores, Northeast OB/GYN Associates Schertz; Christine Florida, Anaheim Clinical Trials, Anaheim; Jacob Flynn, Professional Clinical Research, Interlochen; Pink Folmar, Radiant Research Inc, Birmingham; Ray Forbes, Crouse Medical Practice, Syracuse; Wanissa Ford, Rush University Medical Center, Chicago; Michael Fowler, Vanderbilt University Medical Center, Nashville; Ann Fraker, Greater Baltimore Medical Center, Baltimore; Spencer Francis, Physicians Group, Little Rock; Edgardo Franco-Cotto, Eastern Consulting Group Inc, Humacao; Corina Fratila, Greater Baltimore Medical Center, Baltimore; Martiza Fuentes, Suncoast Medical Center, St. Petersburg; Robert Galagan, Tulane University School of Medicine, New Orleans; Allison Galloway, OUHSC: Diabetes and Endocrinology, Oklahoma City; Michelle Garcia, American Institute of Research, Los Angeles; Ronald Garcia, Covenant Clinical Research, San Antonio; Martha Garriott, University of Tennessee Health Science Center, Memphis; Joseph Garza, Northeast Clinical Research Center, Bethlehem; Nicole Gass, Apex Medical Research Inc, Chicago; Sabrena Gates, Emory Clinic at Emory Saint Joseph's, Atlanta; Sarah Gates, Louis Stokes Cleveland VA Medical Center, Cleveland; Mary Geary, Innovative Research of West Florida, Clearwater; Katharine Geiger, Blair Medical Associates Inc, Altoona; Jennifer Geishauser, Blair Medical Associates Inc, Altoona; Anthony Giglio, Mercy Medical Research Institute, Springfield; Matthew Gilbert, University of Vermont Medical Center, Burlington; Sarah Godwin, Physicians East Endocrinology, Greenville; Bebe Goetter, Eastern Shore Medical Specialists, Fairhope; April Goley, UNC Diabetes Care Center, Chapel Hill; Laura Golici, UT Southwestern Medical Center, Dallas; Elisabeth Gomori, Medex Healthcare Research, New York; Jody Gonzales, Benefis Med Spa, Great Falls; Ashwini Gore, Medical University of South Carolina, Charleston; Timothy Gorman, Great Lakes Medical Research, Westfield; Albina Gosmanova, University of Oklahoma College of Medicine, Oklahoma City; Ketan Goswami, Physicians Research Associates LLC, Lawrenceville; Ann Gotham, University of Vermont Medical Center, Burlington; James Govoni, Panacea Clinical Research, San Antonio; Steven Graddick, Internal Medicine Associates of Greenville, Ann Arbor; Tiffany Grant, Radiant Research Inc, Chicago; Amanda Greca, OUHSC: Diabetes and Endocrinology, Oklahoma City; Carrie Green, DCOL Center for Clinical Research, Longview; Kathleen Greenbaum, Christiana Medical Aid Unit, Newark; James Greenwald, Medex Healthcare Research, New York; Daniel Grover, Internal

## SUPPLEMENTARY DATA

Medicine Associates of Greenville, Ann Arbor; George Grunberger, Grunberger Diabetes Institute, Bloomfield Hills; Michael Guice, American Institute of Research, Los Angeles; David Guiaro, Internal Medicine Associates of Greenville, Ann Arbor; Vijayasudha Gunna, Southeastern Endocrine & Diabetes, Roswell; Nina Guseva, Southern New Hampshire Diabetes and Endocrinology, Nashua; Thu Ha, Linda Vista Health Care Center, San Diego; Anjani Hagan, Louis Stokes Cleveland VA Medical Center, Cleveland; Shelton Hager, Holston Medical Group, Kingsport; Amina Haggag, Anaheim Clinical Trials, Anaheim; Michelle Haggard, Tulane University School of Medicine, New Orleans; Maxine Hamilton, Maxine Hamilton PA, Fort Lauderdale; Melinda Hamilton, Medex HealthCare Research, St. Louis; Pearlena Hamlet, St Johns Health System Inc, Springfield; Judy Hammond, Carolina Health Specialists, Myrtle Beach; Ashley Hansen, Optimum Clinical Research, Salt Lake City; Wendy Harrell, Mountain View Clinical Research, Greer; Elizabeth Harris, UNC Diabetes Care Center, Chapel Hill; Kathi Harris, OhioHealth Marion Area Physicians, Marion; Mary Harris, Naidu Clinic, Odessa; Lindsay Harrison, University of Texas Southwestern Medical Center, Dallas; Israel Hartman, Dr. Israel A. Hartman MD Clinical Practice, Dallas; Adrienne Hatch, Meridien Research, Brooksville; Daniel Hayes, University of Michigan Comprehensive Cancer Center, Ann Arbor; Michael Hayes, Awasty Research Network, Marion; Judy Heath, Internal Medicine Associates of Greenville, Ann Arbor; Rob Heineman, University of Nebraska Medical Center, Omaha, NE; April Heinzman, Facey Medical Group, Mission Hills; Mary Hendrick, Meridien Research, St. Petersburg; Roberta Herbst, Professional Clinical Research, Interlochen; Kathie Hermayer, Medical University of South Carolina, Charleston; Janet Hibbard, Lexington VA Medical Center, Lexington; WD Hill, Northeast Clinical Research Center, Bethlehem; Belinda Hilliard, AM Diabetes & Endocrinology Center, Bartlett; Matthew Hix, University Specialty Clinics, Columbia; Brian Hoch, Medex Healthcare Research, New York; Priscilla Hollander, Baylor Endocrine Center, Dallas; Zella Holmes, Mercy Medical Research Institute, Springfield; Catherine Horobetz, University of Tennessee Health Science Center, Memphis; Rivkah Horowitz, Greater Baltimore Medical Center, Baltimore; Paul Hsieh, Orange County Senior Care Clinic, Tustin; Sue Hsieh, Dignity Health - Chandler Regional Medical Center, Chandler; Wynn Htun, Tulane University School of Medicine, New Orleans; Jimmy Huang, American Institute of Research, Los Angeles; Christine Huber, Christ Hospital Lindner Research Center, Cincinnati; Tina Hudson, DCOL Center for Clinical Research, Longview; Sulmarur Huizar, Facey Medical Group, Mission Hills; Beatrice Hull, Medical University of South Carolina, Charleston; Jenny Hull, Preferred Primary Care Physicians, Pittsburgh; Kimberly Hummer, OUHSC: Diabetes and Endocrinology, Oklahoma City; Ripudaman Hundal, Christiana Medical Aid Unit, Newark; Gloria Hunt, Awasty Research Network, Marion; Vickie Hunt, Medical University of South Carolina, Charleston; Phillip Hutchinson, University Specialty Clinics, Columbia; Jai Hwang, Internal Medicine Associates of Greenville, Ann Arbor; Anthony Iannamorelli, Preferred Primary Care Physicians, Uniontown; Lisa Iannuzzi, Endocrine Associates of Long Island, Smithtown; Michelle Ingram, Veterans Affairs Medical Center, Omaha; Nazia Iram, Northwest Houston Cardiology, Houston; Faramarz Ismail-Beigi, University Hospitals Case Medical Center, Cleveland; Faramarz Ismail-Beigi, CWRU School of Medicine, Cleveland; Serge Jabbour, Thomas Jefferson University Hospitals, Philadelphia; Timothy Jackson, Heritage Valley Medical Group, Beaver; Luzmaria Jaen, Paramount Medical Research & Consulting, Cleveland; Vandana Jain, Radiant Research Inc, Chicago; Roya Jannesari, AMCR Institute Inc, Escondido; Victoria Januski, Physicians East Endocrinology, Greenville; Usha Japa, Tulane University School of Medicine, New Orleans; Kelly Jarvis, Louis Stokes Cleveland VA Medical Center, Cleveland; Lindsay Jayson, Research Institute of the Carolinas, Mooresville; Richard Jensen, Benefis Medical Group, Great Falls; Donni Jester, Southeastern Endocrine & Diabetes, Roswell; Christine Jocko, Crouse Medical Practice, Syracuse; Carol Johnson, Carol M Johnson MD LLC, Alabaster; Mandi Johnson, AM Diabetes & Endocrinology Center, Bartlett; Megan Johnson, Washington State University, Spokane; Kelly Johnston, 400 North Medical Center, Michigan City; Dan Jones, Harrison Community Hospital, Cadiz; Jocelyn

## SUPPLEMENTARY DATA

Jones, Rush University Medical Center, Chicago; Terry Jordan, Blair Medical Associates Inc, Altoona; Mario Juarez, Panacea Clinical Research, San Antonio; Abhishake Kaapuraala, Iowa Diabetes & Endocrinology Center, Des Moines; Angela Kain, Robley Rex VAMC, Louisville; Valerie Kaiser, Awasty Research Network, Marion; Kent Kamradt, Radiant Research Inc, Chicago; Peggy Karatoprakli, Veterans Affairs Medical Center, Omaha; Marjan Karegar, Robley Rex VAMC, Louisville; Chrisi Karounos, Lexington VA Medical Center, Lexington; Dennis Karounos, Lexington VA Medical Center, Lexington; Harischandra Karunaratne, Florida Heart Group, Orlando; Bonnie Katalenich, Tulane University School of Medicine, New Orleans; Kristen Katic, Preferred Primary Care Physicians, Uniontown; Michelle Katz, North Texas Endocrine Center, Dallas; Gulsharn Kaur, Bala and Khaira Medical Center, Fresno; Ashley Kawa, Louis Stokes Cleveland VA Medical Center, Cleveland; Caroline Keib, Crouse Medical Practice, Syracuse; Gayle Keider, Oakland Medical Research Center, Troy; David Kem, University of Oklahoma College of Medicine, Oklahoma City; Ryan Kennedy, UK HealthCare Kentucky Clinic, Lexington; Barbara Kenney, Apex Medical Research Inc, Chicago; Dean Kereiakes, Christ Hospital Lindner Research Center, Cincinnati; Mohamed Ketana, American Institute of Research, Los Angeles; Lindsey Kettinger, Medical University of South Carolina, Charleston; Ajit Khaira, Bala and Khaira Medical Center, Fresno; Amna Khan, Tulane University School of Medicine, New Orleans; Khaleda Khan, American Institute of Research, Los Angeles; Meena Khan, Greater Baltimore Medical Center, Baltimore; Muneer Khan, OUHSC: Diabetes and Endocrinology, Oklahoma City; Teck Khoo, Mercy Medical Center, Des Moines; Narine Khrlobyan, Facey Medical Group, Mission Hills; James Kilgore, Clinical Research Consultants Inc, Hoover; Grace Kim, Facey Medical Group, Mission Hills; Sarah Kimble, Medical University of South Carolina, Charleston; Maureen Kinsley, Jersey Shore University Medical Center, Neptune; Timothy Kitchen, Great Lakes Medical Research, Westfield; Michelle Klick, Crouse Medical Practice, Syracuse; Wendy Kniffen, Dallas Diabetes & Endocrine Center, Dallas; Rebecca Knight, Pioneer Medical Group, Cerritos; Dorothy Kodzwa, Medical University of South Carolina, Charleston; Troy Koenig, FPA Clinical Research, Kissimmee; Kateryna Komarovskiy, Robley Rex VAMC, Louisville; Yuthana Kong, Anaheim Clinical Trials, Anaheim; David Koontz, Internal Medicine Associates of Greenville, Ann Arbor; Sathya Krishnasamy, Robley Rex VAMC, Louisville; Sathya Krishnasamy, Louisville VA Medical Center, Louisville; Elizabeth Krueger, Radiant Research Inc, Chicago; Lisa Kuechenmeister, Veterans Affairs Medical Center, Omaha; Ann Kuehl, Apex Medical Research Inc, Chicago; Kevin Kuettel, Anaheim Clinical Trials, Anaheim; David Kugler, Endocrine Associates of Long Island, Smithtown; Tanya Kulow, University Hospitals Case Medical Center, Cleveland; Tanya Kulow, Louis Stokes Cleveland VA Medical Center, Cleveland; Igor Kupriyanchik, Grunberger Diabetes Institute, Rochester, MI; Tulsidas Kuruvanka, Northwest Houston Cardiology, Houston; Donald Kushner, Preferred Primary Care Physicians, Pittsburgh; Elise Kwon, Facey Medical Group, Mission Hills; Sooho Kwon, Medical University of South Carolina, Charleston; Michael Kyle, Radiant Research Inc, Chicago; Lauren LaBryer, OUHSC: Diabetes and Endocrinology, Oklahoma City; Joseph Labuda, Preferred Primary Care Physicians, Uniontown; Julie Lafave, Oakland Medical Research Center, Troy; Jacques Laguerre, Novant Health Southern Piedmont, Monroe; Alison Laliberte, Southern New Hampshire Diabetes and Endocrinology, Nashua; James Lane, OUHSC: Diabetes and Endocrinology, Oklahoma City; Christine Langel, Mercy Medical Center, Des Moines; Danielle Lann, Jersey Shore University Medical Center, Neptune; Joseph Largay, UNC Diabetes Care Center, Chapel Hill; Kashif Latif, AM Diabetes & Endocrinology Center, Bartlett; Tammi Latus, DCOL Center for Clinical Research, Longview; Jereta Lawrence, Arthritis & Diabetes Clinic, Monroe; Gregory Ledger, Mercy Medical Research Institute, Springfield; Francis Gil Lee, Greater Baltimore Medical Center, Baltimore; Elizabeth Lee, Anaheim Clinical Trials, Anaheim; Jonathan Leffert, North Texas Endocrine Center, Dallas; Matthew Leinung, Albany Medical Center, Albany; M. James Lenhard, Christiana Medical Aid Unit, Newark; Joseph Lentino, Radiant Research Inc, Chicago; Julissa Leon, Baylor Endocrine Center, Dallas; Molly Leonard, University of Colorado

## SUPPLEMENTARY DATA

School of Medicine, Denver; Nancy Letassy, OUHSC: Diabetes and Endocrinology, Oklahoma City; Kathryn Leuck, Research Institute of Dallas, Dallas; Philip Levin, Greater Baltimore Medical Center, Baltimore; Dennis Levinson, Apex Medical Research Inc, Chicago; Melissa Lewis, Physicians East Endocrinology, Greenville; Timothy Light, Innovative Research of West Florida, Clearwater; Jonea Lim, OUHSC: Diabetes and Endocrinology, Oklahoma City; Ronald Lindamood, Internal Medicine Associates of Greenville, Ann Arbor; Ildiko Lingvay, UT Southwestern Medical Center, Dallas; Janie Lipps, Vanderbilt University Medical Center, Nashville; Anna Lisa, Chavana Northeast Clinical Research Center, Bethlehem; Yolanda Livingston, Mountain View Clinical Research, Greer; Lee Llamas, Anaheim Clinical Trials, Anaheim; Ryan Loesch, University of Colorado School of Medicine, Denver; Tanya Long, Alzohaili Medical Consultants, Dearborn; Robert Looby, Harrison Community Hospital, Cadiz; Carlos Lopez, New York- Presbyterian University Hospital of Columbia, New York; Timothy Lorenz, Oakland Medical Research Center, Troy; Dragana Lovre, Tulane University School of Medicine, New Orleans; Peter Lu, Physicians Research Associates LLC, Lawrenceville; Kathryn Lucas, Diabetes & Endocrinology Consultants, Morehead; Gabriela Luevano, Narbonne Medical, Lomita; Mary Luidens, Albany Medical Endocrinology Albany; Blanca Luna, Speedway Family Practice Stanley F Stockhammer Jr, Deland; Louis Luttrell, Medical University of South Carolina, Charleston; Timothy Lyons, OUHSC: Diabetes and Endocrinology, Oklahoma City; Maria MacAdams, Covenant Medical Center, Lubbock; Michael MacAdams, Covenant Medical Center, Lubbock; David Mack, Medex Healthcare Research, New York; Mellie Mack, Awasty Research Network, Marion; Marcia Madden, International Diabetes Center, Minneapolis; Robert Madder, Heritage Valley Medical Group, Beaver; Shiyanka Madireddy, Dynamed Clinical Research, Houston; Laura Mae, Pearlman Radiant Research Inc, Chicago; Aparna Mahakala, Physicians Research Associates LLC, Lawrenceville; Hiralal Maheshwari, Midwest Endocrinology, Crystal Lake; Hussain Malbari, Martin Diagnostic Clinic, Tomball; Norman Maldonado, American Institute of Research, Los Angeles; Michelle Mallitz, Meridien Research, St. Petersburg; Mustafa Mandviwala, Northwest Heart Center, Tomball; Kara Mann, Dallas Diabetes & Endocrine Center, Dallas; Milena Mardahay, Medex Healthcare Research, New York; Jaime Marino, Apex Medical Research Inc, Chicago; Annis Marney, University of Vermont Medical Center, Burlington; Lisa Marshall, Southern New Hampshire Diabetes and Endocrinology, Nashua; Adriana Martin, Medex HealthCare Research, St. Louis; Earl Martin, Martin Diagnostic Clinic, Tomball; Geraldine Martinez, Catalina Research Institute, Chino; Gilbert Martinez, Catalina Research Institute, Chino; Salomon Martinez-Miss, Catalina Research Institute, Chino; Phyllis Marx, Radiant Research Inc, Chicago; Leslie Massara, Thomas Jefferson University Hospitals, Philadelphia; Momina Mastoor, Union Memorial Hospital, Baltimore; Glenn Matfin, International Diabetes Center, Minneapolis; Amita Maturu, University of Colorado School of Medicine, Denver; Peter Maurides, Internal Medicine Associates of Greenville, Ann Arbor; Michael May, Vanderbilt University Medical Center, Nashville; Ronald Mayfield, Mountain View Clinical Research, Greer; Bobby Maynard, Great Falls Clinic, Great Falls; Angela Mazza, Florida Diabetes/Endocrine Center, Orlando; Kathy McCann, International Diabetes Center, Minneapolis; James McCoy, University Specialty Clinics, Columbia; Todd McCoy, FPA Clinical Research, Kissimmee; Mary Kate McCullen, Thomas Jefferson University Hospitals, Philadelphia; Clayton McDaniel, Monterey Bay Family Physicians, Watsonville; Anne-Marie McDaniel, Monterey Bay Family Physicians, Watsonville; Michael McDermott, University of Colorado Hospital - Anschutz Inpatient Pavilion, Aurora; Andrew McDonald, Internal Medicine Associates of Greenville, Ann Arbor; Camille McDonald, Novant Health Southern Piedmont, Monroe; Roberta McDuffie, Tulane University School of Medicine, New Orleans; Brandi McMasters, Naidu Clinic, Odessa; Corey McMurray, Awasty Research Network, Marion; Terri Medlin, Diabetes & Endocrinology Consultants, Morehead; Monya Meinel, Radiant Research Inc, Chicago; Iris Mendez, Covenant Medical Center, Lubbock; Judson Menefee, Eastern Shore Medical Specialists, Fairhope; Melissa Meredith, University of Wisconsin School of Medicine and Public Health, Madison; Marcus Merriweather, FPA

## SUPPLEMENTARY DATA

Clinical Research, Kissimmee; James Mersey, Greater Baltimore Medical Center, Baltimore; Christine Messino, Clinical Study Center of Asheville, Asheville; Stephen Meyer, Tampa Clinical Research, Tampa; Linda Meyers, Medical University of South Carolina, Charleston; Donna Michael, Heritage Valley Medical Group, Beaver; Catherine Midyett, Arthritis & Diabetes Clinic, Monroe; Audrey Miklius, Research Institute of Dallas, Dallas; Emily Milford, Radiant Research Inc, Chicago; Bonnie Miller, Internal Medicine Associates of Greenville, Ann Arbor; Harold Miller, Crescent City Clinical Research, Metairie; Melissa Milligan, Awasty Research Network, Marion; Anita Minor, Medex HealthCare Research, St. Louis; Bresta Miranda-Palma, University of Miami Diabetes Treatment Center, Miami; Nicole Mirarchi, Thomas Jefferson University Hospitals, Philadelphia; Saritha Mittadodla, OUHSC: Diabetes and Endocrinology, Oklahoma City; Janette Mittle, Tampa Clinical Research, Tampa; Ann Moffat, Monterey Bay Family Physicians, Watsonville; Stephen Mohaupt, Catalina Research Institute, Chino; Kamran Mohiuddin, Northwest Heart Center, Tomball; Sri Mokshagundam, Robley Rex VAMC, Louisville; Susan Monaco, Anaheim Clinical Trials, Anaheim; Ronald Monsaert, Christiana Medical Aid Unit, Newark; Cynthia Montano-Pereira, Catalina Research Institute, Chino; Austin Montgomery, Medex HealthCare Research, St. Louis; Kelly Moody, Clinical Study Center of Asheville, Asheville; Mia Moon, Catalina Research Institute, Chino; Deborah Moore, Christiana Medical Aid Unit, Newark; Laura Moore, University Hospitals Case Medical Center, Cleveland; Laura Moore, Louis Stokes Cleveland VA Medical Center, Cleveland; Emily Morawski, Holston Medical Group, Kingsport; Cynthia Moreau, Tulane University School of Medicine, New Orleans; David Morin, Holston Medical Group, Kingsport; Carmen Moscoa, AMCR Institute Inc, Escondido; Chelsey Motzkin, Medex Healthcare Research, New York; Richard Mueller, Medex Healthcare Research, New York; Christina Munoz, Rush University Medical Center, Chicago; Miguel Munoz, Southeastern Endocrine & Diabetes, Roswell; Anjana Myneni, Grunberger Diabetes Institute, Bloomfield Hills; Bahar Naderi, Facey Medical Group, Mission Hills; Prathima Nagireddy, Grunberger Diabetes Institute, Bloomfield Hills; Jayaram Naidu, Naidu Clinic, Odessa; Raja Naidu, Naidu Clinic, Odessa; Savita Naik, Medex Healthcare Research, New York; Roberta Naimark, Clinical Study Center of Asheville, Asheville; Maria Nardicchi, Grunberger Diabetes Institute, Bloomfield Hills; Ikeadi Ndukwu, 400 North Medical Center, Michigan City; Christian Neller, Tampa Clinical Research, Tampa; Lisa Netten-Foster, Iowa Diabetes & Endocrinology Center, Des Moines; Joshua Neumiller, Washington State University, Spokane; Tirado New, York-Presbyterian University Hospital of Columbia, New York; Susan Newman, Great Lakes Medical Research, Westfield; Tabitha Newton, Instituto De Endocrinologia Diabetes, Levittown; BaoAn Nguyen, Veterans Affairs Medical Center, Omaha; Brent Nicol, The Diabetes Center, Murrells Inlet; Philip Nicol, The Diabetes Center, Murrells Inlet; Loretta Ninivaggi, Jersey Shore University Medical Center, Neptune; Kevin Niswender, Vanderbilt University Medical Center, Nashville; Lana Norman, Diablo Clinical Research, Walnut Creek; Gary Noworatzky, Dr. Israel A. Hartman MD Clinical Practice Dallas; Ebener Nyenwe, University of Tennessee Health Science Center, Memphis; Heather O'Brien, Physicians East, Greenville, NC; Thomas O'Connell, UNC Diabetes Care Center, Chapel Hill; Wendy Oden, DCOL Center for Clinical Research Longview; Adeniyi Odugbesan, Physicians Research Associates LLC, Lawrenceville; Michael Oliver, Heritage Valley Medical Group, Beaver; Tonya Oliver, 400 North Medical Center, Michigan City; Carly Olmeda, Tulane University School of Medicine, New Orleans; Christine O'Neil, Southern New Hampshire Diabetes and Endocrinology, Nashua; Ruth Oremus, Lexington VA Medical Center, Lexington; Tania Ortega, American Institute of Research, Los Angeles; Sonia Ortiz-Santos, Instituto De Endocrinologia Diabetes, Levittown; Tracey Osborn, Innovative Research of West Florida, Clearwater; Sailatha Padmanabhan, University of Oklahoma College of Medicine, Oklahoma City; Olivia Papacostea, UT Southwestern Medical Center, Dallas; Inna Park, Medex HealthCare Research, St. Louis; Anna Parker, Anaheim Clinical Trials, Anaheim; Kristine Parker, Medical University of South Carolina, Charleston; R. Parker, University Specialty Clinics, Columbia; Christine Patel, University

## SUPPLEMENTARY DATA

Hospitals Case Medical Center, Cleveland; Christine Patel, Louis Stokes Cleveland VA Medical Center, Cleveland; Minesh Patel, 400 North Medical Center, Michigan City; Rakesh Patel, Endocrine and Psychiatry Center, Houston; Roshni Patel, Novant Health Southern Piedmont, Monroe; Marisol Patino, Wilshire Oncology Medical Group, Corona; Sara Patterson, Benefis Medical Group, Great Falls; Katrina Paulson, Benefis Medical Group, Great Falls; Alejandro Paz, AMCR Institute Inc, Escondido; Riga Pemba, Facey Medical Group, Mission Hills; Constance Pepe, Thomas Jefferson University Hospitals, Philadelphia; Jose Perez, FPA Clinical Research, Kissimmee; Tamra Perez, Robley Rex VAMC, Louisville; Debbie Perry, KD Medical Group Inc, Columbia; Bunny Phillips, Mountain View Clinical Research, Greer; Julie Phillips, Medical Group, Kingsport; Alicia Pickett, University Hospitals Case Medical Center, Cleveland; Alicia Pickett, Louis Stokes Cleveland VA Medical Center, Cleveland; Mark Pinson, Medex Healthcare Research, St. Louis; Robin Pitzer, Northeast Clinical Research Center, Bethlehem; Madhuri Poduri, UT Southwestern Medical Center, Dallas; Jennifer Poehls, University of Wisconsin School of Medicine and Public Health, Madison; Tony Poteat, Internal Medicine Associates of Greenville, Ann Arbor; Lisa Powell, Alzohaili Medical Consultants, Dearborn; Siripurapu Prasad, OhioHealth Marion Area Physicians, Marion; Richard Pratley, University of Vermont Medical Center, South Burlington; Richard Pratley, Florida Diabetes/Endocrine Center, Orlando; Jonathan Prevost, Medical Associates of New York, New York; Evelyn Price, Panacea Clinical Research, San Antonio; Diane Priest, OUHSC: Diabetes and Endocrinology, Oklahoma City; Luz Prieto, University of Miami, Miami; Tarlock Purewal, Awasty Research Network, Marion; Raman Purighalla, Preferred Primary Care Physicians, Pittsburgh; Uma Purighalla, Preferred Primary Care Physicians, Pittsburgh; Mark Quadrel, Internal Medicine of Morris County, Dover; Ambreen Qureshi, UK HealthCare Kentucky Clinic, Lexington; Rani Radhamma, Mercy Medical Research Institute, Springfield; Eman Rafla, Internal Medicine of Morris County, Dover; Hussein Rajab, Medical University of South Carolina Charleston; Ramesh Ramalingam, University of Nebraska Medical Center, Omaha, NE; Alexandra Ramirez, North Texas Endocrine Center, Dallas; Julie Ramirez, American Institute of Research, Los Angeles; Karina Ramirez, Anaheim Clinical Trials, Anaheim; Maria Ramirez, Medical University of South Carolina, Charleston; Martin Randall, Grunberger Diabetes Institute, Rochester, MI; Uma Rangaraj, Arthritis & Diabetes Clinic, Monroe; Veitla Rao, OUHSC: Diabetes and Endocrinology, Oklahoma City; Pat Rasmussen, Midwest Endocrinology, Crystal Lake; Neda Rasouli, University of Colorado Denver – Veterans Hospital, Aurora; Neda Rasouli, Denver VA Medical Center, Denver; Anita Ray, North Texas Endocrine Center, Dallas; Shannon Ray, Whiteville Medical Associates, Whiteville; John Reed, Southeastern Endocrine & Diabetes, Roswell; Lucy Rems, Anaheim Clinical Trials, Anaheim; Karen Renaud, Tampa Clinical Research, Tampa; Marie Reno, Medex HealthCare Research, St. Louis; Maria Resnick, Great Lakes Medical Research, Westfield; Jane Reusch, Denver VA Medical Center, Denver; L. Reynolds, University of Kentucky Medical Center, Lexington; Kimberly Rhoton, Medical University of South Carolina, Charleston; Jackson Rhudy, Optimum Clinical Research, Salt Lake City; Cassie Ricci, OUHSC: Diabetes and Endocrinology, Oklahoma City; Lucian Rice, Clinical Study Center of Asheville, Asheville; Antoinette Richardson, Vanderbilt University Medical Center, Nashville; Lynn Richardson, Louis Stokes Cleveland VA Medical Center, Cleveland; Lynn Richardson, Louis Stokes Cleveland VA Medical Center, Cleveland; Heather Rickard, Mountain View Clinical Research, Greer; Michael Rickels, Diabetes Endocrine, Spruce; Dennis Riff, Advanced Clinical Research Institute, Anaheim; Nancy Rightenour, Blair Medical Associates Inc, Altoona; Joseph Risser, Linda Vista Health Care Center, San Diego; Abid Rizvi, Mercury Pharma Services, Houston; Ali Rizvi, University Specialty Clinics, Columbia; Jennifer Robertson, Mercy Medical Research Institute, Springfield; Annette Robinson, University of Louisville Physicians, Louisville; Randall Robinson, Mercy Medical Research Institute, Springfield; Marion Rockwell, Blair Medical Associates Inc, Altoona; JuanPablo Rodriguez, The Diabetes Research Center, Fletcher Allen Health Care, South Burlington, VT; Mayra Rodriguez, FPA Clinical Research, Kissimmee; Martha Rojas, Anaheim Clinical

## SUPPLEMENTARY DATA

Trials, Anaheim; Wendy Rojas, Pioneer Medical Group, Cerritos; Leslie Rooker-Morris, Dallas Diabetes & Endocrine Center, Dallas; Connie Root, Vanderbilt University Medical Center, Nashville; Muriel Rose, Monterey Bay Family Physicians, Watsonville; Richard Rosenberg, New York-Presbyterian University Hospital of Columbia, New York; Julio Rosenstock, Dallas Diabetes & Endocrine Center, Dallas; Marilynn Roth, University of Vermont Medical Center, South Burlington; Rachel Ruby, Monterey Bay Family Physicians, Watsonville; Richard Sachson, Endocrine Associates of Dallas, Dallas; Paul Sack, Union Memorial Hospital, Baltimore; R. Kent Sadler, Northeast Clinical Research Center, Bethlehem; Subhash Sahai, Iowa Diabetes & Endocrinology Center, Des Moines; Jennifer Salazar, OUHSC: Diabetes and Endocrinology, Oklahoma City; Manjula Salgam, Albany Medical Center, Albany; Aditya Samal, Northwest Houston Cardiology, Houston; Anil Samson, Apex Medical Research Inc, Chicago; Rebecca Sanagorski, Denver VA Medical Center, Denver; Angela Sanchez, Dr. Israel A. Hartman MD Clinical Practice, Dallas; Jay Sandberg, Oakland Medical Research Center, Troy; Marvin Sanderson, Physicians Group, Little Rock; Jaime Sandoval, Corpus Christi Memorial Hospital, Corpus Christi; Esther Santiago, FPA Clinical Research, Kissimmee; Tabby Sapp, Southeastern Endocrine & Diabetes, Roswell; Jacqueline Saunders, Mountain View Clinical Research, Greer; Joseph Schill, Research Institute of Dallas, Dallas; Charles Schott, AMCR Institute Inc, Escondido; Robert Schreiman, Orange County Senior Care Clinic, Tustin; Deborah Schu, Crouse Medical Practice, Syracuse; Kristy Schuh, Baylor Endocrine Center, Dallas; Mark Schutta, Diabetes Endocrine, Spruce; Jane Schwartz, Christ Hospital Lindner Research Center, Cincinnati; Laurie Schweppe, Meridien Research, St. Petersburg; Hal Scofield, University of Oklahoma College of Medicine, Oklahoma City; Anita Scribner, DCOL Center for Clinical Research, Longview; Jennifer Seal, 400 North Medical Center, Michigan City; John Sealock, Medex Healthcare Research, New York; Bruce Seaton, Research Institute of the Carolinas, Mooresville; Theresa Sedlak-Hanslik, Paramount Medical Research & Consulting, Cleveland; Kathleen Seekins, Panacea Clinical Research, San Antonio; Marianne Segal, Innovative Research of West Florida, Clearwater; Stacey Seggelke, University of Colorado Hospital - Anschutz Inpatient Pavilion, Aurora; Stephanie Semenza, Great Falls Clinic, Great Falls; Patricia Sentman, Meridien Research, Tampa; Marian Serra, Optimum Clinical Research, Salt Lake City; Prakash Seshadri, Christiana Medical Aid Unit, Newark; Eduardo Sevilla, Diablo Clinical Research, Walnut Creek; Shamik Shah, Grunberger Diabetes Institute, Bloomfield Hills; Kristen Shaheen, Physicians East Endocrinology, Greenville; Michael Shanik, Endocrine Associates of Long Island, Smithtown; Jessica Shaw, COR Clinical Research, Oklahoma City; Michelle Sheets, 400 North Medical Center, Michigan City; Carol Shellabarger, Southeastern Endocrine & Diabetes, Roswell; Jay Sher, Jersey Shore University Medical Center, Neptune; Jeanette Shippey, Southern New Hampshire Diabetes and Endocrinology, Nashua; Vijay Shivaswamy, Veterans Affairs Medical Center, Omaha; Mansur Shomali, Union Memorial Hospital, Baltimore; David Shore, Physicians Research Associates LLC, Lawrenceville; Pranavkumar Shroff, Apex Medical Research Inc, Chicago; Taha Siddiqui, Apex Medical Research Inc, Chicago; Angela Siegwald, University of Louisville Physicians, Louisville; Robert Silver, Southern New Hampshire Diabetes and Endocrinology, Nashua; Debra Simmons, Utah Diabetes Endocrinology Center, Salt Lake City; Robyn Simons, Internal Medicine Center, Mobile; Abdulhadi Sinan, Alzohaili Medical Consultants, Dearborn; Manmeet Singh, Tulane University School of Medicine, New Orleans; Sirinart Sirinvaravong, University Specialty Clinics, Columbia; Jennifer Skero, Covenant Medical Center, Lubbock; Judith Slover-Zipf, Jersey Shore University Medical Center, Neptune; Sarah Small, Novant Health Southern Piedmont, Monroe; Bridgette Smith, Kernodle Clinic Inc, Burlington; Kristy Smith, Mountain View Clinical Research, Greer; Megan Smith, Novant Health Southern Piedmont, Monroe; Jennifer Sohl, Crouse Medical Practice, Syracuse; Sarah-Helen Solarz, Louis Stokes Cleveland VA Medical Center, Cleveland; Sarah-Helen Solarz, University Hospitals Case Medical Center, Cleveland; Daniel Soler, Catalina Research Institute Chino; Ajay Sood, University Hospitals Case Medical Center, Cleveland; Nicoletta Sora, Medical University of South Carolina,

## SUPPLEMENTARY DATA

Charleston; Annie Souchet, Apex Medical Research Inc, Chicago; Jeremy Soule, Medical University of South Carolina, Charleston; Jeffrey Sparks, Kernodle Clinic Inc, Burlington; Linda Spector, Southern New Hampshire Diabetes and Endocrinology, Nashua; Richard Speicher, Central Florida Medical Associates, Deland; Lori Spillers, Medical University of South Carolina, Charleston; Traci Spivey, Northeast Clinical Research Center, Bethlehem; Nina Springer, Preferred Primary Care Physicians, Uniontown; Heidi Sprouse, Blair Medical Associates Inc, Altoona; Jennifer St. John, OUHSC: Diabetes and Endocrinology, Oklahoma City; Amy Stacey, DCOL Center for Clinical Research, Longview; Helen Stacey, Diablo Clinical Research, Walnut Creek; Mollie Stafford, Clinical Study Center of Asheville, Asheville; Eva Stagner, DCOL Center for Clinical Research, Longview; Karen Staples, Carolina Health Specialists, Myrtle Beach; Emily Steadman, Radiant Research Inc, Chicago; Robert Steed, Southeastern Endocrine & Diabetes, Roswell; Gerald Steeves, Blair Medical Associates Inc, Altoona; Helmut Steinberg, University of Tennessee Health Science Center, Memphis; Carol Stell, Tulane University School of Medicine, New Orleans; Edward Stirman, Holston Medical Group, Kingsport; Karl Straub, John L. McClellan Memorial Veterans Hospital, Little Rock; Elinor Strock, International Diabetes Center, Minneapolis; Marian Sue, Kirkman UNC Diabetes Care Center, Chapel Hill; Orlando Suris, Northeast Clinical Research Center, Bethlehem; Terri Sutton, Diabetes & Endocrinology Consultants, Morehead; Isam Tabbah, OhioHealth Marion Area Physicians, Marion; Mitali Talsania, OUHSC: Diabetes and Endocrinology, Oklahoma City; Rocky Tang, New York-Presbyterian University Hospital of Columbia, New York; Jessica Tapia, Southeastern Endocrine & Diabetes, Roswell; Kelly Taylor, Medical University of South Carolina, Charleston; Rebecca Taylor-Hancher, Preferred Primary Care Physicians, Uniontown; Rachel Teator, Baylor Endocrine Center, Dallas; Memello Tekateka, Radiant Research Inc, Chicago; Brian Temple, Medex Healthcare Research, New York; Karen Temple, Kernodle Clinic Inc, Burlington; Marsha Teodori, Rush University Medical Center, Chicago; Patricia Tharp, Tampa Clinical Research, Tampa; Tina Thethi, Tulane University School of Medicine, New Orleans; Pierre Theuma, Mercy Medical Center, Des Moines; Sarah Thomas, Radiant Research Inc, Chicago; Anna Thottan, University of Vermont Medical Center, South Burlington; James Thrasher, Physicians Group, Little Rock; Lesa Thrasher, Physicians Group, Little Rock; Monika Tiemeyer, Jersey Shore University Medical Center, Neptune; Margaret Tiktin, Louis Stokes Cleveland VA Medical Center, Cleveland; Margaret Tiktin, University Hospitals Case Medical Center, Cleveland; Irene Tinney, Naidu Clinic, Odessa; Timothy Tobin, Diagnostic Clinic of Longview, Longview; Shivani Toma, North Texas Endocrine Center, Dallas; Maritza Tovar, Suncoast Medical Center, St. Petersburg; Judith Townsend, Comprehensive Weight Control Center, New York; Constance Trantow, University of Wisconsin School of Medicine and Public Health, Madison; Henry Traylor, Whiteville Medical Associates, Whiteville; Miguel Trevino, Innovative Research of West Florida, Clearwater; Michael Troy, Northeast Clinical Research Center, Bethlehem; Darrell Trumper, Accurate Clinical Research, Houston; Jennifer Tryggestad, University of Colorado Hospital - Anschutz Inpatient Pavilion, Aurora; Carol Tucker, Grunberger Diabetes Institute, Bloomfield Hills; Juliana Turner, Clinical Study Center of Asheville, Asheville; Robert Turney, Kernodle Clinic Inc, Burlington; Cindy Tuten, Clinical Study Center of Asheville, Asheville; Joanna Tyzack, Greater Baltimore Medical Center, Baltimore; Lauren Ullo, Suncoast Medical Center, St. Petersburg; Chantal Underkofler, Denver VA Medical Center, Denver; Jeffrey Unger, Catalina Research Institute, Chino; Ramon Urdanetta, Florida Diabetes/Endocrine Center, Orlando; Vanessa Valdivia, Anaheim Clinical Trials, Anaheim; Sharon Valenti, Crouse Medical Practice, Syracuse; Anna Vanderheiden, UT Southwestern Medical Center, Dallas; Megan Vanderlinde-Wood, OUHSC: Diabetes and Endocrinology, Oklahoma City; Chandrasekhar Varma, AMCR Institute Inc, Escondido; Eloisa Vasquez, Anaheim Clinical Trials, Anaheim; Maripaz Vazquez, Rush University Medical Center, Chicago; David Vickery, Clinical Study Center of Asheville, Asheville; Betty Villafuerte, University of Louisville Physicians, Louisville; Claudia Villegas, Catalina Research Institute, Moreno; Jessica Vivar, Orange County Senior Care

## SUPPLEMENTARY DATA

Clinic, Tustin; Krishnamoorthy Vivekananthan, Northwest Houston Cardiology, Houston; Glen Vo, Maxine Hamilton PA, Fort Lauderdale; Katarina Vukojicic, UNC Diabetes Care Center, Chapel Hill; Amy Wachter, Christiana Medical Aid Unit, Newark; Dain Wahl, Christ Hospital Lindner Research Center, Cincinnati; Jonathan Waitmann, Comprehensive Weight Control Center, New York; Debra Walker, Robley Rex VAMC, Louisville; John Walsh, AMCR Institute Inc, Escondido; Kimberly Walsh, Dartmouth-Hitchcock Medical Center, Lebanon; Anita Walton, Linda Vista Health Care Center, San Diego; Aileen Wang, Tulane University School of Medicine, New Orleans; Karla Wardell, Physicians Research Associates LLC, Lawrenceville; Mark Warren, Physicians East Endocrinology, Greenville; Michael Warren, Tampa Clinical Research, Tampa; Susan Watkins, North Texas Endocrine Center, Dallas; Jean Watkinson, Preferred Primary Care Physicians, Pittsburgh; Myra Watts, Medical Group, Kingsport; Veena Watwe, Endocrine and Psychiatry Center, Houston; Nancy Weaver, Blair Medical Associates Inc, Altoona; Robert Weber, Monterey Bay Family Physicians, Watsonville; Catherine Wedick, Comprehensive Weight Control Center, New York; Debra Weeks, Washington State University, Spokane; Larissa Weeks, Washington State University, Spokane; Kathleen Weindorff, DCOL Center for Clinical Research, Longview; Richard Weinstein, Diablo Clinical Research, Walnut Creek; Sarah Weiss, Meridien Research, Sarasota; Kelly Wenger, Naidu Clinic, Odessa; Marlene Wentworth, Radiant Research Inc, Chicago; Amanda Werner, Louis Stokes Cleveland VA Medical Center, Cleveland; Mary West, Naidu Clinic, Odessa; Sheila Whelan, Alzohaili Medical Consultants, Dearborn; Bee White, Catalina Research Institute, Chino; Judith White, Holston Medical Group, Kingsport; Melanie Whitmire, University Specialty Clinics, Columbia; Rochelle Whittington, Atlanta Diabetes Associates, Atlanta; Jessica Wical, Suncoast Medical Center, St. Petersburg; Christine Wigley, University of Tennessee Health Science Center, Memphis; Francesca Wilkins, Tulane University School of Medicine, New Orleans; Katharine Will, Blair Medical Associates Inc, Altoona; Aimee Williams, Diabetes & Endocrinology Consultants, Morehead; Lou Ellen Wilson, Facey Medical Group, Mission Hills; Meredith Wince, Medical University of South Carolina, Charleston; Sara Wine, Professional Clinical Research, Interlochen; Peter Winkle, Anaheim Clinical Trials, Anaheim; Connie Winner, Benefis Medical Group, Great Falls; Jonathan Wise, Crescent City Clinical Research, Metairie; Melanie Witte, University of Wisconsin School of Medicine and Public Health, Madison; Jackie Wittenmyer, Paramount Medical Research & Consulting, Cleveland; Cynthia Wood, Christ Hospital Lindner Research Center, Cincinnati; Ruth Wood, Mountain View Clinical Research, Greer; Chivers Woodruff, Radiant Research Inc, Birmingham; Bryan Worthington, Internal Medicine Associates of Greenville, Ann Arbor; Donny Wynn, OUHSC: Diabetes and Endocrinology, Oklahoma City; Carol Wysham, Washington State University, Spokane; Patricia Xavier, Martin Diagnostic Clinic, Tomball; Susana Yela, Catalina Research Institute, Chino; Lydia Yenoby, Tulane University School of Medicine, New Orleans; Laura Young, UNC Diabetes Care Center, Chapel Hill; Nadia Younus, Endocrine and Psychiatry Center, Houston; Veronica Yourell, Southern New Hampshire Diabetes and Endocrinology, Nashua; Musaab Zaid, Alzohaili Medical Consultants, Dearborn; Imran Zubair, Optimum Clinical Research, Salt Lake City.