

## Research: Treatment

# Baseline characteristics in the VERIFY study: a randomized trial assessing the durability of glycaemic control with early vildagliptin-metformin combination in newly diagnosed Type 2 diabetes

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### Abstract

**Aim** To assess the long-term clinical benefits of early combination treatment with vildagliptin-metformin vs. standard-of-care, metformin monotherapy in the ongoing VERIFY study.

**Methods** We randomized 2001 participants with multi-ethnic background, aged 18–70 years, having HbA<sub>1c</sub> levels 48–58 mmol/mol (6.5–7.5%) and BMI 22–40 kg/m<sup>2</sup>. Baseline data included HbA<sub>1c</sub>, fasting plasma glucose and homeostasis model  $\beta$ -cell and insulin sensitivity. Standardized meal-tests, insulin secretion rate relative to glucose, and oral glucose insulin sensitivity were assessed in a subpopulation.

**Results** Out of 4524 screened, data were collected from the 2001 eligible participants (53% women) across Europe (52.4%), Latin America (26.8%), Asia (17.2%), South Africa (3.1%) and Australia (0.5%). The median (interquartile range) disease duration was 3.4 (0.9, 10.2) months; mean ( $\pm$ SD) age 54.3 $\pm$ 9.4 years; weight 85.5 $\pm$ 17.5 kg and BMI 31.1 $\pm$ 4.7 kg/m<sup>2</sup>. Baseline HbA<sub>1c</sub> was 52 $\pm$ 3 mmol/mol (6.9 $\pm$ 0.3%), fasting plasma glucose 7.5 $\pm$ 1.5 mmol/l and the median (interquartile range) of fasting insulin was 109 (75–160) mU/l. Homeostasis model  $\beta$ -cell and insulin sensitivity values were 84% (60, 116) and 46% (31, 68), respectively. In those undertaking meal-tests, insulin secretion rate relative to glucose was 28 $\pm$ 12 pmol/min/m<sup>2</sup>/mmol/l and oral glucose insulin sensitivity was 353 $\pm$ 57 ml/min/m<sup>2</sup>.

**Conclusions** Our current, multi-ethnic, newly diagnosed VERIFY population reflects a characteristic presence of early insulin resistance in participants with increased demand for insulin associated with obesity. The VERIFY study will provide unique evidence in characterizing therapeutic intervention in a diverse population with hyperglycaemia, focusing on durability of early glycaemic control.

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### Introduction

There is debate about the optimum early pharmacological treatment of diabetes, although most authorities recommend metformin [1]. Beyond metformin it is usual to add a second therapy, but often this intensification occurs late, long after

good glycaemic control is lost [2]. Second line agents include dipeptidyl peptidase-4 (DPP-4) inhibitors, which are good candidates for early combination therapy [1]. DPP-4 inhibitors improve glucose homeostasis synergistically with metformin even in mild hyperglycaemia, without the adverse effects of weight gain and hypoglycaemia [3,4].

VERIFY (Vildagliptin Efficacy in combination with metformin For early treatment of Type 2 diabetes) is an ongoing, 5-year, multinational, multi-ethnic study being conducted in 254 centres across 34 countries (Appendix: Table A1). We aimed to investigate, for the first time, the long-term benefits of early treatment intensification with a DPP-4 inhibitor (vildagliptin)-metformin combination over

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**What's new?**

- The VERIFY study is the first study to assess the long-term clinical benefits of early combination treatment with a dipeptidyl peptidase-4 inhibitor (vildagliptin)-metformin vs. standard-of-care metformin monotherapy in people newly diagnosed with Type 2 diabetes.
- This report describes the baseline characteristics of a newly diagnosed population with Type 2 diabetes from a diverse geographical and ethnic background, demonstrating a classic profile of presence of early insulin resistance associated with elevated BMI as a surrogate for obesity.
- The study anticipates generating unique evidence on the progression of  $\beta$ -cell function, insulin resistance, early complications of diabetes, and effect on health status upon treatment with early vildagliptin-metformin combination.

standard-of-care metformin monotherapy in maintaining durable glycaemic control in people with newly diagnosed Type 2 diabetes.

In contrast to many cardiovascular outcome studies, we aimed to recruit a population reflecting the typical characteristics of newly diagnosed people living with diabetes worldwide.

**Methods****Study design**

The study design has been described in detail elsewhere [5]. Briefly, the VERIFY trial (NCT01528254) is an ongoing randomized, double-blind, parallel-group study consisting of a screening visit, a 3-week metformin-alone run-in period, and a 5-year treatment period during which the treatment is consecutively intensified, when clinically indicated at the investigators' discretion. Durability of glycaemic control, time to insulin initiation, changes in  $\beta$ -cell function and insulin sensitivity have been assessed over time.

The study protocol was approved by the Institutional Review Boards, Independent Ethics Committees and Competent Health Authorities in accordance with European Community Directive 2001/20/EC or as per national and international regulatory requirements in participating countries.

**Study population**

Participants aged 18–70 years, newly diagnosed with Type 2 diabetes ( $\leq 24$  months) as per local diagnostic criteria, having centrally confirmed HbA<sub>1c</sub> levels between 48 mmol/mol (6.5%) and 58 mmol/mol (7.5%), and BMI 22–40 kg/m<sup>2</sup>, were included in the study [5]. Individuals undergoing anti-diabetes treatment (except for short-term metformin) within

3 months prior to screening, or using any weight-loss medications were excluded, as were pregnant or breastfeeding women, and those with chronic liver disease or ongoing congestive heart failure [New York Heart Association (NYHA) III or IV].

**Study assessments**

Baseline measurements were obtained at the screening visit, or at the next visit prior to initiation of metformin up-titration. The primary efficacy assessments include HbA<sub>1c</sub> measurements to determine the time to initial treatment failure and the rate of loss in glycaemic control over time. Participants visit the study site every 13 weeks for 5 years to comply with the study procedures [5]. Laboratory samples are collected at each visit and analysed. Vital signs, electrocardiogram, body weight, haematology and biochemistry, fasting lipid profile and triglycerides, liver and renal function tests, urinalysis and adverse events are the key safety assessments. Major adverse cardiovascular events are independently adjudicated (exploratory endpoint) and an independent data safety committee monitors an unblinded periodic review of all safety data.

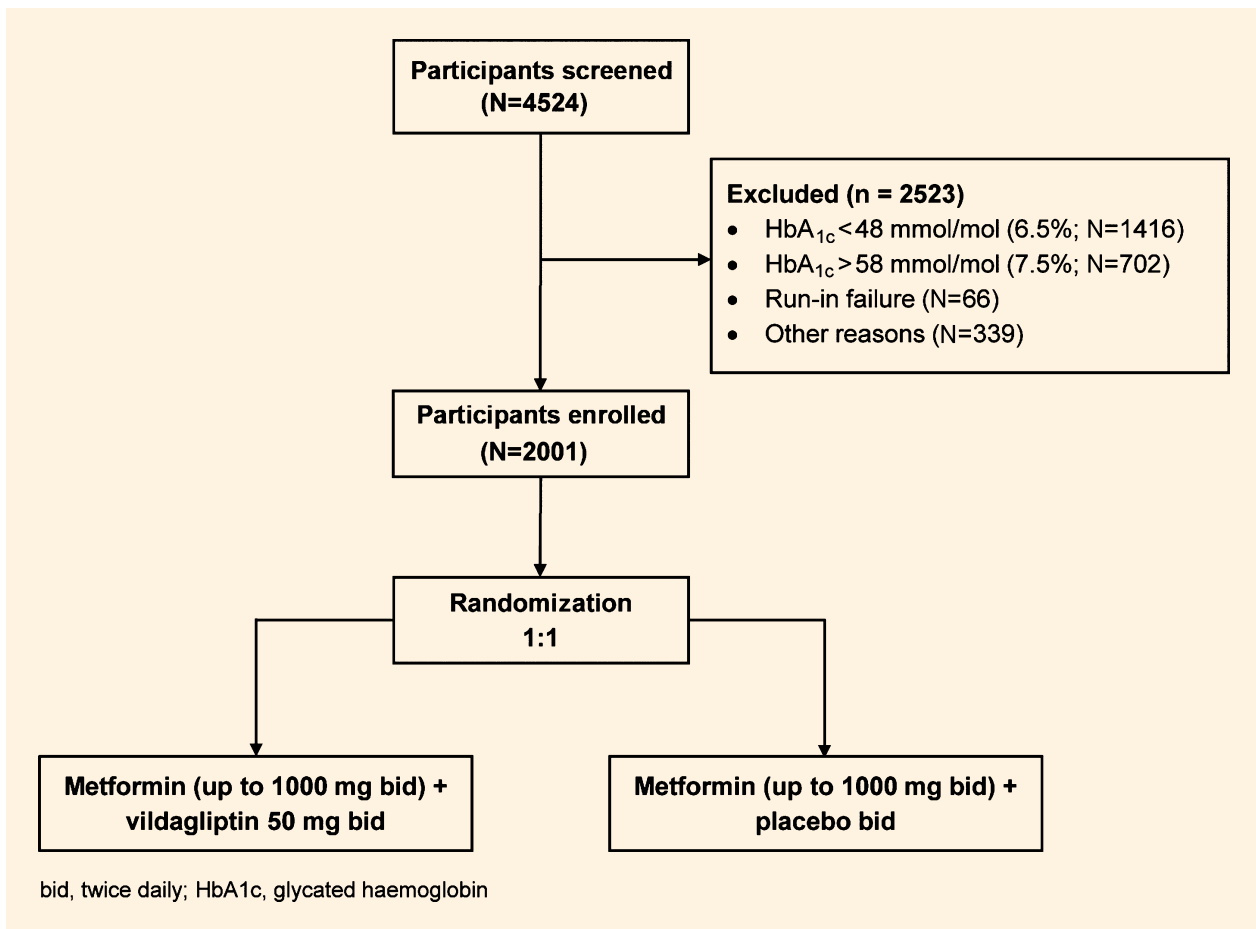
In a large subpopulation (n=462), standardized and locally adapted, annual meal-tests are performed for assessment of plasma glucose levels, insulin, and C-peptide concentrations. Indices of  $\beta$ -cell function (insulin secretion rate relative to glucose and homeostasis model assessment of  $\beta$ -cell function (HOMA- $\beta$ )), insulin sensitivity (oral glucose sensitivity index), and insulin resistance (HOMA-% sensitivity) are calculated [6,7].

**Statistical analysis**

Blinded baseline demographics and key glycaemic variables were analysed descriptively and summarized for all randomized participants. Categorical variables including age, gender and BMI were summarized with frequency and percentage, whereas continuous variables including duration of disease and HbA<sub>1c</sub> were summarized with mean  $\pm$ SD.

**Results****Recruitment of participants**

Recruitment for the VERIFY trial started in March 2012 and randomization was completed in April 2014. A total of 2001 people, newly diagnosed with mild hyperglycaemia, were randomized out of the 4524 screened. The major reason for screening failure was an HbA<sub>1c</sub> value outside the protocol-defined, centrally assessed range of 48–58 mmol/mol (6.5–7.5%). A total of 66 participants were classified as run-in failures because of metformin-intolerance prior to up-titration to the lowest targeted dose of 1000 mg/day. Details of participants' dispositions are shown in Figure 1.



**FIGURE 1** Disposition of participants screened in the VERIFY trial

The geographical distribution of participants enrolled for this trial was: Europe (52.4%), Latin America (26.8%), Asia (17.2%), South Africa (3.1%) and Australia (0.5%).

### Baseline characteristics

Overall demographics and baseline characteristics of participants are presented in Table 1.

The median (interquartile range) age of participants was 55 (48, 62) years, baseline HbA<sub>1c</sub> 52±3 mmol/mol (corresponding to 6.9±0.3%), fasting plasma glucose 7.5±1.5 mmol/l, and median (interquartile range) duration of diabetes 3.4 (0.9,10.2) months. Overall, men and women were often enrolled equally in the study despite some country-level differences. The mean baseline GFR was 87.4±18.5 ml/min/1.73m<sup>2</sup>. Overall, 14.5% of the study population were smoking at baseline. Presence of early microvascular complications were reported in 8% of the participants enrolled.

At baseline the median (interquartile range) of fasting insulin was 109 (75–160) mU/l, and HOMA-β and HOMA-% sensitivity values were 84% (60, 116) and 46% (31, 68), respectively. In the subset of participants (n=462) undertaking meal-tests, 2-hour plasma glucose values were 9.3±2.8 mmol/l,

insulin secretion rate relative to glucose was 28±12 pmol/min/m<sup>2</sup>/mmol/l, and oral glucose sensitivity index value was 353±57 ml/min/m<sup>2</sup>. Table 2 shows the variability of the meal-test measurements by geographic distribution.

### Discussion

The VERIFY study cohort explores a newly diagnosed population with Type 2 diabetes with mild hyperglycaemia who have the potential for preservation of their β-cell function, and for achieving a long-term durable response to early therapy.

One principal goal of treating newly diagnosed drug-naive individuals is to achieve glycaemic control approaching normoglycaemia [8]. This trial explores the concept that optimization of therapy, in this case with an early vildagliptin-metformin combination, could overcome β-cell functional deterioration and thereby extend the durability of treatment over time.

Previous intervention studies on initial combination therapy have recruited participants with baseline HbA<sub>1c</sub> levels ≥64 mmol/mol (≥8.0%) [9–15]. Additionally, A Diabetes Outcome Progression Trial (ADOPT) [16] and Diabetes Prevention Program (DPP) [17] reported limited baseline variables with

**Table 1** Demographics and baseline characteristics of participants

| Variable                                      | Total           |
|---|-----------------|
| Patient population, n                         | 2001            |
| Women, n (%)                                  | 1060 (53.0)     |
| Age, years                                    |                 |
| Median (IQR)                                  | 55 (48, 62)     |
| Race, n (%)                                   |                 |
| White European                                | 1217 (60.8)     |
| Black   | 49 (2.4)        |
| Asian   | 373 (18.6)      |
| Native American                               | 210 (10.5)      |
| Other   | 152 (7.6)       |
| Duration of Type 2 diabetes, months           |                 |
| Median (IQR)                                  | 3.4 (0.9, 10.3) |
| HbA <sub>1c</sub> , mmol/mol (%)              | 52±3 (6.9±0.3)  |
| FPG, mmol/l                                   | 7.5±1.5         |
| Fasting insulin, median (IQR) (mU/L)          | 109 (75–160)    |
| HOMA-%β, median (IQR) (%)                     | 84 (60, 116)    |
| HOMA-%sensitivity, median (IQR) (%)           | 46 (31, 68)     |
| BMI, kg/m <sup>2</sup>                        | 31.1±4.7        |
| Pulse rate, bpm                               | 72.8±9.3        |
| Systolic BP, mmHg                             | 132.3±14.4      |
| Diastolic BP, mmHg                            | 80.6±8.6        |
| HDL cholesterol, mmol/l                       | 1.3±0.3         |
| LDL cholesterol, mmol/l                       | 2.9±0.9         |
| Triglycerides, mmol/l                         | 1.9±1.0         |
| UALCR, mg/mmol                                |                 |
| Median (Min–Max)                              | 1.0 (0.1–262.3) |
| GFR (MDRD), mL/min/1.73m <sup>2</sup>         | 87.4±18.5       |
| History of diabetes and complications*, n (%) |                 |
| Proliferative retinopathy                     | 1 (0.0)         |
| Non-proliferative retinopathy                 | 11 (0.5)        |
| Nephropathy                                   | 26 (1.3)        |
| Neuropathy                                    | 116 (5.8)       |
| Foot ulcers                                   | 5 (0.2)         |
| Metformin daily dose, mg                      | 1597.3±396.5    |
| Most common metformin dose; 2000 mg, n (%)    | 796 (39.8)      |

\*Retinopathy and neuropathy were assessed according to the local protocols. BMI, body mass index; BP, blood pressure; FPG, fasting plasma glucose; GFR, glomerular filtration rate; HbA<sub>1c</sub>, glycated haemoglobin; HDL, high-density lipoprotein; HOMA-%β, homeostatic model assessment-%β; HOMA-%sensitivity, homeostatic model assessment-%sensitivity; IQR, interquartile range; LDL, low-density lipoprotein; MDRD, modification of diet in renal disease; SOC, system organ class; UALCR, urinary micro albumin/creatinine ratio; ± indicates standard deviation (SD).

populations having a higher range of baseline HbA<sub>1c</sub>. By contrast, the VERIFY trial will assess the durability of glycaemic response in individuals recruited at, or close to,

**Table 2** 2-hour meal-test data by variables and geographical distribution

| Variable                                 | Europe           | Latin America    | Asia*             | South Africa   |
|--|------------------|------------------|-------------------|----------------|
| Distribution, n (%)                      | 267 (57.8)       | 152 (32.9)       | 32 (6.9)          | 11 (2.4)       |
| Plasma glucose (mmol/l) Median (Min–Max) | 9.3 (4.0–16.5)   | 7.9 (4.2–24.0)   | 10.4 (6.4–15.1)   | 9.8 (5.6–17.1) |
| Insulin (pmol/l) Median (Min–Max)        | 58.9 (3.5–286.6) | 55.7 (7.6–404.5) | 97.8 (20.7–435.6) | –              |
| C-peptide (nmol/l) Median (Min–Max)      | 1.9 (0.4–5.7)    | 1.8 (0.3–4.8)    | 2.1 (0.5–5.0)     | –              |

\*values for Asia exclude India.

diagnosis and with near-normal HbA<sub>1c</sub>. The data show a 16.5% median decrease in β-cell function but marked reduction in insulin sensitivity to 46%. Insulin resistance is the reciprocal of the sensitivity, so those recruited have an insulin resistance that is double that found in people without diabetes.

Data obtained from the meal-test substudy are reflective of regional variations observed in plasma glucose, C-peptide, and insulin concentrations, which may prove important in the subgroup analysis of β-cell failure. Previously published data [18,19] demonstrated variations in postprandial glucose response, fasting insulin, and C-peptide concentrations between various ethnic groups. Such regional differences in the inter-relationships of early signs of increased insulin resistance (reduced sensitivity) and reduced β-cell function would be important to both document and interpret for optimized clinical decision making.

Long-term clinical trials normally pose a big challenge with low study participant retention. Evaluating the durability of treatment prospectively necessitates retention throughout the duration of the study. The VERIFY trial has an active retention programme, tailored to the needs of individuals, but over time the study is also carrying out innovative, relational real-time data monitoring to improve the retention rates.

The presence of baseline microvascular complications, including proliferative and non-proliferative retinopathy, nephropathy, neuropathy, and foot ulcer conditions, demonstrates the asymptomatic nature of Type 2 diabetes and early onset of foundation for its complications, emphasizing the importance of early treatment interventions to prevent or slow down the disease progression prior to advent of further diabetic complications.

The major strength of the VERIFY trial is the selection of a geographically distributed diverse, multi-ethnic population and long-term duration of 5 years for all the participants, ensuring the generalizability of the trial results and providing guidance in clinical decision making for the increasing number of people with newly diagnosed Type 2 diabetes. The enrolled participants display a classic profile of presence of early insulin resistance associated with elevated BMI as a surrogate for obesity. The study anticipates the generation of unique evidence for many geographical areas with limited or no prior epidemiological or other data on β-cell function, insulin resistance, early complications of diabetes, and effect on health status upon treatment with a DPP-4 inhibitor-metformin combination. The study is currently underway and will report in 2019.

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## Competing interests

D.R.M. has served on advisory boards or as a consultant for Novo Nordisk, GlaxoSmithKline, Novartis, Eli Lilly, Sanofi-Aventis, Janssen and Servier; receives current research support from Janssen; and has given lectures for Novo Nordisk, Servier, Sanofi-Aventis, Eli Lilly, Novartis, Janssen and Aché Laboratories. P.M.P. and P.P. are employed by and own stocks in Novartis. J.E.F. was an employee of Novartis Pharmaceuticals Corporation at the time of manuscript development. M.S. received speaker's honoraria and consulting fees from Novartis, Novo Nordisk, AstraZeneca, Aegerion, Eli Lilly and Company, Boehringer Ingelheim. S.D.P. serves or has served on advisory boards for AstraZeneca, Boehringer Ingelheim, Eli Lilly and Company, GlaxoSmithKline, Hanmi Pharmaceuticals, Intarcia, Janssen Pharmaceuticals, Merck Sharp & Dohme Ltd, Novartis, Novo Nordisk, Sanofi, Servier and Takeda; serves or has served on the speakers' bureau for AstraZeneca, Boehringer Ingelheim, Eli Lilly and Company, Janssen Pharmaceuticals, Merck Sharp & Dohme Ltd, Novartis, Novo Nordisk, Sanofi and Takeda; and has received research support from Boehringer Ingelheim, Merck Sharp & Dohme Ltd and Novartis.

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## Appendix

Table A1 Trial investigators and sites

| Site number | Principal investigator       | Institution  |
|-------------|------------------------------|--|
| 1           | Silvia Gorban de Lapertosa   | Centro Universitario de Investigaciones en Farmacologia Clin, Corrientes, Argentina        |
| 2           | Diego Aizemberg              | Centro Medico Viamonte, Buenos Aires, Argentina  |
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| 4           | Silvia Orio                  | IMOB, CABA, Capital Federal, Argentina   |
| 5           | Federico Perez Manghi        | CINME, CABA, Buenos Aires, Argentina   |
| 6           | Laura Maffei                 | Consultorios Medicos (Investigacion Clinica Aplicada SRL), CABA, Buenos Aires, Argentina   |
| 7           | Jorge Aiub                   | Grupo Medico Alem, San Isidro, Buenos Aires, Argentina                                     |
| 8           | Paula Kavalieros             | Woy Woy General Practice, Woy Woy, NSW, Australia  |
| 9           | Hans Blom                    | Vale Medical Practice, Brookvale, NSW, Australia   |
| 10          | Adrian Kenny                 | Morayfield Medical Centre, Morayfield, QLD, Australia                                      |
| 11          | Rudolf Prager                | Krankenhaus der Stadt Wien Hietzing-Lainz, Wien, Austria                                   |
| 12          | Alexandra Kautzky-Willer     | Univ. Klinik fuer Innere Medizin III, AKH Wien, Wien, Austria                              |
| 13          | Maria Zanella                | Universidade Federal de Sao Paulo, Sao Paulo, SP, Brazil                                   |
| 14          | Carolina Chrisman            | Núcleo de Medicina Integrada, Mogi das Cruzes, Brazil                                      |
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| 16          | Joao Felicio                 | Hospital Universitário João de Barros Barreto, Belem, PA, Brazil                           |
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| 20          | Miguel Nasser Hissa          | Centro de Pesquisas em Diabetes e Doenças Endócrino-Metaból, Fortaleza, CE, Brazil         |
| 21          | Sergio Cunha Vencio          | Instituto de Ciências Farmacêuticas, Goiania, GO, Brazil                                   |
| 22          | Edgard Niclewicz             | Hospital Nossa Senhora das Graças, Curitiba, PR, Brazil                                    |
| 23          | Joao Salles                  | Irmandade da Santa Casa de Misericórdia de Sao Paulo, Sao Paulo, SP, Brazil                |
| 24          | Rosa Santos                  | Hospital das Clinicas da Faculdade de Medicina da USP, Sao Paulo, SP, Brazil               |
| 25          | Galina Dakovska              | USHATE”Akad. Ivan Penchev”, Sofia, Bulgaria  |
| 26          | Ivona Daskalova              | MMA-MHAT- Sofia, Sofia, Bulgaria   |
| 27          | Zdravko Kamenov              | UMHAT Alexandrovska, Sofia, Bulgaria   |
| 28          | Stefka Vladeva               | UMHAT Kaspela, Plovdiv, Bulgaria   |
| 29          | Nataliya Temelkova           | Alexandrovska University Hospital, Dermatology & Venerology, Sofia, Bulgaria               |
| 30          | Natalia Veleva               | DCC XII, Sofia, Bulgaria   |
| 31          | Maria Lucheva                | MHAT D-r Hristo Stambolski EOOD, Kazanlak, Bulgaria  |
| 32          | Emilia Apostolova            | MHAT Bratan Shukerov, Smolian, Bulgaria  |
| 33          | Dotska Minkova               | MHAT Razgrad, Razgrad, Bulgaria  |
| 34          | Rositsa Shumkova             | MHAT Dr. Tota Venkova AD, Cardiology Department, Gabrovo, Bulgaria                         |
| 35          | Tsvetodara Kuneva            | DCC 1 Russe EOOD, Ruse, Bulgaria   |
| 36          | Jaime Ibarra                 | Centro de Diabetes Cardiovascular del Caribe, Barranquilla, Colombia                       |
| 37          | Hernan Yupanqui              | DEXADIAB, Bogotá, Colombia   |
| 38          | Arturo Orduz                 | Fundacion Hospital Infantil Universitario de San Jose, Bogota, Cundinamarca, Colombia      |
| 39          | Fernando Manzur              | Centro de Diagnostico Cardiológico, Cartagena, Bolivar, Colombia                           |
| 40          | Jose Luis Accini Mendoza     | IPS Centro Científico Asistencial, Barranquilla, Colombia                                  |
| 41          | Jan Gerle                    | Medica JM S.R.O., Praha, Czech Republic  |
| 42          | Tomas Spousta                | Diabetologicka ambulance Ostrava, Ostrava, Czech Republic                                  |
| 43          | Jan Vorisek                  | Diabetologicka ambulance MUDr. Jan Vrkoc S.R.O., Moravska Ostrava, Czech Republic          |
| 44          | Sarka Kopecka                | DIACENTRUM Brandys n.L. s.r.o, Brandys Nad Labem, Brandys Nad Labem                        |
| 45          | Katarina Halciakova          | Diabetologicka ambulance, Prague 5, Czech Republic   |
| 46          | Miloslava Komrskova          | Diabetologicka, interni ambulance, Pisek, Czech Republic                                   |
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| 49          | Juan Vargas                  | Hospiten Santo Domingo, Santo Domingo, Republica Dominicana                                |
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| 51          | Mirjam Turkson               | Pirita Family Doctor’s Centre, Tallinn, Estonia  |
| 52          | Kristi Otsmaa                | OU Kodudoktori PAK Sinu Arst, Tallinn, Estonia   |
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| 57          | Jyrki Makela                 | Mehilainen Lahti, Lahti, Finland   |
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| 59          | Anneli Hametvaara            | Terveystalo Tampere, Tampere, Finland  |
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Table A1 (Continued)

| Site number | Principal investigator              | Institution   |
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| 70          | Thorsten Rau                        | Praxis Dr. Rau, Essen, Germany  |
| 71          | Joachim Sauter                      | Praxis Dr. Sauter, Wangen, Germany  |
| 72          | Alexander Segner                    | Praxis Dr. Segner, St. Ingbert – Oberwuerzbach, Germany                               |
| 73          | Joerg Simon                         | Praxis Dr. med. Joerg Simon, Fulda, Germany   |
| 74          | Marc Haeffner                       | Praxis Dr. Haeffner / Steinmaier, Viernheim, Germany                                  |
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| 76          | Martin Grundner                     | Praxis Dr. Grundner / Dr. Hintze, Hainstadt, Hainburg, Germany                        |
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| 104         | Anil Bhansali                       | Post Graduate Institute of Medical Education & Research, Chandigarh, India            |
| 105         | C. S. Yajnik                        | KEM Hospital, Pune, Maharashtra, India  |
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| 107         | Arun Chankramath Somasekharan       | Amritha Institute of Medical Sciences (AIMS), Kochi, Kerala, India                    |
| 108         | Satish Agarwal                      | Indraprastha Apollo Hospital, New Delhi, India  |
| 109         | Ganapathi Bantwal                   | St. John's National Academy of Health Sciences, Bangalore, Karnataka, India           |
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| 113         | Taiba Zornitzky                     | Kaplan Medical Center, Rehovot, Israel  |
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| Site number | Principal investigator                  | Institution  |
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| 156         | Guadalupe Morales                       | Centro de Diabetes Durango, Durango, Mexico  |
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| 158         | Jorge Aldrete                           | Paracelsus, S.A. de C.V., México, Distrito Federal   |
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| 164         | Asad Uzzaman                            | Fet Legesenter AS, Fetsund, Norway   |
| 165         | Lars-Erik Fikke                         | Enebakk legesenter, Enebakk, Norway  |
| 166         | Rolf Johansen                           | Spikkestadlegene, Spikkestad, Norway   |
| 167         | Marilyn Donato                          | CEDITER, Panama City, Panamá   |
| 168         | Pablo Fletcher                          | Private Clinic Dr. Pablo Fletcher, Panama City, Panamá   |
| 169         | Giselle Rodriguez                       | PAMRI Panama City, Panamá  |
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| 173         | Miguel Pinto                            | Hospital Nacional Cayetano Heredia, San Martin de Porres, Lima, Peru                               |
| 174         | Luis More                               | Consultorio de Endocrinologia, San Isidro, Lima, Peru  |
| 175         | Luis Camacho                            | Clinica Peruano Americana, Trujillo, La Libertad, Peru   |
| 176         | Luis Zapata                             | Casa de Diabetes & Nutricion, Magdalena, Lima, Peru  |
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| 180         | Tomas Lazatin, Jr                       | Quirino Memorial Medical Center, Quezon City, Metro Manila, Philippines                            |
| 181         | Roberto Mirasol                         | Rizal Medical Center, Pasig City, Philippines  |
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| 191         | Mihaela Voitec                          | Ambulatory of Institute of Nutrition Diseases and Diabetes, Bucharest, Romania                     |
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Table A1 (Continued)

| Site number | Principal investigator       | Institution   |
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| 197         | Valeria Esip                 | Consultation and Diagnostic Centre #85, St-Petersburg, Russia                   |
| 198         | Sergey Martsevich            | State Research Centre for Preventive Medicine, Moscow, Russia                   |
| 199         | Galina Reshedko              | Smolensk State Medical Academy of Roszdrav, Smolensk, Russia                    |
| 200         | Ruslan Sardinov              | Institute of Experimental Medicine, St- Petersburg, Russia                      |
| 201         | Sergey Shustov               | Military Medical Academy n.a.S.M Kirov, St-Petersburg, Russia                   |
| 202         | Yury Shvarts                 | Saratov State Medical University of Roszdrav, Saratov, Russia                   |
| 203         | Natalia Vezikova             | Baranovs Republican Hospital, Petrozavodsk, Russia                              |
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| 220         | Jozef Strba                  | Endiant S.R.O., Sereď, Slovakia   |
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