### Supplementary Table 1: Characteristics of individual patients in responder group

| Participant number | 1  | 2  | 3  | 4  | 5  | 6  |
|--------------------|----|----|----|----|----|----|
| **Age**            | 31 | 42 | 34 | 42 | 46 | 35 |
| **Gender**         | Male | Female | Male | Male | Female | Male |
| **Duration of diabetes (years)** | 0.5 | 2 | 1 | 5 | 0.5 | 5 |
| **Medication number of OADs** | Before | 0 | 2 | 2 | 3 | 0 | 1 |
| **Insulin dose**   | After | 0 | 0 | 0 | 0 | 0 | 0 |
| **Two generation family history of diabetes** | Yes | Yes | Yes | Yes | Yes | Yes |
| **Weight**         | Before | 71 | 92 | 93 | 81 | 79.9 | 85 |
| **BMI**            | After | 65.1 | 80 | 82 | 73 | 70.4 | 80 |
| **Waist circumference** | Before | 26.8 | 36.5 | 32.2 | 30.5 | 31.6 | 29.5 |
| **SBP**            | After | 23.9 | 31.2 | 28.4 | 27.1 | 27.9 | 27.2 |
| **DBP**            | Before | 150 | 150 | 120 | 130 | 120 | 166 |
| **HbA1c**          | After | 120 | 140 | 110 | 120 | 110 | 120 |
| **Blood sugar, fasting** | Before | 100 | 100 | 70 | 80 | 70 | 110 |
| **Blood sugar, postprandial** | After | 70 | 90 | 70 | 80 | 70 | 70 |
| **Serum insulin fasting** | Before | 9.9 | 7.1 | 11.2 | 7 | 8.2 | 10.1 |
| **Serum C-peptide fasting** | After | 6 | 6.1 | 6.2 | 6.2 | 6.3 | 6.4 |
| **HOMA-IR**        | Before | 2.75 | 2.27 | 2.16 | 1.68 | 3.26 | 3.15 |
| **Insulin sensitivity index (QUICKI)** | After | 1.77 | 2.08 | 1.9 | 1.7 | 2.53 | 1.86 |
| **HOMA-beta**      | Before | 1.41 | 1.62 | 1.52 | 1.3 | 1.93 | 1.47 |
| **Serum C-peptide fasting** | After | 0.28 | 0.34 | 0.27 | 0.32 | 0.29 | 0.28 |
| **HOMA-beta**      | Before | 0.33 | 0.33 | 0.3 | 0.36 | 0.32 | 0.34 |
| **Serum C-peptide fasting** | After | 37.7 | 119.5 | 43.2 | 54.9 | 71.3 | 30.2 |

*Contd...*
| Participant number | 1     | 2     | 3     | 4     | 5     | 6     |
|---------------------|-------|-------|-------|-------|-------|-------|
| Sertraline (mg)     | 100   | 150   | 200   | 250   | 300   | 350   |
| Asparaginase (U)    | 100   | 150   | 200   | 250   | 300   | 350   |
| Neutropenia (%)     | 10    | 20    | 30    | 40    | 50    | 60    |
| Neutrophil count (K/µL) | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 |
| Eosinophil count (K/µL)   | 50   | 100  | 150  | 200  | 250  | 300  |
| Basophil count (K/µL)  | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 |
| Platelet count (K/µL)  | 200000| 250000| 300000| 350000| 400000| 450000|
| Hematocrit (%)       | 30    | 35    | 40    | 45    | 50    | 55    |
| Hemoglobin (g/dL)    | 13    | 14    | 15    | 16    | 17    | 18    |
| Serum triglyceride (mg/dL) | 150  | 200  | 250  | 300  | 350  | 400  |
| LDL cholesterol (mg/dL) | 100  | 150  | 200  | 250  | 300  | 350  |
| Serum HDL cholesterol (mg/dL) | 40   | 50   | 60   | 70   | 80   | 90   |
| Serum cholesterol (mg/dL) | 100  | 150  | 200  | 250  | 300  | 350  |
| Serum VLDL cholesterol (mg/dL) | 50   | 100  | 150  | 200  | 250  | 300  |
| C-reactive protein (mg/dL) | 0.2  | 0.5  | 1.0  | 1.5  | 2.0  | 2.5  |
| Microalbumin (mg/dL)  | 0.1  | 0.3  | 0.5  | 0.7  | 1.0  | 1.2  |
| Hemoglobin (g/dL)    | 13    | 14    | 15    | 16    | 17    | 18    |
| Hematocrit (%)       | 30    | 35    | 40    | 45    | 50    | 55    |
| Serum creatinine (mg/dL) | 1.0  | 1.5  | 2.0  | 2.5  | 3.0  | 3.5  |
| eGFR (mL/min/1.73m²) | 60    | 70    | 80    | 90    | 100   | 110   |
| Serum uric acid (mg/dL) | 3    | 4    | 5    | 6    | 7    | 8    |
| Serum calcium (mg/dL) | 9    | 10    | 11    | 12    | 13    | 14    |
| Serum aspartate aminotransferase (U/L) | 30  | 40  | 50  | 60  | 70  | 80  |
| Serum alanine aminotransferase (U/L) | 15  | 20  | 25  | 30  | 35  | 40  |
| Serum albumin (g/dL) | 5    | 6    | 7    | 8    | 9    | 10   |
| Serum globulin (g/dL) | 2    | 3    | 4    | 5    | 6    | 7    |

Contd...
### Supplementary Table 1: Contd...

| Participant number | 1   | 2   | 3   | 4   | 5   | 6   |
|--------------------|-----|-----|-----|-----|-----|-----|
| Serum protein, total |     |     |     |     |     |     |
| Before             | 7.34| 6.61| 6.92| 6.89| 7.3 | 7.51|
| After              | 7.55| 7.56| 6.8 | 6.8 | 7.46| 7.1 |
| Serum sodium       |     |     |     |     |     |     |
| Before             | 139 | 138 | 139 | 141 | 139 | 138 |
| After              | 142 | 139 | 140 | 141 | 138 | 141 |
| Serum potassium    |     |     |     |     |     |     |
| Before             | 5.1 | 3.9 | 4.8 | 4.5 | 4.6 | 4.5 |
| After              | 4.7 | 5   | 5.6 | 4.3 | 4.8 | 5.2 |
| Fatty liver on USG abdomen | Grade II–III | Grade II–III | Grade II–III | Grade II–III | Grade I | Not done |
| Before             | Normal | Grade I | Normal | Normal | Normal | Not done |
| After              | Normal | Grade I | Normal | Normal | Grade I | Not done |

BMI: Body mass index, SBP: Systolic blood pressure, DBP: Diastolic blood pressure, USG: Ultrasonography, eGFR: Epidermal growth factor receptor, LDL: Low-density lipoprotein, HDL: High-density lipoprotein, VLDL: Very low-density lipoprotein, HOMA-IR: Homeostasis model assessment insulin resistance, BMI: Body mass index, HbA1c: Glycosylated hemoglobin, QUICKI: Quantitative insulin sensitivity check index, OADs: Oral antidiabetic drugs