**SUPPLEMENTAL MATERIAL:**

**Appendix A:** Anatomical Therapeutic Chemical (ATC) codes used to identify classes of Glucose Lowering Drugs (GLD).

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| **Class of Glucose-Lowering Drug** | **Anatomical Therapeutic Chemical codes used** |
| Rapid-acting Insulin | A10AB |
| Intermediate-acting Insulin | A10AC |
| Mixed Insulin | A10AD |
| Slow-acting Insulin | A10AE |
| Metformin | A10BA |
| Sulfonylureas | A10BB |
| Fixed-Dose Combinations (FDC) | A10BD |
| Acarbose | A10BF |
| Thiazolidinediones | A10BG |
| Dipeptidyl Peptidase-4 Inhibitors (DPP-4Is) | A10BH |
| Glucagon-Like Peptide-1 Agonists (GLP-1As) | A10BJ |
| Sodium-Glucose Cotransporter-2 Inhibitors (SGLT-2Is) | A10BK, A10BX |

**Appendix B:** International Classification of Diseases 10 codes used to identify comorbidities

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| **Comorbidity** | **International Classification of Diseases 10 codes used** |
| **Dementia** | F00-F03, F05.1, G30, G31.1, U79.1 |
| **Hypoglycemia** | E10.64, E11.64, E13.64, E14.64, E16.0-E16.2, T38.5 |
| **Chronic heart failure** | I50 |
| **Myocardial infarction** | I21-I22, I25.2 |
| **Renal disease** | N01, N03, N052-N056, N072-N074, N18, N19, N25 |
| **Transient ischemic attack or stroke** | G45.0-G45.2, G45.4, G45.8, G45.9, G46, I60-I66, I67.0-I67.2, I67.4-I67.9, I68.1, I68.2, I68.8, I69 |

**Appendix C:** Numbers and types of Glucose-Lowering Drugs (GLDs) prescribed

Figure 1a) Number of insulin products prescribed for patients in the insulin-only group (n=570)

Figure 1b) Type of insulin prescribed for patients in insulin-only group (n=570)

Figure 1c) Number of non-insulin antihyperglycemic agents prescribed for patients in the non-insulin group (n=1,188)

Figure 1d) Type of antihyperglycemic agents prescribed for patients in the non-insulin group (n=1,188)

Figure 1e) Number of insulin products prescribed for patients in the combination group (n=601)

Figure 1f) Types of insulin products prescribed for patients in the combination group (n=601)

Figure 1g) Number of non-insulin antihyperglycemic agents prescribed for people in the combination group (n=601)

Figure 1h) Types of non-insulin antihyperglycemic agents prescribed for patients in the combination group (n=601)

GLD Glucose Lowering Drug; DPP-4I Dipeptidyl-Peptidase-IV Inhibitor; GLP-1A Glucagon Like Peptide-1 Agonist; SGLT-2I Sodium Glucose Cotransporter-2 Inhibitor