Supplementary Table 1. Univariate Analysis and Multivariate Analysis

|	Univariate Analysis		Multivariate Analysis		
	Pearson correlation	p-value	Pearson correlation	t-value	p-value
Age	−0.11	0.042			
Comorbidity number	−0.16	0.007*	−0.01	0.15	0.885
APACHE-IV Score	−0.51	0.000*	−0.21	−3.27	0.001**
SOFA score	−0.85	0.000*	−0.49	−6.77	0.000**
Hypoglycemic Episode	−0.83	0.000*	−0.33	−2.75	0.000**
MAGE	−0.87	0.000*	−0.31	−3.17	0.000**
GluCV Percentage	−0.88	0.000*	−0.26	−3.27	0.001**

*p-value < 0.20 correlation using Pearson correlation test; ** p-value < 0.05 with linear regression test
APACHE-IV — Acute Physiology and Chronic Health Evaluation-IV; GluCV — glucose coefficient of variation; ICU — intensive care unit; MAGE — mean amplitude glucose excursion; SOFA — Sequential Organ Failure Assessment
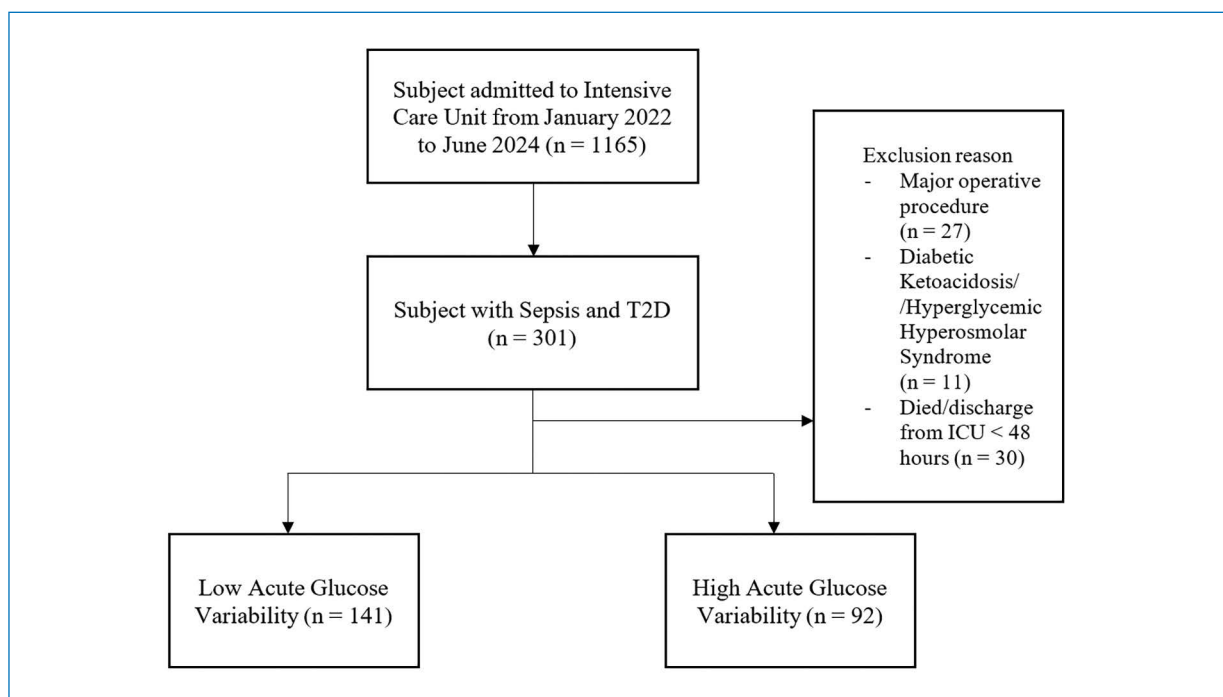
Supplementary Figure 1. Flowchart of Individual Enrolment
T2D — type 2 diabetes
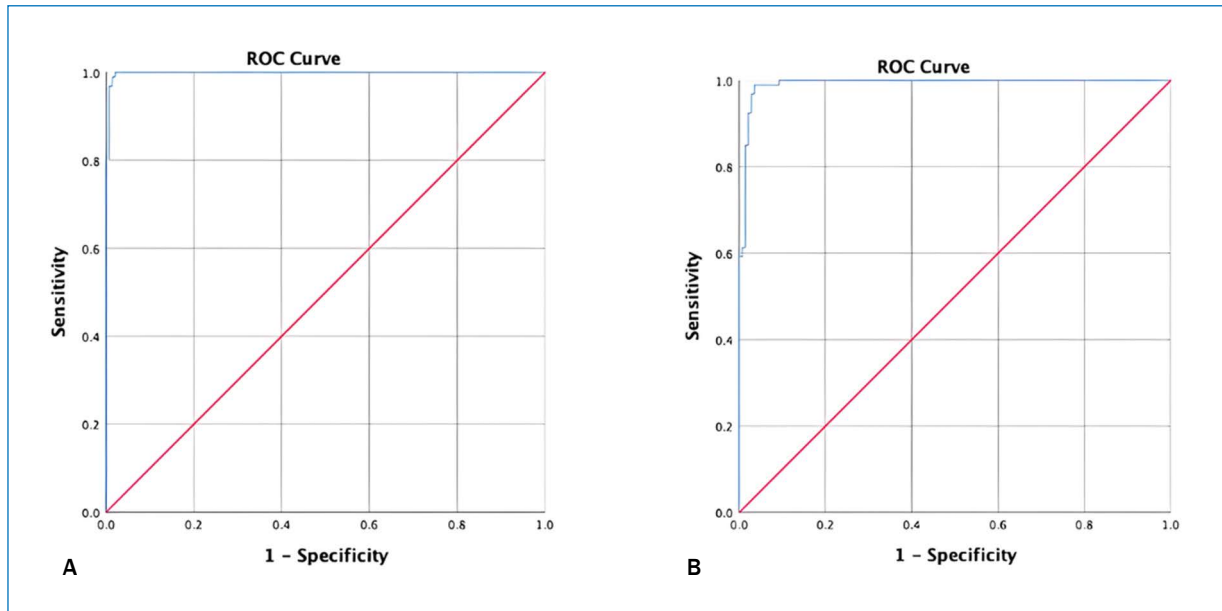
Supplementary Figure 2. Area Under Curve

Area under the curve for **A.** MAGE to predict 30-day mortality was 0.998 (0.995–1.000), p = 0.000; and **B.** 0.992 (0.983–1.000), p = 0.000 for GluCV

GluCV — glucose coefficient of variation; MAGE — mean amplitude glucose excursion