

SUPPLEMENTARY DATA

**Supplementary Table 1.** Diagnostic Codes for comorbidities.

Comorbidity	Specific disease or treatment	ICD-9 CM Codes	CPT Codes
<b>Acute metabolic event</b>	Severe hyperglycemic event requiring hospitalization	250.1x, 250.2x, 249.2x	
	Severe hypoglycemic event requiring hospitalization	251.0, 251.1, 251.2	
<b>Microvascular disease</b>	Diabetic retinal disease	250.5x, 362.02, 362.53, 362.83	67208, 67210, 67228
	End-stage renal disease	Ascertained by matching with the U.S. Renal Data System Registry	
	Lower-extremity complications: Gangrene or lower limb ulcer that required hospitalization Lower extremity amputation	040.0, 250.7x, 440.23, 440.24, 707.1x, 785.4, 892.1 84.10-84.17	27290, 27295, 27598-27882, 27884, 27886, 27888-28800, 28805, 28810, 28820, 28825
<b>Macrovascular disease</b>	Peripheral arterial disease	440.xx (without 440.23 440.24), 441.xx, 442.0, 442.3, 443.81 (if underlying disease is diabetes mellitus), 443.9	
	Myocardial infarction	410.xx, 412	
	Congestive heart failure	401.91, 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.93, 425.1x, 428.0, 428.1, 428.9	
	Cerebrovascular disease	431, 433.xx, 434.xx, 436, 442.81, 442.82	
<b>Hypertension</b>		401.x-405.x	

All comorbidities were defined between 1/1/1996-12/31/1997.