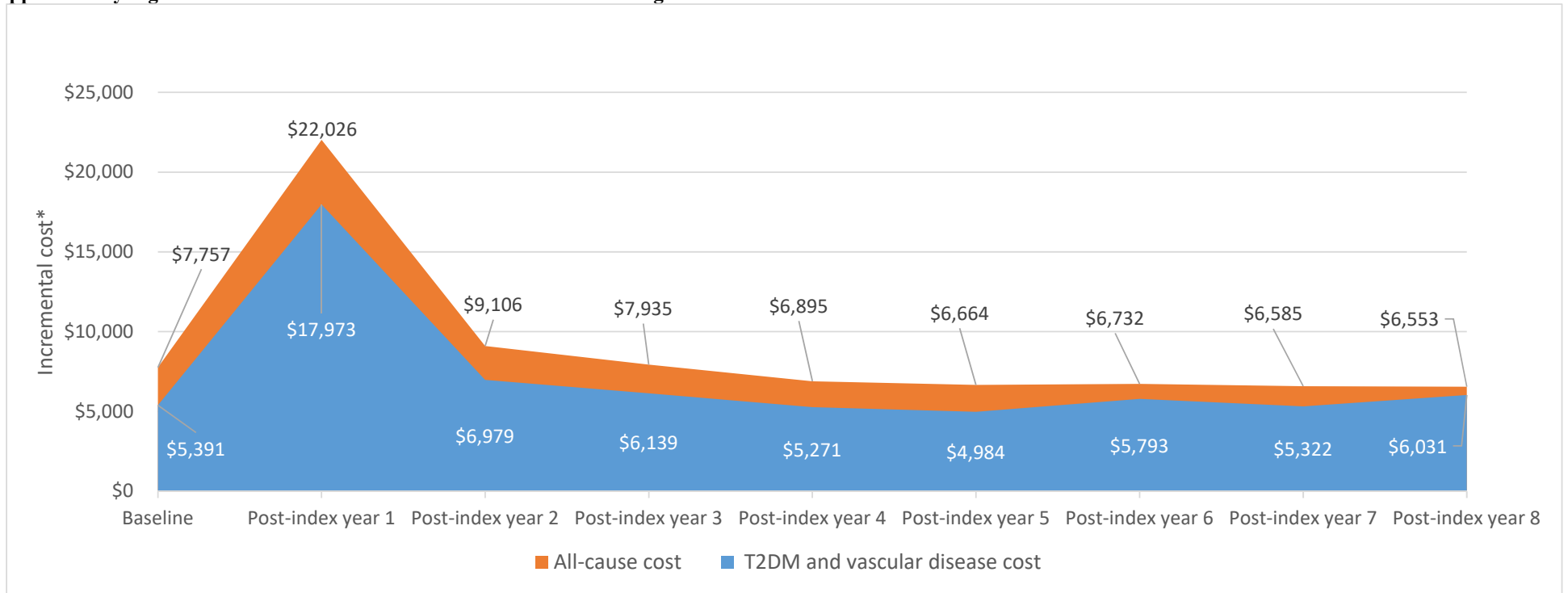


**Supplementary Figure 1. Annual mean incremental healthcare costs among all incident T2DM individuals with vascular disease and matched non-DM controls**



Abbreviations: T2DM: type 2 diabetes mellitus

\* Incremental costs defined as difference in mean annual cost between individuals with incident T2DM with vascular disease and matched non-DM controls. Mean annualized costs weighted by number of days individuals were alive during each measurement period. All costs adjusted to 2015 US dollars using medical care component of the Bureau of Labor Statistics Consumer Price Index.

**Supplementary Table 1. Diagnosis codes used to identify microvascular and macrovascular diseases and other clinical conditions of interest**

	ICD-9-CM Codes	ICD-10-CM Codes
<b>Microvascular and Macrovascular Diseases</b>		
<b>Neuropathy</b>		
Diabetic neuropathy	356.9x, 250.6x	E08.4%, E10.4%, E11.4%, E13.4%
Amyotrophy (nondiabetic)	358.1x	G12.21%, G54.5%
Cranial nerve palsy (including	951.0x, 951.1x, 951.3x	G51.0%, G52.%, H49.0%, H49.1%,
Mononeuropathy	354.0x-355.9x	G56.%, G57.%, G58.%, G59.0%
Charcot's arthropathy	713.5x	M14.6%
Polyneuropathy	357.2x	G61.%, G62.%, G63.%, G60.3%
Neurogenic bladder	596.54	N31.9%
Autonomic neuropathy	337.0x, 337.1x	G90.0%, G90.8%, G90.9%
Gastroparesis (including	564.5x, 536.3x	K31.84%, E08.43%, E10.43%,
Orthostatic hypotension	458.0x	I95.1%, I95.2%, G90.3%
<b>Nephropathy</b>		
Diabetic nephropathy	250.4x	E08.2%, E10.2%, E11.2%, E13.2%
Acute glomerulonephritis	580.xx	N00.%
Nephrotic syndrome	581.xx	N04.%
Hypertension, nephrosis	581.81	I12.%, I13.%
Chronic glomerulonephritis	582.xx	N03.%
Unspecified	583.xx	N05.%
Chronic renal failure (disease)	585.xx	N18.%
Renal failure NOS	586.xx	N19.%
Renal insufficiency	593.9x	N28.9%, N18.9%
<b>Retinopathy</b>		
Diabetic ophthalmologic disease	250.5x	E08.3%, E10.3%, E11.3%, E13.3%
Background retinopathy	362.01	H35.0%
Other non-diabetic proliferative	362.1x	H35.2%, H35.4%, H35.7%, H35.8%
Retinal edema	362.83	H35.81%
CSME	362.53	H35.351, H35.352, H35.353, H35.359
Other retinal disorders	362.81, 362.82	H35.9%
Proliferative diabetic retinopathy	362.02	H35.2%, E08.35%, E10.35%, E11.35%,
Retinal detachment	361.xx	H33.0%, H33.2%
Blindness	369.xx	H54.0%, H54.1%, H54.4%, H54.8%
Vitreous hemorrhage	379.23	H43.1%
<b>Cardiovascular</b>		
Atherosclerosis	440.xx	I70.%
Other IHD	411.xx	I24.%,
Angina pectoris	413.xx	I20.%
Other chronic IHD	414.xx	I25.1%, I25.5%, I25.6%, I25.7%,
Myocardial infarction (acute)	410.xx	I21.%, I22.%, I23.%
Ventricular fibrillation	427.1x, 427.3x	I49.0%
Atrial fibrillation	427.4x, 427.5x	I48.%

	ICD-9-CM Codes	ICD-10-CM Codes
Other ASCVD	429.2x	-
Old myocardial infarction	412.xx	I25.2%
Heart failure	428.xx	I50.%
Atherosclerosis, severe	440.23, 440.24	-
Aortic aneurysm/dissection	441.xx	I71.%
<b>Cerebrovascular</b>		
TIA	435.xx	G45.%
Stroke	431.xx, 433.xx, 434.xx,	I63.%
<b>Peripheral vascular disease</b>		
Diabetic PVD	250.7x	E08.5%, E10.5%, E11.5%. E13.%
Other aneurysm, LE	442.3x	I72.4%
Foot wound + complication	892.1x	E08.621, E08.52%, E10.621, E10.52%, E11.621, E11.52%, E13.621, E13.621,
PVD/Claudication, intermittent	443.81, 443.9x, 443.9x	I73.9%
Embolism/thrombosis	444.22	I74.3%
Gangrene	785.4x	I96.%
Gas gangrene	040.xx	A48.0%
Ulcer of lower limbs	707.1x	L97.%
<b>Other Clinical Conditions</b>		
Myocardial infarction	410.xx	I21%
Stroke	431.xx, 433.xx, 434.xx, 436.xx	I63%, I64%, I69%
Depression	296.2x, 296.3x, 300.4x, 311.xx	F32%, F33%, F34.1%
AIDS/HIV	042.xx, 043.xx, 044.xx	B20.%–B22.%, B24.%
Diabetes with other coma	250.3x	E11.0%
Obesity	278.00, 278.01, V85.3x, V85.4x	E66%
Dyslipidaemia	272.xx	E78.0%, E78.1%, E78.2%, E78.3%, E78.4%, E78.5%, E78.6%
Epilepsy	345.xx	G40%
Sleep apnoea	327.2x, 780.51, 780.53, 780.57	G47.3%
Hypertension	401.xx, 402.xx, 403.xx, 404.xx, 405.xx	I10.%, I11.%, I12.%, I13.%, H35.03%, I67.4%
Congestive heart failure	402.01, 402.11, 402.91, 404.01 404.03, 404.11,	I11.0% ,I13.0%,I13.2%, I50%
Renal disease	403.01, 403.11, 403.91, 404.02, 404.03, 404.12, 404.13, 404.92, 404.93, 582.0x – 583.7x, 585.xx, 586.xx, 588.0x, V42.0x, V45.1x, V56.x	I12.0%, I13.1%, N03.2%–N03.7%, N05.2%–N05.7%, N18.%, N19.%, N25.0%, Z49.0%–Z49.2%, Z94.0%, Z99.2%

	<b>ICD-9-CM Codes</b>	<b>ICD-10-CM Codes</b>
Liver disease	456.0x-456.2x, 571.xx - 573.xx	I85%, K70%-K77%
Pneumonia	997.31, 480.xx - 486.xx	J12%-J19%, J95.851
COPD	491.xx, 492.xx, 493.2x,	J41%, J42%, J43%, J44%
Asthma	493.xx	J45%
Peptic ulcer	531.xx-534.xx	K25%, , K26%, K27%, K28%
Connective tissue/rheumatic disease	446.5x, 710.0x – 710.4x, 714.0x – 714.2x, 714.8x, 725.xx	M05.%, M06.%, M31.5%, M32.%– M34.%, M35.1%, M35.3%, M36.0%
Osteoarthritis	715.xx	M15%, M16%, M17%, M18%, M19%
Osteoporosis	733.0x	M81%, M80%, Z87.310
Cancer (primary or metastatic)	140.xx – 172.xx, 174.xx – 195.8x, 200.xx – 208.xx, 238.6x, 196.xx – 199.xx	C00.%–C26.%, C30.%–C34.%, C37.%– C41.%, C43.%, C45.%–C58.%, C60.%– C76.%, C81.%–C85.%, C88.%, C90.%– C97.%, C77.%–C80.%

ICD-9/10-CM: International Classification of Diseases 9<sup>th</sup>/10<sup>th</sup> revision, Clinical Modification; AIDS: Acquired Immune Deficiency Syndrome; ASCVD: atherosclerotic cardiovascular disease; CSME: cystoid macular edema/degeneration; COPD: Chronic Obstructive Pulmonary Disease; IHD: ischemic heart disease; LE: lower extremity; NOS: not otherwise specified; TIA: transient ischemic attack PVD: peripheral vascular disease.