

Long-term risk of cardio- and cerebrovascular disease after removal of the colonic microbiota by colectomy: a cohort study based on the Danish National Patient Register from 1996 through 2014

Supplemental material

Table S1 Specification of control patient groups in terms of Scandinavian NOMESCO procedure codes

Control patient groups		NCSF codes
Orthopedic surgery	N	Musculoskeletal system
Surgeries in the gastrointestinal tract leaving the colon intact	JA	Abdominal wall, mesentery peritoneum, and greater omentum
	JB	Diaphragm and gastro-oesophageal reflux
	JC	Oesophagus
	JH	Anus and perianal tissue
Large surgeries not in the gastrointestinal-tract	BA	Thyroid glands
	BB	Parathyroid glands
	BC	Adrenal glands
	G	Chest wall, pleura, mediastinum, diaphragm, trachea, bronchus and lung
	JM	Spleen
	K	Urinary system, male genital organs and retroperitoneal space
L	Female genital organs	

Reference:

http://nowbase.org/~media/Projekt%20sites/Nowbase/Publikationer/NCSP/NCSP%201_16.a.shx

Table S2 Specification of ICD-10 diagnoses included in the seven CVD domains

Diagnosis group	ICD-10 code	
Hypertensive disorders	I10	Essential (primary) hypertension
	I11	Hypertensive heart disease
	I12	Hypertensive renal disease
	I13	Hypertensive heart and renal disease
Acute ischemic heart diseases	I20	Angina pectoris
	I21	Acute myocardial infarction
	I24	Other acute ischaemic heart diseases
	I46	Cardiac arrest
Chronic ischemic heart disease	I23	Certain current complications following acute myocardial infarction
	I25	Chronic ischaemic heart disease
	I51	Complications and ill-defined descriptions of heart disease
Cardiac arrhythmias	I44	Atrioventricular and left bundle-branch block
	I45	Other conduction disorders
	I47	Paroxysmal tachycardia
	I48	Atrial fibrillation and flutter
	I49	Other cardiac arrhythmias
Heart failure	I50	Heart failure
Cerebrovascular diseases	I61	Intracerebral haemorrhage
	I62	Other nontraumatic intracranial haemorrhage
	I63	Cerebral infarction
	I64	Stroke, not specified as haemorrhage or infarction
	I65	Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction
	I66	Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction
	I67	Other cerebrovascular diseases
	I68	Cerebrovascular disorders in diseases classified elsewhere
	I69	Sequelae of cerebrovascular disease
Other arterial diseases	I35	Nonrheumatic aortic valve disorders
	I70	Atherosclerosis
	I71	Aortic aneurysm and dissection
	I72	Other aneurysm
	I73	Other peripheral vascular diseases
	I74	Arterial embolism and thrombosis

Reference: www.who.int/classifications/icd/ICD10Volume2_en_2010.pdf

Figure S1 Cumulative hazard plots of survival in the 4057 colectomy patients who were above age 45 compared with the matched control patient group. Note that the colectomy group includes the patients removed due to a prior CVD event less than 1000 days of follow-up time (and additional comparison patients for these patients). The plot demonstrates the high mortality in the first 1000 days following colectomy surgery.

