

Supplementary Table S1 Diagnostic codes of diabetes.

Diagnosis in Japanese	Diagnosis in English	ICD-10 code	diagnosis code
1 型糖尿病	Type 1 diabetes mellitus	E10	2500014
不安定型糖尿病	Brittle diabetes	E10	2500027
緩徐進行 1 型糖尿病	SPIDDM - [Slowly progressive insulin-dependent diabetes mellitus]	E10	8844022
1 型糖尿病性昏睡	Type 1 diabetic coma	E100	8830030
1 型糖尿病・昏睡合併あり	Type 1 diabetes mellitus with coma	E100	8841679
緩徐進行 1 型糖尿病・昏睡合併あり	SPIDDM with coma - [Slowly progressive insulin-dependent diabetes mellitus]	E100	8844026
1 型糖尿病性低血糖性昏睡	Hypoglycemia in the context of type 1 diabetes mellitus	E100	8845065
1 型糖尿病性ケトアシドーシス	Diabetic ketoacidosis in type 1 diabetes mellitus	E101	8830028
1 型糖尿病・ケトアシドーシス合併あり	Type 1 diabetes mellitus with ketoacidosis	E101	8841680
緩徐進行 1 型糖尿病・ケトアシドーシス合併あり	SPIDDM with ketoacidosis - [Slowly progressive insulin-dependent diabetes mellitus]	E101	8844025
劇症 1 型糖尿病	Fulminant type 1 diabetes mellitus	E101	8844045
1 型糖尿病性アシドーシス	Diabetic ketoacidosis in type 1 diabetes mellitus	E101	8845044
1 型糖尿病性アセトン血症	Type 1 diabetic acetone hyperlipoproteinemia	E101	8845045
1 型糖尿病性腎症	Type 1 diabetic nephropathy	E102	8830031
1 型糖尿病・腎合併症あり	Type 1 diabetes mellitus with diabetic nephropathy	E102	8841681
1 型糖尿病性腎症第 1 期	Type 1 diabetic nephropathy phase 1	E102	8843983
1 型糖尿病性腎症第 2 期	Type 1 diabetic nephropathy phase 2	E102	8843984
1 型糖尿病性腎症第 3 期	Type 1 diabetic nephropathy phase 3	E102	8843985
1 型糖尿病性腎症第 3 期 A	Type 1 diabetic nephropathy phase 3A	E102	8843986
1 型糖尿病性腎症第 3 期 B	Type 1 diabetic nephropathy phase 3B	E102	8843987
1 型糖尿病性腎症第 4 期	Type 1 diabetic nephropathy phase 4	E102	8843988
1 型糖尿病性腎症第 5 期	Type 1 diabetic nephropathy phase 5	E102	8843989

緩徐進行 1 型糖尿病・腎合併症あり	SPIDDM with nephropathy - [Slowly progressive insulin-dependent diabetes mellitus]	E102	8844028
1 型糖尿病性腎硬化症	Type 1 diabetic nephrosclerosis	E102	8845058
1 型糖尿病性腎不全	Type 1 diabetic kidney failure	E102	8845059
1 型糖尿病性網膜症	Type 1 diabetic retinopathy	E103	8830033
1 型糖尿病・眼合併症あり	Type 1 diabetes mellitus with eye complication	E103	8841682
1 型糖尿病性黄斑浮腫	Type 1 diabetic macular edema	E103	8843982
緩徐進行 1 型糖尿病・眼合併症あり	SPIDDM with eye complication - [Slowly progressive insulin-dependent diabetes mellitus]	E103	8844024
1 型糖尿病性白内障	Type 1 diabetic cataracts	E103	8844346
増殖性糖尿病性網膜症・1 型糖尿病	Proliferative diabetic retinopathy, type 1 diabetes	E103	8844536
1 型糖尿病黄斑症	Type 1 diabetic macular disease	E103	8845043
1 型糖尿病性眼筋麻痺	Type 1 diabetic eye muscle paralysis	E103	8845049
1 型糖尿病性虹彩炎	Type 1 diabetic iritis	E103	8845053
1 型糖尿病性中心性網膜症	Type 1 diabetic central retinopathy	E103	8845064
1 型糖尿病性ニューロパチー	Type 1 diabetic neuropathy	E104	8830032
1 型糖尿病・神経学的合併症あり	Type 1 diabetes mellitus with neurological complications	E104	8841683
緩徐進行 1 型糖尿病・神経学的合併症あり	SPIDDM with neurological complications - [Slowly progressive insulin-dependent diabetes mellitus]	E104	8844027
1 型糖尿病性筋萎縮症	Type 1 diabetic muscular atrophy	E104	8845050
1 型糖尿病性神経因性膀胱	Type 1 diabetic neuropathic bladder	E104	8845055
1 型糖尿病性神経痛	Type 1 diabetic neuralgia	E104	8845056

1 型糖尿病性自律神経ニューロパチー	Type 1 diabetic autonomic neuropathy	E104	8845057
1 型糖尿病性多発ニューロパチー	Type 1 diabetic polyneuropathy	E104	8845062
1 型糖尿病性単ニューロパチー	Type 1 diabetic mononeuropathy	E104	8845063
1 型糖尿病性末梢神経障害	Type 1 diabetic peripheral neuropathy	E104	8845071
1 型糖尿病・末梢循環合併症あり	Type 1 diabetes mellitus with peripheral circulation complications	E105	8841684
1 型糖尿病性壊疽	Type 1 diabetic gangrene	E105	8843105
緩徐進行 1 型糖尿病・末梢循環合併症あり	SPIDDM with peripheral circulation complications - [Slowly progressive insulin-dependent diabetes mellitus]	E105	8844031
1 型糖尿病性潰瘍	Type 1 diabetic ulcer	E105	8845046
1 型糖尿病性血管障害	Type 1 diabetic vascular disease	E105	8845051
1 型糖尿病性動脈硬化症	Type 1 diabetic atherosclerosis	E105	8845066
1 型糖尿病性動脈閉塞症	Type 1 diabetic arterial occlusion	E105	8845067
1 型糖尿病性末梢血管症	Type 1 diabetic peripheral vascular disease	E105	8845069
1 型糖尿病性末梢血管障害	Type 1 diabetic peripheral vascular disease	E105	8845070
1 型糖尿病・関節合併症あり	Type 1 diabetes mellitus with joint complications	E106	8841685
1 型糖尿病・糖尿病性合併症あり	Type 1 diabetes mellitus with diabetic complications	E106	8841686
緩徐進行 1 型糖尿病・関節合併症あり	SPIDDM with joint complications - [Slowly progressive insulin-dependent diabetes mellitus]	E106	8844023
1 型糖尿病性水疱	Type 1 diabetic blister	E106	8844626
1 型糖尿病性浮腫性硬化症	Type 1 diabetic edematous sclerosis	E106	8844627
1 型糖尿病性肝障害	Type 1 diabetic liver injury	E106	8845047

1 型糖尿病性関節症	Type 1 diabetic arthropathy	E106	8845048
1 型糖尿病性高コレステロール血症	Type 1 diabetic hypercholesterolemia	E106	8845052
1 型糖尿病性骨症	Type 1 diabetic osteopathy	E106	8845054
1 型糖尿病性精神障害	Type 1 diabetic mental disorder	E106	8845060
1 型糖尿病性そう痒症	Type 1 diabetic pruritus	E106	8845061
1 型糖尿病性皮膚障害	Type 1 diabetic skin disorder	E106	8845068
1 型糖尿病性胃腸症	Type 1 diabetic gastroenteritis	E106	8845842
1 型糖尿病・多発糖尿病性合併症あり	Type 1 diabetes mellitus with multiple diabetic complications	E107	8841687
緩徐進行 1 型糖尿病・多発糖尿病性合併症あり	SPIDDM with multiple diabetic complications - [Slowly progressive insulin-dependent diabetes mellitus]	E107	8844029
1 型糖尿病・糖尿病性合併症なし	Type 1 diabetes mellitus without diabetic complications	E109	8841688
緩徐進行 1 型糖尿病・糖尿病性合併症なし	SPIDDM without diabetic complications - [Slowly progressive insulin-dependent diabetes mellitus]	E109	8844030
インスリン抵抗性糖尿病	Insulin resistant diabetes mellitus	E11	2500001
2 型糖尿病	Type 2 diabetes mellitus	E11	2500015
安定型糖尿病	Stable diabetes mellitus	E11	8830405
若年 2 型糖尿病	Juvenile type 2 diabetes	E11	8835244
2 型糖尿病性昏睡	Type 2 diabetic coma	E110	8830041
2 型糖尿病・昏睡合併あり	Type 2 diabetes mellitus with coma	E110	8841689

2型糖尿病性低血糖性昏睡	Hypoglycemic coma in the context of type 2 diabetes mellitus	E110	8845094
2型糖尿病性ケトアシドーシス	Type 2 diabetic ketoacidosis	E111	8830040
2型糖尿病・ケトアシドーシス合併あり	Type 2 diabetes mellitus with ketoacidosis	E111	8841690
2型糖尿病性アシドーシス	Type 2 diabetic acidosis	E111	8845073
2型糖尿病性アセトン血症	Type 2 diabetic acetone hyperlipoproteinemia	E111	8845074
2型糖尿病性腎症	Type 2 diabetic nephropathy	E112	8830042
2型糖尿病・腎合併症あり	Type 2 diabetes mellitus with diabetic nephropathy	E112	8841691
2型糖尿病性腎症第1期	Type 2 diabetic nephropathy phase 1	E112	8843991
2型糖尿病性腎症第2期	Type 2 diabetic nephropathy phase 2	E112	8843992
2型糖尿病性腎症第3期	Type 2 diabetic nephropathy phase 3	E112	8843993
2型糖尿病性腎症第3期A	Type 2 diabetic nephropathy phase 3A	E112	8843994
2型糖尿病性腎症第3期B	Type 2 diabetic nephropathy phase 3B	E112	8843995
2型糖尿病性腎症第4期	Type 2 diabetic nephropathy phase 4	E112	8843996
2型糖尿病性腎症第5期	Type 2 diabetic nephropathy phase 5	E112	8843997
2型糖尿病性腎硬化症	Type 2 diabetic nephrosclerosis	E112	8845087
2型糖尿病性腎不全	Type 2 diabetic kidney failure	E112	8845088
2型糖尿病性網膜症	Type 2 diabetic retinopathy	E113	8830045
2型糖尿病・眼合併症あり	Type 2 diabetes mellitus with eye complications	E113	8841692
2型糖尿病性黄斑浮腫	Type 2 diabetic macular edema	E113	8843990
2型糖尿病性白内障	Type 2 diabetic cataracts	E113	8844347
増殖性糖尿病性網膜症・2型糖尿病	Proliferative diabetic retinopathy, type 2 diabetes	E113	8844537

2型糖尿病黄斑症	Type 2 diabetic macular disease	E113	8845072
2型糖尿病性眼筋麻痺	Type 2 diabetic eye muscle paralysis	E113	8845078
2型糖尿病性虹彩炎	Type 2 diabetic iritis	E113	8845082
2型糖尿病性中心性網膜症	Type 2 diabetic central retinopathy	E113	8845093
2型糖尿病性ニューロパチー	Type 2 diabetic neuropathy	E114	8830043
2型糖尿病性ミオパチー	Type 2 diabetic myopathy	E114	8830044
2型糖尿病・神経学的合併症あり	Type 2 diabetes mellitus with neurological complications	E114	8841693
2型糖尿病性筋萎縮症	Type 2 diabetic muscular atrophy	E114	8845079
2型糖尿病性神経因性膀胱	Type 2 diabetic neuropathic bladder	E114	8845084
2型糖尿病性神経痛	Type 2 diabetic neuralgia	E114	8845085
2型糖尿病性自律神経ニューロパチー	Type 2 diabetic autonomic neuropathy	E114	8845086
2型糖尿病性多発ニューロパチー	Type 2 diabetic polyneuropathy	E114	8845091
2型糖尿病性単ニューロパチー	Type 2 diabetic mononeuropathy	E114	8845092
2型糖尿病性末梢神経障害	Type 2 diabetic peripheral neuropathy	E114	8845100
2型糖尿病・末梢循環合併症あり	Type 2 diabetes mellitus with peripheral circulation complications	E115	8841694
2型糖尿病性壊疽	Type 2 diabetic gangrene	E115	8843106
2型糖尿病性潰瘍	Type 2 diabetic ulcer	E115	8845075
2型糖尿病性血管障害	Type 2 diabetic vascular disease	E115	8845080
2型糖尿病性動脈硬化症	Type 2 diabetic atherosclerosis	E115	8845095
2型糖尿病性動脈閉塞症	Type 2 diabetic arterial occlusion	E115	8845096
2型糖尿病性末梢血管症	Type 2 diabetic peripheral vascular disease	E115	8845098

2型糖尿病性末梢血管障害	Type 2 diabetic peripheral vascular disease	E115	8845099
2型糖尿病・関節合併症あり	Type 2 diabetes mellitus with joint complications	E116	8841695
2型糖尿病・糖尿病性合併症あり	Type 2 diabetes mellitus with diabetic complications	E116	8841696
2型糖尿病性水疱	Type 2 diabetic blister	E116	8844628
2型糖尿病性浮腫性硬化症	Type 2 diabetic edematous sclerosis	E116	8844629
2型糖尿病性肝障害	Type 2 diabetic liver injury	E116	8845076
2型糖尿病性関節症	Type 2 diabetic arthropathy	E116	8845077
2型糖尿病性高コレステロール血症	Type 2 diabetic hypercholesterolemia	E116	8845081
2型糖尿病性骨症	Type 2 diabetic osteopathy	E116	8845083
2型糖尿病性精神障害	Type 2 diabetic mental disorder	E116	8845089
2型糖尿病性そう痒症	Type 2 diabetic pruritus	E116	8845090
2型糖尿病性皮膚障害	Type 2 diabetic skin disorder	E116	8845097
2型糖尿病性胃腸症	Type 2 diabetic gastroenteritis	E116	8848108
2型糖尿病・多発糖尿病性合併症あり	Type 2 diabetes mellitus with multiple diabetic complications	E117	8841697
2型糖尿病・糖尿病性合併症なし	Type 2 diabetes mellitus without diabetic complications	E119	8841698
栄養不良関連糖尿病	Malnutrition-related diabetes mellitus	E12	2500037
膵性糖尿病	Pancreatic diabetes mellitus	E13	2500024
ステロイド糖尿病	Steroid diabetes mellitus	E13	2509003
二次性糖尿病	Secondary diabetes mellitus	E13	2509004
ウイルス性糖尿病	Viral diabetes mellitus	E13	8830756
薬剤性糖尿病	Drug-induced diabetes mellitus	E13	8840710

ウイルス性糖尿病・昏睡合併あり	Viral diabetes mellitus with coma	E130	8843122
膵性糖尿病・昏睡合併あり	Pancreatic diabetes mellitus with coma	E130	8843377
ステロイド糖尿病・昏睡合併あり	Steroid diabetes mellitus with coma	E130	8843390
二次性糖尿病・昏睡合併あり	Secondary diabetes mellitus with coma	E130	8843450
薬剤性糖尿病・昏睡合併あり	Drug-induced diabetes mellitus with coma	E130	8843621
ウイルス性糖尿病・ケトアシドーシス合併あり	Viral diabetes mellitus with ketoacidosis	E131	8843121
膵性糖尿病・ケトアシドーシス合併あり	Pancreatic diabetes mellitus with ketoacidosis	E131	8843376
ステロイド糖尿病・ケトアシドーシス合併あり	Steroid diabetes mellitus with ketoacidosis	E131	8843389
二次性糖尿病・ケトアシドーシス合併あり	Secondary diabetes mellitus with ketoacidosis	E131	8843449
薬剤性糖尿病・ケトアシドーシス合併あり	Drug-induced diabetes mellitus with ketoacidosis	E131	8843620
ウイルス性糖尿病・腎合併症あり	Viral diabetes mellitus with renal complications	E132	8843124
膵性糖尿病・腎合併症あり	Pancreatic diabetes mellitus with renal complications	E132	8843379
ステロイド糖尿病・腎合併症あり	Steroid diabetes mellitus with renal complications	E132	8843392
二次性糖尿病・腎合併症あり	Secondary diabetes mellitus with renal complications	E132	8843452
薬剤性糖尿病・腎合併症あり	Drug-induced diabetes mellitus with renal complications	E132	8843623
ウイルス性糖尿病・眼合併症あり	Viral diabetes mellitus with eye complications	E133	8843120
膵性糖尿病・眼合併症あり	Pancreatic diabetes mellitus with eye complications	E133	8843375
ステロイド糖尿病・眼合併症あり	Steroid diabetes mellitus with eye complications	E133	8843388

二次性糖尿病・眼合併症あり	Secondary diabetes mellitus with eye complications	E133	8843448
薬剤性糖尿病・眼合併症あり	Drug-induced diabetes mellitus with eye complications	E133	8843619
ウイルス性糖尿病・神経学的合併症あり	Viral diabetes mellitus with neurological complications	E134	8843123
膵性糖尿病・神経学的合併症あり	Pancreatic diabetes mellitus with neurological complications	E134	8843378
ステロイド糖尿病・神経学的合併症あり	Steroid diabetes mellitus with neurological complications	E134	8843391
二次性糖尿病・神経学的合併症あり	Secondary diabetes mellitus with neurological complications	E134	8843451
薬剤性糖尿病・神経学的合併症あり	Drug-induced diabetes mellitus with neurological complications	E134	8843622
ウイルス性糖尿病・末梢循環合併症あり	Viral diabetes mellitus with peripheral circulatory complications	E135	8843128
膵性糖尿病・末梢循環合併症あり	Pancreatic diabetes mellitus with peripheral circulatory complications	E135	8843383
ステロイド糖尿病・末梢循環合併症あり	Steroid diabetes mellitus with peripheral circulatory complications	E135	8843396
二次性糖尿病・末梢循環合併症あり	Secondary diabetes mellitus with peripheral circulatory complications	E135	8843456
薬剤性糖尿病・末梢循環合併症あり	Drug-induced diabetes mellitus with peripheral circulatory complications	E135	8843627
ウイルス性糖尿病・糖尿病性合併症あり	Viral diabetes mellitus with diabetic complications	E136	8843126

膵性糖尿病・糖尿病性合併症あり	Pancreatic diabetes mellitus with diabetic complications	E136	8843381
ステロイド糖尿病・糖尿病性合併症あり	Steroid diabetes mellitus with diabetic complications	E136	8843394
二次性糖尿病・糖尿病性合併症あり	Secondary diabetes mellitus with diabetic complications	E136	8843454
薬剤性糖尿病・糖尿病性合併症あり	Drug-induced diabetes mellitus with diabetic complications	E136	8843625
ウイルス性糖尿病・多発糖尿病性合併症あり	Viral diabetes mellitus with multiple diabetic complications	E137	8843125
膵性糖尿病・多発糖尿病性合併症あり	Pancreatic diabetes mellitus with multiple diabetic complications	E137	8843380
ステロイド糖尿病・多発糖尿病性合併症あり	Steroid diabetes mellitus with multiple diabetic complications	E137	8843393
二次性糖尿病・多発糖尿病性合併症あり	Secondary diabetes mellitus with multiple diabetic complications	E137	8843453
薬剤性糖尿病・多発糖尿病性合併症あり	Drug-induced diabetes mellitus with multiple diabetic complications	E137	8843624
ウイルス性糖尿病・糖尿病性合併症なし	Viral diabetes mellitus without diabetic complications	E139	8843127
膵性糖尿病・糖尿病性合併症なし	Pancreatic diabetes mellitus without diabetic complications	E139	8843382
ステロイド糖尿病・糖尿病性合併症なし	Steroid diabetes mellitus without diabetic complications	E139	8843395

二次性糖尿病・糖尿病性合併症なし	Secondary diabetes mellitus without diabetic complications	E139	8843455
薬剤性糖尿病・糖尿病性合併症なし	Drug-induced diabetes mellitus without diabetic complications	E139	8843626
糖尿病	Diabetes mellitus	E14	2500013
糖尿病合併症	Diabetic complications	E14	2507028
糖尿病性昏睡	Diabetic coma	E140	2502006
糖尿病性低血糖性昏睡	Hypoglycemic coma in the context of diabetes mellitus	E140	8838076
糖尿病性アシドーシス	Diabetic acidosis	E141	2501002
糖尿病性アセトン血症	Diabetic acetonemia	E141	2501003
糖尿病性ケトアシドーシス	Diabetic ketoacidosis	E141	2501005
糖尿病性腎症	Diabetic nephropathy	E142	2503005
糖尿病性腎不全	Diabetic renal failure	E142	2503007
糖尿病性腎硬化症	Diabetic nephrosclerosis	E142	8838071
糖尿病性虹彩炎	Diabetic iritis	E143	2504004
糖尿病性中心性網膜症	Diabetic central retinopathy	E143	2504005
糖尿病性白内障	Diabetic cataract	E143	2504006
増殖性糖尿病性網膜症	Proliferative diabetic retinopathy	E143	2504010
糖尿病黄斑症	Diabetic maculopathy	E143	2504012
糖尿病網膜症	Diabetic retinopathy	E143	2504013
糖尿病性眼筋麻痺	Diabetic ophthalmoplegia	E143	8838065
糖尿病黄斑浮腫	Diabetic macular edema	E143	8844089
糖尿病性神経痛	Diabetic neuralgia	E144	2505011
糖尿病性末梢神経障害	Diabetic peripheral neuropathy	E144	2505018

糖尿病性筋萎縮症	Diabetic muscular atrophy	E144	2505021
糖尿病性神経因性膀胱	Diabetic neuropathic bladder	E144	8838069
糖尿病性自律神経ニューロパチー	Diabetic autonomic neuropathy	E144	8838070
糖尿病性多発ニューロパチー	Diabetic polyneuropathy	E144	8838074
糖尿病性単ニューロパチー	Diabetic mononeuropathy	E144	8838075
糖尿病性ニューロパチー	Diabetic neuropathy	E144	8838078
糖尿病足病変	Diabetic foot lesion	E144	8848634
糖尿病性神経障害性疼痛	Diabetic neuropathic pain	E144	8848768
糖尿病性壊疽	Diabetic gangrene	E145	2506006
糖尿病性動脈閉塞症	Diabetic arterial occlusion	E145	2506011
糖尿病性潰瘍	Diabetic ulcer	E145	8838063
糖尿病性血管障害	Diabetic angiopathy	E145	8838066
糖尿病性動脈硬化症	Diabetic arteriosclerosis	E145	8838077
糖尿病性末梢血管症	Diabetic peripheral vascular disease	E145	8838079
糖尿病性末梢血管障害	Diabetic peripheral vascular disease	E145	8838080
糖尿病足壊疽	Diabetic foot gangrene	E145	8848632
糖尿病足潰瘍	Diabetic foot ulcer	E145	8848633
糖尿病性関節症	Diabetic arthropathy	E146	2507025
糖尿病性皮膚障害	Diabetic skin disorders	E146	2507029
糖尿病性肝障害	Diabetic liver injury	E146	8838064
糖尿病性高コレステロール血症	Diabetic hypercholesterolemia	E146	8838067
糖尿病性骨症	Diabetic osteopathy	E146	8838068
糖尿病性精神障害	Diabetic mental disorder	E146	8838072
糖尿病性そう痒症	Diabetic pruritus	E146	8838073

糖尿病性水疱	Diabetic blister	E146	8844652
糖尿病性浮腫性硬化症	Diabetic edematous sclerosis	E146	8844653
高血糖高浸透圧症候群	Hyperglycemia hyperosmolarity syndrome	E146	8845128
糖尿病・糖尿病性合併症なし	Diabetes mellitus without diabetic complications	E149	8843439
非糖尿病性低血糖性昏睡	Hypoglycemic coma not in the context of diabetes mellitus	E15	8839324
果糖尿症	Levulosuria	E741	8831401
本態性果糖尿症	Essential levulosuria	E741	8840104
良性果糖尿症	Benign levulosuria	E741	8841021
腎性糖尿	Renal glycosuria	E748	2714002
青銅性糖尿病	Bronze diabetes mellitus	E831	8835941
膵全摘後二次性糖尿病	Secondary diabetes after pancreatectomy	E891	8835685
1型糖尿病合併妊娠	Pregnancy with type 1 diabetes	O240	8830029
2型糖尿病合併妊娠	Pregnancy with type 2 diabetes	O241	8830039
妊娠糖尿病	Pregnancy diabetes mellitus	O244	6489003
妊娠中の糖尿病	Overt diabetes in pregnancy	O249	8838621
妊娠中の耐糖能低下	Impaired glucose tolerance in pregnancy	O998	8838619
妊娠糖尿病母体児症候群	Gestational diabetes maternal syndrome	P700	8838633
糖尿病母体児	Diabetes maternal infant	P701	8838081
新生児一過性糖尿病	Neonatal transient diabetes mellitus	P702	7751001
新生児糖尿病	Neonatal diabetes mellitus	P702	7751002
新生児一過性高血糖症	Neonatal transient hyperglycemia	P708	8844233
境界型糖尿病	Borderline type diabetes mellitus	R730	2500031
耐糖能異常	Impaired glucose tolerance	R730	2713009

化学的糖尿病	Chemical diabetes mellitus	R730	8831132
潜在性糖尿病	Latent diabetes mellitus	R730	8836104
前糖尿病	Pre-diabetes mellitus	R730	8836563
高血糖症	Hyperglycemia	R739	8833419
一過性糖尿	Transient diabetes mellitus	R81	7915002
五炭糖尿症	L-Xylulosuria	R81	7915003
高血糖性糖尿	Hypoglycemic glycosuria	R81	8833420
食事性糖尿	Dietary glycosuria	R81	8834843
情動性糖尿	Emotional glycosuria	R81	8835464
正常血糖性糖尿	Euglycemic glycosuria	R81	8835871
糖尿	Glycosuria	R81	8838062

Supplementary Table S2 Codes of antidiabetic medications

Types of antidiabetic medication	Medicine codes
Sulfonylureas	610412056, 610443002, 610443003, 613960002, 613960003, 613960008, 613960017, 613960026, 613960027, 613960028, 613960038, 613960039, 613960078, 620000048, 620002031, 620002032, 620003159, 620003160, 620003947, 620003948, 620006030, 620006890, 620009209, 620871601, 620872002, 620872003, 620872004, 620872009, 620872016, 620873202, 620873301, 620873402, 620873702, 621982701, 621997001, 621997101, 621998701, 621998801, 621998901, 621999001, 621999301, 621999401, 621999701, 621999801, 622000601, 622000701, 622001701, 622001801, 622004701, 622004801, 622005501, 622005601, 622005802, 622009802, 622009901, 622010001, 622011401, 622011501, 622011601, 622011701, 622013401, 622013501, 622013601, 622016001, 622016101, 622017301, 622017401, 622017501, 622017901, 622018001, 622018802, 622020903, 622021003, 622021801, 622021901, 622022001, 622022101, 622023501, 622023601, 622025201, 622025301, 622025801, 622025901, 622026501, 622026601, 622029901, 622030001, 622031401, 622031501, 622033001, 622033101, 622033201, 622033701, 622033801, 622035701, 622035801, 622036002, 622037901, 622038001, 622039901, 622048401, 622048501, 622058801, 622058901, 622059002, 622059102, 622075601, 622088301, 622088401, 622103201, 622114701, 622114801, 622118501, 622122201, 622122301, 622127301, 622127401, 622127501, 622128101, 622137701, 622141101, 622141302, 622143402, 622144001, 622159301, 622169102, 622169301, 622176301, 622177501, 622186201, 622187301, 622190001, 622190801,

	622193301, 622194901, 622198001, 622202201, 622202801, 622205101, 622205501, 622208901, 622211501, 622217701, 622219701, 622221001, 622222001, 622242001, 622246801, 622252501, 622254701, 622271101, 622271201, 622271301, 622313200, 622313300, 622338501, 622338601, 622338701
Meglitinides	622462501, 622462401, 620001908, 620001907, 622053601, 622040901, 622041001, 610432026, 610432027, 622196601, 622119301, 622230001, 622196701, 622119401, 622230101, 610432032, 610432033, 622518201, 622525401, 622515301, 622523401, 622521001, 622518101, 622525301, 622515201, 622523301, 622520901
α -glucosidase inhibitors	610406390, 620002841, 620002843, 620004045, 620004072, 620004071, 620008727, 620008726, 621665301, 621683401, 621673501, 621691201, 622090001, 621689303, 621689001, 621690402, 621690901, 621690203, 620002120, 620004069, 620005557, 620005558, 620005559, 620005560, 620005561, 620008071, 620008072, 620008073, 621953301, 621943301, 620009287, 621896502, 622008602, 620009286, 621896402, 622008502, 620009296, 620009294, 620009293, 622302301, 620009297, 621958801, 620005360, 621785002, 621942202, 620009295, 620009291, 620009289, 620009288, 622302201, 620009292, 621958701, 620005359, 621784902, 621942102, 620009290, 621937201, 621937101, 613960082, 613960081, 622053601, 622432501, 622426601, 622426701, 620003127, 620003128, 620003129, 620002121, 610406391, 621953401, 620004046, 620004070, 620005562, 620008074, 620005563, 620005564, 620005565, 620008075, 620005566, 621943401, 620008076, 620004073, 620002845, 621690303, 620008729, 620008728, 620004074, 621689403, 621689101, 621691001, 621691601, 621665401, 621683501, 620002847, 622090101, 621690502, 621673601
Biguanides	622517101, 622450401, 622450301, 620004480, 620004502, 620005979, 610463145, 621986401, 621986301, 610444147, 621974701, 622242501, 622070801, 621676001,

	620005570, 622427201, 622421901, 622424401, 622421101, 622412701, 622438401, 622417101, 622432601, 622436301, 622427301, 622422001, 622424501, 622421201, 622448601, 622438501, 622417201, 622432701, 622466601
Thiazolidinediones	621990901, 621991001, 610432040, 610432041, 622048501, 622048401, 622065301, 622061601, 622041402, 622155901, 622063201, 622156901, 622144601, 622167201, 622045401, 622159401, 622056001, 622147501, 622175601, 622071901, 622065401, 622061701, 622041502, 622156001, 622063301, 622157001, 622144701, 622167301, 622045501, 622159501, 622056101, 622147601, 622175701, 622072001, 622320800, 622320900, 622065101, 622042901, 622061401, 622166801, 622182401, 622041202, 622079101, 622155701, 622063001, 622066201, 622164301, 622062302, 622047701, 622049901, 622046801, 622163301, 622053101, 622081801, 622059201, 622045201, 622053801, 622055801, 622147301, 622078301, 622175401, 622071701, 622065201, 622043001, 622061501, 622166901, 622182501, 622041302, 622079201, 622155801, 622063101, 622066301, 622164401, 622062402, 622047801, 622050001, 622046901, 622163401, 622053201, 622081901, 622059301, 622045301, 622061001, 622055901, 622147401, 622078401, 622175501, 622071801, 621986401, 621986301, 622086101, 622086001
Dipeptidyl peptidase-4 inhibitors	621950901, 621951001, 621951101, 621970601, 621970701, 621970801, 621980701, 621986001, 621986101, 621986201, 622086001, 622086101, 622093501, 622182601, 622201701, 622245601, 622245701, 622277501, 622288401, 622415401, 622415501, 622448901, 622449001, 622450301, 622450401, 622517101
Sodium glucose cotransporter 2 inhibitor	622340101, 622360601, 622401201, 622401301, 622306601, 622306701, 622336801, 622342001, 622341901, 622335701, 622335801

Rapid-acting insulin	621911101, 621911301, 621911201, 620008895, 621926901, 622252701, 620008893, 620008894, 620008916, 640451027, 620007460
Short-acting insulin	620008897, 620000265, 620008909, 620008907, 622114401
Long-acting insulin	622440701, 620008945, 620008943, 620007536, 622198901, 622199001, 622410901, 622484801, 622411001, 621927001, 620008952, 620008953
Immediate-acting insulin	620000266, 620008912, 620008910, 622114501, 620002441, 620007459
Premixed insulin	620002439, 620007461, 620002440, 620007462, 620008915, 620008913, 622114601, 620000269, 620000448, 620008896, 621973201, 621973301, 640453023
Combination-acting insulin	622451001, 622450901
Glucagon-like peptide-1 receptor agonist	622038401, 622038301, 621974801, 622229001, 622406001, 622267001, 622442201

Supplementary Table S3 Amputation codes

	Medical procedure receipt codes (in Japan)
Major LLA	
above-knee/transfemoral amputation	150051610
below-knee/transtibial amputation	150051710
Hindquarter amputation/ Hip disarticulation	150052210
through-knee amputation	150052310
Minor LLA	
Foot amputation, trans-metatarsal amputation, Lisfranc disarticulation	150051810
Foot joint disarticulation	150052610
Finger and toe amputation	150051910
Finger and toe joint disarticulation	150052710

Supplementary Table S4 The population of Japanese national census (2015)

Age group, years	total	men	women	Age group, years	total	men	women	Age group, years	total	men	women
0–4	4,987,706	2,550,921	2,436,785	35–39	8,316,157	4,204,202	4,111,955	70–74	7,695,811	3,582,440	4,113,371
5–9	5,299,787	2,714,591	2,585,196	40–44	9,732,218	4,914,018	4,818,200	75–79	6,276,856	2,787,417	3,489,439
10–14	5,599,317	2,868,024	2,731,293	45–49	8,662,804	4,354,877	4,307,927	80–84	4,961,420	1,994,326	2,967,094
15–19	6,008,388	3,085,416	2,922,972	50–54	7,930,296	3,968,311	3,961,985	≥85	4,887,487	1,461,624	3,425,863
20–24	5,968,127	3,046,392	2,921,735	55–59	7,515,246	3,729,523	3,785,723	Total	127,094,745	61,841,738	65,253,007
25–29	6,409,612	3,255,717	3,153,895	60–64	8,455,010	4,151,119	4,303,891				
30–34	7,290,878	3,684,747		60–65	9,643,867	4,659,662	4,984,205				