

Supplementary Table 1. ICD-10 codes for comorbidities listed on the Charlson comorbidity index.

Comorbidities	ICD-10 code
Cerebrovascular disease	G45, G46, H340, I60, I61, I62, I63, I64, I65, I66, I67, I68, I69
Any malignancy, with lymphoma leukemia, without malignant neoplasm of skin	C00, C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C30, C31, C32, C33, C34, C37, C38, C39, C40, C41, C43, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C81, C82, C83, C84, C85, C88, C90, C91, C92, C93, C94, C95, C96, C97
Dementia	F00, F01, F02, F03, F051, G30, G311
AIDS/HIV	B20, B21, B22, B24
Myocardial infarction	I21, I22, I252
Renal disease	I120, I131, N032, N033, N034, N035, N036, N037, N052, N053, N054, N055, N056, N057, N18, N19, N250, Z490, Z491, Z492, Z940, Z992
Congestive heart failure	I099, I110, I130, I132, I255, I420, I425, I426, I427, I428, I429, I43, I50, P290
Peripheral vascular disease	I70, I71, I731, I738, I739, I771, I790, I792, K551, K558, K559, Z958, Z959
Chronic pulmonary disease	I278, I279, J40, J41, J42, J43, J44, J45, J46, J47, J60, J61, J62, J63, J64, J65, J66, J67, J684, J701, J703
Rheumatic disease	M05, M06, M315, M32, M33, M34, M351, M353, M360
Peptic ulcer disease	K25, K26, K27, K28
Liver disease (mild)	B18, K700, K701, K702, K703, K709, K713, K714, K715, K717, K73, K74, K760, K762, K763, K764, K768, K769, Z944

Liver disease (moderate or severe)	I850, I859, I864, I982, K704, K711, K721, K729, K765, K766, K767
Diabetes without chronic complications	E100, E101, E106, E108, E109, E110, E111, E116, E118, E119, E120, E121, E126, E128, E129, E130, E131, E136, E138, E139, E140, E141, E146, E148, E149
Diabetes with chronic complications	E102, E103, E104, E105, E107, E112, E113, E114, E115, E117, E122, E123, E124, E125, E127, E132, E133, E134, E135, E137, E142, E143, E144, E145, E147
Hemiplegia or paraplegia	G041, G114, G801, G802, G81, G82, G830, G831, G832, G833, G834, G839
Metastatic solid tumor	C77, C78, C79, C80

Supplementary Table 2. ICD-10 codes for comorbidities of skin diseases and Alzheimer's disease.

Comorbidities	ICD-10 code
Pemphigoid	L100-L105, L108, L109, L120, L121, L129
Epidermolysis bullosa	L123, L139, Q810-Q812, Q818, Q819
Erythema annulare centrifugum	L531
Erythema multiforme	L510, L511, L518, L519
Exfoliative dermatitis	L26
Psoriasis	L400, L401, L404, L405, L408, L409
Alzheimer's disease	F00, G30

Supplementary Table 3. Medications definitions according to Japanese drug codes.

Drug Classification	Japanese drug code							
All antibiotics	620005060	640463089	620000427	610454086	610454003	620006920	620007026	
	622066601	622112901	622112902	616130371	620005906	621073001	616130132	
	616130295	616130039	620007024	622054901	622066501	622111101	622127801	
	622165902	616130037	616130040	620006829	620006829	620006919	620007025	
	620008584	620009117	621073901	621074701	621075101	610451023	621076301	
	621076401	621076601	621076801	621077201	621077501	646130136	620004765	
	620004699	620004699	620004752	620005203	620007456	620008902	621078403	
	621078301	621078103	621078601	621342601	621078503	646130137	620004766	
	620004700	620004700	620004753	620005204	620007457	620008903	621079203	
	621079101	621078903	621079401	621342802	621079304	620003814	640462059	
	622079701	622477600	640462060	622079801	622477700	620003766	620003767	
	621116201	621116301	621709001	640406222	640406222	620003003	620003003	
	620004132	620004132	620004132	620004132	620004134	620004134	620005874	
	620005874	620009513	620009560	622118402	622118402	622118402	622100601	
	622100601	640406223	640406223	620002977	620002977	620002977	620003002	
	620003002	620003004	620003004	620004133	620004133	620004133	620004133	
	620004133	620004135	620004135	620005875	620005875	620009514	620009561	
	622250001	622419601	622408701	622464401	622467201	622458201	622441301	
	620004775	620004776	620008446	622441401	622464701	622453701	622450601	
	622461801	622458801	622467001	622470601	622455601	622460701	620008447	
	622441501	622464801	622453801	622450701	622461901	622458901	622467101	
	622470701	622455701	622460801	622423101	622454001	622470901	622455901	
	622462101	622453901	622470801	622455801	622462001	621130301	621131001	
	646190020	646190018						
	Aminoglycosides	620004729	620008229	620008792	620009511	621876001	622477000	621735001
		622477000	620004756	620004730	620008793	620009512	621066501	622477100
		621066401	622477100	620004728	620009509	620009510	620009583	621924501
		622477200	621896701	622477200	620007432	621955601	621936301	621950501
		621950502	622477300	621936302	622477300	620008598	620008599	620008600
		640453139	640453139	640453140	640453140	646120062	646120062	620003190
		620003676	622326000	620003813	620004178	620006215	620006356	621069402
		621069001	622326000	621069302	622326000	621069501	622326000	621068901
		620003191	620003462	620003677	620003462	620003797	620003462	620004333
620006216		620003462	620006651	621070202	620003462	621069701	620003462	

	621070102	620003462	621070301	621069601	621070602	621070902	640453078
	640453048	620003198	620003193	620004642	620005641	621604701	646120080
	646120081	640453079	640453049	620004643	620005642	621695601	620009196
	622199101	620005201	620005202	620005180	620005180	620003780	620003781
	646120011	622037301	622037301	622074801	622074802	622618300	620003210
	620006210	620006350	621111803	622327500	621111802	622327500	646120012
	620006211	620006351	621112004	621112003	622618400	620003244	620007539
All beta-lactam antibiotics	It includes the following penicillin, cephalosporins, carbapenems and other beta-lactam antibiotics.						
Penicillin	620005060	640463089	620000427	610454086	610454003	620006920	620007026
	622066601	622112901	622112902	616130371	620005906	621073001	616130132
	616130295	616130039	620007024	622054901	622066501	622111101	622127801
	622165902	616130037	616130040	620006829	620006829	620006919	620007025
	620008584	620009117	621073901	621074701	621075101	610451023	621076301
	621076401	621076601	621076801	621077201	621077501	646130136	620004765
	620004699	620004699	620004752	620005203	620007456	620008902	621078403
	621078301	621078103	621078601	621342601	621078503	646130137	620004766
	620004700	620004700	620004753	620005204	620007457	620008903	621079203
	621079101	621078903	621079401	621342802	621079304	620003814	640462059
	622079701	622477600	640462060	622079801	622477700	620003766	620003767
	621116201	621116301	621709001	640406222	640406222	620003003	620003003
	620004132	620004132	620004132	620004132	620004134	620004134	620005874
	620005874	620009513	620009560	622118402	622118402	622118402	622100601
	622100601	640406223	640406223	620002977	620002977	620002977	620003002
	620003002	620003004	620003004	620004133	620004133	620004133	620004133
	620004133	620004135	620004135	620005875	620005875	620009514	620009561
	622250001	622419601	622408701	622464401	622467201	622458201	622441301
	620004775	620004776	620008446	622441401	622464701	622453701	622450601
	622461801	622458801	622467001	622470601	622455601	622460701	620008447
	622441501	622464801	622453801	622450701	622461901	622458901	622467101
	622470701	622455701	622460801	622423101	622454001	622470901	622455901
	622462101	622453901	622470801	622455801	622462001	621130301	621131001
	646190020	646190018					
Cephalosporins	616120011	616120012	616130002	616130378	616130378	616130003	620006005
	621083104	622316900	621082405	621082405	616130169	616130214	620003645
	620003645	621083503	610454041	610454042	620003644	620004512	620004981
	620006933	610453048	610454043	620003646	616130115	616130229	620003647
	620006878	621085602	616130482	616130112	620003155	620003563	620004489

621087903	622316800	621086806	621087001	610406161	620003564	621088403
622476500	616130469	616130490	616130491	616130492	616130110	616130493
616130493	616130494	610406060	620006923	620008657	622612400	621088802
621089701	621089501	622612400	621088705	621089103	622612400	621089103
622612400	621088901	620005947	616130404	610453056	610453059	620000061
616130405	616130406	620002755	620002756	620003583	620005512	621675801
622613300	622603901	616130407	616130408	616130408	620004958	620004958
620003968	620003970	620003973	620004021	620008681	620008681	621744202
621744203	621744401	621747601	620003971	620003972	620003974	620004022
620008682	620008682	621747701	616130476	616130477	620004513	621935801
620008481	620008483	620008483	620008483	620008482	620008484	620008485
620009343	620009344	621889402	621889403	621885302	621907701	621935901
620008487	620008488	622613000	620008489	620008490	622613200	616130531
620008479	620008491	620009334	622612900	620009335	622612900	620009337
622612900	620009336	622612900	621910001	621910002	622612900	621885102
622612900	621889701	616130532	620008480	620008492	620009339	622613100
620009340	622613100	620009342	622613100	620009342	620009341	622613100
621910101	621910102	622613100	621885202	622613100	621889801	620005503
620005501	620005502	620005504	620005499	620005500	620008746	622644301
620004080	620005506	620005505	620005507	620005508	622559401	610411059
621955901	621939401	621940201	621940201	621946301	621942901	621942901
621931001	621962401	621962501	621942904	610411057	620009331	621956001
621930801	621940301	621947501	621962601	621943001	621943001	621943004
610411058	620009332	621956101	621930901	621940401	621940401	621947601
621962701	621943101	621943101	621943104	646130121	646130110	646130122
620004140	620004140	620007293	620009564	621989701	621987601	621989702
621987602	621924001	646130111	646130123	620004141	620004141	620006277
620007294	620009565	621989801	621989802	621344901	621924101	646130112
646130124	640453100	620003732	620003732	620006278	620007295	620008861
621345002	621345301	621095002	620003731	640408149	620000272	620009563
621540002	640408148	620003735	622104201	622130801	622130801	622124901
622177601	622124902	620003241	620003736	622033401	622104301	622328100
622177701	622328100	621096002	622033402	622328100	620003242	620003737
620004697	620006239	621096701	621096701	621096503	621096802	621096601
621096702	620003243	620003738	620004698	620006240	621097303	622177801
621097602	621097401	620003733	620003734	620003740	620003739	620004150
620004150	620007318	621757001	621757001	620005674	620005675	646130072
646130073	646130073	622125001	622104001	622131001	622131001	622111501

	622104002	646130074	646130074	621987501	622104101	622131101	622131101
	622111601	622104102	646130075	646130075	620003234	620004689	620006243
	620006243	620007540	621101802	621102102	621101803	646130076	646130076
	620003235	620004690	620006244	620006244	620007541	621101902	621102802
	621101903	620006241	620006242	640470010	640470010	620004151	620004151
	621951701	621951701	622618600	640454018	620004652	622618500	640454019
	620004653	646130067	646130071	646130071	646130132	646130133	646130134
	620002999	620003827	620004138	620004138	620004142	620006701	621967001
	621936401	622052901	622124801	621756202	621755802	621755802	621703101
	620003000	620003001	620003001	620003828	620004139	620004139	620004139
	620004145	620005676	620006702	621967101	621703001	621756502	621755902
	621755902	621755902	621703201	646130268	640463134	620000240	620008210
	620009566	620009567	621967201	621987301	622077301	621967202	621538203
	622077302	621836501	621488403	646130269	640463135	640463081	640463080
	640463080	620000346	620000346	620000241	620009568	620009569	621987401
	621488601	621538303	621555202	621555101	621488504	640470011	620002955
	620002955	620002955	620003009	620003009	622051701	620007514	620007514
	620004662	640454007	620004148	620006706	621108101	640454008	620004149
	620006707	621108301	640407076	640407076	621966801	621966801	621994601
	640407077	640407077	621966901	621966901	621966901	621994701	620002601
	640407080	640407081	640443046	640443047	666130005	666130006	646130037
	646130301	646130302	640443048	646130264	620004152	620004152	620007316
	620008216	622083601	622080001	622099301	622130901	622111401	622080002
	646130265	640444049	640444050	640444051	640444071	640444071	640453097
	620003742	620003742	620003742	620004714	620007317	620007551	621347901
	620000254	620003741	620003741	621116801	621441901	622669501	
Carbapenems	621926801	620007519	620009585	620009586	621952301	621952301	621950101
	621967801	621967901	621946701	621947901	621947901	621947901	622044201
	620007520	620009587	620009588	621952401	621952401	621950201	621968001
	621968101	621946801	621948001	621948001	621948001	622044301	622439001
	622419401	620007518	621952501	621952501	621967701	621931801	621931801
	621931801	622471301	622460901	640451036	640451037	620003113	621708501
	622078501	620003794	621727601	620004108	620004108	620007364	620008211
	622010201	622127601	622172601	620003703	620003703	620004106	620004106
	620004155	620004707	620005643	620007365	620007365	620007362	620003702
	620003702	620004107	620007363	620007363	646130368	646130369	
Other beta-lactam antibiotics	646130274	646130275	610411055	610411056	620008702		

Chloramphenicol	621122501	621122601	621122801				
Fosfomicin	616130512	616130513	621964001	621964601	621964002	622616100	616130456
	620008731	621113002	622616300	616130332	616130457	616130526	616130333
	621113712	622323800	622616200	620003815	620005693	622079901	622329200
	622045701	622104401	622131501	621812201	622329200	622045702	620003778
	620003816	620004767	620004750	620006316	620008937	621766301	622477800
	621114602	620003779	620003817	620004768	620004751	620006317	620008938
	621766401	622477900	621115302	620007477	640451022	640451023	
Glycopeptides	620003894	620003894	620006663	620006791	620008047	620009408	621738802
	621731302	621731302	640463091	640463091	640463102	620002907	620002907
	620005694	620005695	620006696	620006792	620006792	620009575	620009576
	621487601	621487701	621487802	621487501	621487501	621696305	621942601
	622107901	622107901	621942602	622107902	622107902	620004644	620004709
	620008212	620008212	620008213	620008213	620008532	620008532	620008532
	620008531	620008531	620008533	620008534	620008534	620008535	620008535
	620009572	620009571	620009573	621995201	622227801	621901402	621884501
	620009574	620009574	622216601	622207201	622227901	622338101	
Macrolides	622646401	620000022	620001975	620001974	620004463	620000020	620000021
	621120001	620003495	620003496	620003554	620003555	620003555	620004503
	620004503	620004504	620004504	621121601	610406338	616140099	620002697
	620002697	620002882	620002885	620002887	620002890	620004096	620004096
	620005638	620009499	621693301	621681102	621681102	621694602	621693303
	621694201	621675901	621694501	616140101	616140104	620003921	620003921
	620003918	620003919	620003919	620003919	620003924	620003924	620003924
	620003917	620003917	620003920	620003922	620003916	620003916	620003916
	620003923	620003945	620004075	620004075	620004089	620005425	620005425
	620006669	622079301	621741203	621741203	621741203	621752801	621736801
	616140102	616140105	620003932	620003928	620003926	620003926	620003929
	620003929	620003929	620003936	620003936	620003927	620003927	620003930
	620003931	620003931	620003933	620003933	620003934	620003934	620003935
	620003946	620004076	620004090	620006670	620008013	622079401	621742103
	621742103	621752901	621736701	622659101	620003940	620003941	620003943
	620003943	620003943	620003942	620003939	620003939	620004077	620004091
	620004476	620004974	620005353	620005426	620005427	620006671	620008014
	621753001	621793701	621348401	622295301	622303301	622269501	622274301
	622274301	622274501	622353101	622411501	610443026	622286701	622294801
	622294801	622290801	622274201	622274201	622276801	622296901	622303401
	622269601	622275601	622295401	622289801	622274401	622282801	622281501

	622270801	622275401	622275401	622352901	622368001	622368001	610451034
	622274601	622281601	622270901	610443024	622290701	622303201	622269401
	622353001	620009094	622085701				
Tetracyclines	662630037	662630045	616150003	616150002	621123301	620006083	620006084
	620004594	620004973	620007109	621124301	616150107	616150108	616150098
	616150088	616150088	610407118	621124603	621124801	621125101	621124604
	616150103	616150099	616150064	616150112	621125401	621125701	616150063
	616150090	610454083	621126003	621126004	620004771	620004770	622329300
	620005160	620005226	620007399	620007513	621126801	621126501	
Quinolones	610463036	616290016	620006852	616290054	620003455	620009216	620003455
	620009250	620003455	621137802	616240002	616290121	610407051	610461206
	610407066	610461206	610412137	610461206	610460010	610461206	621138800
	610461206	622058001	610461206	621138823	610461206	621138818	610461206
	621138803	616290147	610407052	610461207	610407067	610461207	610412023
	610461207	610412138	610461207	610460011	610461207	620006594	610461207
	621139117	610461207	621139128	610461207	621139123	610461207	621139104
	616240001	620003911	620003912	622312200	620003913	622312200	620003983
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	622388801	622392301	622383501	622391101	622383001	622476600	622377901
	622476600	622380001	622394401	622476600	622372801	622387801	622476600
	622387801	622476600	622384801	622391701	622476600	622382001	622369001
	622435301	622476600	622436801	621925801	622386201	622379201	622370901
	622394101	622401001	622476700	622386901	622386901	622367901	622376401
	622395301	622476700	622400901	622476700	622389501	622380401	622396001
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	622392401	622383601	622391201	622383101	622476700	622378001	622380101
	622394501	622476700	622372901	622387901	622387901	622384901	622391801
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	621495202	622009401	621997601	622030301	622622001	622030201	622622101
	622624001	622641101	622623901	622632501	622630601	622643901	622632801
Sulfa drugs	612690004	620006826	620008787	620008788	620006949	620008624	620009119
	622023001	621133002	610453051	610453051	610453008	610453008	610453008
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	610453065	610463004	622039001	622161401	622173801	621443001	622039002
	622161402	620008997	621355101	622316700	622612300	621148101	621148201
	620006753	621148801	621148901	620006753	621149001	646410002	
Other antibiotics	620003875	662630040	620003876	662630041	620006026	620006027	620006165
	620003811	620006345	620007537	622329900	621062901	621380803	622329900
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	622330000	621380904	622330000	621380903	622330000	620006342	620004196
	620004197	621977300	620006344	620006343	620003810	620003818	620006224
	620006261	620006348	620006348	620008810	622618100	621064601	622618100
	622111301	622111302	622618100	621064701	622618100	621064501	622618100
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	622618200	621065101	622618200	621065201	622618200	621065301	622618200
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	622517701	610462048	610462049	622029101	622289101	622289201	622289301
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	622626501	640451010	622419501	622561501	622654101	622652801	622675301
	622626601						
Amiodarone	612120358	620003885	620003885	620005361	620005361	621978401	621990801
	621990701	620004876	622609302				
Antifungal drugs	620007031	620004560	620007032	620007467	620003487	620002493	622480701
	622491901	622499601	622483001	622495401	622479601	622501301	622495402
	620002494	622480801	622492101	622499801	622483101	622495501	622479701
	622501401	622495502	622492001	622499701	622375301	640462040	640462041
	620003489	620002497	622646802	622136201	622136301	620004450	616290164
	620000143	620000119	620000119	620000121	620000428	620002804	620009431
	621688201	622070301	621530003	621569001	621531201	616290165	620000144
	620000120	620000120	620000122	620000429	620002805	620009432	621639401
	622070401	621530103	621569101	621531301	622139201	622139301	620001958
	620001958	620002073	620007914	621636802	620001959	620001959	620004004
	621746701	620007915	620007915	616290177	620001961	620001961	621629201
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	620005518	620006675	620008028	621746301	621746301	621746301	621732101
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	620000279	620003727	620007481	620008922	620008924	620009581	620009581
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	620000295	620004754	621541601	621543302	620000284	620000308	620000296
	620004755	621541701	622328600	621543402	620000282	620000306	620000294
	621543201	620000437	620000438	620000439	620004424		

All

antihypertensive
drugs

It includes following ACE inhibitors, ARBs, CCBs and DRIs.

ACE inhibitors	610461106	620006556	620008603	610461106	621365602	612140074	610412013
	610412035	610412037	610412039	610412044	622312300	610412044	622312300
	610412044	610412110	622312300	610412110	610453037	622312300	620006879
	622312300	621365713	622312300	621365736	622312300	612140075	610412014
	610461108	610412036	610461108	610412038	610461108	610412040	610461108
	610412045	610461108	610412045	610461108	610412045	610461108	610412111
	610461108	610461108	621365822	610461108	621365821	610461108	621365810
	610461108	621365823	610453036	620008602	610453025	612140443	610444075
	610444119	620006745	610444119	620006745	610444160	610444163	610444165
	610444169	620006745	620002009	620002157	620007943	620006745	620008305
	620006745	620008291	620009306	620006745	621243401	621975302	621975302
	622025401	622025401	622025401	620006745	622023701	620006745	622023701
	620006745	622064401	620006745	622064401	620006745	622028801	622067201
	620006745	622067201	621243801	620006745	621243801	620006745	621642802
	620006745	621243601	621243302	621632201	620006745	621401401	620006745
	621243701	622025404	622025404	622025404	620006745	622388301	620006745
	622064403	620006745	622064403	621243402	622067202	621401303	612140444
	610444028	620001876	610444030	620001876	610444030	620001876	610444062
	620001876	610444062	620001876	610444064	610444064	620001876	610444076
	620001876	610444120	620001876	610444120	620001876	610444153	620001876
	610444153	620001876	610444161	620001876	610444164	610444166	620001876
	610444167	610444167	610444167	610444170	620001876	610463039	610463078
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	620001876	621573601	620001876	621573601	621245501	620001876	621245501
	620001876	621245002	620001876	621245002	620001876	621245201	620001876
	621244402	621401501	620001876	621401701	620001876	621245301	621245402
	621245402	621245402	620001876	622388401	620001876	621244602	620001876
	621244602	621244502	621244702	621401603	612140445	610444065	620001877
	610444162	620002011	620001877	620002158	620001877	620004284	620001877
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	620001877	622023901	620001877	622023901	620001877	622108001	620001877
	622108001	620001877	622101901	620001877	622101901	620001877	621245801
	620001877	621642902	620001877	621977602	620001877	621632301	620001877

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620281801	622309900	620282601	622309900	620282504	622309900	621245901
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620009364	620009367	620009367	620009367	620009358	620009359	620009361
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ARBs

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622654401						

Fludarabine 620004870 620002600

Heparin 620812201 620812203 620007487 621824702 621824801 621824802 620007488

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620004763 620005185 621497401 621497403 621700302 621700302 621700302

621544201 620002285 620004195 620004764 620004764 620005186 621463401

621463403 621700202 621700202 621700202 621544301 621653101 621653201

620004184 620004184 620005699 622131301 620004185 620004185 620004186

622131401 620004183 620004187 620004187 620004188 622083901 621956701

622083701 622083801

Anticonvulsants	661120006	611130088	611130089	611130046	611130095	611130047	611130097
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	610462033	611120132	611120158	610462033	611120159	620000188	610443011
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	610421004	611130087	620001972	611130100	611130101	620002065	610421004
	620003156	620003156	620002054	620003976	620003577	620003578	620003795
	610422312	620003662	611130067	620003654	620003655	620003656	620003652
	620003653	620004028	620004350	620004351	620004352	620002054	620003976
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	620006060	620002090	620006033	620006068	620007132	620007133	620007134
	620007130	620007131	620006918	611120064	620000469	620008554	620008562
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	622670501	622673201					
Phenytoin	610421006	611130079	610421007	611130079	610421008	611130079	611130046
	611130095	610421009	611130046	611130047	611130097	611130047	611130096
	620000188	620066901	620067001	620067101	620067201		
Phenytoin (prodrug)	622093701						
All antideementia drugs	It includes the following donepezil, galanthamine, memantine and rivastigmine.						
Donepezil	610453016	622092301	622092301	622099801	622099801	622129001	622129001
	610432042	622081201	622081201	622115901	622115901	622086701	622086701
	622114901	622114901	622113601	622113601	622124001	622124001	622105301
	622105301	622126401	622614200	622126401	622116301	622116301	622092101

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622081301	622116001	622116001	622086801	622086801	622115001	622115001
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622087301	622123101	622123101	622120401	622120401	622117701	622117701
622117701	622097401	622100001	622100001	622126801	622101101	622094101
622094101	622094901	622094901	622109801	622109801	622129201	622129201
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622097402	622101102	622566101	622614400	620001922	622086901	622086901
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622124201	622614300	622124201	622124201	622105501	622105501	622116101
622116101	622116101	622116101	622113301	622113301	622091901	622091901
622123201	622123201	622120501	622120501	622117801	622117801	622117801
622117801	622097501	622099601	622099601	622101201	622094201	622094201
622095001	622095001	622109901	622109901	622128701	622128701	622107401
622107401	622119101	622112701	622112701	622120001	622120001	622125501
622125501	622170501	622155501	622138701	622097502	622214801	622614300
622101202	622595601	622614300	620001923	622087001	622087001	622115201
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622116201	622113401	622113401	622092001	622092001	622123301	622123301
622120601	622120601	622117901	622117901	622117901	622117901	622097601
622099701	622099701	622101301	622094301	622094301	622095101	622095101
622110001	622110001	622128901	622128901	622107501	622107501	622119201
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	622273801	622284301	622280001	622270301	622270301	622282501	622286001
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	622142101	622273901	622142201	622274001	622274101	622279801	
Galanthamine	622045801	622045801	622045901	622045901	622046001	622046001	622046101
	622046101	622046201	622046201	622046301	622046301	622046401	622046401
Memantine	622047101	622047101	622047201	622047201	622047301	622047301	622306001
	622306101	622306201	622639301				
Rivastigmine	622081601	622084801	622081701	622084901	622082301	622085001	622082401
	622085101						

ACE, angiotensin-converting enzyme; ARB, angiotensin II receptor blocker; CCB, calcium channel blocker; CI, confidence interval; DRI, direct renin inhibitor.

Supplementary Table 4. Participants' characteristics of with and without acquired hemophilia A for the baseline period on medications.

Variable	Category	AHA (N = 34)	no AHA (N = 1,160,877)	P- value
Medications				
All antibiotics	Taken	22 (64.7)	562,408 (48.4)	0.084
Aminoglycoside	Taken	4 (11.8)	53,443 (4.6)	0.113
All beta-lactam antibiotics	Taken	16 (47.1)	378,084 (32.6)	0.105
Penicillin	Taken	3 (8.8)	62,033 (5.3)	0.602
Cephalosporin	Taken	13 (38.2)	342,556 (29.5)	0.354
Carbapenem	Taken	3 (8.8)	12,625 (1.1)	<0.001
Other beta-lactam antibiotics	Taken	0	7,269 (0.6)	1.000
Chloramphenicol	Taken	0	6 (0.0)	1.000
Fosfomycin	Taken	1 (2.9)	15,415 (1.3)	0.942
Glycopeptide	Taken	1 (2.9)	2,831 (0.2)	0.147
Macrolide	Taken	8 (23.5)	189,058 (16.3)	0.362
Tetracycline	Taken	1 (2.9)	15,446 (1.3)	0.943
Quinolone	Taken	7 (20.6)	195,890 (16.9)	0.727
Sulfa drug	Taken	1 (2.9)	9,981 (0.9)	0.700
Other antibiotics	Taken	0	23,489 (2.0)	0.819
Amiodarone	Taken	0	1,674 (0.1)	1.000
Antifungal drugs	Taken	0	12,638 (1.1)	1.000
All antihypertensive drugs	Taken	20 (58.8)	534,839 (46.1)	0.187
ACE inhibitor	Taken	0	49,750 (4.3)	0.418
ARB	Taken	11 (32.4)	324,468 (28.0)	0.703
CCB	Taken	17 (58.8)	417,577 (36.0)	0.127
DRI	Taken	0	2,200 (0.2)	1.000
Clopidogrel	Taken	1 (2.9)	36,522 (3.1)	1.000
Diuretic	Taken	3 (8.8)	117,820 (10.1)	1.000

Antidiabetic drugs	Taken	3 (8.8)	136,732 (11.8)	0.788
Fludarabine	Taken	0	50 (0.0)	1.000
Heparin	Taken	3 (8.8)	66,157 (5.7)	0.677
All anticonvulsant	Taken	1 (2.9)	28,801 (2.5)	1.000
Phenytoin	Taken	1 (2.9)	3,318 (0.3)	0.196
Phenytoin (prodrug)	Taken	0	343 (0.0)	1.000
All antimentia drugs	Taken	4 (11.8)	38,305 (3.3)	0.022
Donepezil	Taken	3 (8.8)	28,683 (2.5)	0.067
Galanthamine	Taken	0	5,957 (0.5)	1.000
Memantine	Taken	1 (2.9)	7,916 (0.7)	0.576
Rivastigmine	Taken	0	4,317 (0.4)	1.000

AHA, acquired hemophilia A; ACE, angiotensin-converting enzyme; ARB, angiotensin II receptor blockers; CCB, calcium channel blocker; DRI, Direct Renin Inhibitor.

Supplementary Table 5. Spearman's correlation matrix.

Spearman's correlation coefficient	Age	Alzheimer's disease	Dementia	Congestive heart failure	Peripheral vascular disease	Rheumatic disease
Age	1	0.222	0.269	0.254	0.123	0.028
Alzheimer's disease	0.222	1	0.862	0.084	0.018	0.002
Dementia	0.269	0.862	1	0.108	0.020	0.002
Congestive heart failure	0.254	0.084	0.108	1	0.169	0.047
Peripheral vascular disease	0.123	0.018	0.020	0.169	1	0.055
Rheumatic disease	0.028	0.002	0.002	0.047	0.055	1

The variables with statistical significance in univariable analysis were used. The categorical variable was treated as an ordered category variable. The combination of dementia and Alzheimer's disease had an absolute Spearman's correlation coefficient >0.4 .