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Table SI. ICD-10 codes used to identify hospital-treated alopecia areata (AA)

Description	ICD-10	Severity subtype ^a		
		AT/AU	Non-AT/AU	All AA
Alopecia areata	L63		×	×
Alopecia (capitis) totalis	L63.0	×		×
Alopecia universalis	L63.1	×		×
Ophiasis	L63.2		×	×
Other alopecia areata	L63.8		×	×
Alopecia areata, unspecified	L63.9		×	×

^aIndividuals with more than one severity subtype according to the first recorded ICD-10 code entered on the AA cohort entry date were classified as having AT/AU if they had the respective code or as having non-AT/AU otherwise, to achieve mutually exclusive, all-inclusive categories. AT: alopecia totalis; AU: alopecia universalis; ICD-10: International Classification of Diseases 10th Revision.

Table SII. Codes used to identify comorbidities, infections, malignancies, arterial and venous cardiovascular events, and all-cause death^a

Description	Code type	List of codes
Hearing loss	ICD10	H90, H900, H901, H902, H903, H904, H905, H906, H907, H908, H91, H910, H911, H912, H913, H918, H919, H93, H94, H830, H810
Serious Infection	ICD10	<p>A541, !(A541B), B43, !(B430, B438, B439), D733, E060A, E236A, E321, H000A, H050A, H440A, H600, H600A, J340, !(J340E, J340F, J340G, J340H), J340A, J36, J383D, J387G, J390, J391, J398A, J851, J852, J853, K046, K047, K113, K122, K130A, K140A, K209A, K353A, K353B, K570, !(K570B, K570C), K572, !(K572B, K572C), K574, !(K574), K578, K61, K630, K750, K810A, K858A, L02, L050, M608A, M608A1, M868A, M869A, N151, N340, N412, N450, N492A, N619A, N619B, N700A, N700B, N710A, N730A, N730B, N732A, N732B, N733A, N735A, N738A, N738C, N751, N764, N768A, A394, A499A, B35, B36, B37, B38, B39, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B342A, B948A, B972A, Z861A, N70, N71, N72, N73, N74, N75, N76, N77, I00, I01, I02, I301, I320, I33, I38, I398, I400, B20, B21, B22, B23, B24, A022C, A170, A203, A321, A390, A548D, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, G00, G01, G02, G03, G04, G05, G06, G07, T802, T814, T826, T827, T835, T836, T845, T846, T847, T857, T880, T880A, T89, T899, J10, J11, A00, A01, A02, A03, A04, A05, A06, A07, A08, A09, K35, K37, K570, K572, K574, K578, K61, K630, K650, !(K650M, K650N, K650O, K650P), K659, K67, K750, K751, K800, K803, K804, K810, K819, K830, K858A, K859, N41, N45, A20, A21, A22, A23, A24, A25, A26, A27, A28, A30, A31, A32, A33, A34, A35, A36, A37, A38, A42, A43, A44, A48, A49, A65, A66, A67, A68, A69, A70, A71, A74, A75, A77, A78, A79, B00, B01, B02, B03, B04, B05, B06, B07, B08, B09, B25, B26, B27, B30, B33, B34, O23, O264, O411, O740, O753, O85, O86, O883, O91, O98</p> <p>J20, J21, J22, J340 !(J340E, J340F, J340G, J340H), J350, J383C, J383D, J387B, J387F, J387G, J440, J851, J86, B90, B91, B92, B94 !(B948A), B95, B96, B97 !(B972A), B98, B99, H00 !(H000A, H010), H030, H031, H043, H050 !(H050A), H061, H10, H130, H131, H150, H191, H192, H220, H320, H440 !(H440A), H441, H609, H610, H620, H621, H622, H623, H650, H660, H661, H662, H663, H664, H669, H67, H680, H700, H830, H940, K040, K052, L04, L05 !(L050), N481, N482, N49 !(N492A), N510, N511, N512, N619E, B50, B51, B52, B53, B54, B55, B56, B57, B58, B60, B64, B65, B66, B67, B68, B69, B70, B71, B72, B73, B74, B75, B76, B77, B78, B79, B80, B81, B82, B83, B85, B86, B87, B88, B89, J12, J13, J14, J15, J16, J17, J18, A021, A227, A282B, A327, A40, A41, A427, A548G</p> <p>A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A63, A64, A46, H010, H03 !(H030, H031), H601, H603, K122, K130A, K61, L00, L01, L02, L03, L08, L303, L738, M726, M00, M01, M630, M631, M632, M86, J00, J01, J02, J03, J04, J05, J06, J36, J390, J391, N080, N10, N11, N12, N136, N151, N159, N160, N288D, N288E, N288F, N290, N291, N30, N330, N340, N341, N390, B15, B16, B17, B18, B19</p>
Herpes Zoster	ICD10	B02, B020, G051I, B021, B022, G051M, B023, H031F, H131M, H190D, H192D, H190J, H220C, B027, B028, B029, H621B
	ATC	J05AB01, J05AB11, J05AB09
Any Cancer	ICD10	C00-C75 !(C44) C80-C97 !(C87) D00-D09, C009X, C019X, C029X, C039X, C049X, C059X, C069X, C079X, C089X, C119X, C129X, C139X, C140X, C159X, C169X, C179X, C189X, C209X, C210X, C211X, C229X, C239X, C249X, C259X, C269X, C300X, C301X, C319X, C329X, C339X, C349X, C379X, C380A, C380X, C383X, C384X, C399X, C409X, C419X, C439X,

		C459X, C469X, C479X, C480X, C482X, C499X, C509X, C519X, C529X, C539X, C549X, C569X, C579X, C609X, C619X, C619Y, C629X, C639X, C649X, C659X, C669X, C679X, C680X, C689X, C699X, C709X, C719X, C729X, C739X, C749X, C759X, C76, C77, C78, C79
Basal cell carcinoma	ICD10	C44
Nonmelanoma skin cancer	ICD10	C449X
Squamous cell carcinoma	ICD10	C44
Malignant Melanoma	ICD10	C43, C439X
Lymphoma	ICD10	C81, C82, C83, C84, C85, C86
Breast cancer	ICD10	C50, C509X
Cervical Carcinoma in situ	ICD10	D06
MACE	ICD10	I20, I21, I22, I23, I24, I25 I00-I99, I60, I61, I110, I130, I132, I420, I426, I427, I428, I429, I50, I63, I64, I200
VTE, DVT, PE, ATE	ICD10	I801, I802, I803, I26, I74
Comorbidities that may pre-dispose to key safety events	ICD10	O00-O99, I10-I13, I15, I27, E10, E11, E780, E781, E782, E783, E784, E785, F10, F11, F12, F13, F14, F15, F16, F17, F18, F19, I270, I272, I278, I279, J40, J41, J42, J43, J44, J47, J60, J61, J62, J63, J64, J65, J66, J67, J684, J701, J703, J841, J961, J982, J983, H90, H91, H93, H94, H830, H810
	ATC	A10
Medication use	ATC	A10, C09, C02, C07, C08, C03, L04AB04, L04AA15, L04AA32, L04AB05, L04AB01, L04AB06, L04AB02, L04AC05, G03CA57, G03CC07, G03HB01, G03F, L04, L04AB, L04AA06, L04AA10, L04AA18, L04AA23, L04AA24, L04AA25, L04AA26, L04AA27, L04AA29, L04AA31, L04AA33, L04AA34, L04AA36, L04AA40, L04AA43, L04AB01, L04AB02, L04AB04, L04AB05, L04AB06, L04AC02, L04AC03, L04AC05, L04AC07, L04AC08, L04AC10, L04AC12, L04AC14, L04AC16, L04AC18, L04AD01, L04AD02, L04AX01, L04AX02, L04AX03, L04AX04, L04AX05, L04AX06, L04AX07, L04AA37, L04AA45, ML01XE18, L04AA29, L04AA44, C10, G03A, H02 !(H02AB12, H02AB14, H02AB15, H02AB17)
Conditions associated with AA	ICD10	E063, L20, M32, L40, L80, M05, M06, K900, F40, F41, F42, F43, F44, F45, F48, F93, F32, F33, F30, F31, F34, F38, F39, F600, F601, F604, F602, F605, F603, F606, F607, F608, F609, E10, K510, K512, K513, K514, K515, K515A, K515B, K518, K518B, K519, K500, K500A, K500B, K500C, K500D, K501, K501D, K508, K508A, K508C, K508D, K509, L405, M070, M071, M072, M073, M073A, M073B, J300, J301, J301A, J301B, J301C, J303, J303A, J45, J46, G35
	ATC	A10A, R03
^a ! (X) refers to codes that were excluded.		