















Muse et al., Assessment of Drug Impact on Laboratory Test Results in Hospital Settings

Supplemental Figure 1: ATC group label and coloring

ATC Group

	A: Alimentary tract and metabolism
	B: Blood and blood forming organs
	C: Cardiovascular system
	D: Dermatologics
	G: Genito-urinary system and sex hormones
	H: Systemic hormonal preparations, excluding sex hormones and insulins
	J: Antiinfectives for systemic use
	L: Antineoplastic and immunomodulating agents
	M: Musculo-skeletal system
	N: Nervous system
	P: Antiparasitic products, insecticides and repellents
	R: Respiratory system
	S: Sensory Organs
	V: Various

Supplemental Table 1: *Monotherapy results used to make [figures 3-5](#). These results are too large for printing and are therefore available on github at https://github.com/vmuse12/ADE_data.*

Supplemental Table 2: All possible paths a patient could take as presented in [figure 2](#). The “0/4” implies the patient exits the study either by incurring an abnormal lab test or the patient was no longer on exposure status 1/2/3 and the study window ended. It is possible for the study window to also end while a patient is still being exposed as seen in the table. The multistate model broke each of these paths into start and stop points defining the path taken, exposure status, and adverse outcome status. Study start date is 2011-10-28 unless date of birth was after this date; study exit date is 2016-06-30 unless death or adverse outcome occurred. Start and end times were calculated as the patients age to account for age in the model directly.

Patient example	Pathway
1	0 -> 0/4
2	0 -> 1
3	0 -> 1 -> 0 -> 4
4	0 -> 1 -> 0/4
5	0 -> 2
6	0 -> 2 -> 0 -> 4
7	0 -> 2 -> 0/4
8	0 -> 3
9	0 -> 3 -> 0/4
10	0 -> 1 -> 3
11	0 -> 1 -> 3 -> 0/4
12	0 -> 2 -> 3
13	0 -> 2 -> 3 -> 0/4
14	0 -> 1 -> 0 -> 1 -> 3
15	0 -> 1 -> 0 -> 1 -> 3 -> 0/4
16	0 -> 2 -> 0 -> 2 -> 3
17	0 -> 2 -> 0 -> 2 -> 3 -> 0/4
18	0 -> 1 -> 0 -> 2 -> 3
19	0 -> 1 -> 0 -> 2 -> 3 -> 0/4
20	0 -> 2 -> 0 -> 1 -> 3
21	0 -> 2 -> 0 -> 1 -> 3 -> 0/4
22	0 -> 1 -> 0 -> 3
23	0 -> 1 -> 0 -> 3 -> 0/4
24	0 -> 1 -> 0 -> 2
25	0 -> 1 -> 0 -> 2 -> 0 -> 4
26	0 -> 1 -> 0 -> 2 -> 0/4
27	0 -> 2 -> 0 -> 1
28	0 -> 2 -> 0 -> 1 -> 0 -> 4
29	0 -> 2 -> 0 -> 1 -> 0/4
30	0 -> 1 -> 0 -> 2 -> 0 -> 3
31	0 -> 1 -> 0 -> 2 -> 0 -> 3 -> 0/4
32	0 -> 2 -> 0 -> 1 -> 0 -> 3
33	0 -> 2 -> 0 -> 1 -> 0 -> 3 -> 0/4

Supplemental Table 3: Combination data for figure 6, ordered alphabetically by ATC1 code. *pADEs* were summed across combinations (column = “Count”) and were only included if the HR in question was >3 and the FDR corrected *p*val <0.05. “Level” information is provided by the Danish DDI database, (“uafklaret”: unknown, “ingen”: none, “mulig”: potential, “moderat”: moderate, “udtalt”: considerable/profound).

ATC1	ATC2	ATC1 Name	ATC2 Name	Level	Count
A01AB03	C01BD01	chlorhexidine	amiodarone	moderat	42
A01AB03	C07AB02	chlorhexidine	metoprolol	moderat	21
A01AB03	J01FA01	chlorhexidine	erythromycin	uafklaret	4
A01AB03	J01MA02	chlorhexidine	ciprofloxacin	mulig	62
A01AB03	N01AX10	chlorhexidine	propofol	ingen	65
A01AB03	N02AA01	chlorhexidine	morphine	mulig	9
A01AB09	B01AA03	miconazole	warfarin	udtalt	1
A01AB09	L04AD01	miconazole	ciclosporin	udtalt	31
A02AA04	B03AC	magnesium hydroxide	Iron, parenteral preparations	moderat	2
A02AA04	B05XA31	magnesium hydroxide	electrolytes in combination with other drugs	moderat	4
A02AA04	C03EA01	magnesium hydroxide	hydrochlorothiazide and potassium-sparing agents	moderat	1
A02AA04	J01MA02	magnesium hydroxide	ciprofloxacin	udtalt	3
A02AA04	J05AH02	magnesium hydroxide	oseltamivir	ingen	2
A02AA04	N03AX12	magnesium hydroxide	gabapentin	uafklaret	2
A02AH	C09AA02	Antacids with sodium bicarbonate	enalapril	moderat	4
A02BA02	B05BB01	ranitidine	electrolytes	ingen	9
A02BA02	M01AE01	ranitidine	ibuprofen	ingen	1
A02BC01	B01AC07	omeprazole	dipyridamole	ingen	1
A02BC01	J01FA09	omeprazole	clarithromycin	ringe	4
A02BC01	J01MA02	omeprazole	ciprofloxacin	ingen	1
A02BC01	J02AC01	omeprazole	fluconazole	uafklaret	4
A02BC02	A07EC01	pantoprazole	sulfasalazine	ingen	1
A02BC02	A10BD07	pantoprazole	metformin and sitagliptin	ringe	1
A02BC02	A10BD08	pantoprazole	metformin and vildagliptin	ringe	1
A02BC02	B01AA03	pantoprazole	warfarin	ingen	1
A02BC02	B01AC06	pantoprazole	acetylsalicylic acid	mulig	2
A02BC02	C01AA05	pantoprazole	digoxin	ingen	4
A02BC02	C07AB02	pantoprazole	metoprolol	ingen	1
A02BC02	L01BA01	pantoprazole	methotrexate	uafklaret	5
A02BC02	L04AA06	pantoprazole	mycophenolic acid	mulig	24
A02BC02	L04AD01	pantoprazole	ciclosporin	ingen	30
A02BC02	L04AD02	pantoprazole	tacrolimus	ingen	26
A02BC02	N02BA01	pantoprazole	acetylsalicylic acid	mulig	3
A02BC02	N03AF01	pantoprazole	carbamazepine	ingen	1
A02BC02	N05BA01	pantoprazole	diazepam	ingen	2
A02BC03	A10BD08	lansoprazole	metformin and vildagliptin	uafklaret	1
A02BC03	B01AA03	lansoprazole	warfarin	moderat	1
A02BC03	N05BA01	lansoprazole	diazepam	ingen	1
A02BC05	J01FA09	esomeprazole	clarithromycin	ringe	11
A02BC05	N03AX12	esomeprazole	gabapentin	ingen	1
A02BC05	N05BA01	esomeprazole	diazepam	moderat	3
A02BX13	J01MA02	alginic acid	ciprofloxacin	udtalt	1
A02BX13	J02AC01	alginic acid	fluconazole	ingen	1
A03BB01	N02BE01	butylscopolamine	paracetamol	uafklaret	1
A03FA01	L04AD02	metoclopramide	tacrolimus	mulig	2
A03FA03	J02AC01	domperidone	fluconazole	udtalt	7
A04AA01	A10BA02	ondansetron	metformin	moderat	2

A04AA01	A10BD08	ondansetron	metformin and vildagliptin	moderat	2
A04AA01	J04AB02	ondansetron	rifampicin	moderat	1
A04AA01	L01AA01	ondansetron	cyclophosphamide	uafklaret	18
A04AD12	H02AB02	aprepitant	dexamethasone	moderat	24
A04AD12	H02AB06	aprepitant	prednisolone	ingen	20
A04AD12	L01AA01	aprepitant	cyclophosphamide	ingen	17
A04AD12	L01AA03	aprepitant	melphalan	ingen	5
A06AD65	J01XX08	macrogol, combinations	linezolid	ingen	17
A06AD65	L04AD01	macrogol, combinations	ciclosporin	mulig	33
A06AD65	L04AD02	macrogol, combinations	tacrolimus	ingen	22
A07AA02	B01AA03	nystatin	warfarin	uafklaret	2
A07EA06	J01XD01	budesonide	metronidazole	ingen	5
A07EC02	L04AX01	mesalazine	azathioprine	moderat	4
A10AB01	C07AB02	insulin (human)	metoprolol	moderat	2
A10AB01	C09AA02	insulin (human)	enalapril	mulig	1
A10AB01	C09AA05	insulin (human)	ramipril	mulig	1
A10AB01	C09BA02	insulin (human)	enalapril and diuretics	mulig	3
A10AB01	J01FA09	insulin (human)	clarithromycin	udtalt	27
A10AB05	C09AA05	insulin aspart	ramipril	mulig	1
A10AB05	C09BA02	insulin aspart	enalapril and diuretics	mulig	3
A10AB05	J01FA09	insulin aspart	clarithromycin	udtalt	4
A10AE04	C09BA02	insulin glargine	enalapril and diuretics	mulig	1
A10AE04	C09BA05	insulin glargine	ramipril and diuretics	mulig	1
A10AE05	C07AB02	insulin detemir	metoprolol	moderat	1
A10AE05	C09AA05	insulin detemir	ramipril	mulig	1
A10AE05	C09BA02	insulin detemir	enalapril and diuretics	mulig	2
A10BA02	A10BH02	metformin	vildagliptin	ingen	1
A10BA02	C03EA01	metformin	hydrochlorothiazide and potassium-sparing agents	ingen	1
A10BA02	C09AA04	metformin	perindopril	mulig	1
A10BB07	B01AC06	glipizide	acetylsalicylic acid	mulig	1
A10BB07	C10AA01	glipizide	simvastatin	ingen	1
A10BB12	C09AA05	glimepiride	ramipril	mulig	1
A10BB12	C09BA02	glimepiride	enalapril and diuretics	mulig	1
A10BB12	C09DA01	glimepiride	losartan and diuretics	mulig	1
A10BB12	H02AB02	glimepiride	dexamethasone	mulig	5
A10BD07	C10AA05	metformin and sitagliptin	atorvastatin	ingen	3
A10BD08	C09AA02	metformin and vildagliptin	enalapril	moderat	1
A10BD08	C09BA02	metformin and vildagliptin	enalapril and diuretics	moderat	1
A10BD08	C09DA01	metformin and vildagliptin	losartan and diuretics	ingen	1
A10BJ02	C09AA10	liraglutide	trandolapril	mulig	1
A10BJ02	N02BE01	liraglutide	paracetamol	ingen	1
A11CA01	B03AA02	retinol (vit A)	ferrous fumarate	ingen	2
A11DA01	B05XC	thiamine (vit B1)	Vitamins	ingen	13
A11EA	A11HA03	Vitamin B-complex, plain	tocopherol (vit E)	ingen	8
A11EA	B05XC	Vitamin B-complex, plain	Vitamins	ingen	11
A11GA01	B01AA03	ascorbic acid (vit C)	warfarin	mulig	5
A11GA01	J01XX08	ascorbic acid (vit C)	linezolid	ingen	6
A12AA06	B03AA02	calcium lactate gluconate	ferrous fumarate	moderat	3
A12AA06	B05XA31	calcium lactate gluconate	electrolytes in combination with other drugs	moderat	2
A12AA06	H03AA01	calcium lactate gluconate	levothyroxine sodium	moderat	2
A12AA06	J01MA02	calcium lactate gluconate	ciprofloxacin	moderat	15
A12AA07	B03AA02	calcium chloride	ferrous fumarate	moderat	29
A12AA07	H03AA01	calcium chloride	levothyroxine sodium	moderat	26
A12AA07	J01MA02	calcium chloride	ciprofloxacin	moderat	77
A12AX	B03AC	Calcium, combinations with vitamin D and/or other drugs	Iron, parenteral preparations	moderat	4
A12AX	B05XA31	Calcium, combinations with vitamin D and/or other drugs	electrolytes in combination with other drugs	moderat	5

A12AX	J01DD04	Calcium, combinations with vitamin D and/or other drugs	ceftriaxone	mulig	7
A12AX	J01MA02	Calcium, combinations with vitamin D and/or other drugs	ciprofloxacin	moderat	1
A12AX	J05AH02	Calcium, combinations with vitamin D and/or other drugs	oseltamivir	ingen	4
A12AX	N03AG01	Calcium, combinations with vitamin D and/or other drugs	valproic acid	ingen	2
A12CC30	B01AC06	magnesium (different salts in combination)	acetylsalicylic acid	ingen	1
A12CC30	B03AA02	magnesium (different salts in combination)	ferrous fumarate	moderat	1
A12CC30	B05XA31	magnesium (different salts in combination)	electrolytes in combination with other drugs	moderat	3
A12CC30	C01AA05	magnesium (different salts in combination)	digoxin	mulig	2
A12CC30	J01MA02	magnesium (different salts in combination)	ciprofloxacin	udtalt	10
A12CC30	J01XX08	magnesium (different salts in combination)	linezolid	ingen	1
A12CC30	J02AC01	magnesium (different salts in combination)	fluconazole	ingen	8
A12CC30	J02AC04	magnesium (different salts in combination)	posaconazole	ingen	1
A12CC30	L04AA06	magnesium (different salts in combination)	mycophenolic acid	ingen	19
A12CC30	M01AE01	magnesium (different salts in combination)	ibuprofen	mulig	1
A12CC30	N03AX12	magnesium (different salts in combination)	gabapentin	uafklaret	3
B01AA03	B05BA10	warfarin	combinations	uafklaret	2
B01AA03	B05XC	warfarin	Vitamins	mulig	1
B01AA03	C01BD01	warfarin	amiodarone	moderat	3
B01AA03	C07AB03	warfarin	atenolol	ingen	1
B01AA03	C07AB07	warfarin	bisoprolol	ingen	1
B01AA03	C08CA13	warfarin	lercanidipine	ingen	1
B01AA03	C10AA05	warfarin	atorvastatin	ingen	1
B01AA03	D01AE15	warfarin	terbinafine	ingen	1
B01AA03	G03CA03	warfarin	estradiol	mulig	1
B01AA03	H02AB02	warfarin	dexamethasone	mulig	6
B01AA03	H02AB04	warfarin	methylprednisolone	moderat	3
B01AA03	J01CA01	warfarin	ampicillin	moderat	1
B01AA03	J01CR02	warfarin	amoxicillin and enzyme inhibitor	mulig	1
B01AA03	J01DD04	warfarin	ceftriaxone	mulig	2
B01AA03	J01EE01	warfarin	sulfamethoxazole and trimethoprim	moderat	1
B01AA03	J01FA01	warfarin	erythromycin	mulig	2
B01AA03	J01MA02	warfarin	ciprofloxacin	moderat	3
B01AA03	J01MA14	warfarin	moxifloxacin	moderat	1
B01AA03	J01XD01	warfarin	metronidazole	udtalt	6
B01AA03	J01XX08	warfarin	linezolid	mulig	8
B01AA03	J02AC01	warfarin	fluconazole	moderat	2
B01AA03	J04AB02	warfarin	rifampicin	udtalt	1
B01AA03	M01AB05	warfarin	diclofenac	udtalt	4
B01AA03	M01AE01	warfarin	ibuprofen	udtalt	3
B01AA03	M01AX05	warfarin	glucosamine	uafklaret	1
B01AA03	N02BA01	warfarin	acetylsalicylic acid	moderat	1
B01AA03	N02BE01	warfarin	paracetamol	moderat	1
B01AA03	N03AX14	warfarin	levetiracetam	ingen	1
B01AA03	N05BA01	warfarin	diazepam	ingen	2
B01AA03	N06AX21	warfarin	duloxetine	moderat	1
B01AA03	P01AB01	warfarin	metronidazole	udtalt	1
B01AA03	V03AE02	warfarin	sevelamer	ingen	1
B01AB01	B01AC16	heparin	eptifibatide	ingen	8
B01AB01	B01AC24	heparin	ticagrelor	ingen	3
B01AB01	C01BD01	heparin	amiodarone	udtalt	2
B01AB01	N02BA01	heparin	acetylsalicylic acid	moderat	17
B01AB05	B01AC24	enoxaparin	ticagrelor	ingen	10
B01AB05	B01AF01	enoxaparin	rivaroxaban	ingen	1
B01AB05	B01AF02	enoxaparin	apixaban	ingen	2
B01AB10	C01BD01	tinzaparin	amiodarone	udtalt	15

B01AB10	C01DA02	tinzaparin	glyceryl trinitrate	uafklaret	17
B01AC04	B01AC06	clopidogrel	acetylsalicylic acid	moderat	3
B01AC04	J04AB02	clopidogrel	rifampicin	moderat	1
B01AC04	N02BA01	clopidogrel	acetylsalicylic acid	moderat	2
B01AC06	B01AX05	acetylsalicylic acid	fondaparinux	ingen	2
B01AC06	B05BA10	acetylsalicylic acid	combinations	mulig	4
B01AC06	B05BB01	acetylsalicylic acid	electrolytes	ingen	1
B01AC06	B05BB02	acetylsalicylic acid	electrolytes with carbohydrates	ingen	1
B01AC06	C01DA02	acetylsalicylic acid	glyceryl trinitrate	uafklaret	4
B01AC06	C07AB02	acetylsalicylic acid	metoprolol	ingen	1
B01AC06	C09AA01	acetylsalicylic acid	captopril	ringe	1
B01AC06	C10AA05	acetylsalicylic acid	atorvastatin	ingen	4
B01AC06	H02AB07	acetylsalicylic acid	prednisone	ringe	1
B01AC06	H02AB09	acetylsalicylic acid	hydrocortisone	ringe	15
B01AC06	J05AH02	acetylsalicylic acid	oseltamivir	ingen	4
B01AC06	L04AD01	acetylsalicylic acid	ciclosporin	ingen	2
B01AC06	M01AE01	acetylsalicylic acid	ibuprofen	mulig	1
B01AC06	N03AG01	acetylsalicylic acid	valproic acid	moderat	2
B01AC22	C10AA05	prasugrel	atorvastatin	ingen	9
B01AC22	N02AA01	prasugrel	morphine	ingen	2
B01AC24	C10AA05	ticagrelor	atorvastatin	ringe	2
B01AC24	J01FA09	ticagrelor	clarithromycin	udtalt	2
B01AC24	N02AA01	ticagrelor	morphine	mulig	7
B01AC30	B05BB01	combinations	electrolytes	ingen	2
B01AE07	C01BD01	dabigatran etexilate	amiodarone	moderat	1
B01AF01	C10AA05	rivaroxaban	atorvastatin	ingen	1
B01AF01	J02AC01	rivaroxaban	fluconazole	mulig	1
B01AX05	N02BA01	fondaparinux	acetylsalicylic acid	ingen	2
B02AA02	G03CA03	tranexamic acid	estradiol	uafklaret	1
B03AA01	B05BB01	ferrous glycine sulfate	electrolytes	moderat	8
B03AA01	B05XA	ferrous glycine sulfate	Electrolyte solutions	moderat	2
B03AA01	J01MA02	ferrous glycine sulfate	ciprofloxacin	moderat	8
B03AA01	N02BE01	ferrous glycine sulfate	paracetamol	mulig	2
B03AA02	B05BA10	ferrous fumarate	combinations	moderat	3
B03AA02	B05BB01	ferrous fumarate	electrolytes	moderat	1
B03AA02	B05XA	ferrous fumarate	Electrolyte solutions	moderat	20
B03AA02	B05XA31	ferrous fumarate	electrolytes in combination with other drugs	moderat	3
B03AA02	B05XC	ferrous fumarate	Vitamins	ingen	3
B03AA02	J01XX08	ferrous fumarate	linezolid	ingen	1
B03AA02	L04AA06	ferrous fumarate	mycophenolic acid	ingen	2
B03AA02	L04AD01	ferrous fumarate	ciclosporin	mulig	1
B03AA02	L04AD02	ferrous fumarate	tacrolimus	ingen	1
B03AA07	B05BB01	ferrous sulfate	electrolytes	moderat	8
B03AA07	H03AA01	ferrous sulfate	levothyroxine sodium	moderat	1
B03AA07	J01MA02	ferrous sulfate	ciprofloxacin	moderat	2
B03AC	B03XA02	Iron, parenteral preparations	darbepoetin alfa	ingen	2
B03AC	B05BB01	Iron, parenteral preparations	electrolytes	moderat	10
B03AC	J01MA02	Iron, parenteral preparations	ciprofloxacin	moderat	7
B03AC	N02BE01	Iron, parenteral preparations	paracetamol	mulig	4
B05BA01	J01MA02	amino acids	ciprofloxacin	moderat	5
B05BA10	B05XA31	combinations	electrolytes in combination with other drugs	moderat	93
B05BA10	C01AA05	combinations	digoxin	mulig	15
B05BA10	C08CA01	combinations	amlodipine	uafklaret	3
B05BA10	C09AA02	combinations	enalapril	moderat	7
B05BA10	C10AA01	combinations	simvastatin	ingen	5
B05BA10	H03AA01	combinations	levothyroxine sodium	moderat	4
B05BA10	J01MA02	combinations	ciprofloxacin	udtalt	21
B05BA10	J01MA14	combinations	moxifloxacin	moderat	2
B05BA10	J01XX08	combinations	linezolid	ingen	5

B05BA10	J02AC01	combinations	fluconazole	ingen	16
B05BA10	J02AC04	combinations	posaconazole	ingen	4
B05BA10	M01AE01	combinations	ibuprofen	mulig	8
B05BA10	N02BA01	combinations	acetylsalicylic acid	mulig	1
B05BA10	N03AG01	combinations	valproic acid	ringe	3
B05BA10	N03AX12	combinations	gabapentin	uafklaret	6
B05BB01	B05XA31	electrolytes	electrolytes in combination with other drugs	moderat	11
B05BB01	C01AA05	electrolytes	digoxin	mulig	18
B05BB01	C03EA01	electrolytes	hydrochlorothiazide and potassium-sparing agents	moderat	3
B05BB01	C07AB03	electrolytes	atenolol	ingen	1
B05BB01	G03AA07	electrolytes	levonorgestrel and ethinylestradiol	udtalt	3
B05BB01	H03AA01	electrolytes	levothyroxine sodium	moderat	1
B05BB01	J01DD04	electrolytes	ceftriaxone	mulig	63
B05BB01	J01MA02	electrolytes	ciprofloxacin	udtalt	45
B05BB01	J01MA14	electrolytes	moxifloxacin	moderat	19
B05BB01	J01XX08	electrolytes	linezolid	ingen	6
B05BB01	J02AC01	electrolytes	fluconazole	ingen	30
B05BB01	J02AC04	electrolytes	posaconazole	ingen	3
B05BB01	J04AB02	electrolytes	rifampicin	ingen	2
B05BB01	J05AH02	electrolytes	oseltamivir	ingen	28
B05BB01	L04AA06	electrolytes	mycophenolic acid	ingen	20
B05BB01	M01AE01	electrolytes	ibuprofen	mulig	8
B05BB01	N02BA01	electrolytes	acetylsalicylic acid	ingen	6
B05BB01	N03AG01	electrolytes	valproic acid	ringe	27
B05BB01	N03AX12	electrolytes	gabapentin	uafklaret	10
B05BB01	N07BB01	electrolytes	disulfiram	mulig	6
B05BB02	B05XA31	electrolytes with carbohydrates	electrolytes in combination with other drugs	moderat	5
B05BB02	C01AA05	electrolytes with carbohydrates	digoxin	mulig	1
B05BB02	H03AA01	electrolytes with carbohydrates	levothyroxine sodium	moderat	1
B05BB02	J01DD04	electrolytes with carbohydrates	ceftriaxone	mulig	1
B05BB02	J01MA02	electrolytes with carbohydrates	ciprofloxacin	udtalt	12
B05BB02	J02AC01	electrolytes with carbohydrates	fluconazole	ingen	10
B05BB02	M01AE01	electrolytes with carbohydrates	ibuprofen	mulig	2
B05BB02	N03AG01	electrolytes with carbohydrates	valproic acid	ringe	1
B05BB02	N03AX12	electrolytes with carbohydrates	gabapentin	uafklaret	2
B05XA	B05XA31	Electrolyte solutions	electrolytes in combination with other drugs	moderat	19
B05XA	J01MA02	Electrolyte solutions	ciprofloxacin	mulig	53
B05XA06	C09AA02	potassium phosphate, incl. combinations with other potassium salts	enalapril	moderat	3
B05XA31	B05XC	electrolytes in combination with other drugs	Vitamins	ingen	104
B05XA31	H03AA01	electrolytes in combination with other drugs	levothyroxine sodium	moderat	6
B05XA31	J01MA02	electrolytes in combination with other drugs	ciprofloxacin	moderat	20
B05XA31	N02BE01	electrolytes in combination with other drugs	paracetamol	mulig	7
B05XC	C10AA01	Vitamins	simvastatin	uafklaret	4
B05XC	C10AA05	Vitamins	atorvastatin	ingen	2
B05XC	G03CA03	Vitamins	estradiol	udtalt	1
B05XC	J01XX08	Vitamins	linezolid	ingen	9
B05XC	J02AC01	Vitamins	fluconazole	moderat	15
B05XC	L04AD01	Vitamins	ciclosporin	ringe	3
C01AA05	C03CA01	digoxin	furosemide	ingen	1
C01AA05	C03DA01	digoxin	spironolactone	moderat	1
C01AA05	C03EA01	digoxin	hydrochlorothiazide and potassium-sparing agents	ringe	1
C01AA05	C07AG02	digoxin	carvedilol	moderat	1
C01AA05	J01FA01	digoxin	erythromycin	moderat	9
C01AA05	J01FA09	digoxin	clarithromycin	moderat	10
C01AA05	J01MA02	digoxin	ciprofloxacin	mulig	12

C01AA05	J04AB02	digoxin	rifampicin	moderat	1
C01AA05	M01AE01	digoxin	ibuprofen	moderat	1
C01BD01	C03AB01	amiodarone	bendroflumethiazide and potassium	uafklaret	2
C01BD01	C07AB02	amiodarone	metoprolol	moderat	2
C01BD01	C07AG02	amiodarone	carvedilol	mulig	2
C01BD01	C10AA01	amiodarone	simvastatin	udtalt	4
C01BD01	C10AA07	amiodarone	rosuvastatin	mulig	1
C01BD01	J01XD01	amiodarone	metronidazole	uafklaret	46
C01BD01	J04AB02	amiodarone	rifampicin	moderat	2
C01BD01	N05AD01	amiodarone	haloperidol	mulig	10
C01BD01	N06AA09	amiodarone	amitriptyline	mulig	5
C01BD01	N06AB04	amiodarone	citalopram	udtalt	3
C01BD01	P01AB01	amiodarone	metronidazole	uafklaret	3
C01CA06	N02BE01	phenylephrine	paracetamol	mulig	10
C01CA24	N01BB09	epinephrine	ropivacaine	uafklaret	19
C01CA24	N02AA01	epinephrine	morphine	mulig	2
C02CA04	C08CA05	doxazosin	nifedipine	ingen	1
C03AB01	M01AE01	bendroflumethiazide and potassium	ibuprofen	uafklaret	1
C03CA01	J01DD02	furosemide	ceftazidime	mulig	4
C03CA01	J01DD04	furosemide	ceftriaxone	ingen	14
C03CA01	J01GB03	furosemide	gentamicin	mulig	6
C03CA01	M01AE01	furosemide	ibuprofen	uafklaret	1
C03CA01	M01AE02	furosemide	naproxen	uafklaret	1
C03CA01	N02AJ06	furosemide	codeine and paracetamol	ringe	2
C03CA01	N02BE01	furosemide	paracetamol	ringe	2
C03CA01	V03AE02	furosemide	sevelamer	udtalt	7
C03DA01	C09AA01	spironolactone	captopril	moderat	4
C03DA01	J01EE01	spironolactone	sulfamethoxazole and trimethoprim	udtalt	9
C03DA01	J01MA02	spironolactone	ciprofloxacin	mulig	10
C05AA08	J01MA02	fluocortolone	ciprofloxacin	mulig	1
C07AA05	R03AL01	propranolol	fenoterol and ipratropium bromide	moderat	1
C07AB02	C08CA02	metoprolol	felodipine	moderat	1
C07AB02	C08CA05	metoprolol	nifedipine	ingen	3
C07AB02	J04AB02	metoprolol	rifampicin	moderat	1
C07AB02	M01AH01	metoprolol	celecoxib	ingen	1
C07AB02	N02BA01	metoprolol	acetylsalicylic acid	ingen	3
C07AB02	R03AL02	metoprolol	salbutamol and ipratropium bromide	moderat	5
C07AB02	V03AE02	metoprolol	sevelamer	ingen	4
C07AB03	R03AL01	atenolol	fenoterol and ipratropium bromide	moderat	1
C07AB07	R03AL02	bisoprolol	salbutamol and ipratropium bromide	moderat	2
C07AG01	N01BB51	labetalol	bupivacaine, combinations	moderat	5
C07AG01	N01BB52	labetalol	lidocaine, combinations	moderat	4
C08CA01	C09BA03	amlodipine	lisinopril and diuretics	ingen	2
C08CA01	C10AA05	amlodipine	atorvastatin	mulig	2
C08CA01	J01DC02	amlodipine	cefuroxime	ingen	1
C08CA01	L04AD01	amlodipine	ciclosporin	uafklaret	4
C08CA01	L04AD02	amlodipine	tacrolimus	mulig	9
C08CA01	M01AE01	amlodipine	ibuprofen	ringe	1
C08CA01	N02BE01	amlodipine	paracetamol	ingen	1
C08CA02	L04AD01	felodipine	ciclosporin	moderat	8
C08CA02	L04AD02	felodipine	tacrolimus	mulig	7
C08CA05	L04AD02	nifedipine	tacrolimus	mulig	8
C09AA02	N02BA01	enalapril	acetylsalicylic acid	ringe	1
C09AA05	N02BA01	ramipril	acetylsalicylic acid	ringe	1
C09AA05	N02BE01	ramipril	paracetamol	ringe	1
C09BA02	M01AB05	enalapril and diuretics	diclofenac	moderat	2

C09BA02	M01AE01	enalapril and diuretics	ibuprofen	uafklaret	1
C09BA05	M01AE01	ramipril and diuretics	ibuprofen	uafklaret	1
C09BA05	M04AA01	ramipril and diuretics	allopurinol	uafklaret	3
C09CA01	M01AB05	losartan	diclofenac	moderat	1
C09DA01	M01AE01	losartan and diuretics	ibuprofen	uafklaret	1
C10AA01	J01FA01	simvastatin	erythromycin	mulig	8
C10AA01	J01FA09	simvastatin	clarithromycin	udtalt	1
C10AA01	J01MA02	simvastatin	ciprofloxacin	udtalt	2
C10AA01	J01XC01	simvastatin	fusidic acid	udtalt	1
C10AA01	J04AB02	simvastatin	rifampicin	mulig	1
C10AA01	L04AD01	simvastatin	ciclosporin	udtalt	3
C10AA01	N02BE01	simvastatin	paracetamol	uafklaret	1
C10AA01	N03AF01	simvastatin	carbamazepine	moderat	1
C10AA01	N05CD08	simvastatin	midazolam	ringe	1
C10AA05	J01FA01	atorvastatin	erythromycin	mulig	12
C10AA05	J02AC01	atorvastatin	fluconazole	udtalt	3
C10AA05	J04AB02	atorvastatin	rifampicin	mulig	2
C10AA05	N02BA01	atorvastatin	acetylsalicylic acid	ingen	7
C10AA05	N05CD08	atorvastatin	midazolam	ingen	1
C10AA07	J02AC01	rosuvastatin	fluconazole	ingen	1
C10AB04	M01AE01	gemfibrozil	ibuprofen	mulig	1
G03CA03	H02AB04	estradiol	methylprednisolone	mulig	1
G03CA03	N05CD05	estradiol	triazolam	ringe	1
G04BE03	J01MA02	sildenafil	ciprofloxacin	moderat	4
H02AB02	N03AA02	dexamethasone	phenobarbital	moderat	4
H02AB02	N03AF01	dexamethasone	carbamazepine	mulig	1
H02AB02	N05CD05	dexamethasone	triazolam	ingen	60
H02AB04	J01FA01	methylprednisolone	erythromycin	moderat	6
H02AB04	J01FA09	methylprednisolone	clarithromycin	moderat	32
H02AB04	L04AA06	methylprednisolone	mycophenolic acid	uafklaret	27
H02AB04	L04AD01	methylprednisolone	ciclosporin	ingen	24
H02AB04	N05CD05	methylprednisolone	triazolam	ingen	6
H02AB04	N05CD08	methylprednisolone	midazolam	ringe	20
H02AB06	J02AC03	prednisolone	voriconazole	ringe	19
H02AB06	J04AC01	prednisolone	isoniazid	mulig	1
H02AB06	L04AD01	prednisolone	ciclosporin	ingen	10
H02AB06	L04AD02	prednisolone	tacrolimus	mulig	23
H02AB06	N03AA02	prednisolone	phenobarbital	ringe	2
H02AB06	N05CD08	prednisolone	midazolam	ringe	8
H03AA01	J01MA02	levothyroxine sodium	ciprofloxacin	moderat	5
H05BX01	L04AD02	cinacalcet	tacrolimus	uafklaret	1
J01CR02	J05AH02	amoxicillin and enzyme inhibitor	oseltamivir	ingen	1
J01CR02	L01BA01	amoxicillin and enzyme inhibitor	methotrexate	uafklaret	1
J01CR02	M01AB05	amoxicillin and enzyme inhibitor	diclofenac	ringe	1
J01CR05	L04AX03	piperacillin and enzyme inhibitor	methotrexate	uafklaret	4
J01DH02	N03AG01	meropenem	valproic acid	moderat	11
J01EE01	J05AB06	sulfamethoxazole and trimethoprim	ganciclovir	mulig	37
J01EE01	L04AD01	sulfamethoxazole and trimethoprim	ciclosporin	moderat	40
J01FA01	J02AC01	erythromycin	fluconazole	udtalt	31
J01FA01	N05CF01	erythromycin	zopiclone	moderat	3
J01FA09	J02AC01	clarithromycin	fluconazole	ingen	12
J01FA09	N02AA05	clarithromycin	oxycodone	mulig	2
J01FA09	N02AB03	clarithromycin	fentanyl	udtalt	1
J01FA09	N05AH04	clarithromycin	quetiapine	udtalt	1
J01FA09	N05CD08	clarithromycin	midazolam	udtalt	4
J01FA10	J02AC01	azithromycin	fluconazole	ingen	2
J01GB03	J02AA01	gentamicin	amphotericin B	mulig	1
J01GB03	M01AE01	gentamicin	ibuprofen	uafklaret	13
J01MA02	J04AB02	ciprofloxacin	rifampicin	ingen	3
J01MA02	L01AA01	ciprofloxacin	cyclophosphamide	moderat	2

J01MA02	L01BA01	ciprofloxacin	methotrexate	mulig	1
J01MA02	L04AA06	ciprofloxacin	mycophenolic acid	moderat	26
J01MA02	L04AD01	ciprofloxacin	ciclosporin	mulig	38
J01MA02	L04AX03	ciprofloxacin	methotrexate	mulig	2
J01MA02	M01AB05	ciprofloxacin	diclofenac	mulig	7
J01MA02	M03BX02	ciprofloxacin	tizanidine	udtalt	1
J01MA02	N01BB52	ciprofloxacin	lidocaine, combinations	mulig	5
J01MA02	N02BE01	ciprofloxacin	paracetamol	ingen	7
J01MA02	N03AF01	ciprofloxacin	carbamazepine	moderat	7
J01MA02	N05AH02	ciprofloxacin	clozapine	udtalt	3
J01MA02	N05AH03	ciprofloxacin	olanzapine	moderat	8
J01MA02	N05BA01	ciprofloxacin	diazepam	ingen	17
J01MA02	N05CF02	ciprofloxacin	zolpidem	uafklaret	1
J01MA02	R03DA04	ciprofloxacin	theophylline	moderat	5
J01MA02	V03AE02	ciprofloxacin	sevelamer	moderat	6
J01XD01	L04AA06	metronidazole	mycophenolic acid	ringe	7
J01XD01	L04AD01	metronidazole	ciclosporin	moderat	5
J01XD01	L04AD02	metronidazole	tacrolimus	udtalt	4
J01XD01	N03AA02	metronidazole	phenobarbital	ringe	19
J01XD01	N03AF01	metronidazole	carbamazepine	moderat	9
J01XD01	N05AN01	metronidazole	lithium	moderat	7
J01XD01	N05CD08	metronidazole	midazolam	ingen	37
J01XD01	N07BB01	metronidazole	disulfiram	moderat	11
J01XD01	R03AK07	metronidazole	formoterol and budesonide	ingen	9
J01XD01	R03BA02	metronidazole	budesonide	ingen	33
J01XX08	J04AB02	linezolid	rifampicin	ringe	2
J02AC01	J04AB02	fluconazole	rifampicin	moderat	1
J02AC01	J05AE03	fluconazole	ritonavir	ringe	1
J02AC01	L01AA01	fluconazole	cyclophosphamide	mulig	2
J02AC01	L04AD01	fluconazole	ciclosporin	udtalt	16
J02AC01	L04AD02	fluconazole	tacrolimus	udtalt	6
J02AC01	M01AE01	fluconazole	ibuprofen	moderat	1
J02AC01	N01AH01	fluconazole	fentanyl	moderat	27
J02AC01	N02AB03	fluconazole	fentanyl	moderat	5
J02AC01	N05BA01	fluconazole	diazepam	ringe	7
J02AC01	N05CD05	fluconazole	triazolam	moderat	1
J02AC01	N05CD08	fluconazole	midazolam	moderat	16
J02AC01	N05CF02	fluconazole	zolpidem	ingen	1
J02AC01	N06AA09	fluconazole	amitriptyline	moderat	4
J02AC01	N06AA10	fluconazole	nortriptyline	moderat	4
J02AC01	N07BC02	fluconazole	methadone	uafklaret	5
J02AC03	L04AD01	voriconazole	ciclosporin	udtalt	37
J02AC03	N02AA05	voriconazole	oxycodone	moderat	4
J02AC03	N05AD01	voriconazole	haloperidol	mulig	2
J02AC04	J02AX04	posaconazole	caspofungin	ingen	1
J02AC04	L04AD01	posaconazole	ciclosporin	moderat	5
J02AC04	L04AD02	posaconazole	tacrolimus	moderat	2
J02AX04	L04AD01	caspofungin	ciclosporin	ringe	8
J04AB02	J04AC01	rifampicin	isoniazid	moderat	11
J04AB02	J04AK01	rifampicin	pyrazinamide	mulig	35
J04AB02	N02AB03	rifampicin	fentanyl	mulig	1
J04AB02	N02AX02	rifampicin	tramadol	udtalt	1
J04AB02	N05AD01	rifampicin	haloperidol	moderat	3
J04AB02	N05BA01	rifampicin	diazepam	moderat	3
J04AB02	N07BC02	rifampicin	methadone	udtalt	3
J05AB01	N03AG01	aciclovir	valproic acid	uafklaret	31
J05AB06	L04AA06	ganciclovir	mycophenolic acid	ingen	22
J05AB14	L04AA06	valganciclovir	mycophenolic acid	ingen	17
J05AE03	J05AE10	ritonavir	darunavir	mulig	1
J05AH02	N02BE01	oseltamivir	paracetamol	ingen	18

L01AA01	M04AA01	cyclophosphamide	allopurinol	ringe	22
L01BA01	L04AD01	methotrexate	ciclosporin	uafklaret	4
L01BA01	M04AA01	methotrexate	allopurinol	moderat	9
L04AA06	M04AA01	mycophenolic acid	allopurinol	ingen	5
L04AA06	V03AE02	mycophenolic acid	sevelamer	moderat	2
L04AC02	L04AD02	basiliximab	tacrolimus	udtalt	37
L04AD01	M04AA01	ciclosporin	allopurinol	uafklaret	15
L04AD01	N06AB04	ciclosporin	citalopram	ingen	2
M01AB05	N07BC02	diclofenac	methadone	ingen	2
M01AE01	N02AJ06	ibuprofen	codeine and paracetamol	moderat	1
M01AE01	N02BA01	ibuprofen	acetylsalicylic acid	mulig	2
M01AE01	N02BE01	ibuprofen	paracetamol	moderat	1
M01AE01	N05BA01	ibuprofen	diazepam	uafklaret	3
M01AE01	V04CX	ibuprofen	Other diagnostic agents	moderat	2
M01AE02	N05BA01	naproxen	diazepam	ingen	1
M01AH01	N02AX02	celecoxib	tramadol	ingen	1
M03BB03	N05CD08	chlorzoxazone	midazolam	ringe	2
N01AH01	N01AX10	fentanyl	propofol	mulig	59
N01AH01	N05CD08	fentanyl	midazolam	udtalt	74
N01AH01	N06AB04	fentanyl	citalopram	mulig	2
N01AH06	N01AX10	remifentanyl	propofol	moderat	87
N01AX10	N02AX02	propofol	tramadol	ingen	3
N01AX10	N05CD08	propofol	midazolam	uafklaret	6
N01BB02	N02AA01	lidocaine	morphine	mulig	2
N01BB51	N02AA01	bupivacaine, combinations	morphine	mulig	4
N01BB52	N02AA01	lidocaine, combinations	morphine	mulig	5
N01BB52	N02AA51	lidocaine, combinations	morphine, combinations	mulig	16
N01BB53	N02AA01	mepivacaine, combinations	morphine	mulig	4
N02AA01	N03AX12	morphine	gabapentin	mulig	1
N02AA01	N05AD01	morphine	haloperidol	uafklaret	1
N02AA01	N05CD08	morphine	midazolam	udtalt	18
N02AA51	N03AX12	morphine, combinations	gabapentin	mulig	37
N02AB03	N05AD01	fentanyl	haloperidol	uafklaret	3
N02AB03	N05CD08	fentanyl	midazolam	udtalt	4
N02BE01	N03AA02	paracetamol	phenobarbital	mulig	5
N02CX02	N06AA09	clonidine	amitriptyline	udtalt	4
N03AA02	P01AB01	phenobarbital	metronidazole	ringe	1
N03AE01	N03AF01	clonazepam	carbamazepine	ringe	2
N03AE01	N03AG01	clonazepam	valproic acid	ringe	1
N03AF01	N03AG01	carbamazepine	valproic acid	moderat	1
N03AF01	N03AX14	carbamazepine	levetiracetam	uafklaret	2
N03AF01	N05AD01	carbamazepine	haloperidol	moderat	2
N03AF02	N03AX14	oxcarbazepine	levetiracetam	ingen	4
N03AG01	N03AX14	valproic acid	levetiracetam	ingen	17
N03AG01	N03AX18	valproic acid	lacosamide	ingen	1
N03AG01	N05BA01	valproic acid	diazepam	mulig	5
N03AX09	N03AX11	lamotrigine	topiramate	ingen	3
N03AX09	N03AX14	lamotrigine	levetiracetam	ingen	3
N03AX12	N03AX14	gabapentin	levetiracetam	ingen	1
N04BA02	N04BD01	levodopa and decarboxylase inhibitor	selegiline	moderat	1
N04BA02	N04BX02	levodopa and decarboxylase inhibitor	entacapone	udtalt	3
N05AH04	N07BC02	quetiapine	methadone	ingen	1
N05BA01	N07BC02	diazepam	methadone	mulig	1
N05CD05	N06AB04	triazolam	citalopram	ingen	4
N06AX16	N07BC02	venlafaxine	methadone	mulig	2
N06DA04	N06DX01	galantamine	memantine	ingen	1
P01AB01	R03AK07	metronidazole	formoterol and budesonide	ingen	1
P01AB01	R03BA02	metronidazole	budesonide	ingen	3
R03AK07	S01ED51	formoterol and budesonide	timolol, combinations	moderat	1
S01ED51	S01EE05	timolol, combinations	tafluprost	ingen	2

Supplemental Table 4: *pADE counts for all combinations from Rodríguez et al. that met cohort and privacy restrictions (min. 5 patients). pADEs were summed across combinations and were only included if the HR in question was >3 and the FDR corrected pval <0.05.*

ATC1	ATC2	ATC1 Name	ATC2 Name	Count
J01CA01	H02AB02	ampicillin	dexamethasone	100
H01BA04	B02AA02	terlipressin	tranexamic acid	86
H01BA04	A11DA01	terlipressin	thiamine (vit B1)	82
J01CR05	H02AB09	piperacillin and enzyme inhibitor	hydrocortisone	80
J01XD01	J01CR05	metronidazole	piperacillin and enzyme inhibitor	80
H01BA04	B05AA01	terlipressin	albumin	77
H01BA04	A02BC02	terlipressin	pantoprazole	75
J01CR05	A12AA07	piperacillin and enzyme inhibitor	calcium chloride	74
B05AA01	A11DA01	albumin	thiamine (vit B1)	68
J01CF01	B02AA02	dicloxacillin	tranexamic acid	68
B05AA01	A06AD11	albumin	lactulose	57
R03AK04	A11DA01	salbutamol and sodium cromoglicate	thiamine (vit B1)	54
B05BA03	A11DA01	carbohydrates	thiamine (vit B1)	49
R03AK04	B01AB04	salbutamol and sodium cromoglicate	dalteparin	48
B05BB01	A10AB05	electrolytes	insulin aspart	47
J01XD01	A10AB05	metronidazole	insulin aspart	47
R03AK04	A12CB01	salbutamol and sodium cromoglicate	zinc sulfate	44
R03AK04	B05XA05	salbutamol and sodium cromoglicate	magnesium sulfate	44
J01MA02	J01CR05	ciprofloxacin	piperacillin and enzyme inhibitor	44
B05AA01	A02BC02	albumin	pantoprazole	43
C01CA03	B01AB04	norepinephrine	dalteparin	43
B02AA02	A11DA01	tranexamic acid	thiamine (vit B1)	42
A12CB01	A06AD04	zinc sulfate	magnesium sulfate	41
J01CR05	A10AB05	piperacillin and enzyme inhibitor	insulin aspart	41
J01CR05	A11DA01	piperacillin and enzyme inhibitor	thiamine (vit B1)	41
B05BB01	A04AA01	electrolytes	ondansetron	40
J01MA02	A11DA01	ciprofloxacin	thiamine (vit B1)	39
J01CR05	B05BA03	piperacillin and enzyme inhibitor	carbohydrates	38
B05BB01	A11DA01	electrolytes	thiamine (vit B1)	37
B01AB04	A12CB01	dalteparin	zinc sulfate	37
H01BA04	C03CA01	terlipressin	furosemide	37
J01DH02	A04AD05	meropenem	metopimazine	36
J01DH02	A12CB01	meropenem	zinc sulfate	35
C03DA01	B05AA01	spironolactone	albumin	35
B05BA03	A03FA01	carbohydrates	metoclopramide	34
A12CB01	A06AB08	zinc sulfate	sodium picosulfate	34
C03CA01	B05AA01	furosemide	albumin	34
N02BE01	B05AA01	paracetamol	albumin	34
R03AL02	J01CR05	salbutamol and ipratropium bromide	piperacillin and enzyme inhibitor	34
R03AK04	A06AD65	salbutamol and sodium cromoglicate	macrogol, combinations	32
B01AB04	A10AB05	dalteparin	insulin aspart	32
H02AB02	B05BA03	dexamethasone	carbohydrates	31
A10AB05	A04AA01	insulin aspart	ondansetron	30
B01AB04	A06AG10	dalteparin	docusate sodium, incl. combinations	30
A11DA01	A10AB05	thiamine (vit B1)	insulin aspart	30
N01BB53	N01BB51	mepivacaine, combinations	bupivacaine, combinations	30
A12AA02	A02BC02	calcium glubionate	pantoprazole	29
R03AL01	A12CB01	fenoterol and ipratropium bromide	zinc sulfate	28

J01CR05	C01DA02	piperacillin and enzyme inhibitor	glyceryl trinitrate	27
N01BB53	N01BB01	mepivacaine, combinations	bupivacaine	27
N07BC02	J01CR05	methadone	piperacillin and enzyme inhibitor	26
N06BC01	J01DH02	caffeine	meropenem	26
B05XB02	A11GA01	alanyl glutamine	ascorbic acid (vit C)	25
J05AB01	B05BA10	aciclovir	combinations	25
B05BB01	A02BC02	electrolytes	pantoprazole	24
A12AA06	A11DA01	calcium lactate gluconate	thiamine (vit B1)	24
B05BA03	A02BC02	carbohydrates	pantoprazole	23
B05BA03	A06AD11	carbohydrates	lactulose	23
A11DA01	A06AB08	thiamine (vit B1)	sodium picosulfate	22
A11GA01	A11AA03	ascorbic acid (vit C)	multivitamins and other minerals, incl. combinations	22
R03AK04	A11AA03	salbutamol and sodium cromoglicate	multivitamins and other minerals, incl. combinations	22
B03AA01	B01AB04	ferrous glycine sulfate	dalteparin	22
R03AL01	A10AB01	fenoterol and ipratropium bromide	insulin (human)	21
C01CA03	A10AB05	norepinephrine	insulin aspart	21
J01CE01	B02AA02	benzylpenicillin	tranexamic acid	21
N01BB51	J01XD01	bupivacaine, combinations	metronidazole	21
R03AL02	A12CB01	salbutamol and ipratropium bromide	zinc sulfate	20
B05XA01	B05BB01	potassium chloride	electrolytes	20
N01BB51	B05BB01	bupivacaine, combinations	electrolytes	20
R03AL01	J01CR05	fenoterol and ipratropium bromide	piperacillin and enzyme inhibitor	20
N02AB01	A02BC02	ketobemidone	pantoprazole	19
J01XD01	A09AA02	metronidazole	multienzymes (lipase, protease etc.)	18
R03AK04	A10AB05	salbutamol and sodium cromoglicate	insulin aspart	18
B05BA10	A11DA01	combinations	thiamine (vit B1)	18
L04AD02	A12CC30	tacrolimus	magnesium (different salts in combination)	18
H03AA01	B05XA05	levothyroxine sodium	magnesium sulfate	18
N03AX16	J01CR05	pregabalin	piperacillin and enzyme inhibitor	18
N02BE01	J06BA02	paracetamol	immunoglobulins, normal human, for intravascular adm.	18
L04AD01	A12CC30	ciclosporin	magnesium (different salts in combination)	17
H02AB04	B05AA01	methylprednisolone	albumin	17
N01BB51	H01BB02	bupivacaine, combinations	oxytocin	17
R03AK04	J01CE01	salbutamol and sodium cromoglicate	benzylpenicillin	17
J06BA02	J01FF01	immunoglobulins, normal human, for intravascular adm.	clindamycin	17
R03AL01	A11DA01	fenoterol and ipratropium bromide	thiamine (vit B1)	16
J05AB14	A12CC30	valganciclovir	magnesium (different salts in combination)	16
C03DA01	B05BA03	spironolactone	carbohydrates	16
L04AA06	J01CR05	mycophenolic acid	piperacillin and enzyme inhibitor	16
R03AC02	J01CR05	salbutamol	piperacillin and enzyme inhibitor	16
L04AD02	J06BA02	tacrolimus	immunoglobulins, normal human, for intravascular adm.	16
B05AA01	A04AA01	albumin	ondansetron	15
R03AK04	A12CC10	salbutamol and sodium cromoglicate	magnesium oxide	15
J02AC03	A12CC30	voriconazole	magnesium (different salts in combination)	15
V03AE01	C03CA01	polystyrene sulfonate	furosemide	15
N05AH04	J01CR05	quetiapine	piperacillin and enzyme inhibitor	15
J01CR05	A02BC02	piperacillin and enzyme inhibitor	pantoprazole	14
B05BA10	A04AA01	combinations	ondansetron	14
J01CR05	A09AA02	piperacillin and enzyme inhibitor	multienzymes (lipase, protease etc.)	14
B05BB01	A11CC03	electrolytes	alfacalcidol	14

J01DH02	A12CC30	meropenem	magnesium (different salts in combination)	14
A12CB01	A11DA01	zinc sulfate	thiamine (vit B1)	13
B05XB02	B05BA10	alanyl glutamine	combinations	13
N02AB03	B05BA10	fentanyl	combinations	13
J01DH02	H03AA01	meropenem	levothyroxine sodium	13
J01CF01	J01CE01	dicloxacillin	benzylpenicillin	13
N05AF03	J01CR05	chlorprothixene	piperacillin and enzyme inhibitor	13
N02BE01	N02AB01	paracetamol	ketobemidone	13
N02AA05	A10AB05	oxycodone	insulin aspart	12
B05BA10	B01AB04	combinations	dalteparin	12
R03AL01	B01AB04	fenoterol and ipratropium bromide	dalteparin	12
C03CA01	B05BA03	furosemide	carbohydrates	12
N06AX16	B05BB01	venlafaxine	electrolytes	12
N02AA01	J01CR05	morphine	piperacillin and enzyme inhibitor	12
R03BB04	J01XD01	tiotropium bromide	metronidazole	12
N06BC01	A07FA01	caffeine	lactic acid producing organisms	11
A12CC10	A12CB02	magnesium oxide	zinc gluconate	11
C03CA01	B05BA10	furosemide	combinations	11
M03BB03	C08CA06	chlorzoxazone	nimodipine	11
R03AL02	H03AA01	salbutamol and ipratropium bromide	levothyroxine sodium	11
J01DH02	A10AD05	meropenem	insulin aspart	10
R03AL01	B01AB10	fenoterol and ipratropium bromide	tinzaparin	10
N01BB51	J01CA01	bupivacaine, combinations	ampicillin	10
N01BB09	J01CF01	ropivacaine	dicloxacillin	10
V03AE01	L04AA06	polystyrene sulfonate	mycophenolic acid	10
A12AA06	A02BC02	calcium lactate gluconate	pantoprazole	9
B05BA10	A02BC02	combinations	pantoprazole	9
A12BA01	A12AA06	potassium chloride	calcium lactate gluconate	9
C03CA01	A12AA06	furosemide	calcium lactate gluconate	9
N03AG01	B01AB05	valproic acid	enoxaparin	9
C08CA06	B02AA02	nimodipine	tranexamic acid	9
N06AB04	B05AA01	citalopram	albumin	9
N05CF01	B05BA10	zopiclone	combinations	9
N02BE01	B05BB01	paracetamol	electrolytes	9
J01CR05	C01AA05	piperacillin and enzyme inhibitor	digoxin	9
J01CF01	C01CA24	dicloxacillin	epinephrine	9
H03AA01	C03BA08	levothyroxine sodium	metolazone	9
N06AX21	J01CR05	duloxetine	piperacillin and enzyme inhibitor	9
N02AB01	J01DH02	ketobemidone	meropenem	9
V03AE01	L04AD02	polystyrene sulfonate	tacrolimus	9
R03AL01	A02BC05	fenoterol and ipratropium bromide	esomeprazole	8
B05BA10	A03FA01	combinations	metoclopramide	8
A12CC30	A06AD11	magnesium (different salts in combination)	lactulose	8
B01AB10	A10AB05	tinzaparin	insulin aspart	8
A12AA06	A12AA04	calcium lactate gluconate	calcium carbonate	8
B05BB01	A12AA04	electrolytes	calcium carbonate	8
B01AB05	A12CC30	enoxaparin	magnesium (different salts in combination)	8
C07AA05	B05AA01	propranolol	albumin	8
H03AA01	B05BA03	levothyroxine sodium	carbohydrates	8
J01CR05	B05BB02	piperacillin and enzyme inhibitor	electrolytes with carbohydrates	8
R03BB01	H02AB06	ipratropium bromide	prednisolone	8
L03AA02	J01EE01	filgrastim	sulfamethoxazole and trimethoprim	8
N01BB51	N01BB02	bupivacaine, combinations	lidocaine	8
A12AA04	A10AD05	calcium carbonate	insulin aspart	7

B05BB01	A10AE04	electrolytes	insulin glargine	7
J01CR05	A10AE05	piperacillin and enzyme inhibitor	insulin detemir	7
B05BA10	A11AA03	combinations	multivitamins and other minerals, incl. combinations	7
J01XD01	A11AA03	metronidazole	multivitamins and other minerals, incl. combinations	7
A12CC30	A11DA01	magnesium (different salts in combination)	thiamine (vit B1)	7
B03BB01	A11DA01	folic acid	thiamine (vit B1)	7
S01AA13	A11DA01	fusidic acid	thiamine (vit B1)	7
N02BE01	A12CB01	paracetamol	zinc sulfate	7
C03CA01	A12CC30	furosemide	magnesium (different salts in combination)	7
B05BA03	B01AC06	carbohydrates	acetylsalicylic acid	7
R03BB04	B02AA02	tiotropium bromide	tranexamic acid	7
N02BE01	B05BA10	paracetamol	combinations	7
N02BE01	J01CR05	paracetamol	piperacillin and enzyme inhibitor	7
V03AE01	N02BE01	polystyrene sulfonate	paracetamol	7
B05BB01	A04AD12	electrolytes	aprepitant	6
J01XD01	A05AA02	metronidazole	ursodeoxycholic acid	6
A10AB05	A06AB08	insulin aspart	sodium picosulfate	6
A12CC30	A10AB05	magnesium (different salts in combination)	insulin aspart	6
J01CF01	A10AB05	dicloxacillin	insulin aspart	6
N02AA01	A10AB05	morphine	insulin aspart	6
V03AE01	A10BA02	polystyrene sulfonate	metformin	6
N02AB01	B01AB10	ketobemidone	tinzaparin	6
N02AA05	B05BA10	oxycodone	combinations	6
C03CA01	B05BB01	furosemide	electrolytes	6
L01BA01	B05BB01	methotrexate	electrolytes	6
J01CR05	C03CA01	piperacillin and enzyme inhibitor	furosemide	6
V03AE01	C08CA01	polystyrene sulfonate	amlodipine	6
J01CR05	C08CA13	piperacillin and enzyme inhibitor	lercanidipine	6
N01BB51	G02AD06	bupivacaine, combinations	misoprostol	6
M03BX01	J01CR05	baclofen	piperacillin and enzyme inhibitor	6
N02AB01	J01MA02	ketobemidone	ciprofloxacin	6
M05BA04	J01XD01	alendronic acid	metronidazole	6
N01BB51	N01BB01	bupivacaine, combinations	bupivacaine	6
A12CC30	A02BC02	magnesium (different salts in combination)	pantoprazole	5
J01CR05	A02BC03	piperacillin and enzyme inhibitor	lansoprazole	5
L04AD01	A04AD05	ciclosporin	metopimazine	5
C09DA01	A06AG10	losartan and diuretics	docusate sodium, incl. combinations	5
B05BA10	A07DA03	combinations	loperamide	5
A11DA01	A09AA02	thiamine (vit B1)	multienzymes (lipase, protease etc.)	5
B01AB10	A09AA02	tinzaparin	multienzymes (lipase, protease etc.)	5
J01DC02	A10AB05	cefuroxime	insulin aspart	5
B01AB05	A10AD05	enoxaparin	insulin aspart	5
L04AA06	A10AD05	mycophenolic acid	insulin aspart	5
B01AB10	A11GA01	tinzaparin	ascorbic acid (vit C)	5
N02BE01	A12AA06	paracetamol	calcium lactate gluconate	5
C03DA01	A12CC30	spironolactone	magnesium (different salts in combination)	5
N02AA59	B01AB04	codeine, combinations excl. psycholeptics	dalteparin	5
M03BB03	B02AA02	chlorzoxazone	tranexamic acid	5
C07AB02	B05BA03	metoprolol	carbohydrates	5
N02BE01	B05BA03	paracetamol	carbohydrates	5
C07AB02	B05BA10	metoprolol	combinations	5
C09CA01	B05BA10	losartan	combinations	5
N02AA01	B05BA10	morphine	combinations	5

J06BA02	C03CA01	immunoglobulins, normal human, for intravascular adm.	furosemide	5
J01CA01	H03AA01	ampicillin	levothyroxine sodium	5
M04AA01	J01CR05	allopurinol	piperacillin and enzyme inhibitor	5
N06AA09	J01CR05	amitriptyline	piperacillin and enzyme inhibitor	5
S01ED51	J01CR05	timolol, combinations	piperacillin and enzyme inhibitor	5
A10AB05	A02BC02	insulin aspart	pantoprazole	4
A12CC30	A03FA01	magnesium (different salts in combination)	metoclopramide	4
B01AB05	A10AB05	enoxaparin	insulin aspart	4
C10AA05	A10AB05	atorvastatin	insulin aspart	4
B05BA10	A10BA02	combinations	metformin	4
A11DA01	A11AA03	thiamine (vit B1)	multivitamins and other minerals, incl. combinations	4
A12CC30	A11CC03	magnesium (different salts in combination)	alfacalcidol	4
A12CC30	A11CC05	magnesium (different salts in combination)	colecalfiferol	4
V03AE01	B01AC06	polystyrene sulfonate	acetylsalicylic acid	4
J01CR05	B03XA02	piperacillin and enzyme inhibitor	darbepoetin alfa	4
C09AA05	B05BA10	ramipril	combinations	4
R03BB04	B05BA10	tiotropium bromide	combinations	4
J01CR05	C07AB07	piperacillin and enzyme inhibitor	bisoprolol	4
J01CR05	C08CA02	piperacillin and enzyme inhibitor	felodipine	4
M03BX02	J01CR05	tizanidine	piperacillin and enzyme inhibitor	4
N03AX09	J01CR05	lamotrigine	piperacillin and enzyme inhibitor	4
N04BC05	J01CR05	pramipexole	piperacillin and enzyme inhibitor	4
N06AB06	J01CR05	sertraline	piperacillin and enzyme inhibitor	4
B05BB02	A04AD12	electrolytes with carbohydrates	aprepitant	3
A06AG10	A06AB08	docusate sodium, incl. combinations	sodium picosulfate	3
A10AB05	A06AD11	insulin aspart	lactulose	3
N01BB09	A06AD11	ropivacaine	lactulose	3
A10AB05	A06AD65	insulin aspart	macrogol, combinations	3
B03AA01	A06AD65	ferrous glycine sulfate	macrogol, combinations	3
N01BB51	A06AG01	bupivacaine, combinations	sodium phosphate	3
A12CA01	A07FA01	sodium chloride	lactic acid producing organisms	3
A11CC05	A10AB05	colecalfiferol	insulin aspart	3
J01CF01	A10AC01	dicloxacillin	insulin (human)	3
J01CF05	A10AD05	flucloxacillin	insulin aspart	3
B01AB04	A11AA03	dalteparin	multivitamins and other minerals, incl. combinations	3
J01CF01	A11DA01	dicloxacillin	thiamine (vit B1)	3
N05AD01	A12CC30	haloperidol	magnesium (different salts in combination)	3
N07BA01	A12CC30	nicotine	magnesium (different salts in combination)	3
D07AB02	B01AB04	hydrocortisone butyrate	dalteparin	3
M03BB03	B01AB10	chlorzoxazone	tinzaparin	3
J01CF01	B03XA02	dicloxacillin	darbepoetin alfa	3
C10AA01	B05BA03	simvastatin	carbohydrates	3
C09DA01	B05BA10	losartan and diuretics	combinations	3
R03AK06	B05BA10	salmeterol and fluticasone	combinations	3
C07AB07	B05BB01	bisoprolol	electrolytes	3
M03BB03	B05BB01	chlorzoxazone	electrolytes	3
J05AB01	B05XB02	aciclovir	alanyl glutamine	3
J01XD01	D07AB02	metronidazole	hydrocortisone butyrate	3
J01GB03	H03AA01	gentamicin	levothyroxine sodium	3
L04AX01	J01CR05	azathioprine	piperacillin and enzyme inhibitor	3
N04BA02	J01CR05	levodopa and decarboxylase inhibitor	piperacillin and enzyme inhibitor	3
N05CF02	J01CR05	zolpidem	piperacillin and enzyme inhibitor	3

R03AC03	J01CR05	terbutaline	piperacillin and enzyme inhibitor	3
R03AC18	J01CR05	indacaterol	piperacillin and enzyme inhibitor	3
R03AK06	J01CR05	salmeterol and fluticasone	piperacillin and enzyme inhibitor	3
M05BA04	J01DH02	alendronic acid	meropenem	3
N02AG02	L04AD02	ketobemidone and antispasmodics	tacrolimus	3
A09AA02	A03FA01	multienzymes (lipase, protease etc.)	metoclopramide	2
B05BB02	A03FA01	electrolytes with carbohydrates	metoclopramide	2
N01BB09	A06AB02	ropivacaine	bisacodyl	2
R03AC18	A06AB02	indacaterol	bisacodyl	2
N02BE01	A06AG10	paracetamol	docusate sodium, incl. combinations	2
R03AL01	A07AA09	fenoterol and ipratropium bromide	vancomycin	2
C03DA01	A09AA02	spironolactone	multienzymes (lipase, protease etc.)	2
A10AC01	A10AB01	insulin (human)	insulin (human)	2
J01CF05	A10AB05	flucloxacillin	insulin aspart	2
N02AB03	A10AB05	fentanyl	insulin aspart	2
R03AL01	A10AC01	fenoterol and ipratropium bromide	insulin (human)	2
J01GB03	A10AD05	gentamicin	insulin aspart	2
R03AL02	A10AE04	salbutamol and ipratropium bromide	insulin glargine	2
B01AC06	A10BX07	acetylsalicylic acid	NA	2
N02BE01	A12CC30	paracetamol	magnesium (different salts in combination)	2
N05AA02	B01AB04	levomepromazine	dalteparin	2
H03AA01	B02AA02	levothyroxine sodium	tranexamic acid	2
J01CR05	B03AA07	piperacillin and enzyme inhibitor	ferrous sulfate	2
J01CR05	B03BB01	piperacillin and enzyme inhibitor	folic acid	2
R03AL01	C01AA05	fenoterol and ipratropium bromide	digoxin	2
H03AA01	C03DA01	levothyroxine sodium	spironolactone	2
J01GB03	C09AA02	gentamicin	enalapril	2
J01CR05	C09BA02	piperacillin and enzyme inhibitor	enalapril and diuretics	2
J01CR05	H03BB02	piperacillin and enzyme inhibitor	thiamazole	2
N03AX16	J01CF01	pregabalin	dicloxacillin	2
N06AB04	J01CF01	citalopram	dicloxacillin	2
N07BC02	J01CF01	methadone	dicloxacillin	2
P01BC01	J01CR05	quinine	piperacillin and enzyme inhibitor	2
R03AK07	J01CR05	formoterol and budesonide	piperacillin and enzyme inhibitor	2
L02BB03	J01XD01	bicalutamide	metronidazole	2
R05CB01	N02BE01	acetylcysteine	paracetamol	2
A11AA03	A02AA04	multivitamins and other minerals, incl. combinations	magnesium hydroxide	1
R03BB04	A02BC05	tiotropium bromide	esomeprazole	1
B05XA03	A05AA02	sodium chloride	ursodeoxycholic acid	1
C09AA10	A06AB02	trandolapril	bisacodyl	1
M03BB03	A06AB02	chlorzoxazone	bisacodyl	1
A11AA03	A06AB08	multivitamins and other minerals, incl. combinations	sodium picosulfate	1
B03BB01	A06AD65	folic acid	macrogol, combinations	1
J01CF01	A06AG10	dicloxacillin	docusate sodium, incl. combinations	1
N07BA01	A06AG10	nicotine	docusate sodium, incl. combinations	1
A10AB05	A07AA02	insulin aspart	nystatin	1
A10AB05	A07AA09	insulin aspart	vancomycin	1
A12CC30	A07DA03	magnesium (different salts in combination)	loperamide	1
A10AD05	A10AB05	insulin aspart	insulin aspart	1
B01AX05	A10AB05	fondaparinux	insulin aspart	1
J01DC02	A10AD05	cefuroxime	insulin aspart	1
J01CF01	A10AE04	dicloxacillin	insulin glargine	1
J01CR05	A10AE04	piperacillin and enzyme inhibitor	insulin glargine	1
R03AL01	A10AE04	fenoterol and ipratropium bromide	insulin glargine	1

R06AD02	A10AE04	promethazine	insulin glargine	1
R03AL01	A10AE05	fenoterol and ipratropium bromide	insulin detemir	1
B01AB04	A10BB12	dalteparin	glimepiride	1
B01AC06	A12AA06	acetylsalicylic acid	calcium lactate gluconate	1
A12CC30	A12BA01	magnesium (different salts in combination)	potassium chloride	1
B03AA01	A12BA01	ferrous glycine sulfate	potassium chloride	1
J01CR05	A12BA01	piperacillin and enzyme inhibitor	potassium chloride	1
C07AB02	A12CC30	metoprolol	magnesium (different salts in combination)	1
C09AA05	A12CC30	ramipril	magnesium (different salts in combination)	1
C10AA01	A12CC30	simvastatin	magnesium (different salts in combination)	1
C10AA05	A12CC30	atorvastatin	magnesium (different salts in combination)	1
N02AX02	A12CC30	tramadol	magnesium (different salts in combination)	1
N06AB06	A12CC30	sertraline	magnesium (different salts in combination)	1
R03BB04	A12CC30	tiotropium bromide	magnesium (different salts in combination)	1
M05BA04	B01AA03	alendronic acid	warfarin	1
B03AA02	B01AB04	ferrous fumarate	dalteparin	1
M03BX01	B01AB10	baclofen	tinzaparin	1
N01BB09	B01AB10	ropivacaine	tinzaparin	1
N05CH01	B01AB10	melatonin	tinzaparin	1
N06BA04	B01AB10	methylphenidate	tinzaparin	1
H03AA01	B01AF01	levothyroxine sodium	rivaroxaban	1
H03AA01	B01AX05	levothyroxine sodium	fondaparinux	1
J01GB03	B03AA01	gentamicin	ferrous glycine sulfate	1
N02BE01	B05BB02	paracetamol	electrolytes with carbohydrates	1
B05XA06	B05XA01	potassium phosphate, incl. combinations with other potassium salts	potassium chloride	1
L04AD01	B05XB02	ciclosporin	alanyl glutamine	1
C10AA05	C01DA14	atorvastatin	isosorbide mononitrate	1
J01CR05	C08DB01	piperacillin and enzyme inhibitor	diltiazem	1
J01CR05	C10AA05	piperacillin and enzyme inhibitor	atorvastatin	1
J01CR05	C10AA07	piperacillin and enzyme inhibitor	rosuvastatin	1
N06BC01	D01AC02	caffeine	miconazole	1
J01CR05	G03CA03	piperacillin and enzyme inhibitor	estradiol	1
J01CF01	G04CA02	dicloxacillin	tamsulosin	1
J01CR05	H03AA01	piperacillin and enzyme inhibitor	levothyroxine sodium	1
J01DC02	H03AA01	cefuroxime	levothyroxine sodium	1
J01XA01	H03AA01	vancomycin	levothyroxine sodium	1
N06DA02	J01CA01	donepezil	ampicillin	1
R03AK07	J01CE01	formoterol and budesonide	benzylpenicillin	1
N05AN01	J01CF01	lithium	dicloxacillin	1
N06AB04	J01CR05	citalopram	piperacillin and enzyme inhibitor	1
N06AX11	J01CR05	mirtazapine	piperacillin and enzyme inhibitor	1
R03BB04	J01CR05	tiotropium bromide	piperacillin and enzyme inhibitor	1
L02BB03	J01GB03	bicalutamide	gentamicin	1
M03BB03	M01AX05	chlorzoxazone	glucosamine	1
N02BE01	N02AG02	paracetamol	ketobemidone and antispasmodics	1
R05CB01	R03AK06	acetylcysteine	salmeterol and fluticasone	1