

Prevalence of drug interactions in hospitalized elderly patients: a systematic review

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Supplementary Table 3: Number of patients with interaction, number of DDI per patient with at least one DDI, drugs or drug classes mostly involved with DDI and drug combinations mostly involved with DDI. In cases which prevalence were described, we reported the three drugs mostly involved with drug interactions or the three drug combinations (or drug classes) mostly involved with DDI. ACE: angiotensin-converting enzyme. NA: not available. NSAID: non-steroidal anti-inflammatory drugs. PPI: proton-pump inhibitors.

First autor	# of patients with interactions	# of DDI per patient with interaction	Drugs or drug classes mostly involved with DDI	Drug combinations mostly involved with DDI
Barak-Tsarfir O, et al (61)	Unclear: around 56 patients	NA	NA	NA
Blix HS, et al (29)	70 (evaluated only serious or contraindicated DDI)	NA	Warfarin; digitoxin; prednisolone antithrombotic agents; non-steroidal anti-inflammatory agents; angiotensin converting enzyme inhibitors	N/A
Castilho ECD (30)	NA	NA	NA	Serious: chlorpromazine + promethazine; chlorpromazine + haloperidol; haloperidol + promethazine; diazepam + phenobarbital; risperidone + haloperidol; carbamazepine + ketoconazole; carbamazepine + chlorpromazine; haloperidol + ketoconazole; chlorpromazine + ketoconazole; chlorpromazine + sodium phosphate. Contraindicated: ketoconazole + simvastatin; ketoconazole + amiodarone; chlorpromazine + metoclopramide; promethazine + metoclopramide; ketoconazole

				+ fluconazole; ziprasidone + chlorpromazine; ziprasidone + haloperidol; biperiden + potassium chloride; + risperidone metoclopramide; citalopram + ketoconazole; citalopram + selegiline; carbamazepine + selegiline; amitriptyline + ziprasidone; fluconazole + haloperidol; fluconazole + ziprasidone
Chahin RC (31)	83	NA	NA	NA
Correia LM, et al (32)	NA	NA	NA	Aspirin + dipyridamol; clopidogrel + fluoxetine; diazepam + morphine; clopidogrel + omeprazole; diazepam + fluoxetine; diltiazem + phenytoin.
Costa, SC (33)	144	4.5	Dipyrrone; captopril; furosemide; metoclopramide; propranolol.	Dipyrrone + captopril; dipyrrone+furosemide; digoxin+metoclopramide.
Cuentro VS (34)	NA	8.6	Aspirin; captopril; enoxaparin; furosemide; insulin; spironolactone.	Captopril + insulin; captopril + enoxaparin; captopril + spironolactone.
de Oliveira, LR (42)	NA	NA	NA	Allopurinol + hydrochlorothiazide; potassium chloride + enalapril; potassium chloride + spironolactone; digoxin + aluminum dioxide; digoxine + amiodarone; digoxin + enalapril / digoxin + furosemide; digoxin + metoclopramide; enalapril + spironolactone; furosemide + amikacyn + furosemide + gentamicin; haloperidol + promethazine; metoclopramide + venlafaxine; omeprazole + phenytoin; omeprazole + diazepam.
Danisha P, et al (36)	200	2.95	NA	NA
Devarapalli P et al (37)	58	1.35	NA	Albuterol + doxofylline; albuterol + digoxin; amikacin + furosemide; aspirin + diclofenac.
Doan J, et al (15)	221	NA	NA	NA
dos Santos RM, et al (35)	NA	NA	NA	Captopril + dipyrrone; dipyrrone + insulin; digoxin + furosemide; captopril + digoxin; captopril + spironolactone; dipyrrone + glyburide ; dipyrrone + metoclopramide
Egger T, et al (38)	NA	NA	NA	NA
George AS, et al (39)	659	3.022	NA	NA
Ghibelli S, et al (40)	67 at admission; 65 at discharge	4.49 at admission; 5.08 at discharge	NA	Warfarin + canrenone; ramipril + canrenone; digoxin + furosemide; aspirin + clopidogrel; amlodipine + simvastatin; amiodarone + simvastatin; simvastatin + diltiazem
Gutierrez-Valencia M, et al (41)	165	NA	Antidepressants; antiparkinsonians; benzodiazepines; diuretics; proton-pump inhibitors; vitamin K antagonists; drugs for cardiac therapy; buprenorphine.	NA
Jankovic SM, et al (60)	Using Medscape® Drug Interaction Checker: 145; Using Epocrates® Interaction Check: 140;	Using Medscape® Drug Interaction Checker: 30.56; Using Epocrates® Interaction Check: 17.47;	NA	Midazolam + tramadol

	Using Drug-Reax System®: 137	Using Drug-Reax System®: 11.03		
Juárez-Cedillo T, et al (56)	69	3.1	Dipyron, furosemide, enoxaparin, enalapril, lysine clonixinate, losartan.	Heparin + NSAID; digoxin + calcium gluconate; clopidogrel + ciprofloxacin; phenytoin + nimodipine
Kashyap M, et al (58)	126	1.198	NA	Anticoagulant drugs + clopidogrel + aspirin; clopidogrel + PPI; ramipril + spironolactone.
Locatelli, J (43)	NA	NA	Warfarin	Warfarin + omeprazole; warfarin + levothyroxine; warfarin + enoxaparin
Matanovic SM, et al (44)	149	NA	ace inhibitors; anticoagulants; antiplatelet agents; ATII blockers; benzodiazepins; potassium spare diuretics; potassium supplements; opiates; Atorvastatin; methylidigoxin; simvastatin; warfarin.	NA
Melo DO, et al (45)	247	NA	NA	Anticoagulants + antiplatelet drugs; aspirin + heparin; clopidogrel + omeprazole
Mohammed S, et al (46)	NA	NA	NA	NA
Narvekar RS, et al (59)	NA	NA	Clobazam; diazepam; lorazepam; nitrofurantoin	NA
Parreira RBC (57)	8		NA	Losartan + valsartan; metoprolol + ranitidine; omeprazole + metoprolol; enoxaparin + aspirin.
Pedroso, FM (47)	NA	23.59	NA	NA
Radosevic N, et al (49)	36	NA	NA	ACE inhibitors + potassium supplement; heparin + aspirin; heparin + coumarin anticoagulant; amiodarone + coumarin anticoagulant+ coumarin anticoagulant + aspirin; methylidigoxin + hydrochlorothiazide; ACE inhibitor + potassium-sparing diuretic; coumarin anticoagulant + quinolone; Potassium-sparing diuretic + potassium supplement; benzodiazepine-tranquilizer + benzodiazepine-hypnotic; amiodarone + methylidigoxin; NSAID + diuretic; amiodarone + phenytoin; ACE inhibitor + allopurinol
Rafiei H, et al (50)	NA	NA	Dexamethasone; heparin; phenytoin, ranitidine.	NA
Sapkota S, et al (48)	NA	NA	NA	Meperidine + promethazine; ketorolac + diclofenac; gentamicin + cefotaxime; isoniazid + rifampin
Senín, LD (52)	13	1.69	Acenocoumarol; omeprazole.	Omeprazole + acenocoumarol; acenocoumarol + levothyroxine
Rosas-Carrasco O, et al (51)	317	11.15	NA	Fluoroquinolone + antidiabetic drugs; low molecular weight heparin + anticoagulants; low molecular weight heparin + NSAID.
Schuler J, et al (53)	356	NA	NA	Benzodiazepine + opioid; amiodarone + betablocker; tramadol and selective reuptake inhibitors.
Teka F, et al (54)	87	NA	NA	Heparin + aspirin; spironolactone + enalapril; aspirin + clopidogrel
Yong TY, et al (55)	NA	NA	NA	NA