

Online table 5: Drug-related problems in controls and intervention group (Matched Pairs-Population)

outcome variable	Time	Value	Intervention group (n=188)		Control group (n=188)		p-value (McNemar)
			N	%*	n	%*	
PRISCUS-PIM (≥1)	admission	no	124	66.0%	136	72.3%	0.14
		yes	64	34.0%	52	27.7%	
	discharge	no	159	84.6%	142	75.5%	0.027
		yes	29	15.4%	46	24.5%	
Drug prescribed without indication (≥1)	admission	no	41	21.8%	58	30.9%	0.059
		yes	147	78.2%	130	69.2%	
	discharge	no	119	63.3%	64	34.0%	< 0.001
		yes	69	36.7%	124	66.0%	
	admission	no	154	81.9%	156	83.0%	

adverse drug reaction (≥ 1)		yes	34	18.1%	32	17.0%	0.796
	discharge	no	182	96.8%	148	78.7%	
		yes	6	3.2%	40	21.3%	< 0.001
drug-drug- interaction (≥ 1)	admission	no	158	84.0%	160	85.1%	
		yes	30	16.0%	28	14.9%	0.773
	discharge	no	160	85.1%	158	84.0%	
		yes	28	14.9%	30	16.0%	0.763
Primary outcome variable:	admission	no	25	13.3%	44	23.4%	
		yes	163	86.7%	144	76.6%	0.015
	discharge	no	88	46.8%	44	23.4%	
		yes	100	53.2%	144	76.6%	< 0.001

* The percentages refer to the number of non-missing values of the row variables within the groups and times (column sum per row variable = 100%).

Online table 6: Detailed results of the medication appropriateness index

	full analysis set				
MAI-question (average ± standard deviation per patient)	Intervention group (n=209)		Control group (n=202)		p-value (comparison of the values at discharge between intervention and control group)
	Admission	Discharge	Admission	Discharge	
1. Indication	3.47 ± 3.03	1.42 ± 2.24	3.16 ± 3.04	2.68 ± 2.69	<0.001
2. Effectiveness	5.22 ± 5.08	2.44 ± 3.29	4.50 ± 4.60	4.51 ± 4.87	<0.001
3. Dosage	12.14 ± 9.20	4.23 ± 5.07	7.92 ± 8.19	6.49 ± 6.61	<0.001

4. Correct directions	4.86 ± 4.17	1.76 ± 2.43	4.00 ± 3.42	3.88 ± 3.47	<0.001
5. Practical directions	1.47 ± 1.59	0.67 ± 1.14	1.37 ± 1.52	1.58 ± 1.70	<0.001
6. Drug-drug interaction	14.68 ± 13.61	9.20 ± 9.53	12.79 ± 12.42	13.11 ± 12.89	<0.001
7. Drug-disease interaction	6.88 ± 6.90	2.45 ± 3.74	4.46 ± 6.27	5.06 ± 6.64	<0.001
8. Duplication	3.09 ± 5.97	0.83 ± 2.60	1.74 ± 4.23	1.51 ± 3.72	0.066
9. Duration	4.52 ± 4.02	1.90 ± 2.77	3.28 ± 3.55	4.28 ± 4.40	<0.001
Overall per patient	56.34 ± 33.84	24.92 ± 18.39	43.21 ± 29.25	43.13 ± 30.62	<0.001

