

Article title: Emergency Department Visits Before, After and During Integrated Home Care: A Time Series Analyses in Italy

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Supplementary file 1

Table S1. ED visits characteristics before, during and after IHC, stratified by short, intermediate and long IHC duration. Piedmont Region 2012-2017, Italy

	SHORT IHC DURATION (n=27 417)				INTERMEDIATE IHC DURATION (n=28 818)				LONG IHC DURATION (n=31 709)			
	Before IHC N (%)	During IHC N (%)	After IHC N (%)	p-value	Before IHC N (%)	During IHC N (%)	After IHC N (%)	p-value	Before IHC N (%)	During IHC N (%)	After IHC N (%)	p-value
Accesses Number	20 625	2292	4500		19 362	4779	4677		18.417	10.438	2.854	
Accesses Mean	2.1	1.1	1.5		2.0	1.3	1.5		2.0	1.8	1.4	
ED TRIAGE CODE												
White (Non-urgent) ^a	755 (3.7)	27 (1.2)	139 (3.1)		927 (4.8)	93 (1.9)	182 (3.9)		790 (4.3)	228 (2.2)	111 (3.9)	
Green (Less urgent)	12 980 (62.9)	1136 (49.6)	2374 (52.8)	<0.001	12 028 (62.1)	2714 (56.8)	2534 (54.1)	<0.001	11 369 (61.7)	6136 (58.8)	1505 (52.7)	<0.001
Yellow (Urgent)	6383 (30.9)	921 (40.1)	1645 (36.6)		5879 (30.4)	1696 (35.5)	1658 (35.5)		5641 (30.6)	3599 (34.5)	1031 (36.1)	
Red (Immediate)	507 (2.5)	208 (9.1)	342 (7.6)		528 (2.7)	276 (5.8)	303 (6.5)		617 (3.4)	475 (4.5)	207 (7.3)	
ED TRIAGE SYMPTOMS												
Respiratory	2169 (10.5)	401 (17.5)	691 (15.4)		1831 (9.5)	680 (14.2)	644 (13.8)		1740 (9.5)	1378 (13.2)	460 (16.1)	
Abdominal pain	1928 (9.4)	151 (6.6)	303 (6.7)	<0.001	1608 (8.3)	326 (6.8)	347 (7.4)	<0.001	1482 (8.1)	725 (6.9)	204 (7.2)	<0.001
Neurological	1322 (6.4)	118 (5.2)	263 (5.8)		1354 (7.0)	262 (5.5)	279 (6.0)		1236 (6.7)	457 (4.4)	159 (5.6)	
Uro-gynaecological	1005 (4.9)	70 (3.1)	198 (4.4)		822 (4.2)	177 (3.7)	178 (3.8)		684 (3.7)	473 (4.5)	100 (3.5)	

Fever	596 (2.9)	65 (2.8)	144 (3.2)		519 (2.7)	155 (3.2)	125 (2.7)		548 (3.0)	372 (3.6)	80 (2.8)	
Chest pain	532 (2.6)	20 (0.9)	122 (2.7)		466 (2.4)	75 (1.6)	112 (2.4)		464 (2.5)	187 (1.8)	64 (2.2)	
Unspecified symptoms	11 568 (56.1)	1354 (59.1)	2430 (54.0)		10 999 (56.9)	2835 (59.3)	2614 (55.9)		10 627 (57.7)	6228 (59.7)	1567 (54.9)	
Others	1492 (7.2)	111 (4.8)	348 (7.7)		1748 (9.0)	268 (5.6)	372 (7.9)		1628 (8.8)	615 (5.8)	219 (7.6)	
DIAGNOSIS REGISTERED AT ED VISIT												
Respiratory	2465 (12.0)	376 (16.4)	719 (16.0)		2030 (10.5)	683 (14.3)	679 (14.5)		1922 (10.4)	1351 (12.9)	418 (14.6)	
Cardiovascular	2618 (12.7)	199 (8.7)	477 (10.6)		2561 (13.2)	522 (10.9)	581 (12.4)		2542 (13.8)	997 (9.6)	342 (12.0)	
Digestive system	1680 (8.1)	172 (7.5)	323 (7.2)		1592 (8.2)	368 (7.7)	341 (7.3)		1544 (8.4)	790 (7.6)	198 (6.9)	
Nervous system	966 (4.7)	71 (3.1)	188 (4.3)		1075 (5.6)	206 (4.3)	269 (5.8)		941 (5.1)	502 (4.8)	157 (5.5)	
Genito-urinary	1422 (6.9)	122 (5.3)	275 (6.1)		1121 (5.8)	247 (5.2)	264 (5.6)		1047 (5.7)	695 (6.7)	146 (5.1)	
Neoplasm	1071 (5.2)	191 (8.3)	262 (5.8)		767 (4.0)	296 (6.2)	207 (4.4)		588 (3.2)	373 (3.6)	127 (4.4)	
Blood diseases	532 (2.6)	75 (3.3)	107 (2.4)	<0.001	404 (2.1)	148 (3.1)	81 (1.7)	<0.001	455 (2.5)	360 (3.4)	73 (2.6)	<0.001
Infectious diseases	378 (1.8)	66 (2.9)	104 (2.3)		422 (2.2)	141 (3.0)	72 (1.5)		480 (2.6)	264 (2.5)	63 (2.2)	
Endocrine	587 (2.8)	109 (4.8)	123 (2.7)		540 (2.8)	201 (4.2)	136 (2.9)		576 (3.1)	339 (3.2)	87 (3.0)	
Osteo-muscular	1095 (5.3)	49 (2.1)	147 (3.3)		1372 (7.1)	154 (3.2)	248 (5.3)		1274 (6.9)	391 (3.7)	122 (4.3)	
Mental health	677 (3.3)	58 (2.5)	176 (3.9)		635 (3.3)	124 (2.6)	155 (3.3)		594 (3.2)	304 (2.9)	89 (3.1)	
Unspecified symptoms	5167 (25.1)	575 (25.1)	1171 (26.0)		4886 (25.2)	1213 (25.4)	1162 (24.8)		4609 (25.0)	2794 (26.8)	716 (25.1)	
Access to healthcare services	1040 (5.0)	130 (5.7)	229 (5.1)		939 (4.8)	274 (5.7)	256 (5.5)		892 (4.8)	673 (6.4)	157 (5.5)	
Others	1305 (6.3)	165 (7.1)	303 (6.7)		1440 (7.4)	343 (7.1)	299 (6.3)		1433 (7.7)	869 (8.3)	222 (7.7)	
TIME OF ARRIVAL AT ED												
8:00AM-4:00PM	12 119 (58.8)	1235 (53.9)	2474 (55.0)		11 325 (58.5)	2716 (56.9)	2656 (56.8)		10.720 (58.2)	5.965 (57.1)	1.653 (57.9)	
4:00PM-12:00PM	5041 (24.4)	752 (32.8)	1165 (25.9)	<0.001	4831 (25.0)	1349 (28.2)	1165 (24.9)	<0.001	4.661 (25.3)	2.724 (26.1)	720 (25.2)	0.483
12:00PM-8:00AM	3465 (16.8)	305 (13.3)	861 (19.1)		3206 (16.5)	714 (14.9)	856 (18.3)		3.036 (16.5)	1.749 (16.8)	481 (16.9)	
DESTINATION AFTER DISCHARGE FROM ED												
Hospital	9579 (46.4)	1278 (55.8)	2383 (53.0)		8773 (45.3)	2285 (47.8)	2246 (48.1)		8.660 (47.0)	4.354 (41.8)	1.384 (48.5)	
Home	10 747 (52.2)	843 (36.8)	1777 (39.5)	<0.001	10 308 (53.2)	2309 (48.3)	2139 (45.7)	<0.001	9.489 (51.5)	5.811 (55.7)	1.273 (44.6)	<0.001
Other facility	299 (1.4)	171 (7.4)	340 (7.5)		281 (1.5)	185 (3.9)	292 (6.2)		268 (1.5)	273 (2.5)	197 (6.9)	

^a White codes (Non-urgent) are often used during IHC for planned admission; ED = Emergency Department, IHC = Integrated Home Care