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Reason for encounter: a superior description of the epidemiology and management of flu syndromes in the Italian family medicine setting

Table 1. Characteristics of the

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Nicola Buono¹, Ferdinando Petrazzuoli¹, Angelo Cavicchi¹, Carmine Farinaro¹, Andrea Cocchi¹, Filippo D'Addio¹, Amedeo Scelsa¹, Mirra Baldassarre¹, Laura Baraldini¹, Egidio Giordano ¹, Enrico Napolitano ¹, Fabio Casadei ¹ and Jean K. Soler ²

Department of General Practice, ICPC Club Italia Mediterranean Institute of Primary Care, Attard, Malta

population

Background

Influenza-like illness (ILI) and Acute Respiratory Infections (ARI) remain a considerable health problem in Europe. Diagnoses are based on clinical signs and symptoms which are very well known by Family Doctors (FDs). The most common reasons patients give for seeking health care are presented in the form of symptoms and complaints and the International Classification of Primary Care (ICPC) advocates recording patients' Reasons for Encounter (RfE) as presented to the family doctors (FDs).

Research Question

What is the epidemiology of ILI and ARI syndromes in Italian family medicine ? How do FDs manage ILI and ARI diagnosis and how do RfEs influence FDs interventions during winter season 2013/14?

Methods & Materials

Over a period of four months 8 FDs registered the patients' reason for encounters, the number and type of encounters, procedures adopted, ILI and ARI diagnoses, drugs prescriptions and referrals to other health care providers. FDs recorded details of their patients using electronic patients' records based on the International Classification of Primary Care Italian version, collecting data on all elements of the doctor-patient encounter for those diseases in an Episode of Care structure (EoC). The study took place in several urban and rural areas in Northern and Southern Italy

Results

Patients with suggestive symptoms for ILI and ARI were 1,536 (average age 48.1±18.7). The number of patientdoctor encounters was 1,715. RfEs and EoCs numbered respectively 3,800 and 1,536. The total number of interventions (ICPC components 2-6) was 2,929. Of them 45.3% were diagnostic and preventive procedures, 44.0% medications, 0.2% results, 9.6% administrative procedures and 0.7% referrals and other reasons for encounter.

Total populati	on	ARI	ILI		
Patients' number	1,536	848 (55.2%)	688 (44.8%)		
Males	762 (49.6%)	405 (53,1%)	357 (46,9%)		
Females	774 (50.4%)	443 (57,2%)	331 (42,8%)		
Average age	48.1±18.7	51.2±19.5	44.4±16.9		
Encounters+ Subenc.	1,715	947 (52.3%)	768 (44.7%)		
Reason for Encounters	3,800	2,153 (56.7%)	1,647 (43.3%)		
Vaccinations	267	201 (75,3%)	66 (24,7%)		
Total ICPC Comp.	2,929	1,539 (52.5%)	1,390 (47.5%)		
Diagnostic and prev.proc.	1,326	733(55,3%)	593(44,7%)		
Medications	1,291	669 (51,8%)	622(48,2%)		
Results	7	3(42,9%)	4(57,1%)		
Administrative proc.	284	120(42,3%)	164(57,7%)		
Referrals	21	13(61,9%)	8(38,1%)		

	Laber	C.4	10	C.5	10	C.4	10	0.5	10	C.0	
03	Fever	326	24.6	242	18.7	2	28.6	75	26.4	10	47
05	Cough	281	21.2	307	23.8	3	42.9	84	29.6	2	9
21	Throat symptom	173	13.0	91	7.0	0	0.0	30	10.6	3	14
07	Chest pain	90	6.8	42	3.3	0	0.0	9	3.2	0	0
02	Chills	63	4.8	28	2.2	0	0.0	1	.4	0	0
01	Pain general	57	4.3	170	13.2	0	0.0	9	3.2	2	9
62	Administrative	37	2.8	35	2.7	1	14.3	7	2.5	1	4
01	Headache	35	2.6	12	.9	0	0.0	9	3.2	1	4
04	Weakness/tiredness	27	2.0	5	.4	0	0.0	0	0.0	0	0
50	Medications-pres.	23	1.7	5	.4	0	0.0	5	1.8	0	0
23	Voice symptom/	20	1.5	22	1.7	0	0.0	9	3.2	1	4
01	Pain respiratory syst.	19	1.4	13	1.0	0	0.0	4	1.4	0	0
31	Medical exam.partial	14	1.1	1	.1	0	0.0	3	1.1	0	0
18	Muscle pain	12	.9	10	.8	0	0.0	1	.4	0	0
80	Influenza	11	.8	19	1.5	0	0.0	1	.4	1	4
02	Shortness of breath	10	.8	34	2.6	0	0.0	4	1.4	0	0
03	Wheezing	10	.8	26	2.0	0	0.0	3	1.1	0	0
08	Nose symptom/comp	10	.8	2	.2	0	0.0	3	1.1	0	0
62	Administrative proc.	9	.7	1	.1	0	0.0	0	0.0	0	0
25	Sputum/fphegm abn.	8	.6	10	.8	0	0.0	5	1.8	0	0

Table 3. Relationship between RFs

and interventions made by FDs

Table 2. The Epidemiology of flu syndromes

Code	Label	n.	%
R80	Influenza	688	44.8
R74	Upper resp.inf.acute	328	21.4
R78	Acute bronchitis/bronchiolitis	168	10.9
R77	Acute laringitis/tracheitis	158	10.3
R76	Acute tonsillitis	128	8.3
R75	Sinusitis	29	1.9
H71	Otitis media	25	1.6
R81 Total	Pneumonia	12 1.536	. 8 100

Figure 1. ILI and ARI distribution



Conclusions

The recording of patients' Reasons for Encounter allows FDs to completely document the management of ILI and ARI syndromes. ICPC offers an accessible and practical solution for recording all elements of the encounter such as reasons for encounter, procedures adopted and diagnosis made by the doctors, drugs prescriptions, surgery, home and phone consultations, referral to the specialists. The RfE is a core element of the process of making diagnosis and also influences interventions made by FDs during the winter flu season 2013-14.

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