Getting some Insight into the Home Care Nursing Service in Croatia

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ABSTRACT

Croatia, as the other Western societies are facing with the increasing share of the population over 65 years and consequently with more care-dependant people. Community living and care, including home care, is stimulating not just because of efficiency of care but also because of the people's preferences that home is a place of emotional and physical associations, memories and comfort. The aim of the study was to see if there is lack or surplus of Home care nursing services within the health care system. Data from the Croatian Health Insurance Fond Data base were analysed. The results of this research indicated that the number of inhabitants per one home nurse and physiotherapist contracted by the Croatian Health Insurance Fond was below the defined Standard. The average number of inhabitants per one home care nurse contracted by the CHIF for 2013 was 3373.9 compared to 3500 defined by the Standard. There was found also the huge regional differences in their distributions. The average number of contracted home physiotherapists for the same year was 9805.2 in comparison to the Standard, which was setup at the level of 15000 inhabitants per one physiotherapist.

Key words: home care, home care nursing service, primary health care, Croatia

Introduction

The Western societies are facing with the increasing share of the population over 65 years and consequently with more care-dependant people. Diminished potentials for informal care because of changing the structure and function of the families are likely to result in the growing needs for formal care services. Many European countries aim to stimulate community living and care, including home care, not just because of potentially cost effective but also because of the people preferences that home is a place of emotional and physical associations, memories and comfort¹.

In Croatia, a professional home care has traditional been under the scope of work of family doctors (FD) teams. FDs together with public health nurses and less frequently with practice nurse were responsible for the home visits and follow-up of patients suffering from acute and chronic conditions. But, by the Health Care Act from 1993, a Home Care Nursing Service (HCNS)

was introduced as separate health care institutions responsible for the provision of home care nursing and rehabilitations of the patients under the instructions and supervision of the patients' personal doctor². Because the clients are mainly elderly and chronic patients, FDs teams still remain to be mostly involved. The main aim of HCNS is to keep the ill or elderly person in his/her own homes as long as possible, with the assistance of professional nurses and family members as the carers.

The HCNS is organized mostly as a private service. Only several public health institutions have organized HCNS as public services. Any health care professional with college degree and five years experience is allowed to enter into the business, either publicly financed through the contract by the Croatian Health Insurance Found (CHIF), or paid by the user's fees only. The publicly financed HCNS became a regular part of primary health service within the established National Network

of HCNS. The Network was established for the first time in 1996 with several amendments since that year. The last amendment was in 2012³. Number of health personnel (nurses, physiotherapists) of the HNCS for the National Network is planned according to geographical distribution of inhabitants, geographical characteristics and local circumstances. Number of inhabitants per one nurse is set as a Standard. From 2003 it is defined as 3500 inhabitants per one nurse. According to the CHIF contract the HCNS is reimbursed for their services as fee-for-service payment model⁴. Prices of services, procedures and medical devices used at home care are determined by CHIF administration, and are reimbursed monthly⁵.

The types of service are regulated by the CHIF regulations (Pravilnik), comprises the different types of medical treatment, bathing, feeding and nursing at home⁶. The initial patient's needs assessment, before the HCNS starts with the home care, is done by the personal FDs and public health nurse. Before 2010, the needs for HCNS should be approved by the CHIF's commission--doctor appointed by the CHIF7. Since then, the official approval by the CHIF's commission-doctor is not needed to start nursing at home, but the follow-up of the utilisation of HCNS service remained to be the responsibility of the CHIF's commission-doctor⁸. The frequency of the nurse visits is also determined by the CHIF regulation (Pravilnik), usually within a range of 2–5 times a week, during several months. Physical therapy at home is also part of the HCNS. But for this service along the recommendation from personal FD and public health nurse, the recommendation from the specialist of physical medicine is required. The Standard number of inhabitants for physical therapy at home is set by the CHIF regulation (Pravilnik) as 15,000^{9,10}.

The analyses of the utilization of Home Care Nursing Services until now is very insufficient, there are only few commentaries, essays and one published research article^{11,12}. Therefore, this study was undertaken with the main aims to analyse the work of HCNS, to determine the trends of the development of the HCNS institutions and services, number of personnel employed and the structure of service in Croatia between 1995 and 2012.

Methods and Materials

The study is observational and partly longitudinal, based on routinely collected data, available on the web-pages of the institutions responsible for their collection and publishing. The source of data for this research was the CHIF web-page representing the official CHIF reports. Four databases were used. The first was the Yearly report for 2002, containing the number of home care nurses having the CHIF contract¹³. The second was the List of HCNS institutions with the CHIF contract for 2010, their numbers and locations, with the number of nurses employed by those institutions¹⁴. The third was the List of contracting HCNS institutions in 2013, containing them same set of data like this from 2010¹⁵. The forth was the List of contracting outpatients specialists'

service containing the data on the number and regional distribution of home physiotherapists¹⁶.

From the obtained data it was possible to calculate the relation between the number of nurses planned by the Network and number of contracting nurses and physiotherapist, to see if there is lack or surplus of nurses within the system. Using the Mid-2010 population estimate data from the 2011 Statistical Yearbook and the 2011 population census¹⁷, it was also possible to calculate the average number of inhabitants per one by the Network planned and one contracted home nurse and physiotherapist.

Microsoft Office package (Excel) was used in data mining. The results are presented as a table of frequencies, percentages and trends.

Results

As it could be seen from the Table 1, the number of nurses slightly increased from 2002 to 2010, and afterwards slightly decreased until 2013 (Table 1). For the year 2002 there are no separate data for the Zagreb city and the Zagreb county. Because of this it is added a separate line in the table for both counties.

TABLE 1
NUMBER OF HOME CARE NURSES EMPLOYED BY THE HOME
CARE NURSING SERVICE FOR THE YEARS 2002, 2010 AND 2013
FOR CROATIA AND 21 COUNTIES

	Year			
County -	2002	2010	2013	
Bjelovar-Bilogora	28	39	38	
Slavonski Brod-Posavina	41	52	50	
Dubrovnik-Neretva	26	35	36	
Istria	40	57	58	
Karlovac	33	43	41	
Koprivnica-Križevci	28	36	36	
Krapina-Zagorje	30	41	42	
Lika-Senj	3	4	8	
Međimurje	21	29	32	
Osijek-Baranja	152	110	107	
Požega-Slavonija	7	19	22	
Primorje-Gorski Kotar	143	94	89	
Sisak-Moslavina	26	48	41	
Split-Dalmacija	126	138	136	
Šibenik-Knin	15	27	29	
Varaždin	44	47	44	
Virovitica-Podravina	64	28	28	
Vukovar-Sirmium	70	65	60	
Zadar	31	45	42	
Zagreb county		57	81	
City of Zagreb		273	250	
City of Zagreb and Zagreb county	328			
Croatia – total	1256	1287	1270	

 ${\bf TABLE~2} \\ {\bf NUMBER~OF~HOME~CARE~NURSING~SERVICE~INSTITUTIONS~(HCNS)~SITUATED~IN~THE~TOWNS~AND~VILLAGES,~THE~NUMBER~OF~EMPLOYED~NURSES~AND~THE~AVERAGE~NUMBER~OF~INHABITANTS~PER~ONE~NURSE~IN~CROATIA~AND~COUNTIES~IN~2010~INHABITANTS~IN~CROATIA~AND~COUNTIES~IN~2010~INHABITANTS~IN~CROATIA~AND~COUNTIES~IN~2010~INHABITANTS~IN~CROATIA~AND~COUNTIES~IN~2010~INHABITANTS~INHABITA$

County	Number of HCNS institutions	In towns	In villages	Number of nurses	Number of inhabitants (2010 estimate)	Inhabitants / 1 nurse
Bjelovar-Bilogora	8	8	0	39	123632	3170.1
Slavonski Brod-Posavina	11	5	6	52	171563	3299.3
Dubrovnik-Neretva	9	5	4	35	127746	3649.9
Istria	13	7	6	57	214967	3771.4
Karlovac	12	11	1	43	130533	3035.7
Koprivnica-Križevci	7	5	2	36	119000	3305.6
Krapina-Zagorje	15	2	13	41	135635	3308.2
Lika-Senj	3	2	1	4	49063	12265.8
Međimurje	4	1	3	29	117890	4065.2
Osijek-Baranja	18	13	5	110	317802	2889.1
Požega-Slavonija	3	3	0	19	81024	4264.4
Primorje-Gorski Kotar	24	13	11	94	303491	3228.6
Sisak-Moslavina	14	11	3	48	169419	3529.6
Split-Dalmacija	16	16	0	138	482604	3105.8
Šibenik-Knin	8	6	2	27	112927	4182.5
Varaždin	4	3	1	47	179895	3827.6
Virovitica-Podravina	5	4	1	28	86487	3088.8
Vukovar-Sirmium	6	6	0	65	195674	3010.4
Zadar	9	6	3	45	176316	3918.1
Zagreb county	17	12	5	57	329253	5776.4
City of Zagreb	21	21	0	273	792860	2904.2
Croatia – total	235	166	69	1287	4417781	3432.6

From the List of Home Care Nursing Service institutions (HCNS), which had the contract with the Croatian Health Insurance Found (CHIF) for 2010, the number of institutions and their locations (town or village), together with the number of nurses employed by those institutions and the average number of inhabitants per one contracting nurse were obtained and presented in the Table 2.

More then two third of the HCNS institutions contracting with CHIF in 2010 were located in towns. The share of urban population in Croatia is about 60%¹⁸. There are no institutions located in the villages in Bjelovar-Bilogora, Požega-Slavonija, Split-Dalmatia and Vukovar-Srijem counties. The average number of inhabitants per one home care nurse in 2010 was 3432.6. There are large regional differences: high number of inhabitants per one contracting nurse was found in the Lika-Senj county (12,265.8) and the Zagreb county (5,776.4). The smallest number of inhabitants per one contracting nurse was found in the Osijek-Baranja county (2,748.0) and the City of Zagreb (2,904.2).

From the List of HCNS institutions with the CHIF contract for 2013 the number of home nurses was compared with the number of nurses defined by the Network (planned number), and the average number of inhabit-

ants per one planned and one contracting nurse. Data are presented in the Table 3. The number of inhabitants is taken from the 2011 population census.

The average planned number of inhabitants per one nurse in 2013 in Croatia was 3,288.5, with some regional variations, from 3,142.1 in Virovitica-Podravina county to 3,650.1 in Istria county. The average number of inhabitants per one contracting nurse was 3,373.9, with large regional differences, between 2,850.8 in Osijek-Baranja county and 6,565.9 inhabitants per one nurse in Lika-Senj county.

The total number of contracting home care nurses in Croatia was smaller (lack of 33 nurses) than it was planned. The great differences was found in in Lika-Senj (6 or 42% nurses less), Sisak-Moslavina (13 or 24% nurses less), Šibenik-Knin county (5 or 15% nurses less) Varaždin (8 or 15% nurses less), in Zadar (7 or 14% nurses less) and Zagreb county (8 or 9% nurses less). In some counties the number of contracting nurses was higher then those planned to be, in Osijek-Baranja county (12 or 11% nurses more than in the plan) and Vukovar-Sirmium county (4 or 7% nurses more than in the plan).

From the List of contracting outpatients specialists' service containing the data on the number and regional distribution of home physiotherapists with the CHIF

TABLE 3							
PLANNED AND CONTRACTED NUMBER OF HOME CARE NURSES IN CROATIA AND COUNTIES IN 2013							

County	Planned	Contracted	Difference	Number of inhabitants (2011 popula- tion census)	Planned inhabitant / 1 nurse	Contracted inhabitant / 1 nurse
Bjelovar-Bilogora	38	38	0	119764	3151.7	3151.7
Slavonski Brod-Posavina	51	50	-1	158575	3109.3	3171.5
Dubrovnik-Neretva	35	36	1	122568	3502.0	3404.7
Istria	57	58	+1	208055	3650.1	3587.2
Karlovac	41	41	0	128899	3143.9	3143.9
Koprivnica-Križevci	36	36	0	115584	3210.7	3210.7
Krapina-Zagorje	42	42	0	132892	3164.1	3164.1
Lika-Senj	14	8	-6	50927	3637.6	6365.9
Međimurje	33	32	-1	113804	3448.6	3556.4
Osijek-Baranja	95	107	+12	305032	3210.9	2850.8
Požega-Slavonija	24	22	-2	78034	3251.4	3547.0
Primorje-Gorski Kotar	89	89	0	296195	3328.0	3328.0
Sisak-Moslavina	54	41	-13	172439	3193.3	4205.8
Split-Dalmacija	137	136	-1	454798	3319.7	3344.1
Šibenik-Knin	34	29	-5	109375	3216.9	3771.6
Varaždin	52	44	-8	175951	3383.7	3998.9
Virovitica-Podravina	27	28	+1	84836	3142.1	3029.9
Vukovar-Sirmium	56	60	+4	179521	3205.7	2992.0
Zadar	49	42	-7	170017	3469.7	4048.0
Zagreb county	89	81	-8	317606	3568.6	3921.1
City of Zagreb	250	250	0	790017	3160.1	3160.1
Croatia – total	1303	1270	-33	4284889	3288.5	3373.9

contract for 2013, the average number of inhabitants per one planned and one contracting nurse were obtained for Croatia and counties and presented in the Table 4.

In 2013 the average number of inhabitants per one physiotherapist with the CHIF contract in Croatia was 9,805.2, with great regional differences. The higher number of inhabitants per one physiotherapist was found in Sisak-Moslavina county (28,739.8 inhabitants per one physiotherapist), Bjelovar-Bilogora county (17,109.1) and Lika-Senj county (16,975.7). Smaller number of inhabitants per one physiotherapist was found in the City of Zagreb and Zagreb county (6,153.5) and Primorje-Gorski Kotar county (6,371.7). The standard ratio was set up as 1 physiotherapist per 15,000 inhabitants.

Data for the expenditure for the primary care, including those for HCNS, was obtained from the CHIF annual Reports and is presented in the Table 5.

Around 4.7% of CHIF primary care expenditure was spent on home care service, particularly around 110 000 Kunas annually per one home service nurse.

Discussion

Obtained results indicate that the attention should be paid on several aspects of Home Care Nursing Service

(HCNS) in Croatia. Firstly, the data collection and reporting systems within the National Institute of Public Health Croatia published in the Health-Service Yearbooks, as an official national statistics data base, and the Croatian Health Insurance Fund (CHIF), as a contractor and financier of the service, should be coordinated and improved, because it was found great differences between these two data sources. For this analysis data from CHIF was mostly used. Secondly, a planned number of home care nurses in relation to the number of inhabitants are below the number defined by the Standard. 3,500 inhabitants per one nurse are defined by the Standard, but in 2013 the average number of Croatian inhabitants per one home care nurse is planned to be 3,288.5. Thirdly, the number of inhabitants per one nurse contracting with CHIF in 2010 and 2013 was higher than planned. The average number of inhabitants per one nurse for 2010 in Croatia was 3,432.6 and 3,373.9 for 2013. But, great regional variations were found, between 2850.8 in Osijek-Baranja county and 6,365.9 inhabitants per nurse in Lika-Senj county. Fourthly, the similar situation was found within the home physiotherapy service, much less inhabitants per one home physiotherapist than defined by the Standard. A Standard number should be 15,000 inhabitants per one physiotherapist, but it was

	No of contracted physiotherapists in 2013	No of inhabitants (2011 population census)	Inhabitants / 1 physiotherapist
Bjelovar-Bilogora	7	119764	17109.1
Slavonski Brod-Posavina	14	158575	11326.8
Dubrovnik-Neretva	9	122568	13618.7
Istria	14	208055	14861.1
Karlovac	12	128899	10741.6
Koprivnica-Križevci	8	115584	14448.0
Krapina-Zagorje	8	132892	16611.5
Lika-Senj	3	50927	16975.7
Međimurje	8	113804	14225.5
Osijek-Baranja	27	305032	11297.5
Požega-Slavonija	5	78034	15606.8
Primorje-Gorski Kotar	44	296195	6731.7
Sisak-Moslavina	6	172439	28739.8
Split-Dalmacija	43	454798	10576.7
Šibenik-Knin	7	109375	15625.0
Varaždin	12	175951	14662.6
Virovitica-Podravina	7	84836	12119.4
Vukovar-Sirmium	12	179521	14960.1
Zadar	11	170017	15456.1
Zagreb county	n.a.	790017	n.a.
City of Zagreb	n.a.	317606	n.a.
City of Zagreb and Zagreb county	180	1107623	6153.5
Croatia – total	437	4284889	9805.2

Note: n.a. - not applicable (there are not separate data for the Zagreb county and the City of Zagreb

 ${\bf TABLE~5} \\ {\bf THE~CHIF~EXPENDITURES~(IN~KUNAS)~FOR~PRIMARY~CARE~AND~FOR~THE~HOME~CARE~SERVICE~IN~CROATIA,~FROM~2008~TO~2013} \\ {\bf TABLE~5} \\ {\bf TABLE~$

Year	Total PC expenditures	HCNS expenditures	Number of HCNS nurses	Expenditures per 1 HCNS nurse
2008	2938817558	141433769	n.a.	n.a.
2009	3318021277	148851501	n.a.	n.a.
2010	2949911575	139324188	1287	108255.0
2011	2917738592	141519301	n.a.	n.a.
2012	2969982492	139818317	1270	110093.2

Note: n.a. - not available

found 9,805.2 inhabitants per one physiotherapist contracted for 2013. Again, great regional variations were found, with 28739.8 inhabitants per one physiotherapist in Sisak-Moslavina county and 6,731.7 for the City of Zagreb and Zagreb county. Fifth, the majority of HCNS institutions which are responsible for the provision of home care nursing service and home physiotherapy were located in the towns. Sixth, around 4.7% the primary health care expenditure are devoted to the HCNS, which means around 110,000 Kunas per one nurse annually.

It is not ease to comment why it is planned and contracted number of nurses for the Home Care Nursing Service above the standard number (3500 inhabitants per one home care nurse or 15 000 inhabitants per one home physiotherapist). It is not possible to assess is it optimal or not because the patients' health need assessment and standard setting procedures are not done and not published. But, it should be taken into the consideration that one public health nurse is responsible, as a standard, for 5100 inhabitants. Also, it is not clear why it

was contracted in some counties, such as Osijek-Baranja for the HCNS and the City of Zagreb for the home physiotherapists, a higher number of those services than it was planned by the Network.

Županić and colleagues investigated the health care needs and satisfaction of the users and the most often applied nursing procedures. They found out that the users were mostly older then 70-years, after cerebrovascullar insult, needed enhanced medical care and were satisfied with home nursing service¹⁹. In their assay on home care in Croatia, Guldesi and Benković also pointed out some challenges, such as the organization and financial aspects, disparities in the access and questionable effectiveness of the service²⁰. In his personal view, Prpić pointed out a problems rising up from the legal status of the institutions as private entrepreneurs, being on free market with non-loyal concurrence and financial difficulties with CHIF as only payer on one side and without any controlling mechanisms on another side. He also pointed out the role of patients as users not having possibilities to freely choose the providers, institution and nurse¹¹. Problems with lack of precise regulations, lack of professional protocols necessary for the provision of the high quality home nursing care and under payment were also recognised by the Croatian Nursing Chamber, as it was reported by the Poslovni dnevnik¹².

It is even harder to make an international comparison because of the differences in policy and regulation of the service, financing and organisation, and the health care delivery²¹. For example, in UK, Norway and Sweden, HCNS is integrated within family medicine, and according to the research results, it is connected with lower morbidity and less of hospitalisation and pharmaceutical ussage²². In Denmark and Finland, the financing is decentralised on local governments and the role of social institutions are much greater then health care institutions^{23,24}. In Germany HCNS is mainly organised through social institutions and financed by the local government and by the service users²⁵. In the Netherlands the home care service is integrated with family medicine, and besides financing by local governments the patients share plays an important role²⁶. In majority of the countries, the nurses are the most frequent providers, but social workers, paramedics and volunteers also participate, especially in Sweden, UK and Denmark²¹. The researches from Canada indicate that the home care models should be strongly evaluated from the point of effectiveness and patients' satisfactions^{27,28}. It seams that integrated models, which include the patients personal doctors' teams exhibit the better results²⁹.

This research is the first attempt to get inside in the organisational structure of the HCNS. Unfortunately, because of anreable data presented by the Croatian Health Service Yearbook it was not possible to get deeper inside in the home nursing scope of work, the number and the kind of interventions. Data obtained from the CHIF on which the results were based, should be taken as realiable, because they are part of the official reports. Some of obtained data, such as the higher number of nurses or home physiotherapist contracted with the CHIF than those defined by the Standard, should be taken in account. But the results might not still be used for the official planning, because the research is small in scale. It should be more used to motivate further researches to pay more attention to the very important part of health care services, such as home care. Even more, Croatian population is getting older and the needs for such type of services will be growing and the health care resources will always be scarce.

Conclusions

The results of this research indicated that the number of inhabitants per one home nurse and physiotherapist was below the defined Standard. 3,500 inhabitants per one nurse is defined by the Standard, but the average number of inhabitants per one home care nurse contracted by the CHIF for 2013 was 3,373.9 with huge regional differences in their distributions. The average number of contracted home physiotherapists for the same year was 9,805.2 in comparison with the Standard, which was setup at the level of 15,000 inhabitants per one physiotherapist. Because this research is only superficial inside into the problem of the home nursing care in Croatia further researches are needed to bring the answers on these very important part of the Croatian health care system.

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ANALIZA KUĆNE NJEGA U HRVATSKOJ

SAŽETAK

Hrvatska kao i druge zapadnoeuropska društva susreću se s rastućim udjelom populacije stare 65 i više godina i konsekventno tome sa sve više osoba ovisnih o tuđoj pomoći. Život u zajednici, uključujući i zdravstvenu skrb, stimulira se ne samo zbog povećanja djelotvornosti službe nego i zbog toga jer je dom mjesto koje ljudi preferiraju zbog emocionalne i fizičke veze, sjećanja i komfora. Cilj studije je bio utvrditi postoji li višak ili manjak sestara i fizioterapeuta u kućnoj njezi u zdravstvenom sustavu. Korišteni su podaci iz baze podataka Hrvatskog zavoda za zdravstveno osiguranje. Rezultati studije ukazuju da je broj stanovnika ugovoren u odnosu na jednu sestru i fizioterapeuta od strane Hrvatskog zavoda za zdravstveno osiguranje bio ispod usvojenog standard. Prosječan broj stanovnika ogovoren za 2013. godinu bio je 3373,9 za 1 sestru u odnosu na standard koji je iznosio 3500. Nađene su velike regionalne razlike. Prosječni broj stanovnika ugovoren za jednog fizioterapeuta bio je 9805,2 u odnosu na standard, koji je iznosio 15000 stanovnika.