



# **Basic information on Hospital Health Care in the Republic of Croatia**

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**Dubrovnik - May 23, 2008**

# Republic of Croatia: Division by counties & basic data



- **Full name:** Republic of Croatia
- **Population:** 4.4 million (UN, 2005)
- **Total of health insured inhabitants:** 4,3 millions
- **Labor force :** 1.5 million
- **Capital:** Zagreb
- **Area:** 56,594 sq km (21,851 sq miles)
- **Life expectancy:** 71 years (men), 78 years (women) (UN)
- **Monetary unit:** 1 kuna = 100 lipa
- **GNI per capita:** US \$8,060 (World Bank, 2006)

Croatia has 21 counties, 127 towns/cities  
and 429 municipalities.

# Croatia: Basic demographic & health data, year 2006

**Tablica - Table 1. HRVATSKO STANOVNIŠTVO PO DOBNIM SKUPINAMA PREMA POPISIMA OD 1953. DO 2001. GODINE - Croatia's population by age groups by population censuses from 1953 to 2001**

Godina popisa <i>Census (year)</i>	stanovnika <i>no. of population</i>	0-14 <i>0-14</i>	15-64 <i>15-64</i>	65 i više i nepoznato <i>65 and above + unknown</i>
1953.	3.936.022	27,0%	66,0%	7,0%
1961.	4.159.696	27,2%	65,3%	7,5%
1971.	4.426.221	22,6%	67,2%	10,2%
1981.	4.601.469	20,9%	66,9%	12,2%
1991.	4.784.265	19,4%	67,5%	13,1%
2001.	4.437.460	17,1%	67,2%	15,7%

Izvor podataka: Statistički ljetopis Državnog zavoda za statistiku, Zagreb 1994.  
 Popis stanovništva 2001. (rezultati od lipnja 2002.), Državni zavod za statistiku, Zagreb 2002.  
 Source of information: Croatian Statistical Yearbook, Central Bureau of Statistics, Zagreb 1994.  
 Populations census (June 2002), Central Bureau of Statistics, Zagreb 2002

**Tablica - Table 2. PRIRODNO KRETANJE STANOVNIŠTVA U HRVATSKOJ OD 1991. DO 2006. GODINE - Liveborn, deaths and natural trends, Croatia 1991-2006**

GODINA <i>Year</i>	BROJ ŽIVOROĐENIH <i>No. liveborn</i>	BROJ UMRLIH <i>No. deaths</i>	PRIRODNO KRETANJE <i>Natural trend</i>
1991. *	51.829	54.832	- 3.003
1992. *	46.970	51.800	- 4.830
1993. *	48.535	50.846	- 2.311
1994. *	48.584	49.482	- 898
1995. *	50.182	50.536	- 354
1996. *	53.811	50.636	3.175
1997.	55.501	51.964	3.537
1998.**	47.068	52.311	- 5.243
1999.**	45.179	51.953	- 6.774
2000.**	43.746	50.246	- 6.500
2001.**	40.993	49.552	- 8.559
2002.**	40.094	50.569	-10.475
2003.**	39.668	52.575	-12.907
2004.**	40.307	49.756	- 9.449
2005.**	42.492	51.790	- 9.298
2006.**	41.446	50.378	- 8.932

Izvor podataka: Priopćenja Državnog zavoda za statistiku (ISSN 1330-0350)  
 Source of information: First releases. Croatian Central Bureau of Statistics, (ISSN 1330-0350)

# Croatia: Basic demographic & health data, year 2006

Tablica - Table 16/I. RANG LJESTVICA TE UDIO 10 VODEĆIH UZROKA SMRTI U HRVATSKOJ 2006. GODINE - UKUPNO -  
Rank of the 10 leading causes of death and their respective shares - total, Croatia 2006

MKB-X ŠIFRA ICD 10 Code	DIJAGNOZA Diagnosis	BROJ No.	%
I20-I25	Ishemijske bolesti srca - <i>Ischaemic heart diseases</i>	9.822	19,50
I60-I69	Cerebrovaskularne bolesti - <i>Cerebrovascular diseases</i>	8.075	16,03
I50	Insuficijencija srca - <i>Heart failure</i>	2.959	5,87
C33-C34	Zloćudna novotvorina dušnika, dušnica i pluća - <i>Malignant neoplasms of trachea, bronchus and lung</i>	2.717	5,39
C18-C21	Zloćudne novotvorine debelog crijeva - <i>Malignant neoplasms of colon, rectum and anus</i>	1.800	3,57
K70, K73, K74, K76	Kronične bolesti jetre, fibroza i ciroza - <i>Chronic liver diseases, fibrosis and cirrhosis</i>	1.198	2,38
J12-J18	Pneumonija - <i>Pneumonia</i>	1.183	2,35
J40-J46	Bronhitis, emfizem, astma - <i>Bronchitis, emphysema, asthma</i>	1.148	2,28
E10-E14	Dijabetes melitus - <i>Diabetes mellitus</i>	1.112	2,21
I70	Ateroskleroza - <i>Atherosclerosis</i>	902	1,79
PRVIH 10 UZROKA SMRTI - <i>First 10 causes</i>		<b>30.916</b>	<b>61,37</b>
UKUPNO - <i>Total</i>		<b>50.378</b>	<b>100</b>

Izvor podataka: Dokumentacija Državnog zavoda za statistiku, 2007. god. (DEM-2/06)  
Source of information: Croatian Central Bureau of Statistics, 2007 (DEM-2/06)

## Croatia: Basic demographic & health data, year 2006

### 06.01.01 Očekivano trajanje života pri rođenju, u godinama – *Life expectancy at birth, in years*

God. Year	Hrvatska Croatia	Austrija Austria	Češka Czech	Slovenija Slovenia	Mađarska Hungary	EU-27 EU-27	Europska regija European region
1980.	-	72,78	70,30	-	69,12	73,65	71,29
1990.	72,57	75,99	71,53	73,99	69,45	75,18	73,07
1991.	70,99	76,05	72,06	73,60	69,50	75,28	73,12
1992.	71,76	76,25	72,43	73,72	69,17	75,58	72,99
1993.	72,64	76,47	72,95	73,55	69,17	75,64	72,33
1994.	73,16	76,85	73,16	74,04	69,64	75,97	72,28
1995.	73,29	77,12	73,31	74,79	70,05	76,1	72,45
1996.	72,69	77,39	74,03	75,24	70,65	76,35	72,90
1997.	72,62	77,79	74,13	75,22	71,07	76,69	73,39
1998.	72,49	78,13	74,75	75,32	70,97	76,84	73,64
1999.	72,83	78,32	74,94	75,74	71,12	77,04	73,61
2000.	73,00	78,66	75,21	76,27	71,93	77,49	73,76
2001.	74,65	79,15	75,43	76,49	72,56	77,76	73,99
2002.	74,85	78,97	75,51	76,73	72,64	77,85	74,00
2003.	74,73	78,93	75,40	76,53	72,59	77,89	74,06
2004.	75,66	79,47	75,96	77,32	73,03	78,41	74,52
2005.	75,44	79,7	76,19	77,58	73,02	78,44	74,49

# Health institutions in Croatia, year 2006

Tablica - Table 1. ZDRAVSTVENE USTANOVE U HRVATSKOJ\* 31.12.2006.  
- Health institutions in Croatia, December 31, 2006

ZDRAVSTVENE USTANOVE	BROJ USTANOVA
<i>Health institutions</i>	<i>No. of institutions</i>
DOM ZDRAVLJA - Health center	47
KLINIČKI BOLNIČKI CENTAR - Clinical teaching hospital	2
KLINIČKA BOLNICA - Clinical hospital	5
KLINIKA - Clinic	7
OPĆA BOLNICA - General hospital	22
SPECIJALNA BOLNICA - Special hospital	29
LJEČILIŠTE - Health resort	6
ZAVOD ZA JAVNO ZDRAVSTVO - Public health institute	21
OSTALI DRŽAVNI ZAVODI - Other state institutes:	3
+ ZAVOD ZA TRANSFUZIJSKU MEDICINU - Institute of transfusional medicine	1
+ ZAVOD ZA MEDICINU RADA - Occupational health institute	1
+ ZAVOD ZA TOKSIKOLOGIJU - Institute of toxicology	1
USTANOVA ZA HITNU POMOĆ - Emergency care station	4
POLIKLINIKA - Polyclinic	314
USTANOVA ZA MEDICINU RADA - Institution of occupational health	12
LJEKARNA - Pharmacy	177
USTANOVA ZA NJEGU - Nursing care institution	153
TRGOVAČKO DRUŠTVO ZA OBAVLJANJE ZDRAV. DJELATNOSTI - Health company	46
<b>Ukupno - Total</b>	<b>848</b>

\* Ustanove bez obzira na vrstu vlasništva - Institutions regardless of the type of ownership

## Total health expenditure as % of gross domestic product (GDP), WHO estimates

Total health expenditure as % of gross domestic product (GDP), WHO estimates																
Years	Austria	Belgium	Bulgaria	Croatia	Czech Republic	Denmark	Estonia	France	Germany	Hungary	Latvia	Netherlands	Poland	Portugal	Slovakia	Slovenia
1998	7.6	8.3	5.1	7.9	6.6	8.4	5.6	9.3	10.6	7.3	6.3	8.2	6.1	8.4	5.7	7.8
1999	7.6	8.5	6.1	8.7	6.6	8.5	6.1	9.3	10.6	7.4	6.4	8.4	5.9	8.7	5.8	7.7
2000	7.5	8.5	6.2	9.3	6.6	8.4	5.5	9.3	10.6	7.1	6.1	8.3	5.7	9.2	5.5	8.6
2001	7.4	8.7	7.2	8.4	6.9	8.6	5.1	9.4	10.8	7.4	6.2	8.7	6.1	9.4	5.6	9.1
2002	7.5	8.9	7.9	7.8	7.2	8.8	5.1	9.7	10.9	7.8	6.3	9.3	6.6	9.3	5.7	8.9
2003	7.5	9.4	7.5	7.8	7.5	9.1	5.3	10.1	11.1	8.4	6.4	9.8	6.5	9.6	5.9	8.8
2004	10.3	9.7	8.1	7.7	7.3	8.6	5.3	10.5	10.6	7.9	7.1	9.2	6.2	9.8	7.2	8.7
2005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2006	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Source: European Health for All Database, WHO - Regional Office for Europe, 2007

# Croatia: Structure of health workers in health institutions, year 2006

**Tablica - Table 2. BROJ ZDRAVSTVENIH DJELATNIKA ZAPOSLENIH U DRŽAVNIM ZDRAVSTVENIM USTANOVAMA PREMA VRSTI RADNOG ODNOSA I BROJ STANOVNIKA NA JEDNOG ZDRAVSTVENOG DJELATNIKA U HRVATSKOJ 2006. GODINE - Health workers employed in state and county institutions (permanent job and total) and population per one health worker, Croatia 2006**

Zdravstveni djelatnici	Neodređeno	Broj stanovnika na 1 zdrav. djelatnika	Sveukupno	Broj stanovnika na 1 zdrav. djelatnika
<i>Health workers</i>	<i>Permanent</i>	<i>Population per one health worker</i>	<i>Total</i>	<i>Population per one health worker</i>
Doktori medicine - <i>Medical doctors</i>	7.993	566	8.805	512
Doktori stomatologije - <i>Stomatologists</i>	495	8.857	586	7.625
Farmaceuti - <i>Pharmacists</i>	1.031	4.355	1.110	4.001
Suradnici s visokom stručnom spremom - <i>Other university degree staff</i>	723	6.413	871	5.227
Viša stručna sprema - <i>Junior college education</i>	5.713	803	6.591	699
Srednja stručna sprema - <i>High school education</i>	18.234	247	22.291	201
Niža stručna sprema - <i>Semi-skilled</i>	364	11.437	390	10.392
<b>Ukupno - Total</b>	<b>34.553</b>	<b>131</b>	<b>40.644</b>	<b>111</b>

**Tablica - Table 2a. BROJ ZDRAVSTVENIH DJELATNIKA ZAPOSLENIH U PRIVATNIM ZDRAVSTVENIM USTANOVAMA PREMA VRSTI RADNOG ODNOSA U HRVATSKOJ 2006. GODINE - Health institutions' health workers in private sector (permanent job and total), Croatia 2006**

Zdravstveni djelatnici	Neodređeno	Sveukupno
<i>Health workers</i>	<i>Permanent</i>	<i>Total</i>
Doktori medicine - <i>Medical doctors</i>	413	427
Doktori stomatologije - <i>Stomatologists</i>	85	91
Farmaceuti - <i>Pharmacists</i>	836	901
Suradnici s visokom stručnom spremom - <i>Other university degree staff</i>	13	18
Viša stručna sprema - <i>Junior college education</i>	402	503
Srednja stručna sprema - <i>High school education</i>	2.225	3.114
Niža stručna sprema - <i>Semi-skilled</i>	6	8
<b>Ukupno - Total</b>	<b>3.980</b>	<b>5.062</b>



## Croatia: Structure of health workers in health institutions, year 2006

**Tablica - Table 2c. UKUPAN BROJ ZDRAVSTVENIH DJELATNIKA ZAPOSLENIH U DRŽAVNIM I PRIVATNIM ZDRAVSTVENIM USTANOVAMA I PRIVATNOJ PRAKSI PREMA VRSTI RADNOG ODNOSA TE BROJ STANOVNIKA NA JEDNOG ZDRAVSTVENOG DJELATNIKA U HRVATSKOJ 2006. GODINE - Health workers employed in state institutions and in private practice (permanent job and total) and population per one health worker, Croatia 2006**

Zdravstveni djelatnici	Neodređeno	Broj stanovnika na 1 zdrav. djelatnika	Sveukupno	Broj stanovnika na 1 zdrav. djelatnika
<i>Health workers</i>	<i>Permanent</i>	<i>Population per one health worker</i>	<i>Total</i>	<i>Population per one health worker</i>
Doktori medicine - <i>Medical doctors</i>	11.250	400	12.149	369
Doktori stomatologije - <i>Stomatologists</i>	3.185	1.402	3.364	1.337
Farmaceuti - <i>Pharmacists</i>	2.549	1.789	2.720	1.669
Suradnici s visokom stručnom spremom - <i>Other university degree staff</i>	748	6.198	901	5.071
Viša stručna sprema - <i>Junior college education</i>	6.668	687	7.669	598
Srednja stručna sprema - <i>High school education</i>	25.887	174	31.368	143
Niža stručna sprema - <i>Semi-skilled</i>	400	10.466	429	9.462
<b>Ukupno - <i>Total</i></b>	<b>50.687</b>	<b>89</b>	<b>58.600</b>	<b>77</b>

# Hospital-type facilities in Croatia, year 2006

## STACIONARNE ZDRAVSTVENE USTANOVE U HRVATSKOJ U 2006. GODINI - Hospital-type Facilities in Croatia 2006

Tablica - Table 1. RAD STACIONARNIH USTANOVA U HRVATSKOJ U 2006. GODINI  
- Hospital-type facility operation, Croatia 2006

Županija	Sveukupno	Liječenje akutnih bolesnika - ukupno	Opće boln. stacionari i izvanbolnička rođilišta	KBC, kliničke bolnice i klinike	Liječenje kroničnih bolesnika	
	1 (2+5)	2 (3+4)	3	4	5	
County	Total	Acute patient treatment total	General hospitals, infirmaries and outpat. matern.	Clin. teach. hosp., clin. hospitals and clinics	Chronic patient treatment	
<b>HRVATSKA - Croatia</b>						
1. Broj postelja	- No. of beds	24.237	15.997	7.504	8.493	8.240
2. Broj postelja na 1000 stanovnika	- No. of beds per 1,000 pop.	5,46	3,60	1,69	1,91	1,86
3. Broj doktora	- No. of doctors	4.788	4.389	1.871	2.518	399
4. Broj postelja po jednom doktoru	- No. of beds per doctor	5,1	3,6	4,0	3,4	20,7
5. Broj ispisanih bolesnika	- No. of patients discharged	752.453	667.543	333.967	333.576	84.910
6. Broj dana bolničkog liječenja	- No. of bed days	7.479.340	5.053.305	2.322.030	2.731.275	2.426.035
7. Prosječna dužina liječenja	- Average length of treatment	9,94	7,57	6,95	8,19	28,57
8. Godišnja zauzetost postelja	- Annual bed occupancy	309	316	309	322	294
9. % iskorištenosti postelja	- Bed utilization (%)	84,55	86,55	84,78	88,11	80,66
10. Broj pacijenata po krevetu	- No. of patients per bed	31,05	41,73	44,51	39,28	10,30
11. Interval obrtaja	- Turnover interval	1,82	1,18	1,25	1,11	6,85

# No. of beds & average length of stay in hospital-type facilities in Croatia, year 2006

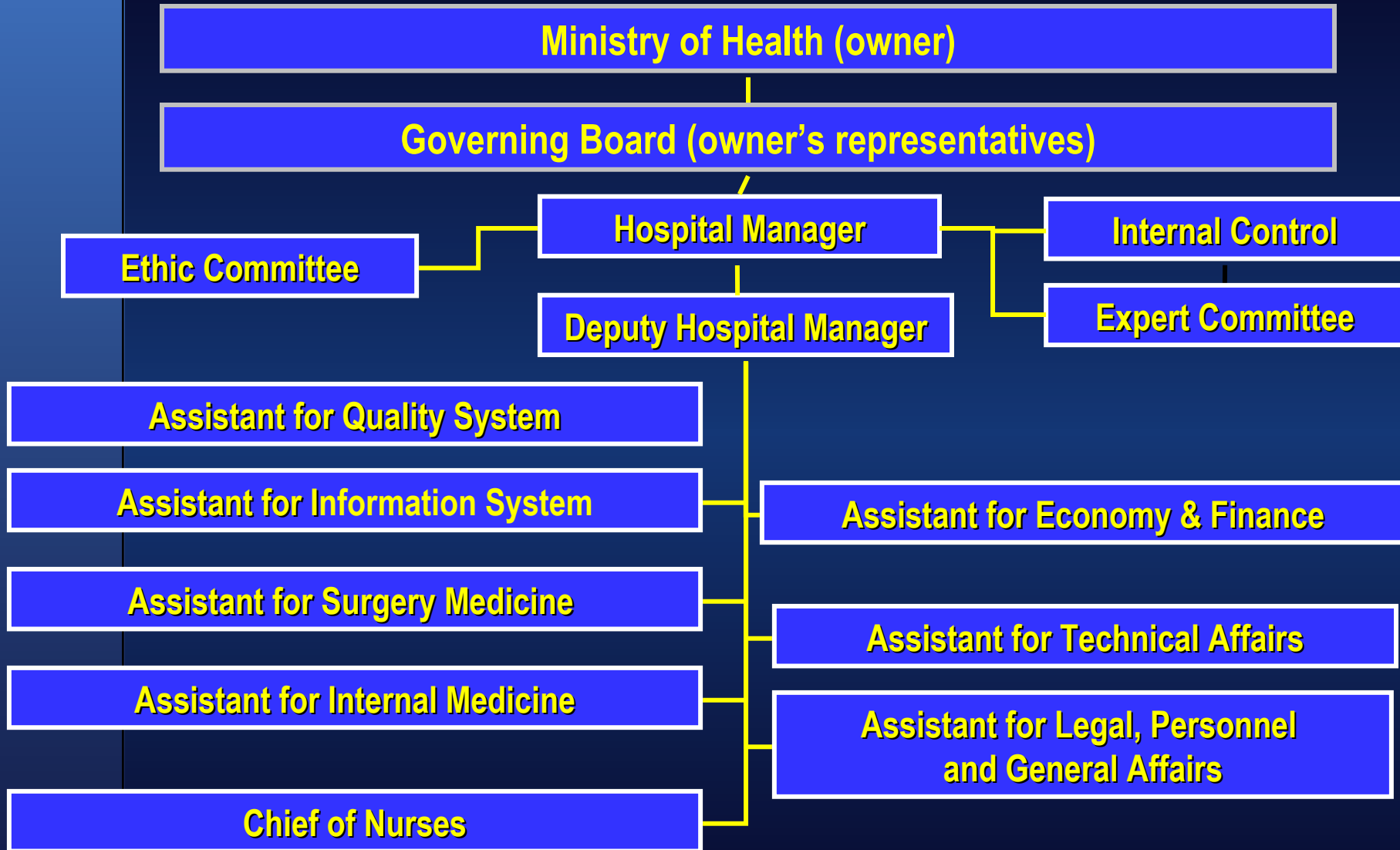
**Tablica - Table 2.** BROJ POSTELJA NA 1.000 STANOVNIKA I PROSJEČNA DUŽINA LIJEČENJA PO SPECIJALNOSTIMA U STACIONARNIM USTANOVAMA U HRVATSKOJ 2006. GODINE - Beds per 1,000 population and average length of treatment in hospital-type facilities by specialty, Croatia 2006

Specijalnosti		Broj postelja na 1.000 stanovnika	Prosječna dužina liječenja
Specialty		No. of beds per 1,000 population	Average length of treatment
<b>Ukupno</b>	<b>Total</b>	<b>5,46</b>	<b>9,94</b>
Interna	- Medicine	0,78	8,98
Infektologija	- Infectology	0,12	7,44
Reanimacija i anestezija	- Resuscitation and anesthesia	0,04	4,92
Kirurgija i traumatologija	- Surgery and traumatology	0,72	6,96
Neurokirurgija	- Neurosurgery	0,04	7,62
Čeljusna kirurgija	- Maxillary surgery	0,03	8,92
Ortopedija	- Orthopedics	0,11	8,77
Urologija	- Urology	0,09	5,79
Ginekologija i porodništvo	- Gynecology and obstetrics	0,46	5,56
ORL	- Otorhinolaryngology	0,13	5,53
Oftalmologija	- Ophtalmology	0,10	4,56
Neurologija	- Neurology	0,20	8,68
Psihijatrija	- Psychiatry	0,19	14,24
Dermatovenerologija	- Dermatovenerology	0,04	12,71
Onkologija i radiologija	- Oncology and radiology	0,09	9,71
Pneumofiziologija	- Pneumophthisiology	0,10	10,36
Pedijatrija	- Pediatrics	0,26	6,81
Fizikalna medicina	- Physical medicine	0,06	12,54
Nuklearna medicina	- Nuclear medicine	0,01	7,49
Patofiziologija	- Patophysiology	0,00	8,83
Rehabilitacija	- Rehabilitation	0,79	21,49
Gerijatrija	- Geriatrics	0,15	21,25
Kronične dječje bolesti	- Chronic child diseases	0,04	40,55
Psihijatrija	- Psychiatry	0,74	50,29
TBC	- Tuberculosis	0,10	17,60
Ortopedija	- Orthopedics	0,07	14,50

## Public hospital capacities, contracted with Croatian Health Insurance Institute (CHII), year 2007

- No. of acute beds = 15.939
- No. of chronic beds = 5.952
- No. of beds - TOTAL = 21.891
  
- No. of specialist ambulances = 1.795
- No. of urgent specialist ambulances = 273
- No. of diagnostic ambulances = 1.336

# Organization chart of hospital management



## Structure of total incomes of public hospitals in Croatia, year 2007

INCOMES	Amount in 2007 (eur)	Participation in total income (%)
- from CHII	1.069.000.000	83,50
- from local and central budget	62.288.000	4,87
- from other sources	32.334.000	2,53
- from services to other health institutions	6.138.000	0,48
- other incomes	110.140.000	8,62
Incomes – TOTAL	1.279.900.000	100,00

## Structure of total expenditures of public hospitals in Croatia, year 2007

Expenditures	Amount in 2007 (eur)	Participation in total expenditures (%)
Material	446.119.000	32,88
Non-material	166.723.000	12,29
Wages	614.923.000	45,32
Capital investments	102.330.000	7,54
Other expenditures	26.659.000	1,97
Expenditures - TOTAL	1.356.754.000	100,00

# Characteristics of business performance of public hospitals in Croatia

- Successive increase of working program realization (No. of patients, No. of bed days)
- Income deficit until April 1<sup>st</sup>, 2008
- Constant increase of total and current liabilities
- Introducing of corrected hospital budgets since April 1<sup>st</sup>, 2008, in order to balance current incomes and expenditures
- According to the Report for April 2008, new measures effectively restrained increase of total and current liabilities
- Program of Croatian Government for year 2008 anticipates business performance consolidation of public health institutions and payment of current debts



## *Dubrovnik*



**Thank you.**