

# 16

# Health and Treatment





**T**his chapter presents data on manpower engaged in health and treatment division of the government sector, health and medical equipment and facilities of the government and private sectors, as well as activities carried out by government sector for prevention and treatment of diseases common among man and livestock.

Collection of statistical information on health and medical activities first started by the former Ministry of Health in 1335 and continued till 1364 by the Ministry.

By merging medical sciences universities and affiliated hospitals in 1364, the former Ministry of Health was renamed "Ministry of Health and Medical Education" with a new organization and was tasked with collecting and providing statistics on health activities. Since then, the Ministry has regularly produced the related statistics.

Statistics on physicians engaged in private sector are, at present, produced by the Organization for Medical Discipline, but due to obstacles in the way of presenting updated statistics, these data have not been included in the Statistical Yearbook yet.

Also, data for health and medical equipment and installations presented in this chapter relate to the establishments - except for armed forces - which have been operating at least for 6 months of the year.

It should be noted that since the type of substances used in spraying insecticides in the villages for combating malaria changed, the statistics for Abate larvicide and oil products

were omitted. Moreover, due to eradication of poliomyelitis, the related information was omitted.

### *Definitions and concepts*

**Physician:** persons who have completed their medical education in one of the universities within the country or abroad, and received their MD degrees approved by the Ministry of Health and Medical Education. Statistics for physicians also include dentists, veterinarians, and pharmacists.

Because of the diversified fields of medical specialities, data related to some specialities have been included under certain general titles in Table 2.

Specialities included in each title are as follows:

**Internal:** specialists in internal medicine, oncology, hematology, rheumatology, diseases of the pulmonary system, endocrinology, and diseases of the digestive system.

**Pediatrics:** children's orthopedics, nervous system, allergy, surgery, blood, infections, glands, heart, kidneys, digestive system, and neonatal diseases.

**Neuropsychiatry:** nervous disorders and psychiatry.

**Urology:** urology, kidney disorders, surgery of kidney and genitourinary tract.

**Orthopedics:** orthopedics and bone and joints surgery.

**Radiology:** radiology and sonography.

**Dentistry:** orthodontics, endodontics, oral and dental pathology, maxillofacial diseases, maxillofacial pathology, prosthodontics, periodontics, oral maxillofacial surgery, tooth treatment, children's tooth disorders.

**Pharmacology:** drug-making, industrial drug-

making, pharmacology, pharmaceutics, pharmacognosy.

In the tables containing data on specialists of cardiovascular disorders, brain and nerves, otolaryngology, ophthalmology, and gynecology, the related surgery specialists are also included.

**Paramedics:** non-physicians engaged in the areas of health and treatment.

**Health attendant (health aid):** a native resident of the village, who has at least completed primary school, and has passed the related two - year theoretical and practical health training course.

**Medical establishments:** all medical centres including hospitals, maternity hospitals and sanatoriums equipped with medical beds.

Medical establishments may be classified in three categories:

- Medical establishments affiliated to the Ministry of Health and Medical Education;
- Private medical establishments;
- Other medical establishments such as those affiliated to the Social Security Organization, charity institutions, Martyr Foundation, Bank Melli, etc.

**Hospital:** a place, enjoying diagnostic, medical, health, educational and research facilities for medical treatment of outpatients and hospitalization, is established under the licence of the Ministry of Health and Medical Education, with round- the- clock activity and is divided into general and special hospital.

**Maternity hospital:** a unit with at least 15 beds, one obstetrician as well as one operating room.

**Sanatorium:** a unit with at least 15 beds, general necessary facilities and services as well

as one specialized ward, operated by a group of specialists in related fields including mental homes, leper houses, homes for tuberculous people, for addicts, etc.

**Health care and medical centres:** clinics, polyclinics and health centres. Health centres generally render vaccination services beside medical services.

**Independent health and medical centres:** those with an independent management, accounting and workplace.

**Dependent health and medical centres:** the medical centres which are located either inside or next to medical establishments, have not an independent management, accounting and workplace, and are dependent on the main establishment for workers and credits.

**Health home:** the unit which is located in a village and often covers other several villages (satellite villages). A total population of 2000 with 2 authorized Bahvarzes (man and woman) is covered by a health home. Male and female Bahvarzans are the workers of health homes. Their indigenoussness (living at the main village or satellite villages) is a needed qualification.

**Medical diagnosis laboratory:** refers to a medical unit established by permission from the Ministry of Health and Medical Education, which carries out tests of biology microbiology, serology, biochemistry, immunohematology, hematology, biophysics, cellology, histology, cellular and molecular genetics among others on samples taken from human body to obtain information for diagnosis, prevention or treatment continuation or for a health checkup. It includes two types: clinical and anatomical.

**Anatomical medical diagnosis laboratory:** a medical diagnosis laboratory which conducts tests of cellology and histology on samples taken from human body (alive or dead). It may use different methods to conduct the tests.

**Clinical medical diagnosis laboratory:** a medical diagnosis laboratory with one or all sections of medical diagnosis except for the sections concerning anatomical diagnosis.

**Rehabilitation centres:** all medical units carrying out only physical treatment. These centres include physiotherapy, work therapy, speech therapy, audiometry, optometry and technical orthopedics. There are two forms of rehabilitation centres, independent and dependent. The rehabilitation centres located in a hospital or a clinic are "dependent", but those working independently of any other centre are called "independent". Statistics on this area have appeared in Iran Statistical Yearbook since 1376.

**Radiography centres:** diagnosis and treatment of diseases through application of rays by specialists in radiography, radiography technicians, as well as experimental radiographers holding a work license from the Ministry of Health and Medical Education. In this chapter, radiography centre refers to a place for radiology tests and providing radiography services, the qualification of which is confirmed by the Ministry of Health and Medical Education.

**Pharmacy:** a medical institute which is established by getting special licence from legal commission of Article 20. It, enjoying a qualified technical official, renders medicine services, dried milk, supplementary diet foods, babies' supplementary foods, medical

consumption commodities and standard health and cosmetic products.

#### ***Selected information***

In the year 1391, over 34,000 physicians were employed in the Ministry of Health and Medical Education, out of whom 14639, 2988 and 1317 persons were general practitioners, dentists, and pharmacists respectively. Also more than 203,000 paramedics were working.

In the year 1391, up to 131 thousand fixed beds were in use in 850 medical establishments (hospitals, maternity hospitals and sanatorium) of the country. It should be noted that about 62.5 percent of the above mentioned establishments are affiliated to the Ministry of Health and Medical Education.

Also in the same year, 11197 health care and medical centres (clinic, polyclinic and health centres) were operating in the country which increased by about 3.7 percent in comparison to the preceding year. It is noteworthy that about 77.4 percent of these health care and medical centres were affiliated to the Ministry of Health and Medical Education. In the year 1391, a number of 17714 health homes were operating in the rural areas of the country.

In the year 1391, there were 5207 medical diagnosis laboratories, 5337 rehabilitation centres, 3231 radiology centres and 9501 pharmacies in the country.

During the year 1388, the maximum number of vaccinations made in the units of the Ministry of Health and Medical Education was related to poliomyelitis V. (6862 thousand cases), BCG.V. (TB.V.) (4570 thousand cases), hepatitis B. (4197 thousand cases) respectively.

### 16. 1. EMPLOYED POPULATION IN THE MINISTRY OF HEALTH AND MEDICAL EDUCATION BY OCCUPATION GROUP

Year and Ostan	Total	Physicians <sup>(1)</sup>	Paramedics	Other employees
1375.....	269894	19585	149380	100929
1380.....	295325	21175	152396	121754
1385.....	321544	29937	173076	118531
1387.....	000	000	000	000
1388.....	285992	29188	176417	<sup>(2)</sup> 80387
1389.....	<sup>(3)</sup> 302679	30302	188910	83467
1390.....	361627	32493	215950	113184
<b>1391.....</b>	<b>350394</b>	<b>34219</b>	<b>203993</b>	<b>112182</b>
East Azarbayejan .....	2845	466	2379	000
West Azarbayejan .....	14960	1325	9386	4249
Ardebil.....	6414	540	4021	1853
Esfahan.....	25317	2186	15137	7994
Alborz.....	5011	640	2603	1768
Ilam.....	1920	375	1545	000
Bushehr.....	6356	563	3486	2307
Tehran .....	46110	5704	22294	18112
Chaharmahal&Bakhtiyari.....	6892	629	4071	2192
South Khorasan.....	4062	396	2428	1238
Khorasan-e-Razavi.....	26640	2663	15470	8507
North Khorasan.....	4432	408	2685	1339
Khuzestan.....	23596	2340	14139	7117
Zanjan <sup>(4)</sup> .....	751	114	495	142
Semnan.....	5359	567	2766	2026
Sistan&Baluchestan .....	14290	1169	8448	4673
Fars.....	29846	2521	18085	9240
Qazvin.....	4944	653	2686	1605
Qom .....	4997	523	2752	1722
Kordestan.....	8157	773	5353	2031
Kerman .....	15669	1328	9387	4954
Kermanshah .....	10815	979	6584	3252
Kohgiluyeh&Boyerahmad.....	5281	407	3307	1567
Golestan .....	10633	1031	6528	3074
Gilan .....	15051	1431	8904	4716
Lorestan .....	9850	843	6041	2966
Mazandaran .....	4536	534	2320	1682
Markazi .....	7736	607	4374	2755
Hormozgan .....	8302	723	5154	2425
Hamedan .....	11626	1097	6667	3862
Yazd .....	7996	684	4498	2814

1. Including foreign physicians, dentists, pharmacists and veterinarians, excluding the year 1388.

2. Including veterinarians.

3. East Azarbayejan (Tabriz University of Medical Sciences) excludes the information of other employees and also the University of Maraghe in the year 91.

4. Undercounted figures in Zanjan Ostan in the year 1391.

Source: Ministry of Health and Medical Education.

## 16. 2. PHYSICIANS<sup>(1)</sup> EMPLOYED IN THE MINISTRY OF HEALTH AND MEDICAL EDUCATION BY FIELD AND TYPE OF SPECIALITY

Year and Ostan	Grand total	General practitioner	Dentist	Veterinarian	Pharmacist	Specialist		
						Total	Internal <sup>(2)</sup>	Cardio-vascular
1375.....	<sup>(4,3)</sup> 19585	9057	1748	92	1179	7423	801	288
1380.....	21175	8568	1945	527	1069	9066	1029	372
1385.....	29937	13485	2786	81	1327	12258	1102	604
1387.....	000	000	000	000	000	000	000	000
1388.....	000	000	000	000	000	000	000	000
1389.....	<sup>(5)</sup> 30302	<sup>(5)</sup> 14239	<sup>(5)</sup> 2556	<sup>(5)</sup> 1209	000	12298	994	000
1390.....	32493	14901	3625	15	1731	000	850	000
<b>1391.....</b>	<b>34219</b>	<b>14639</b>	<b>2988</b>	<b>000</b>	<b>1317</b>	<b>15275</b>	<b>1190</b>	<b>000</b>
East Azarbayejan .....	466	342	97	000	4	23	000	000
West Azarbayejan .....	1325	658	101	000	41	525	167	000
Ardebil.....	540	285	43	000	13	199	39	000
Esfahan.....	2186	1132	223	000	81	750	65	000
Alborz.....	640	303	44	000	33	260	27	000
Ilam.....	375	171	40	000	22	142	10	000
Bushehr .....	563	261	63	000	17	222	17	000
Tehran .....	5704	1267	440	000	276	3721	170	000
Chaharmahal&Bakhtiyari....	629	373	50	000	20	186	25	000
South Khorasan.....	396	160	42	000	22	172	18	000
Khorasan-e-Razavi.....	2663	1076	186	000	139	1262	83	000
North Khorasan.....	408	215	40	000	16	137	17	000
Khuzestan.....	2340	940	124	000	83	1193	81	000
Zanjan.....	114	64	21	000	5	24	3	000
Semnan.....	567	198	36	000	20	313	35	000
Sistan&Baluchestan .....	1169	668	72	000	26	403	29	000
Fars.....	2521	1122	172	000	108	1119	51	000
Qazvin.....	653	290	119	000	19	225	14	000
Qom .....	523	231	29	000	19	244	25	000
Kordestan.....	773	345	68	000	16	344	22	000
Kerman .....	1328	574	166	000	43	545	31	000
Kermanshah .....	979	435	81	000	46	417	27	000
Kohgiluyeh&Boyerahmad	407	195	40	000	12	160	13	000
Golestan .....	1031	585	78	000	46	322	25	000
Gilan .....	1431	644	154	000	25	608	56	000
Lorestan .....	843	481	53	000	24	285	31	000
Mazandaran .....	534	171	92	000	21	250	11	000
Markazi .....	607	306	66	000	42	193	24	000
Hormozgan.....	723	372	31	000	14	306	18	000
Hamedan .....	1097	471	150	000	41	435	25	000
Yazd .....	684	304	67	000	23	290	31	000

**16. 2. PHYSICIANS<sup>(1)</sup> EMPLOYED IN THE MINISTRY OF HEALTH AND MEDICAL EDUCATION BY FIELD AND TYPE OF SPECIALITY (continued)**

Year and Ostan	Specialist							
	Infectious	Pediatrics <sup>(2)</sup>	Neuro- psychiatry	Venereal &dermato logy	General surgery	Urology	Orthopedics	Brain & nerves
1375.....	164	1008	226	167	852	220	375	236
1380.....	201	1193	312	205	821	180	410	281
1385.....	347	1340	509	257	1024	431	702	398
1387.....	000	000	000	000	000	000	000	000
1388.....	000	000	000	000	000	000	000	000
1389.....	000	<sup>(5)</sup> 1054	000	000	<sup>(5)</sup> 845	000	000	000
1390.....	000	978	000	000	712	000	000	000
<b>1391.....</b>	<b>000</b>	<b>1032</b>	<b>000</b>	<b>000</b>	<b>825</b>	<b>000</b>	<b>000</b>	<b>000</b>
East Azarbayejan.....	000	000	000	000	000	000	000	000
West Azarbayejan .....	000	55	000	000	42	000	000	000
Ardebil.....	000	13	000	000	14	000	000	000
Esfahan.....	000	57	000	000	43	000	000	000
Alborz.....	000	28	000	000	19	000	000	000
Ilam.....	000	15	000	000	10	000	000	000
Bushehr.....	000	18	000	000	11	000	000	000
Tehran .....	000	201	000	000	161	000	000	000
Chaharmahal&Bakhtiyari.....	000	17	000	000	18	000	000	000
South Khorasan.....	000	10	000	000	11	000	000	000
Khorasan-e-Razavi.....	000	73	000	000	65	000	000	000
North Khorasan.....	000	9	000	000	8	000	000	000
Khuzestan.....	000	76	000	000	74	000	000	000
Zanjan.....	000	5	000	000	2	000	000	000
Semnan.....	000	29	000	000	13	000	000	000
Sistan&Baluchestan .....	000	32	000	000	25	000	000	000
Fars.....	000	58	000	000	46	000	000	000
Qazvin.....	000	18	000	000	9	000	000	000
Qom .....	000	11	000	000	11	000	000	000
Kordestan.....	000	19	000	000	25	000	000	000
Kerman .....	000	30	000	000	22	000	000	000
Kermanshah .....	000	29	000	000	26	000	000	000
Kohgiluyeh&Boyerahmad.....	000	18	000	000	14	000	000	000
Golestan .....	000	33	000	000	24	000	000	000
Gilan .....	000	56	000	000	42	000	000	000
Lorestan .....	000	24	000	000	18	000	000	000
Mazandaran .....	000	6	000	000	9	000	000	000
Markazi .....	000	18	000	000	12	000	000	000
Hormozgan .....	000	21	000	000	17	000	000	000
Hamedan .....	000	31	000	000	15	000	000	000
Yazd .....	000	22	000	000	19	000	000	000



### 16. 2. PHYSICIANS<sup>(1)</sup> EMPLOYED IN THE MINISTRY OF HEALTH AND MEDICAL EDUCATION BY FIELD AND TYPE OF SPECIALITY (continued)

Year and Ostan	Specialist							
	Otolaryngology	Ophthalmology	Gynecology	Plastic surgery	Anesthesiology	Radiology	Pathology	Other
1375.....	304	422	790	45	375	430	183	537
1380.....	359	470	948	45	926	511	349	454
1385.....	445	615	1285	58	1189	635	478	839
1387.....	000	000	000	000	000	000	000	000
1388.....	000	000	000	000	000	000	000	000
1389.....	000	000	<sup>(5)</sup> 1065	000	<sup>(5)</sup> 1078	000	000	<sup>(5)</sup> 7262
1390.....	000	000	1001	000	1102	000	000	7578
<b>1391.....</b>	<b>000</b>	<b>000</b>	<b>1078</b>	<b>000</b>	<b>1197</b>	<b>000</b>	<b>000</b>	<b>9953</b>
East Azarbayejan..	000	000	000	000	2	000	000	21
West Azarbayejan	000	000	52	000	47	000	000	162
Ardebil.....	000	000	16	000	19	000	000	98
Esfahan.....	000	000	65	000	56	000	000	464
Alborz.....	000	000	28	000	114	000	000	44
Ilam.....	000	000	11	000	11	000	000	85
Bushehr.....	000	000	17	000	14	000	000	145
Tehran .....	000	000	187	000	235	000	000	2767
Chaharmahal& Bakhtiyari.....	000	000	21	000	17	000	000	88
South Khorasan....	000	000	9	000	12	000	000	112
Khorasan-e- Razavi.....	000	000	76	000	97	000	000	868
North Khorasan....	000	000	10	000	9	000	000	84
Khuzestan.....	000	000	89	000	78	000	000	795
Zanjan.....	000	000	4	000	2	000	000	8
Semnan.....	000	000	25	000	12	000	000	199
Sistan&Baluchest an.....	000	000	30	000	32	000	000	255
Fars.....	000	000	51	000	77	000	000	836
Qazvin.....	000	000	16	000	18	000	000	150
Qom .....	000	000	17	000	19	000	000	161
Kordestan.....	000	000	34	000	27	000	000	217
Kerman .....	000	000	33	000	28	000	000	401
Kermanshah .....	000	000	32	000	40	000	000	263
Kohgiluyeh& Boyerahmad .....	000	000	14	000	14	000	000	87
Golestan .....	000	000	41	000	26	000	000	173
Gilan .....	000	000	57	000	56	000	000	341
Lorestan .....	000	000	31	000	30	000	000	151
Mazandaran.....	000	000	17	000	16	000	000	191
Markazi .....	000	000	21	000	15	000	000	103
Hormozgan .....	000	000	27	000	20	000	000	203
Hamedan .....	000	000	26	000	32	000	000	306
Yazd .....	000	000	21	000	22	000	000	175

1. Including foreign physicians, excluding the year 1389.

2. Including super-specialist, excluding the year 1389.

3. Difference between the total and sum of parts is due to the inclusion in the total of physicians with their speciality not specified.

4. Excluding Gilan Ostan.

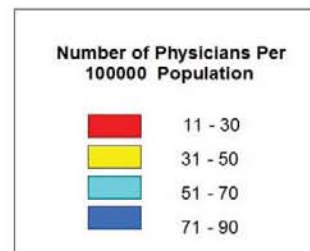
5. Including statistics for physicians with PhD in laboratory science and super specialist.

Source: Ministry of Health and Medical Education.

**16.1 NUMBER OF PHYSICIANS PER 100000 POPULATION, THE YEAR 1391**



For data see Tabela 16.1. and 2.2 .



### 16. 3. PARAMEDICS EMPLOYED IN THE MINISTRY OF HEALTH AND MEDICAL EDUCATION BY FIELD AND TYPE OF SPECIALITY

Field and type of speciality	1375	1380	1385	1387	1388	1389	1390	1391
<b>Total.....</b>	<b>149380</b>	<b>152394</b>	<b>173076</b>	<b>000</b>	<b>176417</b>	<b>188910</b>	<b>215950</b>	<b>203993</b>
Assistant doctor (Behdar).....	175	158	229	000	000	000	000	000
Mental health expert.....	615	617	730	000	000	000	000	000
Optometry expert, associate and technician..	118	299	196	000	000	000	000	000
Audiometry expert, associate and technician	212	241	265	000	000	000	000	000
Person in charge of blood transfusion.....	635	728	814	000	000	000	000	000
Prosthodontist (technician).....	117	96	97	000	000	000	000	000
Oral hygienist.....	1881	1499	1259	000	000	000	000	000
Nurse holding B.S or higher degree.....	16396	25074	33605	000	41629	49129	59490	59295
Nurse holding associate degree.....	1950	914	684	000	000	594	000	468
Midwife.....	6590	8105	10555	000	11642	14162	16429	17034
Health worker and assistant health worker ..	37508	27200	24039	000	<sup>(1)</sup> 12647	12854	20007	14238
Health attendant (Behvarz).....	23361	<sup>(2)</sup> 000	27620	000	23380	25824	28691	29528
Anesthetist expert, associate and technician.....	2158	2606	3078	000	<sup>(3)</sup> 2538	3670	4395	4478
Operating room associate and technician.....	2900	2945	3671	000	3956	4719	5226	5502
Dialysis technician.....	105	111	170	000	000	000	000	000
Person in charge of medical emergency.....	1360	1437	2046	000	000	000	000	000
Rehabilitation expert, associate, and technician.....	909	764	704	000	000	000	000	000
Person in charge of orthopedics.....	172	22	17	000	000	000	000	000
Assistant of the disabled .....	2603	2036	2051	000	000	000	000	000
Environmental health expert, associate, and technician.....	3163	4643	5359	000	000	000	000	000
Entomologist(in fighting vectors).....	21	38	78	000	000	000	000	000
Expert, associate, and technician for fighting diseases.....	<sup>(4)</sup> 6987	5787	6445	000	000	000	000	000
Expert and associate on occupational health.....	599	1060	1283	000	000	000	000	000
Health services trainer.....	238	347	429	000	000	000	000	000
Expert, associate and technician on pharmaceutical affairs.....	4020	3247	3256	000	000	000	000	000
Expert, associate and technician on food planning and services.....	485	813	1006	000	000	000	000	000
Expert, associate and technician on food, cosmetics and hygienic stuff.....	414	395	444	000	000	000	000	000
Radiography expert, associate, and technician.....	3644	4019	4802	000	000	000	000	000
Electro-cardiography technician.....	95	98	136	000	000	000	000	000
Medical laboratory expert, associate, and technician.....	<sup>(5)</sup> 10219	<sup>(5)</sup> 10223	11304	000	000	000	000	000
Person in charge of dissection room .....	76	21	18	000	000	000	000	000
Hospital affairs expert.....	209	262	449	000	000	000	000	000
Health and treatment social worker.....	414	294	394	000	000	000	000	000
Receptionist and in charge of medical records.....	2105	2857	3779	000	000	000	000	000
Family health expert, associate, and technician.....	5361	<sup>(2)</sup> 33783	11279	000	000	000	000	000
Other paramedics.....	11565	9655	10785	000	<sup>(6)</sup> 80625	<sup>(7)</sup> 77958	81712	73450

1. Including health workers only.

2. Included in family health technician.

3. Including anesthetist technician statistics only.

4. Including health assistants, too.

5. Including medical laboratory doctorates (non-physicians).

6. Including other specialties except for nurse with B.S degree and higher, nurse with associate degree, midwife, health worker, health attendant, anesthetist technician, operating room associate and technician.

7. Excluding Gilan Ostan.

Source: Ministry of Health and Medical Education.

#### 16. 4. NUMBER AND BEDS OF OPERATING MEDICAL ESTABLISHMENTS BY LEGAL STATUS

Year and Ostan	Total		Affiliated to the Ministry of Health and Medical Education		Private		Other <sup>(1)</sup>	
	Establish-ments	Beds	Establish-ments	Beds	Establish-ments	Beds	Establish-ments	Beds
1375.....	685	98549	479	72089	113	9550	93	16910
1380.....	717	109152	479	76167	119	11191	119	21794
1385.....	773	116474	505	79772	128	12594	140	24108
1387.....	818	120580	536	81762	130	13324	152	25494
1388.....	845	<sup>(2)</sup> 114501	522	<sup>(2)</sup> 78266	<sup>(3,2)</sup> 144	<sup>(4,2)</sup> 12527	179	<sup>(5,4,2)</sup> 23708
1389.....	846	126845	540	86938	132	13514	174	26393
1390.....	805	103365	503	79187	128	7087	174	17091
<b>1391.....</b>	<b>850</b>	<b>131140</b>	<b>531</b>	<b>90033</b>	<b>146</b>	<b>13436</b>	<b>173</b>	<b>27671</b>
East Azarbayejan.....	41	7260	29	5751	6	563	6	946
West Azarbayejan .....	30	4169	24	3371	3	338	3	460
Ardebil .....	15	2007	10	1565	2	100	3	342
Esfahan .....	56	9065	37	6475	7	545	12	2045
Alborz.....	14	2292	10	1306	3	670	1	316
Ilam .....	11	1165	9	1101	2	64	0	0
Bushehr .....	10	1369	8	1037	0	0	2	332
Tehran <sup>(6)</sup> .....	156	30967	50	14605	60	5799	46	10563
Chaharmahal&Bakhtiyari ...	9	1362	8	1170	0	0	1	192
South Khorasan.....	8	722	6	654	0	0	2	68
Khorasan-e-Razavi.....	57	9758	35	6807	6	727	16	2224
North Khorasan.....	8	919	6	767	0	0	2	152
Khuzestan.....	46	7624	26	5083	4	494	16	2047
Zanjan.....	11	1598	8	1358	0	0	3	240
Semnan.....	9	1381	7	1157	0	0	2	224
Sistan&Baluchestan .....	15	2187	15	2187	0	0	0	0
Fars .....	68	8478	48	6767	12	903	8	808
Qazvin .....	14	2133	7	1267	4	421	3	445
Qom .....	9	1674	6	1297	0	0	3	377
Kordestan ..	14	2251	10	1891	1	50	3	310
Kerman .....	28	4347	17	3072	4	170	7	1105
Kermanshah ..	24	3064	18	2284	2	200	4	580
Kohgiluyeh&Boyerahmad	9	794	5	611	1	50	3	133
Golestan .....	22	2665	14	1912	5	340	3	413
Gilan .....	26	3940	19	3148	6	492	1	300
Lorestan .....	23	2447	14	1765	5	312	4	370
Mazandaran .....	41	5244	29	4225	6	548	6	471
Markazi .....	14	1945	13	1513	1	116	0	316
Hormozgan .....	22	2209	15	1499	2	114	5	596
Hamedan .....	20	3115	15	2499	1	100	4	516
Yazd .....	20	2989	13	1889	3	320	4	780

1. Including medical establishments affiliated to the Social Security Organization, charity organizations, etc.

2. Excluding Kohgiluyeh&Boyerahmad.

3. Excluding Semnan Ostan.

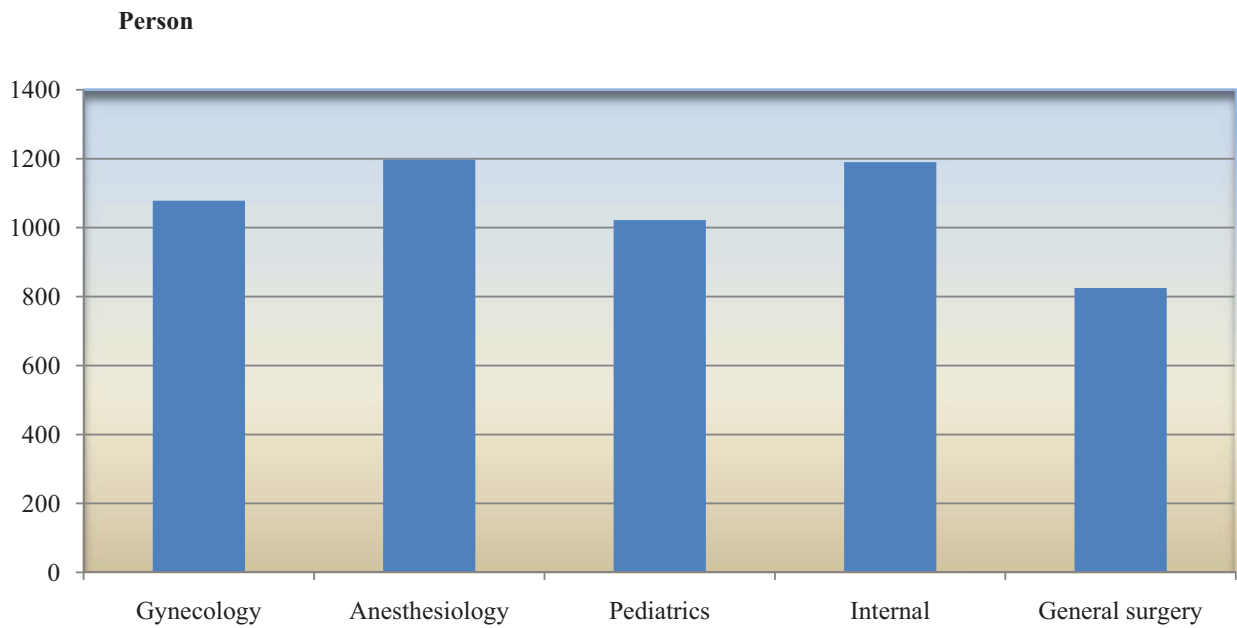
4. Excluding Kermn Ostan..

5. Excluding Qom Ostan.

6. Excluding the data of Tehran University of Medical Sciences in the year 1390.

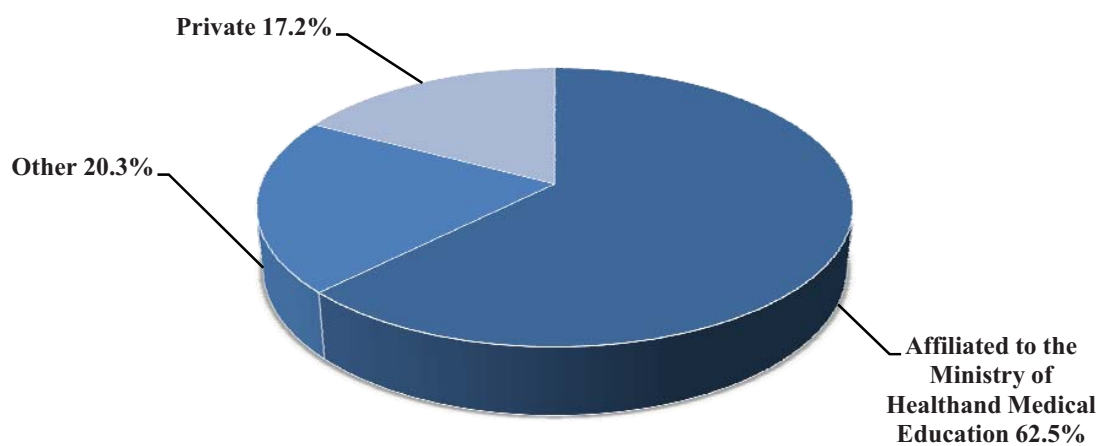
Source: Ministry of Health and Medical Education.

**16.2. PHYSICIANS EMPLOYED IN THE MINISTRY OF HEALTH AND MEDICAL EDUCATION BY TYPE OF SPECIALITY, THE YEAR 1391**



For data see Table 16.2.

**16.3. DISTRIBUTION OF MEDICAL ESTABLISHMENTS BY LEGAL STATUS, THE YEAR 1391**



For data see Table 16.4.



**16. 5. OPERATING MEDICAL ESTABLISHMENTS BY FIELD OF SPECIALITY**

Field of speciality	1380	1385	1387	1388	1389	1390	1391 <sup>(1)</sup>
<b>Total</b> .....	<sup>(2)</sup> 717	773	818	845	846	805	000
General practice .....	572	624	670	-	000	000	000
Speciality.....	144	149	148	-	000	000	000
Gynecology and obstetrics .....	58	53	60	-	000	000	000
Pediatrics.....	20	18	17	-	000	000	000
Mental health .....	16	21	21	-	000	000	000
Ophthalmology.....	5	11	8	-	000	000	000
Cardiovascular .....	8	10	7	-	000	000	000
Accidents and burns.....	8	6	8	-	000	000	000
Cancer .....	5	5	6	-	000	000	000
Neuropsychiatry.....	10	9	8	-	000	000	000
Orthopedics.....	4	5	3	-	000	000	000
Infectious diseases.....	1	2	1	-	000	000	000
Leprosy .....	2	2	1	-	000	000	000
Otolaryngology .....	1	1	2	-	000	000	000
Pulmonary disorders .....	2	1	1	-	000	000	000
Urology .....	2	2	1	-	000	000	000
Dermatology.....	1	1	1	-	000	000	000
Maxillofacial diseases.....	1	2	3	-	000	000	000

1. No information is available.

2. Difference between the total and the parts is due to the inclusion in the total of hospitals engaged in oncology and hematology and other fields of practices.

Source: Ministry of Health and Medical Education.

### 16. 6. HEALTH AND TREATMENT CENTRES BY GEOGRAPHICAL, LEGAL AND ADMINISTRATIVE STATUS AND WORKING TIME

Year and Ostan	Geographical status			Legal status		
	Total	Urban	Rural	Affiliated to the Ministry of Health and medical Education	Private	Other
1375.....	5797	3756	2041	4921	219	657
1380.....	7089	4742	2347	5675	452	962
1385.....	8288	5786	2502	6390	856	1042
1387.....	9142	6582	2560	6768	1073	1301
1388.....	9861	7386	2475	7546	1242	<sup>(1)</sup> 1073
1389.....	11018	8236	2782	8797	1260	961
1390.....	10800	7886	2914	8454	1293	1053
<b>1391.....</b>	<b>11197</b>	<b>8255</b>	<b>2942</b>	<b>8669</b>	<b>1405</b>	<b>1123</b>
East Azarbayejan.....	582	412	170	431	93	58
West Azarbayejan .....	402	271	131	339	45	18
Ardebil .....	198	138	60	164	21	13
Esfahan.....	929	780	149	695	106	128
Alborz .....	235	221	14	147	65	23
Ilam .....	138	103	35	119	6	13
Bushehr .....	168	125	43	140	8	20
Tehran <sup>(2)</sup> .....	1438	1368	70	795	444	199
Chaharmahal&Bakhtiyari	170	82	88	154	4	12
South Khorasan.....	148	95	53	130	4	14
Khorasan-e-Razavi.....	929	722	207	740	63	126
North Khorasan.....	152	97	55	126	10	16
Khuzestan <sup>(3)</sup> .....	453	339	114	350	49	54
Zanjan .....	137	75	62	114	12	11
Semnan.....	114	88	26	90	6	18
Sistan&Baluchestan .....	512	345	167	477	19	16
Fars.....	662	434	228	516	86	60
Qazvin .....	154	106	48	118	23	13
Qom .....	140	127	13	89	25	26
Kordestan .....	219	146	73	192	11	16
Kerman .....	427	271	156	353	33	41
Kermanshah .....	244	171	73	186	34	24
Kohgiluyeh&Boyerahmad	141	83	58	111	18	12
Golestan .....	246	138	108	198	30	18
Gilan.....	326	223	103	267	30	29
Lorestan.....	239	150	89	210	18	11
Mazandaran.....	524	321	203	416	68	40
Markazi .....	219	145	74	187	13	19
Hormozgan.....	264	141	123	219	19	26
Hamedan .....	440	338	102	403	16	21
Yazd .....	247	200	47	193	26	28



**16. 6. HEALTH AND TREATMENT CENTRES BY GEOGRAPHICAL, LEGAL AND ADMINISTRATIVE STATUS AND WORKING TIME (continued)**

Year and Ostan	Type of administration		Working time	
	Independent	Dependent	Day	Day & night
1375.....	5050	747	4641	1156
1380.....	6066	1023	5725	1364
1385.....	6779	1509	6521	1767
1387.....	2123	7019	7159	1983
1388.....	-	-	-	-
1389.....	000	000	000	000
1390.....	000	000	000	000
<b>1391.....</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>
East Azarbayejan.....	000	000	000	000
West Azarbayejan .....	000	000	000	000
Ardebil .....	000	000	000	000
Esfahan.....	000	000	000	000
Alborz .....	000	000	000	000
Ilam .....	000	000	000	000
Bushehr .....	000	000	000	000
Tehran <sup>(2)</sup> .....	000	000	000	000
Chaharmahal&Bakhtiyari .....	000	000	000	000
South Khorasan.....	000	000	000	000
Khorasan-e-Razavi.....	000	000	000	000
North Khorasan.....	000	000	000	000
Khuzestan <sup>(3)</sup> .....	000	000	000	000
Zanjan .....	000	000	000	000
Semnan.....	000	000	000	000
Sistan&Baluchestan .....	000	000	000	000
Fars.....	000	000	000	000
Qazvin .....	000	000	000	000
Qom .....	000	000	000	000
Kordestan .....	000	000	000	000
Kerman .....	000	000	000	000
Kermanshah .....	000	000	000	000
Kohgiluyeh&Boyerahmad .....	000	000	000	000
Golestan .....	000	000	000	000
Gilan.....	000	000	000	000
Lorestan.....	000	000	000	000
Mazandaran.....	000	000	000	000
Markazi .....	000	000	000	000
Hormozgan.....	000	000	000	000
Hamedan .....	000	000	000	000
Yazd .....	000	000	000	000

1. Including establishments affiliated to the Social Security Organization, Charity Affairs, etc.

2. Excluding the data of Tehran University of Medical Sciences.

3. Excluding the data of Abadan University of Medical Sciences in the year 1391.

Source: Ministry of Health and Medical Education.

### 16. 7. HEALTH HOMES OPERATING IN RURAL AREAS AND THE POPULATION COVERED BY OSTAN

Year and Ostan	Operating health homes	Population covered	Workers (Behvarz)		
			Both sexes	Male	Female
1375.....	14146	19363345	22143	8829	13314
1380.....	16281	0	0	0	0
1385.....	17130	21700965	19288	7122	12166
1387.....	18060	000	29193	000	000
1388.....	17608	000	31795	12431	19364
1389.....	<sup>(1)</sup> 16823	000	000	000	000
1390.....	17649	000	000	000	000
<b>1391.....</b>	<b>17714</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>
East Azarbayejan.....	1066	000	000	000	000
West Azarbayejan .....	992	000	000	000	000
Ardebil .....	517	000	000	000	000
Esfahan.....	560	000	000	000	000
Alborz .....	64	000	000	000	000
Ilam .....	198	000	000	000	000
Bushehr .....	225	000	000	000	000
Tehran <sup>(2)</sup> .....	244	000	000	000	000
Chaharmahal&Bakhtiyari .....	310	000	000	000	000
South Khorasan.....	281	000	000	000	000
Khorasan-e-Razavi.....	1502	000	000	000	000
North Khorasan.....	369	000	000	000	000
Khuzestan.....	866	000	000	000	000
Zanjan .....	416	000	000	000	000
Semnan.....	136	000	000	000	000
Sistan&Baluchestan .....	902	000	000	000	000
Fars.....	1077	000	000	000	000
Qazvin .....	276	000	000	000	000
Qom .....	59	000	000	000	000
Kordestan .....	613	000	000	000	000
Kerman .....	833	000	000	000	000
Kermanshah .....	662	000	000	000	000
Kohgiluyeh&Boyerahmad .....	340	000	000	000	000
Golestan .....	609	000	000	000	000
Gilan.....	964	000	000	000	000
Lorestan.....	622	000	000	000	000
Mazandaran.....	1286	000	000	000	000
Markazi .....	395	000	000	000	000
Hormozgan.....	556	000	000	000	000
Hamedan .....	572	000	000	000	000
Yazd .....	202	000	000	000	000

1. Excluding Zanjan Ostan.

2. Excluding the data of Tehran University of Medical Sciences.

Source: Ministry of Health and Medical Education.

### 16.8. MEDICAL DIAGNOSIS LABORATORIES<sup>(1)</sup> BY ADMINISTRATIVE TYPE AND LEGAL STATUS AND WORKING TIME

Year and Ostan	legal status				Type of administration		Working time	
	Total	Affiliated to the Ministry of Health and Medical Education	Private	Other	Independent	dependent	Day <sup>(2)</sup>	Day & night
1375.....	2896	1768	783	345	808	2088	2313	583
1380.....	3701	1873	1355	473	1347	2354	3001	700
1385.....	4414	2071	1768	575	1873	2541	3513	901
1387.....	4955	2341	1973	641	2200	2755	4112	843
1388.....	5037	2383	2080	574	000	000	4209	828
1389 <sup>(3)</sup> .....	4724	1915	2060	749	000	000	000	000
1390.....	4850	2075	2156	619	000	000	000	000
<b>1391.....</b>	<b>5207</b>	<b>2174</b>	<b>2341</b>	<b>692</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>
East Azarbayejan.....	256	111	121	24	000	000	000	000
West Azarbayejan.....	161	94	57	10	000	000	000	000
Ardebil.....	39	10	24	5	000	000	000	000
Esfahan.....	430	176	184	70	000	000	000	000
Alborz.....	129	10	106	13	000	000	000	000
Ilam.....	27	10	11	6	000	000	000	000
Bushehr.....	72	48	14	10	000	000	000	000
Tehran <sup>(4)</sup> .....	932	63	719	150	000	000	000	000
Chaharmahal & Bakhtiari.....	116	93	15	8	000	000	000	000
South Khorasan.....	26	8	13	5	000	000	000	000
Khorasan-e-Razavi.....	400	195	144	61	000	000	000	000
North Khorasan.....	64	42	11	11	000	000	000	000
Khuzestan.....	262	98	114	50	000	000	000	000
Zanjan.....	73	46	19	8	000	000	000	000
Semnan.....	56	30	12	14	000	000	000	000
Sistan & Baluchestan.....	120	90	21	9	000	000	000	000
Fars.....	434	237	154	43	000	000	000	000
Qazvin.....	83	35	35	13	000	000	000	000
Qom.....	54	6	29	19	000	000	000	000
Kordestan.....	50	12	31	7	000	000	000	000
Kerman.....	138	72	45	21	000	000	000	000
Kermanshah.....	128	74	39	15	000	000	000	000
Kohgiluyeh & Boyer-Ahmad.....	57	34	16	7	000	000	000	000
Golestan.....	112	52	45	15	000	000	000	000
Gilan.....	162	73	75	14	000	000	000	000
Lorestan.....	124	84	33	7	000	000	000	000
Mazandaran.....	303	158	119	26	000	000	000	000
Markazi.....	65	15	39	11	000	000	000	000
Hormozgan.....	104	70	20	14	000	000	000	000
Hamedan.....	110	56	44	10	000	000	000	000
Yazd.....	120	72	32	16	000	000	000	000

1. Excluding malaria diagnosis laboratories.

2. Including laboratories working part-time and full-time.

3. Excluding East Azarbayejan, Ilam and Lorestan Ostan.

4. Excluding the data of Tehran University of Medical Sciences.

Source: Ministry of Health and Medical Education.

**16. 9. REHABILITATION CENTRES<sup>(1)</sup> BY ADMINISTRATIVE TYPE AND LEGAL STATUS**

Year and Ostan	legal status				Type of administration	
	total	Affiliated to the Ministry of Health and Medical Education	Private	Other	Independent	Dependent
1375 <sup>(2)</sup> .....	716	146	288	282	353	363
1380.....	1679	225	953	501	1071	608
1385.....	2704	319	1789	596	1956	748
1387.....	3369	373	2301	695	2551	818
1388 <sup>(3)</sup> .....	4752	<sup>(4)</sup> 557	3358	837	-	-
1389.....	<sup>(5)</sup> 4633	353	3660	620	000	000
1390.....	4522	378	3378	766	000	000
<b>1391.....</b>	<b>5337</b>	<b>438</b>	<b>4027</b>	<b>872</b>	<b>000</b>	<b>000</b>
East Azarbayejan.....	88	1	73	14	000	000
West Azarbayejan .....	120	14	97	9	000	000
Ardebil .....	41	1	37	3	000	000
Esfahan.....	382	37	271	74	000	000
Alborz .....	203	6	184	13	000	000
Ilam .....	1	0	1	0	000	000
Bushehr .....	51	3	39	9	000	000
Tehran .....	928	75	717	136	000	000
Chaharmahal&Bakhtiyari .....	68	8	52	8	000	000
South Khorasan.....	68	6	45	17	000	000
Khorasan-e-Razavi.....	570	31	481	58	000	000
North Khorasan.....	61	2	48	11	000	000
Khuzestan.....	320	25	264	31	000	000
Zanjan .....	83	11	67	5	000	000
Semnan.....	60	11	23	26	000	000
Sistan&Baluchestan .....	127	19	102	6	000	000
Fars.....	499	46	397	56	000	000
Qazvin .....	55	6	41	8	000	000
Qom .....	316	7	91	218	000	000
Kordestan .....	64	2	52	10	000	000
Kerman .....	105	21	64	20	000	000
Kermanshah .....	71	9	54	8	000	000
Kohgiluyeh&Boyerahmad .....	35	1	28	6	000	000
Golestan .....	130	8	112	10	000	000
Gilan.....	186	18	147	21	000	000
Lorestan.....	105	22	73	10	000	000
Mazandaran.....	271	25	226	20	000	000
Markazi .....	112	6	100	6	000	000
Hormozgan.....	59	1	33	25	000	000
Hamedan .....	82	5	69	8	000	000
Yazd .....	76	11	39	26	000	000

1. Including physiotherapy, work therapy, speech therapy, audiometry, optometry, and technical orthopedics.

2. Statistics for rehabilitation include physiotherapy centres only.

3. Excluding Ilam, East Azarbayejan Ostan.

4. Excluding Lorestan, Ilam, East Azarbayejan Ostan.

5. Excluding Ilam Ostan.

Source: Ministry of Health and Medical Education.

### 16. 10. RADIOGRAPHY CENTRES BY ADMINISTRATIVE TYPE AND LEGAL STATUS WORKING TIME

Year and Ostan	Legal status				Type of administration		Working time	
	Total	Affiliated to the Ministry of Health and Medical Education	Private	Other	Independent	Dependent	Day	Day & night
1375.....	1344	647	493	204	432	912	843	501
1380.....	1801	667	815	319	704	1097	1189	612
1385.....	2227	761	1087	379	1012	1215	1469	758
1387.....	2452	784	1219	449	1191	1261	1674	778
1388.....	2654	745	1451	458	-	-	<sup>(1)</sup> 1846	808
1389.....	<sup>(2)</sup> 2605	<sup>(2)</sup> 812	<sup>(3)</sup> 1316	<sup>(3)</sup> 477	000	000	000	000
1390.....	2802	726	1421	655	000	000	000	000
<b>1391.....</b>	<b>3231</b>	<b>900</b>	<b>1767</b>	<b>564</b>	<b>000</b>	<b>000</b>	<b>2270</b>	<b>961</b>
East Azarbayejan.....	146	49	78	19	000	000	97	49
West Azarbayejan .....	78	23	48	7	000	000	49	29
Ardebil .....	26	10	14	2	000	000	13	13
Esfahan.....	221	57	115	49	000	000	167	54
Alborz .....	75	10	50	15	000	000	63	12
Ilam .....	31	18	8	5	000	000	17	14
Bushehr .....	40	14	17	9	000	000	28	12
Tehran <sup>(4)</sup> .....	635	74	422	139	000	000	499	136
Chaharmahal&Bakhtiyari	34	13	14	7	000	000	20	14
South Khorasan.....	20	8	8	4	000	000	13	7
Khorasan-e-Razavi.....	182	42	94	46	000	000	127	55
North Khorasan.....	26	9	13	4	000	000	15	11
Khuzestan.....	158	53	72	33	000	000	84	74
Zanjan .....	28	10	13	5	000	000	16	12
Semnan.....	30	13	8	9	000	000	13	17
Sistan&Baluchestan <sup>(5)</sup> .....	37	16	19	2	000	000	29	8
Fars <sup>(6)</sup> .....	319	207	95	17	000	000	249	70
Qazvin .....	49	15	23	11	000	000	31	18
Qom .....	114	21	44	49	000	000	99	15
Kordestan .....	27	12	9	6	000	000	11	16
Kerman <sup>(7)</sup> .....	79	27	35	17	000	000	40	39
Kermanshah .....	2	1	1	000	000	000	2	000
Kohgiluyeh&Boyerahmad	40	21	12	7	000	000	24	16
Golestan .....	59	20	31	8	000	000	34	25
Gilan.....	78	23	53	2	000	000	51	27
Lorestan.....	56	14	28	14	000	000	36	20
Mazandaran.....	125	36	75	14	000	000	79	46
Markazi .....	343	22	292	29	000	000	254	89
Hormozgan.....	58	25	26	7	000	000	35	23
Hamedan .....	60	19	28	13	000	000	37	23
Yazd .....	55	18	22	15	000	000	38	17

1. Including part-time and full time centres.
2. Excluding East Azarbayejan Ostan.
3. Excluding East Azarbayejan, Ilam and Lorestan Ostans
4. Excluding the data of Tehran University of Medical Sciences.
5. Excluding the data of Zabol University.
6. Excluding the data of Jahrom and Fasa Universities.
7. Excluding the data of Bam Universities.

Source: Ministry of Health and Medical Education.

## 16. 11. PHARMACIES BY LEGAL STATUS AND WORKING TIME

Year and Ostan	Legal status				Working time	
	Total	Affiliated to the Ministry of Health and Medical Education	Private	Other	Day <sup>(1)</sup>	Day & night
1375.....	4227	370	3712	145	3841	386
1380.....	5918	348	5360	210	5404	514
1385.....	7358	467	6650	241	6302	1056
1387.....	7965	832	6863	270	7161	804
1388 <sup>(2)</sup> .....	7806	383	<sup>(3)</sup> 6929	494	6920	886
1389.....	<sup>(4,2)</sup> 8326	<sup>(5,4,2)</sup> 641	<sup>(4,2)</sup> 7347	<sup>(6,5,4,2)</sup> 338	000	000
1390 <sup>(7)</sup> .....	8484	423	7666	395	000	000
<b>1391.....</b>	<b>9501</b>	<b>828</b>	<b>8253</b>	<b>420</b>	<b>8403</b>	<b>1098</b>
East Azarbayejan.....	490	32	435	23	433	57
West Azarbayejan.....	319	27	273	19	285	34
Ardebil.....	133	11	113	9	113	20
Esfahan.....	740	18	712	10	653	87
Alborz.....	344	10	324	10	298	46
Ilam.....	57	9	45	3	57	0
Bushehr.....	82	2	69	11	74	8
Tehran <sup>(8)</sup> .....	2160	61	2026	73	1934	226
Chaharmahal&Bakhtiyari.....	83	2	79	2	75	8
South Khorasan.....	60	6	50	4	57	3
Khorasan-e-Razavi <sup>(9)</sup> .....	679	28	613	38	606	73
North Khorasan.....	74	6	63	5	67	7
Khuzestan.....	559	27	472	60	526	33
Zanjan.....	57	36	19	2	37	20
Semnan.....	67	7	51	9	60	7
Sistan&Baluchestan.....	192	42	147	3	176	16
Fars.....	594	57	515	22	482	112
Qazvin.....	124	5	115	4	111	13
Qom.....	160	6	137	17	138	22
Kordestan.....	121	6	109	6	102	19
Kerman.....	225	18	189	18	186	39
Kermanshah.....	179	2	175	2	157	22
Kohgiluyeh&Boyerahmad.....	75	3	66	6	64	11
Golestan.....	188	22	159	7	168	20
Gilan.....	315		311	4	269	46
Lorestan.....	185	5	163	17	158	27
Mazandaran.....	723	353	361	9	660	63
Markazi.....	142	14	121	7	115	27
Hormozgan.....	96	10	78	8	76	20
Hamedan.....	150	2	140	8	150	0
Yazd.....	128	1	123	4	116	12

1. Including pharmacies working part-time and full-time.

2. Excluding East Azarbayejan Ostan.

3. Excluding Golestan Ostan.

4. Excluding Gilan Ostan.

5. Excluding Ilam and Lorestan Ostans

6. Excluding Bushehr.

7. Excluding Zanjan Ostan.

8. Excluding the data of Tehran University of Medical Sciences.

9. Excluding the data of Torbat-e Heydarieh and Sabzevar Universities of Medical Sciences in the year 91.

Source: Ministry of Health and Medical Education.

**16. 12. MAIN ACTIVITIES ON ANTI-MALARIA CAMPAIGN**

Year	Number of slides in villages under care		Pesticides used in villages sprayed
	Tested	Positive cases	Insecticide (kg)
1375.....	3670152	55843	157628
1380.....	1190213	18948	1670
1385.....	1136302	15869	8260
1387.....	934547	11290	7248
1388.....	701559	5921	5921
1389 <sup>(1)</sup> .....	000	000	000
1390 <sup>(1)</sup> .....	000	000	000
<b>1391<sup>(1)</sup></b> .....	<b>000</b>	<b>000</b>	<b>000</b>

1. No information is available.

Source: Ministry of Health and Medical Education

**16. 13. VACCINATIONS BY THE MINISTRY OF HEALTH AND MEDICAL EDUCATION****(1000 cases)**

Year	Poliomyelitis V	Measles V	BCG.V.(TB (TB.V.)	Triple V.(D.P.T.)	Polyvalent V. (D.T.) (mixed V.)	Meningitis V	Hepatitis B.V.
1375.....	694	2873	2021	6603	6018	486	3717
1380.....	6848	2402	1121	4631	5433	915	3824
1385.....	7268	2439	1279	4686	2524	653	4206
1387.....	6683	2725	1183	4512	2861	710	3916
1388.....	6862	3235	1277	4570	2700	671	4197
1389 <sup>(1)</sup> .....	000	000	000	000	000	000	000
1390 <sup>(1)</sup> .....	000	000	000	000	000	000	000
<b>1391<sup>(1)</sup></b> .....	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>

1. No information is available.

Source: Ministry of Health and Medical Education.

### 16. 14. NUMBER OF CONTAGIOUS DISEASE CASES DIAGNOSED IN CLINICAL EXAMINATIONS

Type of disease	1375	1380	1385	1387	1388	1389 <sup>(1)</sup>	1390 <sup>(1)</sup>	1391
Chicken pox.....	52362	9589	000	000	000	000	000	000
Kinds of diarrhea.....	471708	000	000	000	000	000	000	265200
Mumps.....	-	000	000	000	000	000	000	000
Infectious conjunctivitis.....	219861	000	22744	000	000	000	000	000
Trachoma.....	306	351	000	000	000	000	000	000
Rubella.....	-	000	71	140	124	000	000	<sup>(2)</sup> 29
Measles.....	2651	7780	904	995	1355	000	000	<sup>(2)</sup> 234
Whooping cough.....	85	97	86	905	730	000	000	1259
Favus.....	10840	3891	000	000	000	000	000	000
Tetanus.....	36	24	12	13	5	000	000	<sup>(3)</sup> 16
Rabies.....	8	2	10	13	4	000	000	6
Hepatitis.....	5157	11223	11512	10159	10391	000	000	12653

1. No information is available.

2. Including the positive laboratory cases for Measles and Rubella in the year 91.

3. Including the adults and infants Tetanus in the year 1391.

Source: Ministry of Health and Medical Education.



### 16. 15. NUMBER OF CONTAGIOUS DISEASE CASES DIAGNOSED IN MEDICAL DIAGNOSIS LABORATORIES

Type of disease	1375	1380	1385	1387	1388	1389 <sup>(1)</sup>	1390 <sup>(1)</sup>	1391 <sup>(2)</sup>
Intestinal parasites.....	282831	000	000	000	000	000	000	000
Malta fever.....	30965	16471	23558	18250	12685	000	000	16032
Leprosy.....	112	96	89	38	46	000	000	26
Typhoid and Paratyphoid.....	7690	1869	437	449	490	000	000	451
Diphtheria.....	16	12	26	49	60	000	000	142
Aleppo boil.....	19556	14505	24517	26920	23626	000	000	18880
Pulmonary tuberculosis.....	9989	9359	6811	7032	7373	000	000	6240
Gonorrhoea (gonococcus urethritis).....	1989	7007	6373	4099	3860	000	000	3039
Anthrax.....	178	269	161	177	155	000	000	215
Syphilis.....	1459	484	952	153	88	000	000	57
Meningitis..	102	319	208	237	201	000	000	7386
Cholera.....	62	105	24	220	18	000	000	53

1. No information is available.

2. In the year 1391, the number of patients who were rre affected by pulmonary tuberculosis and had the labarotary diagnosis approval in one year include all positive smear patients and those whose related disease recrudesced in that year (the patients whose smear test was positive), in addition to the patients with negative smear with positive sputum culture, or the negative smear patients whose smear or prepared culture got positive due to bronchial or gastric juice lavage.

Source: Ministry of Health and Medical Education.

### 16. 16. LEPERS<sup>(1)</sup> BY SEX AND AGE

Year	Sex			Age	
	Both sexes	Male	Female	14 years and under	15 years and over
1375.....	112	69	43	13	99
1380.....	96	44	52	3	93
1385.....	72	39	33	0	72
1387.....	38	24	14	0	38
1388.....	46	31	15	0	46
1389 <sup>(2)</sup> .....	000	000	000	000	000
1390 <sup>(2)</sup> .....	000	000	000	000	000
<b>1391.....</b>	<b>26</b>	<b>13</b>	<b>13</b>	<b>1</b>	<b>25</b>

1. New cases reported for the stated year.

2. No information is available.

Source: Ministry of Health and Medical Education.

### 16. 17. LIVESTOCK VACCINATED AGAINST CONTAGIOUS AND NON-CONTAGIOUS DISEASES

Year	Contagious diseases									
	Pox sheep and goat (1000 heads)	Pest bovine (1000 heads)	Foot and mouth disease		Charbon				Symptomatic charbon cow and buffalo (1000 heads)	Agalactia sheep and goat (1000 heads)
			cattle (1000 head-round) <sup>(1)</sup>	Sheep and goat (1000 heads)	Cattle (1000 heads) <sup>(1)</sup>	Sheep and goat (1000 heads)	Soliped <sup>(2)</sup> (1000 heads)	Camel (1000 heads)		
1375.....	66500	7748	4615	15786	3060	63298	47	2	562	4578
1380.....	59314	4604	9169	27872	3701	57437	38	6	831	4653
1385.....	67313	0	14043	39733	3799	57996	93	20	968	9251
1387.....	64911	0	9876	11151	4047	56252	150	27	1223	7170
1388.....	57247	0	13131	38580	3415	51231	117	30	996	7997
1389.....	55212	0	14468	53578	3006	50404	96	35	933	9725
1390.....	55072	0	9428	31323	2876	51395	109	28	692	8967
<b>1391.....</b>	<b>58363</b>	<b>0</b>	<b>9561</b>	<b>37669</b>	<b>2437</b>	<b>44207</b>	<b>87</b>	<b>15</b>	<b>818</b>	<b>10270</b>

Year	Non-contagious diseases	
	Infectious necrotic hepatitis (gangrene) sheep and goat (1000 head-round) <sup>(1)</sup>	Enterotoxemia sheep and goat (1000 head-round) <sup>(1)</sup>
1375 .....	10600	47040
1380 .....	9051	42311
1385 .....	11972	61069
1387 .....	12846	56346
1388 .....	10173	50370
1389 .....	11516	48297
1390 .....	10571	49302
<b>1391 .....</b>	<b>10602</b>	<b>50053</b>

1. Vaccines injected more than once a year. This definition is used for all vaccines including bacterial, viral and protozoans in all kinds of animals.

2. Including horse, mule hinny and ass.

Sources: Veterinary Organization.

– Ministry of jahade –e- keshavarzi.

**16. 18. MAIN CAMPAIGNS AGAINST DISEASES COMMON AMONG MAN AND LIVESTOCK**

Year	Eradication of bovine tuberculosis		Control of bovine brucella of blood	
	Cows vaccinated against tuberculosis (1000 head-round)	Reactor cow (head)	Number of samples (1000)	Reactor cow (head)
1375.....	1168	2558	743	3607
1380.....	1180	1626	904	3529
1385.....	1259	637	789	1938
1387.....	1404	3569	806	2005
1388.....	1220	2733	731	901
1389.....	1286	1516	785	668
1390.....	1265	1764	850	1624
<b>1391.....</b>	<b>1223</b>	<b>1660</b>	<b>850</b>	<b>888</b>

Year	Control of bovine brucella				Control of rabies of vaccinated livestock	Control of glanders of mallein test (head)	
	Sheep and goat blood samples tested		Vaccinated livestock (1000 heads)			Dog	Tested horses
	Number of samples (1000)	Reactor sheep and goat (head)	Calf	Lamb and kid			
1375.....	570	13475	613	13958	104	8479	5
1380.....	682	12307	683	9911	161	15648	0
1385.....	47	2286	1493	21818	243	17503	2
1387.....	33	588	2993	32741	254	15222	23
1388.....	27	629	2152	9227	278	15209	26
1389.....	51	953	1826	8883	294	17346	59
1390.....	41	1071	2339	15842	306	20554	55
<b>1391.....</b>	<b>25</b>	<b>522</b>	<b>2419</b>	<b>22565</b>	<b>326</b>	<b>22206</b>	<b>70</b>

Sources: Veterinary Organization.

- Ministry of jahade -e- keshavarzi.

**16. 19. PREVENTION AND TREATMENT OF PARASITIC DISEASES BY VETERINARY CLINICS (1000 cases - 1000 sq m)**

Year	Campaign against internal parasites	Campaign against external parasites	Livestock sprinkled (pounced) with powder
		Livestock sprayed	
1375.....	96579	5575	16171
1380.....	83333	10927	74971
1385.....	59477	<sup>(1)</sup> 31124	119766
1387.....	51197	<sup>(2)</sup> 20387	52029
1388.....	47579	<sup>(2)</sup> 15113	49715
1389.....	47697	14484	45713
1390.....	41919	13682	46793
<b>1391.....</b>	<b>37772</b>	<b>15420</b>	<b>47230</b>

1. Including statistics for the livestock sprinkled (pounced) with powder and livestock dipped.

2. Including sprayed livestock only.

Sources: Veterinary Organization;

- Ministry of jahade -e- keshavarzi.