

**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:** orthopedics, nervous system, children's 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, harmaceutics, 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, round- the- clock.

**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 1388, over 29,000 physicians were employed in the Ministry of Health and Medical Education, out of whom 12289, 13186, 2506 and 1207 persons were general practitioners, specialists, dentists, and pharmacists respectively. Also 159,000 paramedics were working.

It should be noted that the statistics for physicians and paramedics exclude the statistics for three Ostans of East Azarbayejan, Ilam and Gilan

In 1388, about 115 thousand beds were in use in 845 medical establishments (hospitals, maternity hospitals and sanatorium) of the country. It should be noted that 61.8 percent of the above mentioned establishments are affiliated to the Ministry of Health and Medical Education.

Also in the same year, 9861 health care and medical centres (clinic, polyclinic and health centres) were operating in the country which increased by 8 percent in comparison to the preceding year. It is noteworthy that 77 percent of these health care and medical centres were affiliated to the Ministry of Health and Medical Education. In 1388, 17608 health homes were operating in the rural areas of the country.

In the year 1388, there were 5037 medical diagnosis laboratories, 4752 rehabilitation centres, 2654 radiology centres and 7806 pharmacies in the country.

During the same year, the maximum number of vaccinations made in the units of 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
1370.....	201100	17453	105658	77989
1375.....	269894	19585	149380	100929
1380.....	295325	21175	152396	121754
1384.....	306096	26564	158886	120646
1385.....	321544	29937	173076	118531
1386.....	000	000	000	000
1387.....	000	000	000	000
<b>1388<sup>(2)</sup></b> .....	<b>268815</b>	<b>29188</b>	<b>159240</b>	<b><sup>(3)</sup>80387</b>
East Azarbayejan .....	000	000	000	000
West Azarbayejan .....	10009	1334	8415	260
Ardebil .....	5221	466	3875	880
Esfahan.....	22730	2383	12524	7823
Ilam .....	000	000	000	000
Bushehr .....	4611	551	2958	1102
Tehran .....	38540	4509	19976	14055
Chaharmahal & Bakhtiari .....	4431	509	2398	1524
South Khorasan .....	3758	417	2631	710
Khorasan-e-Razavi.....	18773	2124	12934	3715
North Khorasan .....	2847	314	1932	601
Khuzestan.....	18877	1610	10719	6548
Zanjan .....	5155	715	3531	909
Semnan.....	4437	484	2407	1546
Sistan & Baluchestan .....	11826	917	7158	3751
Fars.....	21240	3047	12400	5793
Qazvin.....	3326	520	1901	905
Qom .....	3292	376	2053	863
Kordestan .....	6426	610	4534	1282
Kerman .....	1954	145	1455	354
Kermanshah .....	9945	835	6133	2977
Kohgiluyeh & Boyerahmad .....	3874	650	2024	1200
Golestan .....	8080	747	3786	3547
Gilan .....	000	000	000	000
Lorestan .....	7217	723	4673	1821
Mazandaran .....	18741	1947	10529	6265
Markazi .....	6928	792	3731	2405
Hormozgan .....	9263	599	3600	5064
Hamedan .....	11010	1090	7174	2746
Yazd .....	6304	774	3789	1741

1. Including foreign physicians, excluding the year1388.

2. Including dentists, pharmacists and veterinarians, excluding the year1388.

3. Excluding East Azarbayejan, Ilam, Gilan.

4. Including veterinarians.

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	Total	General practitioner	Dentist	Veterinarian	Pharmacist	Specialist		
						Total	Internal <sup>(2)</sup>	Cardio-vascular
1370.....	17453	8754	1541	99	1064	5995	528	170
1375.....	<sup>(4)</sup> 19585	9057	1748	92	1179	7423	801	288
1380.....	21175	8568	1945	527	1069	9066	1029	372
1384.....	26564	11361	2517	74	1246	11366	941	512
1385.....	29937	13485	2786	81	1327	12258	1102	604
1386.....	000	000	000	000	000	000	000	000
1387.....	000	000	000	000	000	000	000	000
<b>1388<sup>(5)</sup>.....</b>	<b>29188</b>	<b>12289</b>	<b>2506</b>	<b>1207</b>	<b>000</b>	<b>13186</b>	<b>910</b>	<b>000</b>
East Azarbayejan ...	000	000	000	000	000	000	000	000
West Azarbayejan .	1334	735	89	34	000	476	50	000
Ardebil .....	466	240	37	16	000	173	10	000
Esfahan.....	2383	923	290	124	000	1046	56	000
Ilam .....	000	000	000	000	000	000	000	000
Bushehr .....	551	304	66	14	000	167	17	000
Tehran .....	4509	1269	365	272	000	2603	142	000
Chaharmahal & Bakhtiari.....	509	309	29	10	000	161	22	000
South Khorasan .....	417	225	24	20	000	148	21	000
Khorasan-e-Razavi.	2124	817	152	114	000	1041	61	000
North Khorasan .....	314	141	40	15	000	118	14	000
Khuzestan.....	1610	713	94	65	000	738	49	000
Zanjan .....	715	362	57	33	000	263	51	000
Semnan.....	484	184	30	20	000	250	19	000
Sistan & Baluchestan	917	503	69	17	000	328	20	000
Fars.....	3047	904	208	101	000	1834	84	000
Qazvin .....	520	203	93	18	000	206	12	000
Qom .....	376	129	26	14	000	207	15	000
Kordestan .....	610	261	58	11	000	280	18	000
Kerman .....	145	62	13	4	000	66	3	000
Kermanshah .....	835	420	78	28	000	309	24	000
Kohgiluyeh & Boyerahmad .....	650	329	101	65	000	155	13	000
Golestan .....	747	418	44	7	000	278	14	000
Gilan .....	000	000	000	000	000	000	000	000
Lorestan .....	723	433	47	24	000	219	26	000
Mazandaran .....	1947	833	186	86	000	842	80	000
Markazi .....	792	331	44	32	000	385	21	000
Hormozgan .....	599	386	31	9	000	173	16	000
Hamedan .....	1090	534	136	32	000	388	20	000
Yazd .....	774	321	99	22	000	332	32	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 &dermat	General surgery	Urology	Orthopedics	Brain & nerves
1370.....	112	776	239	108	768	162	295	107
1375.....	164	1008	226	167	852	220	375	236
1380.....	201	1193	312	205	821	180	410	281
1384.....	253	1391	430	89	909	486	564	279
1385.....	347	1340	509	257	1024	431	702	398
1386.....	000	000	000	000	000	000	000	000
1387.....	000	000	000	000	000	000	000	000
<b>1388<sup>(5)</sup>.....</b>	<b>000</b>	<b>923</b>	<b>000</b>	<b>000</b>	<b>874</b>	<b>000</b>	<b>000</b>	<b>000</b>
East Azarbayejan	000	000	000	000	000	000	000	000
West Azarbayejan	000	44	000	000	26	000	000	000
Ardebil .....	000	18	000	000	8	000	000	000
Esfahan.....	000	73	000	000	50	000	000	000
Ilam .....	000	000	000	000	000	000	000	000
Bushehr .....	000	14	000	000	8	000	000	000
Tehran .....	000	165	000	000	164	000	000	000
Chaharmahal & Bakhtiari.....	000	12	000	000	11	000	000	000
South Khorasan .	000	16	000	000	11	000	000	000
Khorasan-e- Razavi .....	000	67	000	000	44	000	000	000
North Khorasan .	000	9	000	000	6	000	000	000
Khuzestan.....	000	65	000	000	46	000	000	000
Zanjan .....	000	35	000	000	16	000	000	000
Semnan.....	000	20	000	000	11	000	000	000
Sistan & Baluchestan .....	000	17	000	000	17	000	000	000
Fars.....	000	51	000	000	74	000	000	000
Qazvin .....	000	18	000	000	5	000	000	000
Qom .....	000	26	000	000	0	000	000	000
Kordestan .....	000	18	000	000	70	000	000	000
Kerman .....	000	6	000	000	1	000	000	000
Kermanshah .....	000	16	000	000	16	000	000	000
Kohgiluyeh & Boyerahmad .....	000	15	000	000	8	000	000	000
Golestan .....	000	17	000	000	13	000	000	000
Gilan .....	000	000	000	000	000	000	000	000
Lorestan .....	000	22	000	000	11	000	000	000
Mazandaran .....	000	76	000	000	77	000	000	000
Markazi .....	000	18	000	000	116	000	000	000
Hormozgan .....	000	16	000	000	20	000	000	000
Hamedan .....	000	37	000	000	23	000	000	000
Yazd .....	000	32	000	000	22	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
1370.....	267	320	589	<sup>(3)</sup> 000	564	328	<sup>(3)</sup> 000	<sup>(3)</sup> 662
1375.....	304	422	790	45	375	430	183	537
1380.....	359	470	948	45	926	511	349	454
1384.....	404	616	1156	57	665	1153	416	1045
1385.....	445	615	1285	58	1189	635	478	839
1386.....	000	000	000	000	000	000	000	000
1387.....	000	000	000	000	000	000	000	000
<b>1388<sup>(5)</sup>.....</b>	<b>000</b>	<b>000</b>	<b>976</b>	<b>000</b>	<b>938</b>	<b>000</b>	<b>000</b>	<b><sup>(6)</sup>8565</b>
East Azarbayejan	000	000	000	000	000	000	000	000
West Azarbayejan	000	000	44	000	37	000	000	275
Ardebil .....	000	000	14	000	14	000	000	109
Esfahan.....	000	000	80	000	73	000	000	714
Ilam .....	000	000	000	000	000	000	000	000
Bushehr .....	000	000	15	000	11	000	000	102
Tehran .....	000	000	182	000	200	000	000	1750
Chaharmahal & Bakhtiyari .....	000	000	17	000	11	000	000	88
South Khorasan...	000	000	18	000	15	000	000	67
Khorasan-e-Razavi .....	000	000	63	000	55	000	000	751
North Khorasan...	000	000	10	000	11	000	000	68
Khuzestan .....	000	000	63	000	66	000	000	449
Zanjan .....	000	000	20	000	21	000	000	120
Semnan.....	000	000	18	000	13	000	000	169
Sistan & Baluchestan .....	000	000	28	000	24	000	000	222
Fars.....	000	000	102	000	102	000	000	1421
Qazvin.....	000	000	17	000	10	000	000	144
Qom .....	000	000	15	000	16	000	000	135
Kordestan.....	000	000	21	000	16	000	000	137
Kerman .....	000	000	2	000	3	000	000	51
Kermanshah .....	000	000	26	000	27	000	000	200
Kohgiluyeh & Boyerahmad.....	000	000	13	000	12	000	000	94
Golestan .....	000	000	17	000	18	000	000	199
Gilan .....	000	000	000	000	000	000	000	000
Lorestan .....	000	000	21	000	21	000	000	118
Mazandaran .....	000	000	72	000	60	000	000	477
Markazi .....	000	000	23	000	25	000	000	182
Hormozgan .....	000	000	25	000	22	000	000	74
Hamedan .....	000	000	26	000	30	000	000	252
Yazd .....	000	000	24	000	25	000	000	197

1. Including foreign physicians, excluding the year 1388.

2. Including super-specialist, excluding the year 1388.

3. Included in "Other".

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

5. Excluding East Azarbayejan, Ilam and Gilan.

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

Source: Ministry of Health and Medical Education.

### 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	1384	1385	1386	1387	1388
<b>Total</b> .....	<b>149380</b>	<b>152394</b>	<b>158886</b>	<b>173076</b>	<b>000</b>	<b>000</b>	<b>176417</b>
Assistant doctor (Behdar).....	175	158	226	229	000	000	000
Mental health expert .....	615	617	591	730	000	000	000
Optometry expert, associate and technician.....	118	299	186	196	000	000	000
Audiometry expert, associate and technician.....	212	241	258	265	000	000	000
Person in charge of blood transfusion.....	635	728	847	814	000	000	000
Prosthodontist (technician).....	117	96	95	97	000	000	000
Oral hygienist.....	1881	1499	1309	1259	000	000	000
Nurse holding B.S or higher degree.....	16396	25074	29559	33605	000	000	41629
Nurse holding associate degree.....	1950	914	683	684	000	000	000
Midwife.....	6590	8105	8995	10555	000	000	11642
Health worker and assistant health worker .....	37508	27200	23740	24039	000	000	<sup>(1)</sup> 12647
Health attendant (Behvarz) .....	23361	<sup>(2)</sup> 000	25600	27620	000	000	23380
Anesthetist expert, associate and technician .....	2158	2606	2683	3078	000	000	<sup>(3)</sup> 2538
Operating room associate and technician.....	2900	2945	3153	3671	000	000	3956
Dialysis technician .....	105	111	202	170	000	000	000
Person in charge of medical emergency.....	1360	1437	1739	2046	000	000	000
Rehabilitation expert, associate, and technician.....	909	764	819	704	000	000	000
Person in charge of orthopedics .....	172	22	19	17	000	000	000
Assistant of the disabled .....	2603	2036	2051	2051	000	000	000
Environmental health expert, associate, and technician .....	3163	4643	5426	5359	000	000	000
Entomologist .....	21	38	47	78	000	000	000
Expert, associate, and technician for fighting diseases .....	<sup>(4)</sup> 6987	5787	5738	6445	000	000	000
Expert and associate on occupational health.....	599	1060	1011	1283	000	000	000
Health services trainer.....	238	347	385	429	000	000	000
Expert, associate and technician on pharmaceutical affairs .....	4020	3247	3276	3256	000	000	000
Expert, associate and technician on food planning and services.....	485	813	920	1006	000	000	000
Expert, associate and technician on food, cosmetics and hygienic stuff.....	414	395	367	444	000	000	000
Radiography expert, associate, and technician.....	3644	4019	4473	4802	000	000	000
Electro-cardiography technician .....	95	98	140	136	000	000	000
Medical laboratory expert, associate, and technician... <sup>(5)</sup>	10219	<sup>(5)</sup> 10223	10461	11304	000	000	000
Person in charge of dissection room .....	76	21	18	18	000	000	000
Hospital affairs expert.....	209	262	306	449	000	000	000
Health and treatment social worker.....	414	294	361	394	000	000	000
Receptionist and in charge of medical records.....	2105	2857	3391	3779	000	000	000
Family health expert, associate, and technician .....	5361	<sup>(2)</sup> 33783	9712	11279	000	000	000
Other paramedics .....	11565	9655	10099	10785	000	000	<sup>(6)</sup> 80625

1. Including health workers.

2. Included in family health technician.

3. Including only anesthetist technician statistics.

4. Including health assistants, too.

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

6. Including other specialities 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.

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>	
	Establishments	Beds	Establishments	Beds	Establishments	Beds	Establishments	Beds
1370.....	639	85810	454	64024	118	9038	67	12748
1375.....	685	98549	479	72089	113	9550	93	16910
1380.....	717	109152	479	76167	119	11191	119	21794
1384.....	750	113244	495	78733	128	12242	127	22269
1385.....	773	116474	505	79772	128	12594	140	24108
1386.....	799	119902	528	81814	130	12794	141	25294
1387.....	818	120580	536	81762	130	13324	152	25494
<b>1388.....</b>	<b>845</b>	<b>(2)114501</b>	<b>522</b>	<b>(2)78266</b>	<b>(2,3)144</b>	<b>(2,4)12527</b>	<b>179</b>	<b>(2,4,5)23708</b>
East Azarbayejan ....	39	5284	27	3999	6	551	6	734
West Azarbayejan ..	29	3352	23	2714	3	252	3	386
Ardebil .....	14	2037	10	1589	1	106	3	342
Esfahan.....	61	9414	38	6952	9	658	14	1804
Ilam .....	11	1062	9	998	2	64	0	0
Bushehr .....	13	961	8	709	1	11	4	241
Tehran .....	167	28769	58	13372	65	6148	44	9249
Chaharmahal & Bakhtiyari.....	9	1235	8	1118	0	0	1	117
South Khorasan .....	8	866	6	716	0	0	2	150
Khorasan-e-Razavi..	56	9429	34	6558	5	500	17	2371
North Khorasan .....	8	842	6	760	0	0	2	82
Khuzestan.....	50	7787	30	5013	4	494	16	2280
Zanjan .....	11	1529	8	1285	0	0	3	244
Semnan.....	12	1432	10	1198	000	96	2	138
Sistan & Baluchestan	17	2614	13	2355	0	0	4	259
Fars.....	57	8506	41	6747	11	1050	5	709
Qazvin .....	13	1440	6	786	3	216	4	438
Qom .....	8	38	6	38	0	0	2	000
Kordestan .....	15	1867	12	1630	0	0	3	237
Kerman .....	27	522	17	522	3	000	7	000
Kermanshah .....	22	2962	17	2232	1	150	4	580
Kohgiluyeh & Boyerahmad .....	5	000	4	000	000	000	1	000
Golestan .....	21	2388	14	1692	5	283	2	413
Gilan .....	28	3908	20	3116	6	492	2	300
Lorestan .....	24	2582	15	1911	5	287	4	384
Mazandaran .....	39	4884	27	3868	6	537	6	479
Markazi .....	17	1945	13	1513	1	116	3	316
Hormozgan .....	20	1788	13	1294	2	114	5	380
Hamedan .....	22	2419	16	1973	1	100	5	346
Yazd .....	22	2639	13	1608	4	302	5	729

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

2. Excluding Kohgiluyeh & Boyerahmad.

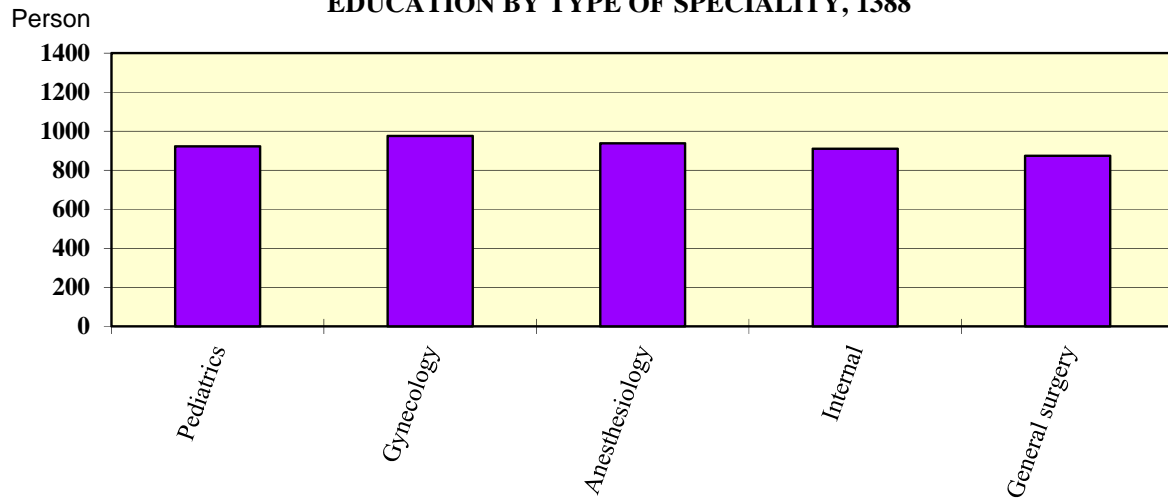
3. Excluding Semnan.

4. Excluding Kerman.

5. Excluding Qom.

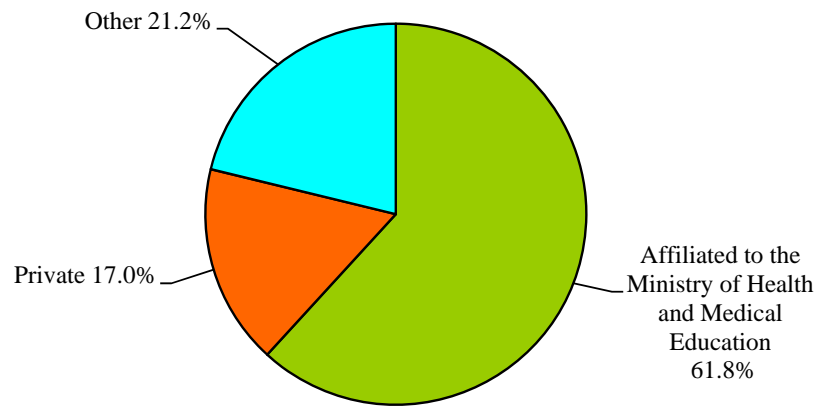
Source: Ministry of Health and Medical Education.

**16. 1. PHYSICIANS EMPLOYED IN THE MINISTRY OF HEALTH AND MEDICAL EDUCATION BY TYPE OF SPECIALITY, 1388**



For data see Table 16.2.

**16. 2. DISTRIBUTION OF MEDICAL ESTABLISHMENTS BY LEGAL STATUS, 1388**



For data see Table 16. 4.

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

Field of speciality	1380	1384	1385	1386	1387	1388
<b>Total</b> .....	<sup>(1)</sup> 717	750	773	799	818	845
General practice .....	572	601	624	638	670	-
Speciality.....	144	149	149	161	148	-
Gynecology and obstetrics .....	58	54	53	60	60	-
Pediatrics.....	20	18	18	20	17	-
Mental health .....	16	21	21	20	21	-
Ophthalmology.....	5	11	11	12	8	-
Cardiovascular .....	8	10	10	9	7	-
Accidents and burns .....	8	7	6	9	8	-
Cancer .....	5	5	5	6	6	-
Neuropsychiatry .....	10	8	9	10	8	-
Orthopedics .....	4	4	5	4	3	-
Infectious diseases.....	1	2	2	1	1	-
Leprosy .....	2	2	2	1	1	-
Otolaryngology .....	1	1	1	2	2	-
Pulmonary disorders .....	2	1	1	1	1	-
Urology .....	2	3	2	2	1	-
Dermatology.....	1	1	1	2	1	-
Maxillofacial diseases .....	1	1	2	2	3	-

1. Difference between the total and sum of parts is due to the inclusion in the total of hospitals engaged in oncology and hematology practices.

Source: Ministry of Health and Medical Education.

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

Year and Ostan	Geographical status			Legal status		
	Total	Urban	Rural	Affiliated to the Ministry of Health and medical Education	Private	Other
1370.....	4705	2722	1983	4138	174	393
1375.....	5797	3756	2041	4921	219	657
1380.....	7089	4742	2347	5675	452	962
1384.....	7894	5470	2424	6089	767	1038
1385.....	8288	5786	2502	6390	856	1042
1386.....	8634	6076	2558	6553	985	1096
1387.....	9142	6582	2560	6768	1073	1301
<b>1388.....</b>	<b>9861</b>	<b>7386</b>	<b>2475</b>	<b>7546</b>	<b>1242</b>	<b>1073<sup>(1)</sup></b>
East Azarbayejan .....	559	424	135	362	148	49
West Azarbayejan .....	340	206	134	294	25	21
Ardebil .....	175	122	53	144	13	18
Esfahan.....	798	701	97	590	89	119
Ilam .....	81	52	29	63	14	4
Bushehr .....	119	89	30	96	7	16
Tehran .....	1492	1435	57	847	413	232
Chaharmahal & Bakhtiari .....	155	85	70	142	1	12
South Khorasan .....	127	84	43	109	4	14
Khorasan-e-Razavi.....	891	708	183	662	84	145
North Khorasan .....	126	80	46	111	1	14
Khuzestan.....	447	314	133	383	28	36
Zanjan .....	129	71	58	109	10	10
Semnan.....	133	107	26	109	7	17
Sistan & Baluchestan .....	354	228	126	299	39	16
Fars.....	571	392	179	460	69	42
Qazvin .....	146	103	43	112	22	12
Qom .....	157	146	11	98	28	31
Kordestan .....	186	114	72	172	6	8
Kerman .....	339	245	94	290	24	25
Kermanshah .....	185	119	66	154	9	22
Kohgiluyeh & Boyerahmad .....	121	70	51	105	8	8
Golestan .....	239	143	96	193	28	18
Gilan .....	303	203	100	239	30	34
Lorestan .....	242	168	74	203	15	24
Mazandaran .....	478	289	189	378	63	37
Markazi .....	242	175	67	202	9	31
Hormozgan .....	281	192	89	237	21	23
Hamedan .....	214	128	86	197	1	16
Yazd .....	231	193	38	186	26	19

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

Source: Ministry of Health and Medical Education.

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

Year and Ostan	Type of administration		Working time	
	Independent	Dependent	Day	Day & night
1370 .....	4150	555	3982	723
1375.....	5050	747	4641	1156
1380.....	6066	1023	5725	1364
1384.....	6592	1302	6280	1614
1385.....	6779	1509	6521	1767
1386.....	6709	1925	6770	1864
1387.....	2123	7019	7159	1983
<b>1388.....</b>	-	-	-	-
East Azarbayejan .....	-	-	-	-
West Azarbayejan .....	-	-	-	-
Ardebil .....	-	-	-	-
Esfahan.....	-	-	-	-
Ilam .....	-	-	-	-
Bushehr .....	-	-	-	-
Tehran .....	-	-	-	-
Chaharmahal & Bakhtiyari .....	-	-	-	-
South Khorasan .....	-	-	-	-
Khorasan-e-Razavi.....	-	-	-	-
North Khorasan .....	-	-	-	-
Khuzestan.....	-	-	-	-
Zanjan .....	-	-	-	-
Semnan.....	-	-	-	-
Sistan & Baluchestan .....	-	-	-	-
Fars.....	-	-	-	-
Qazvin .....	-	-	-	-
Qom .....	-	-	-	-
Kordestan .....	-	-	-	-
Kerman .....	-	-	-	-
Kermanshah .....	-	-	-	-
Kohgiluyeh & Boyerahmad .....	-	-	-	-
Golestan .....	-	-	-	-
Gilan .....	-	-	-	-
Lorestan .....	-	-	-	-
Mazandaran .....	-	-	-	-
Markazi .....	-	-	-	-
Hormozgan .....	-	-	-	-
Hamedan .....	-	-	-	-
Yazd .....	-	-	-	-

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

Source: Ministry of Health and Medical Education.

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

Year and Ostan	Operating health homes	Population covered	Workers (Behvarz)		
			Both sexes	Male	Female
1375.....	14146	19363345	22143	8829	13314
1380.....	16281	000	000	000	000
1384.....	16725	000	27085	10404	16681
1385.....	17130	21700965	19288	7122	12166
1386.....	17151	000	30147	000	000
1387.....	18060	000	29193	000	000
<b>1388.....</b>	<b>17608</b>	<b>000</b>	<b>31795</b>	<b>12431</b>	<b>19364</b>
East Azarbayejan .....	1057	000	1779	509	1270
West Azarbayejan .....	946	000	1604	610	994
Ardebil .....	513	000	856	297	559
Esfahan.....	579	000	1493	453	1040
Ilam .....	196	000	367	158	209
Bushehr .....	217	000	469	158	311
Tehran .....	300	000	511	149	362
Chaharmahal & Bakhtiyari .....	293	000	560	188	372
South Khorasan .....	282	000	455	183	272
Khorasan-e-Razavi.....	1286	000	1972	633	1339
North Khorasan.....	347	000	597	198	399
Khuzestan.....	893	000	1744	747	997
Zanjan .....	420	000	698	260	438
Semnan.....	136	000	268	103	165
Sistan & Baluchestan .....	860	000	1499	782	717
Fars.....	1072	000	1772	1187	585
Qazvin .....	282	000	485	175	310
Qom .....	59	000	94	33	61
Kordestan .....	623	000	1042	520	522
Kerman .....	1125	000	1890	700	1190
Kermanshah .....	668	000	1115	565	550
Kohgiluyeh & Boyerahmad .....	338	000	661	291	370
Golestan .....	589	000	1258	469	789
Gilan .....	971	000	2088	720	1368
Lorestan .....	628	000	1022	366	656
Mazandaran .....	1215	000	2293	798	1495
Markazi .....	399	000	738	238	500
Hormozgan .....	527	000	965	381	584
Hamedan .....	575	000	1077	399	678
Yazd .....	212	000	423	161	262

Source: Ministry of Health and Medical Education.

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

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
1384.....	4204	1964	1677	563	1734	2470	3310	894
1385.....	4414	2071	1768	575	1873	2541	3513	901
1386.....	4551	2134	1834	583	1948	2592	3633	907
1387.....	4955	2341	1973	641	2200	2755	4112	843
<b>1388.....</b>	<b>5037</b>	<b>2383</b>	<b>2080</b>	<b>574</b>	<b>000</b>	<b>000</b>	<b>4209</b>	<b>828</b>
East Azarbayejan...	195	97	86	12	000	000	152	43
West Azarbayejan..	133	77	49	7	000	000	106	27
Ardebil .....	73	48	20	5	000	000	59	14
Esfahan.....	393	180	178	35	000	000	328	65
Ilam .....	45	34	10	1	000	000	34	11
Bushehr .....	58	46	12	0	000	000	50	8
Tehran .....	1003	113	728	162	000	000	851	152
Chaharmahal & Bakhtiari.....	115	94	13	8	000	000	105	10
South Khorasan .....	55	37	10	8	000	000	46	9
Khorasan-e-Razavi	360	175	134	51	000	000	290	70
North Khorasan .....	58	40	12	6	000	000	50	8
Khuzestan.....	232	97	93	42	000	000	178	54
Zanjan .....	63	42	19	2	000	000	57	6
Semnan.....	69	44	17	8	000	000	59	10
Sistan & Baluchestan .....	102	76	17	9	000	000	85	17
Fars.....	377	200	139	38	000	000	322	55
Qazvin .....	76	33	31	12	000	000	63	13
Qom .....	65	19	25	21	000	000	57	8
Kordestan .....	177	105	50	22	000	000	148	29
Kerman .....	64	36	24	4	000	000	50	14
Kermanshah .....	117	71	35	11	000	000	95	22
Kohgiluyeh & Boyerahmad .....	52	38	13	1	000	000	47	5
Golestan .....	105	49	41	15	000	000	85	20
Gilan .....	177	79	78	20	000	000	148	29
Lorestan .....	118	80	29	9	000	000	100	18
Mazandaran .....	245	107	110	28	000	000	203	42
Markazi .....	132	91	32	9	000	000	113	19
Hormozgan .....	163	141	17	5	000	000	146	17
Hamedan .....	99	61	34	4	000	000	85	14
Yazd .....	116	73	24	19	000	000	97	19

1. Excluding malaria diagnosis laboratories.

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

Source: Ministry of Health and Medical Education.

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

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
1384.....	2311	281	1466	564	1633	678
1385.....	2704	319	1789	596	1956	748
1386.....	3042	349	2071	622	2230	812
1387.....	3369	373	2301	695	2551	818
<b>1388<sup>(3)</sup>.....</b>	<b>4752</b>	<b><sup>(4)</sup>557</b>	<b>3358</b>	<b>837</b>	-	-
East Azarbayejan .....	000	000	000	000	-	-
West Azarbayejan .....	63	7	43	13	-	-
Ardebil .....	54	4	44	6	-	-
Esfahan.....	306	37	202	67	-	-
Ilam .....	000	000	000	000	-	-
Bushehr .....	39	2	28	9	-	-
Tehran .....	1443	88	1179	176	-	-
Chaharmahal & Bakhtiari .	30	2	23	5	-	-
South Khorasan .....	46	2	36	8	-	-
Khorasan-e-Razavi.....	829	247	323	259	-	-
North Khorasan .....	45	3	37	5	-	-
Khuzestan.....	261	16	205	40	-	-
Zanjan .....	60	9	43	8	-	-
Semnan.....	41	10	17	14	-	-
Sistan & Baluchestan .....	117	3	107	7	-	-
Fars.....	352	20	261	71	-	-
Qazvin .....	51	6	39	6	-	-
Qom .....	75	5	65	5	-	-
Kordestan .....	30	2	21	7	-	-
Kerman .....	80	19	54	7	-	-
Kermanshah .....	59	7	41	11	-	-
Kohgiluyeh & Boyerahmad	14	1	12	1	-	-
Golestan .....	108	8	95	5	-	-
Gilan .....	161	21	123	17	-	-
Lorestan .....	48	000	47	1	-	-
Mazandaran .....	239	17	197	25	-	-
Markazi .....	42	4	26	12	-	-
Hormozgan .....	44	1	21	22	-	-
Hamedan .....	49	6	36	7	-	-
Yazd .....	66	10	33	23	-	-

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

2. Statistics for rehabilitation include physiotherapy centres only.

3. Excluding East Azarbayejan and Ilam.

4. Excluding Lorestan.

Source: Ministry of Health and Medical Education.



**16. 10. RADIOGRAPHY CENTRES BY ADMINISTRATIVE AND LEGAL STATUS**

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
1384.....	2116	719	1026	371	921	1195	1411	705
1385.....	2227	761	1087	379	1012	1215	1469	758
1386.....	2292	777	1128	387	1104	1179	1527	766
1387.....	2452	784	1219	449	1191	1261	1674	778
<b>1388.....</b>	<b>2654</b>	<b>745</b>	<b>1451</b>	<b>458</b>	-	-	<sup>(1)</sup> <b>1846</b>	<b>808</b>
East Azarbayejan ..	126	45	67	14	-	-	126	000
West Azarbayejan	72	28	42	2	-	-	52	20
Ardebil .....	31	10	15	6	-	-	17	14
Esfahan.....	194	56	96	42	-	-	146	48
Ilam .....	18	11	5	2	-	-	7	11
Bushehr .....	33	14	12	7	-	-	19	14
Tehran .....	790	92	570	128	-	-	650	140
Chaharmahal & Bakhtiyari.....	26	9	11	6	-	-	17	9
South Khorasan .....	19	10	7	2	-	-	11	8
Khorasan-e-Razavi	186	55	82	49	-	-	131	55
North Khorasan .....	18	6	9	3	-	-	11	7
Khuzestan.....	145	44	63	38	-	-	92	53
Zanjan .....	27	12	11	4	-	-	16	11
Semnan.....	33	15	7	11	-	-	24	9
Sistan & Baluchestan .....	48	19	28	1	-	-	29	19
Fars.....	161	65	76	20	-	-	87	74
Qazvin .....	36	7	21	8	-	-	25	11
Qom .....	31	6	11	14	-	-	25	6
Kordestan .....	39	16	15	8	-	-	24	15
Kerman .....	78	34	33	11	-	-	32	46
Kermanshah .....	57	24	23	10	-	-	32	25
Kohgiluyeh & Boyerahmad .....	23	4	8	11	-	-	11	12
Golestan .....	46	19	21	6	-	-	24	22
Gilan .....	73	23	48	2	-	-	47	26
Lorestan .....	54	16	26	12	-	-	16	38
Mazandaran .....	107	36	63	8	-	-	71	36
Markazi .....	38	15	13	10	-	-	21	17
Hormozgan .....	47	23	15	9	-	-	25	22
Hamedan .....	48	17	21	10	-	-	27	21
Yazd .....	50	14	32	4	-	-	31	19

1. Including part-time and full time centres.

Source: Ministry of Health and Medical Education.

## 16. 11. PHARMACIES BY ADMINISTRATIVE AND LEGAL STATUS

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
1384.....	6679	409	6048	222	5607	1072
1385.....	7358	467	6650	241	6302	1056
1386.....	7601	487	6860	254	6841	760
1387.....	7965	832	6863	270	7161	804
<b>1388<sup>(2)</sup>.....</b>	<b>7806</b>	<b>383</b>	<b><sup>(3)</sup>6929</b>	<b>494</b>	<b>6920</b>	<b>886</b>
East Azarbayejan .....	000	000	000	000	000	000
West Azarbayejan .....	254	10	238	6	224	30
Ardebil .....	131	12	112	7	119	12
Esfahan.....	662	6	649	7	599	63
Ilam .....	61	9	47	5	44	17
Bushehr .....	74	8	65	1	62	12
Tehran .....	1962	24	1865	73	1819	143
Chaharmahal & Bakhtiari .....	79	3	74	2	74	5
South Khorasan .....	72	6	61	5	66	6
Khorasan-e-Razavi.....	681	27	605	49	604	77
North Khorasan .....	60	6	50	4	50	10
Khuzestan.....	441	25	360	56	381	60
Zanjan .....	98	11	86	1	80	18
Semnan.....	67	6	55	6	60	7
Sistan & Baluchestan .....	197	48	147	2	172	25
Fars.....	547	49	476	22	442	105
Qazvin .....	122	5	113	4	111	11
Qom .....	145	6	126	13	127	18
Kordestan .....	118	11	99	8	92	26
Kerman .....	258	15	228	15	231	27
Kermanshah .....	180	20	157	3	165	15
Kohgiluyeh & Boyerahmad .....	65	6	55	4	57	8
Golestan .....	179	25	000	154	137	42
Gilan .....	311	8	299	4	270	41
Lorestan .....	181	12	154	15	161	20
Mazandaran .....	382	12	367	3	344	38
Markazi .....	128	0	123	5	119	9
Hormozgan .....	92	10	72	10	74	18
Hamedan .....	144	2	136	6	131	13
Yazd .....	115	1	110	4	105	10

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

2. Excluding East Azarbayejan.

3. Excluding Golestan.

Source: Ministry of Health and Medical Education.

**16. 12. ACTIVITIES OF ANTI-MALARIA CAMPAIGN CENTRES**

Year	Number of slides in villages under care		Pesticides used in villages sprayed
	Tested	Positive cases	Insecticide (kg)
1370.....	2777896	98017	795435
1375.....	3670152	55843	157628
1380.....	1190213	18948	1670
1384.....	1270396	19256	<sup>(1)</sup> 10858
1385.....	1136302	15869	8260
1386.....	1056689	16468	8887
1387.....	934547	11290	7248
<b>1388.....</b>	<b>701559</b>	<b>5921</b>	<b>5384</b>

1. Revised figures.

Source: Ministry of Health and Medical Education.

**16. 13. VACCINATION BY THE MINISTRY OF HEALTH AND MEDICAL EDUCATION**

(1000 cases)

Year	Poliomyelitis V	Measles V	BCG.V (TB.V.)	Triple V.(D.P.T.)	Polyvalent V. (D.T.) (mixed V.)	MeningitisV	Hepatitis B.V.
1370.....	9537	3429	2810	9237	1869	346	270
1375.....	694	2873	2021	6603	6018	486	3717
1380.....	6848	2402	1121	4631	5433	915	3824
1384.....	6948	2345	1204	4563	3745	560	3973
1385.....	7268	2439	1279	4686	2524	653	4206
1386.....	7158	2004	1266	4793	3235	735	4252
1387.....	6683	2725	1183	4512	2861	710	3916
<b>1388.....</b>	<b>6862</b>	<b>3235</b>	<b>1277</b>	<b>4570</b>	<b>2700</b>	<b>671</b>	<b>4197</b>

Source: Ministry of Health and Medical Education.

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

Type of disease	1370	1375	1380	1384	1385	1386	1387	1388
Chicken pox .....	40011	52362	9589	000	000	000	000	000
Kinds of diarrhea.....	1460000	471708	000	000	000	000	000	000
Mumps .....	-	-	000	000	000	000	000	000
Infectious conjunctivitis.....	477000	219861	000	000	22744	000	000	000
Trachoma .....	3554	306	351	000	000	000	000	000
Rubella .....	-	-	000	13	71	84	140	124
Measles .....	5007	2651	7780	752	904	938	995	1355
Whooping cough.....	730	85	97	125	86	314	905	730
Favus .....	28300	10840	3891	000	000	000	000	000
Tetanus.....	25	36	24	7	12	7	13	5
Rabies.....	11	8	2	4	10	6	6	4
Hepatitis .....	15742	5157	11223	10462	11512	11667	10159	10391

Source: Ministry of Health and Medical Education.

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

Type of disease	1370	1375	1380	1384	1385	1386	1387	1388
Intestinal parasites.....	595000	282831	000	000	000	000	000	000
Malta fever .....	55898	30965	16471	26549	23558	21109	18250	12685
Leprosy .....	191	112	96	87	89	71	38	46
Typhoid and Paratyphoid .....	28819	7690	1869	379	437	975	449	490
Diphtheria.....	163	16	12	15	26	38	49	60
Aleppo boil.....	14698	19556	14505	21419	24517	26493	26920	23626
Pulmonary tuberculosis.....	11090	9989	9359	6079	6811	6820	7032	7373
Gonorrhoea (gonococcus urethritis).....	794	1989	7007	5592	6373	<sup>(1)</sup> 5993	<sup>(1)</sup> 4844	3860
Anthrax .....	101	178	269	155	161	155	177	155
Syphilis .....	1733	1459	484	795	952	153	<sup>(1)</sup> 153	88
Poliomyelitis .....	595000	282831	000	000	000	000	000	000
Meningitis .....	230	102	319	182	208	184	237	201
Cholera.....	1890	62	105	1133	24	57	220	18

1. Revised figures.

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
1370.....	191	132	59	37	154
1375.....	112	69	43	13	99
1380.....	96	44	52	3	93
1384 <sup>(2)</sup> .....	90	49	41	5	85
1385 <sup>(2)</sup> .....	72	39	33	0	72
1386 <sup>(2)</sup> .....	41	24	17	0	41
1387.....	38	24	14	0	38
<b>1388.....</b>	<b>46</b>	<b>31</b>	<b>15</b>	<b>0</b>	<b>46</b>

1. New cases reported for the stated year.

2. Revised figures.

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	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)	Sheep and goat (1000 heads)	Soliped <sup>(2)</sup> (1000 heads)	Camel (1000 heads)		
1370.....	29106	5932	2910	4148	1829	38048	23	0	390	964
1375.....	66500	7748	4615	15786	3060	63298	47	2	562	4578
1380.....	59314	4604	9169	27872	3701	57437	38	6	831	4653
1384.....	70476	0	10363	23121	4272	60421	79	21	1183	10107
1385.....	67313	0	14043	39733	3799	57996	93	20	968	9251
1386.....	61380	0	12398	37612	3814	55089	114	24	1030	8652
1387.....	64911	0	9876	11151	4047	56252	150	27	1223	7170
<b>1388.....</b>	<b>57247</b>	<b>0</b>	<b>13131</b>	<b>38580</b>	<b>3415</b>	<b>51231</b>	<b>117</b>	<b>30</b>	<b>996</b>	<b>7997</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>
1370.....	5585	30944
1375.....	10600	47040
1380.....	9051	42311
1384.....	11115	65051
1385.....	11972	61069
1386.....	12800	59042
1387.....	12846	56346
<b>1388.....</b>	<b>10173</b>	<b>50370</b>

1. Vaccines injected more than once a year.

2. Including horse, mule hinny and ass.

Sources: Veterinary Organization.

– Ministry of Jihad-e- Agriculture.

**16. 18. 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)
1370.....	766	3566	568	4480
1375.....	1168	2558	743	3607
1380.....	1180	1626	904	3529
1384.....	977	1103	723	2076
1385.....	1259	637	789	1938
1386.....	1331	1707	809	1881
1387.....	1404	3569	806	2005
<b>1388.....</b>	<b>1220</b>	<b>2733</b>	<b>731</b>	<b>901</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			
1370.....	239	11128	312	10990	16	0	0
1375.....	570	13475	613	13958	104	8479	5
1380.....	682	12307	683	9911	161	15648	0
1384.....	39	788	1947	21032	169	11758	0
1385.....	47	2286	1493	21818	243	17503	2
1386.....	1267	977	2394	28256	310	16692	9
1387.....	33	588	2993	32741	254	15222	23
<b>1388.....</b>	<b>27</b>	<b>629</b>	<b>2152</b>	<b>9227</b>	<b>278</b>	<b>15209</b>	<b>26</b>

Sources: Veterinary Organization.

- Ministry of Jihad-e-Agriculture.

**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	
1370.....	161581	5534	21276
1375.....	96579	5575	16171
1380.....	83333	10927	74971
1384.....	63070	<sup>(1)</sup> 23533	77732
1385.....	59477	<sup>(1)</sup> 31124	119766
1386.....	55932	<sup>(1)</sup> 21812	83856
1387.....	51197	<sup>(2)</sup> 20387	52029
<b>1388.....</b>	<b>47579</b>	<b><sup>(2)</sup>15113</b>	<b>49715</b>

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

2. Including sprayed livestock only.

Sources: Veterinary Organization;

- Ministry of Jihad-e-Agriculture.