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Ardabil Cancer Registry



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*Annual Report of Cancer Registry Unit's
activity in Ardabil province*

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Cancer Registry Unit

Annual Report of Cancer Registry Unit's activity in Ardabil province

Ardabil cancer registry is a population based cancer registry i.e. active collection of data on all malignant tumors and all CNS tumors (malignant or benign) occurring in a geographically defined population.

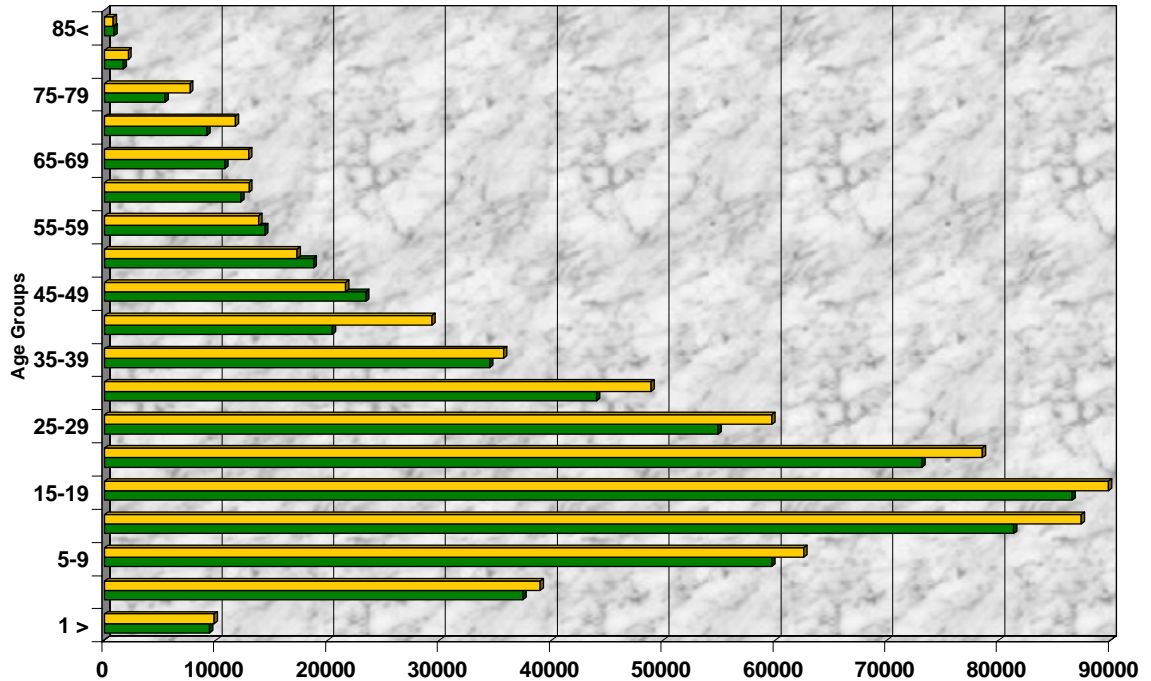
In the mid 1999, Ardabil cancer registry started its activities with compilation of data on patients diagnosed as cancer only based on pathologic reports that was gathered from private and community pathology centers.

Since September 2002 it was included in a new organization setup as a population based cancer registry that was founded in collaboration with Ardabil University of Medical sciences (AUMS), Digestive Diseases Research center (DDRC) and International Agency for Researches on Cancer (IARC).

Ardabil cancer registry (ACR) is located in Aras Clinic in Ardabil city that is the capital of Ardabil Province. The population covered by the registry comprises 9 urban districts and their related rural districts, with a total population of 1.2 million (chart -1) 1.9 % of the total population of Iran is contained within a geographical area of approximately 17953 Square kilometers in northwest of country



Chart- 1, Population of Ardabil 2003 (Male & Female)



Cancers reported to ACR are defined by the codes included in the third edition of the International Classification of Diseases for Oncology (ICD-O_{III}).

There are 4 categories of information collected by the cancer registry: Patient demographics, tumor (cancer) identification, treatment and outcome of patient.

- ✚ **Demographic data** consist of personal information about a patient such as the patient's name, age, gender, father's name, national identification number, living area, address, phone number and so on.
- ✚ **Tumor identification** results from the diagnostic findings about a patient. It includes the primary site of tumor (topography), cell type and stage of tumor (morphology), method of diagnosis and date of first diagnosis.
- ✚ Information collected regarding **cancer treatment** includes: surgery, radiotherapy, chemotherapy and others.

- Information about **patient's outcome** (vital Status) permits the registry to determine overall survival of cancer cases. This information includes date of death or last contact, cause of death and so on.

This information are recorded on 4 types of specific cancer registration forms (pages 7-10) that are designed specially for **hospitals, laboratories, clinics and radiology centers**.

Finally, these forms are submitted to ACR database with other sources of information such as death certificates and others.

These sources are included:

- Health service pathway:** cancer data are collected actively from a wide network of health centers in all around the county, which has three levels of public health services. This pathway is consisted of 511 health houses, 26 health bases, 43 urban health centers, 55 rural health centers and 9 regional health centers with more than 110 General practitioners. (Table-1)

Table – 1, Components of health services in Ardabil

Regional Health Centers	Health Houses	Health Bases	Rural Health Centers	Urban Health Centers	Covered Population	General Practitioner
<i>Ardabil</i>	89	15	8	16	528371	31
<i>Bile Savar</i>	25	1	4	2	58181	6
<i>Pars Abad</i>	57	3	6	5	164109	11
<i>Khalkhal</i>	62	2	8	5	105008	12
<i>Kousar</i>	34	1	5	1	3249	5
<i>Germi</i>	71	1	7	4	101597	9
<i>Meshkinsahahr</i>	102	2	10	7	176353	21
<i>Namin</i>	41	1	5	2	65055	7
<i>Nir</i>	30	0	2	1	28877	6
Total	511	26	55	43	1260041	108

- ✚ **Drugs and Treatment deputy Pathway:** There are more than 20 trained staffs that actively collect cancer information from 13 Hospitals with 886 Active beds in entire of province. Sources in Hospitals include the medical record section, department of pathology, hematology, radiology and other sections such as, chemotherapy, special clinics and so on. The facilities of each hospital are included in table- 2.

Table – 2, Hospital Facilities in Ardabil Province

Hospital	City	Facilities
Alavi	Ardabil	Special Clinics (Genecology, Ophthalmology, Urology, Neurology, Neurosurgery), Radiology, CT Scan, MRI, Sonography, Pathology, hematology.
Bu Ali & Ali Asghar	Ardabil	Special Clinics (Internal Diseases, Pediatrics, Dermatology, Endocrinology, Cardiology), Endoscopies, Bronchoscopy, Chemotherapy, Radiology, Sonography, Laboratory, Echocardiography.
Sabalan	Ardabil	Special Clinics (Genecology, Ophthalmology, Urology, Internal Diseases, ENT, General Surgery), Radiology, Sonography, Endoscopies, Laboratory, Echocardiography.
Fatemi	Ardabil	Special Clinics (Orthoepy, ENT, General Surgery, Psychology), Radiology, CT Scan, Sonography, Laboratory, Pathology.
Arta	Ardabil	Radiology, Sonography, Laboratory.
Isar	Ardabil	Special Clinics (Internal Diseases, Dermatology), Laboratory.
Emam Khomeini	Pars Abad	Radiology, Sonography, Laboratory.
Aras	Pars Abad	Special Clinics (Pediatrics, Genecology, General Surgery), Radiology, Sonography, Laboratory.
Emam Khomeini	Khalkhal	Special Clinics (Internal Diseases, Pediatrics, Genecology, General Surgery), Radiology, Sonography, Laboratory.
17 Shahrivar	Germi	Radiology, Laboratory.
Taleghani	Germi	Radiology, Laboratory.
Vali Asr	Mashkinshahr	Special Clinics (Internal Diseases, Pediatrics, Genecology, General Surgery, Ophthalmology), Chemotherapy, Radiology, Sonography, Pathology, Laboratory.
Emam Khomeini	Namin	Special Clinics (Pediatrics, Genecology) Radiology, Laboratory.

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The registry staffs visit the hospitals and clinics in a periodic investigation schedule to collect completed forms for cancer cases. There are more than 400 G P and 180 medical specialists in Ardabil province.

The AUMS has prepared a budget for spending in registration, the cost of registration is defined about 1000 – 1500 Rls per case. This policy has improved the registration efficacy in Ardabil.

The ACR has had full co-operation of all pathologists, medical laboratory specialists and radiologists in the province since establishment and routinely receives their cancer reports. The registry also reports its data to them and other clinicians or tumor study groups, and these interchanges also improve the quality of the registered data.

Reports of death certificates are routinely received from the office for statistics of AUMS and national Statistics, where cancer is cause of death. Primary registration is only carries out from death certificates (DCO) when no other information can be obtained.

All regional health centers apply consistency check. An extensive control program is also applied to the data submitted to the ACR database, these controls are applied to all items but the most important of them are, range checks and cross-checks between dates, sex and topography as well as between topography and morphology.

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