ALGERIA



BASIC COUNTRY DATA

Total Population: 35,468,208 Population 0-14 years: 27% Rural population: 34% Population living under USD 1.25 a day: 6.8% Population living under the national poverty line: no data Income status: Upper middle income economy Ranking: Medium human development (ranking 96) Per capita total expenditure on health at average exchange rate (US dollar): 191 Life expectancy at birth (years): 73 Healthy life expectancy at birth (years): 61

BACKGROUND INFORMATION

The number of VL cases recorded between 1965 and 1974 totaled 497. Between 1975 and 1984, 721 cases were notified, 84% of which were children from 6 months to 4 years old. In the past, only the north (between the Atlas chain and the coast) was endemic and cases were mainly detected in central and eastern parts of the Tell region: principally in the Grande Kabylie, Algerois and Constantinois areas (humid and sub-humid bioclimatic stages) [1]. Since 1980 a resurgence of the number of cases (1,121 cases from 1985 to 1990) and the appearance of new foci have occurred [2,3].

CL is a serious public health problem in Algeria, it being the second largest focus in the world after Afghanistan. This very old cutaneous disease, also called 'Biskra boil', used to be mainly endemic in the sub-Saharan steppes (southern Atlas foothills), where the most important foci are located. More recently, however, geographical spread towards the north and west (M'sila, Batna, Ksar Chellala, Djelfa and Bou-Saada) has taken place. In 1984-1985, only a few cases were registered, probably because of the application of DDT in 1983 [4], but since 1986, the number of cases increased rapidly to more than 2,000 per year [3]. Three CL outbreaks occurred in 2004-2006, with respectively 17,100, 32,200 and 15,000 cases.

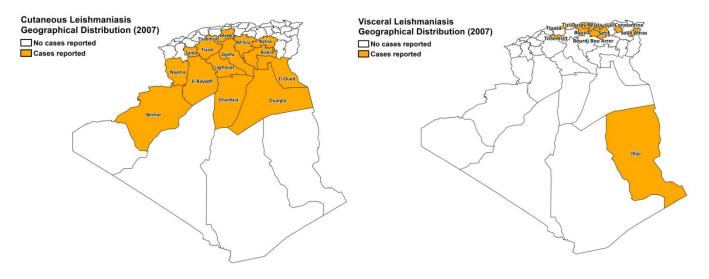
2.8% of visceral leishmaniasis cases are co-infected with HIV.

PARASITOLOGICAL INFORMATION

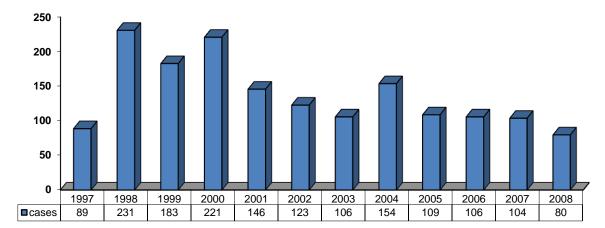
<i>Leishmania</i> species	Clinical form	Vector species	Reservoirs
L. infantum	ZVL, CL	P. longicuspis, P. perniciosus, P. perfiliewi	Canis familiaris
L. killicki	CL	Unknown	
L. major	ZCL	P. papatasi	Psammomys obesus

MAPS AND TRENDS

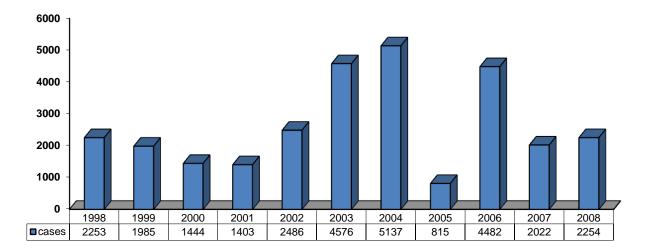
Cutaneous and visceral leishmaniasis



Visceral leishmaniasis trend



Cutaneous leishmaniasis trend



CONTROL

The notification of leishmaniasis is mandatory in the country and a national leishmaniasis control program for VL and CL has been in place since 2006. There is a leishmaniasis vector control program. It does not include bednet distribution. Insecticide spraying is regularly done. There is a leishmaniasis reservoir control program. Serological surveys of dogs are occasionally performed. Positive dogs are sacrificed and rodent control is regularly performed.

DIAGNOSIS, TREATMENT

Diagnosis

VL: confirmation by microscopic examination of tissue sample in specialized centers, cultures, IFAT and Western blotting are used.

CL: on clinical grounds, confirmation by microscopic examination of skin lesion sample.

Treatment

VL: antimonials, 20 mg Sb^{\vee}/kg/day for 30 days. Cure rate is 85-90%, with recurring cases in 5-10% and a fatality rate of < 6%.

CL: antimonials, intralesional or systemic, 20 mg Sb^v/kg/day. The cure rate is 95%, with recurring cases in 2%.

Second line treatment is with conventional amphotericin B.

ACCESS TO CARE

Care for leishmaniasis is provided for free. Diagnosis of CL takes place at health centre level. VL can only be diagnosed in hospitals. The private sector is not used for the treatment of leishmaniasis. All patients are believed to have access to care.

ACCESS TO DRUGS

Meglumine antimoniate (CL and VL) and conventional amphotericin B (VL) are included in the National Essential Drug List. Drugs for leishmaniasis are not available in pharmacies and unregulated drug markets. Meglumine antimoniate (Glucantime, Sanofi) is registered in Algeria.

SOURCES OF INFORMATION

- Drs Seridi Nabila and Boudrissa A, Institut Pasteur d'Algérie.
- Relevé Epidémiologique Mensuel (REM INSP). INSP: Institut National de Santé Publique.

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2. Harrat Z, Addadi K, Belkaid M, Tabet-Derraz O (1992). Visceral leishmaniasis in Algeria. Cases reported of visceral leishmaniasis (1985-1990). Bull Soc Pathol Exot. 85(4):296-301.

3. Harrat Z, Pratlong F, Belazzoug S, Dereure J, Deniau M et al (1996). Leishmania infantum and L. major in Algeria. Trans R Soc Trop Med Hyg 90(6):625-9.

4. Benzerroug EH, Benhabylles N, Izri MA, Belahcene EK (1992). Indoor and outdoor nebulization of DDT in the campaign against cutaneous zoonotic leishmaniasis in Algeria. Ann Soc Belg Med Trop 72(1):5-12.