FIFTY-FIRST WORLD HEALTH ASSEMBLY

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Disease prevention and control

Control of tropical diseases: Chagas disease and leprosy

Report by the Director-General

In 1991 the Ministers of Health of Argentina, Bolivia, Brazil, Chile, Paraguay and Uruguay launched the "Southern Cone Initiative for elimination of transmission of Chagas disease". Progress towards elimination has been documented by reports from the national control programmes of Argentina, Brazil, Chile and Uruguay. Attainment of the target will reduce the incidence of the disease in the whole of Latin America by more than 70%. In 1997 the initiatives of the Andean countries and the Central American countries were launched, and it is expected that elimination of transmission of Chagas disease will be reached in their territories by 2010.

In May 1991 the Health Assembly in resolution WHA44.9 set a target of prevalence below one case per 10 000 population for the global elimination of leprosy as a public health problem by the year 2000. This resolution has helped stimulate significant progress throughout the world and has increased programme coverage and implementation of multidrug therapy, resulting in a 76% reduction in the global prevalence since 1990. The number of endemic countries has been reduced from 122 in 1985 to 55 at the beginning of 1997. New initiatives have been implemented through leprosy elimination campaigns and special action projects to reach patients not yet detected and treated. The Health Assembly is invited to take note of the report and to consider the resolutions recommended by the Executive Board in its resolutions EB101.R6 and EB101.R7.

CHAGAS DISEASE

- 1. Chagas disease, named after the Brazilian physician Carlos Chagas who first described it in 1909, exists only on the American continent. It is caused by a parasite, *Trypanosoma cruzi*, transmitted to humans by triatomine insects. The geographical distribution of the human *T. cruzi* infection extends from Mexico to the south of Argentina. The disease affects 16-18 million people, and some 100 million, i.e. about 25% of the population of Latin America, is at risk of acquiring Chagas disease. After an asymptomatic period of several years following the acute stage, those infected develop cardiac symptoms which may lead to sudden death and digestive damage, mainly megaviscera.
- 2. Chagas disease is directly related to poverty: the blood-sucking triatomine bug which transmits the parasite finds a favourable habitat in crevices in the walls and roofs of poor houses in rural areas and in the peripheral urban slums.
- 3. The rural/urban migration that occurred in Latin America in the 1970s and 1980s changed the traditional epidemiological pattern of Chagas disease and transformed it into an urban infection that can be transmitted by blood transfusion. The figures of infection of blood in blood banks in some selected cities of the continent vary between 3% and 53%, showing that the prevalence of *T. cruzi*-infected blood is 10 to 20 times higher than that of HIV infection and hepatitis B and C.
- 4. The economic loss for the continent due to early mortality and disability currently amounts to US\$ 8200 million a year.
- 5. **Southern Cone Initiative:** In 1991, the Ministers of Health of Argentina, Bolivia, Brazil, Chile, Paraguay and Uruguay, launched the "Southern Cone Initiative for elimination of transmission of Chagas disease". The main vector is *Triatoma infestans*, a domiciliated triatomine. The progress towards elimination of transmission of Chagas disease by vectors and through blood transfusion in Uruguay, Chile, Argentina and Brazil has been documented (WHO, Weekly Epidemiological Record, Geneva, 6:38-40, 1994; 3:13-16, 1995; 2:12-15, 1996; 1:1/2-1, 1997). Current data on disinsecting of houses, screening in blood banks and serology in children and young adults indicate that the interruption of the transmission of Chagas disease by vectors and through blood transfusion will be achieved in Uruguay and Chile in 2000, Brazil and Argentina in 2003 (see Figures 1 and 2).
- 6. Control activities are progressing as scheduled in other countries of this Initiative such as Bolivia and Paraguay, but at this stage there are no entomological or epidemiological data available to assess the impact of the control programmes in these two countries and to estimate a date for achievement of interruption of transmission. Peru joined in March 1997 as the southern area of this country is also infested by *T. infestans*.
- 7. **Initiative of the Andean countries**: In the Andean countries, Colombia, Ecuador, Peru and Venezuela, progress in blood bank control is proceeding well and all of them have issued legislation. The elimination of the transmission by vectors was launched at an intergovernment meeting held in Bogotá in February 1997 where detailed country plans of action were prepared.
- 8. **Initiative of the Central American countries**: In the central American countries, Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, and Panama, progress in blood bank control is also proceeding well and all of them except one have issued legislation for compulsory blood screening against blood infected by *T. cruzi*. Similarly, the elimination of the transmission by vectors was launched at an intergovernment meeting held in Tegucigalpa in October 1997.

FIGURE 1

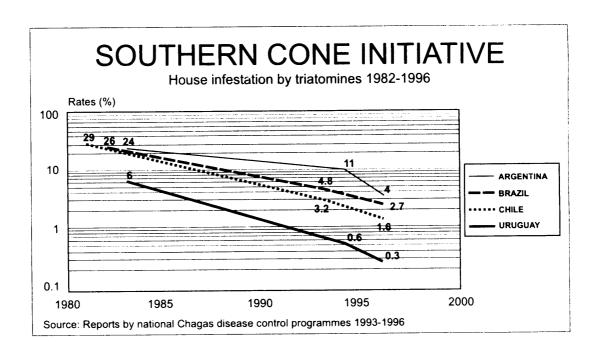
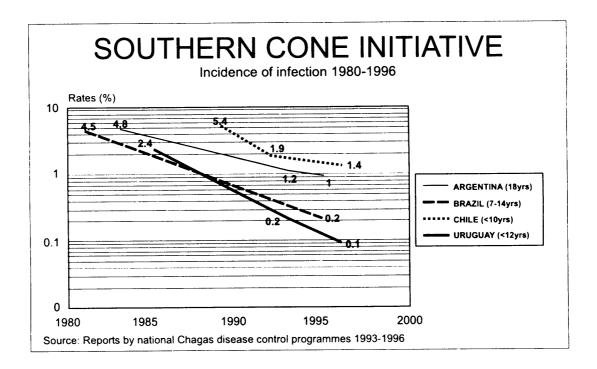


FIGURE 2



LEPROSY

- 9. Health Assembly resolution WHA44.9 has generated substantial political commitment from leprosyendemic countries to attain the target and has facilitated increased support from the international donor community, and encouraged the development of strategies and timed action plans at country, regional and global levels. There has been a 76% reduction in the number of registered cases (as shown in Table 1) and improvement in programme coverage as shown by the increased number of cases detected; the cumulative number of individuals cured reaching 8.4 million by the beginning of 1997.
- 10. The leprosy elimination advisory group which was established in 1994 plays an important role in overseeing the programme and its strategy, with increasing participation of nongovernmental organizations.

TABLE 1. REGISTERED LEPROSY CASES IN 1990 AND 1997, AND NEW CASES DETECTED IN 1996, BY WHO REGION

WHO region	Registered cases 1990		Registered cases 1997		New cases 1996	
	Number	Rate per 10 000	Number	Rate per 10 000	Number	Rate per 100 000
Africa	482 669	9.20	82 758	1.39	46 489	7.80
Americas	301 704	4.20	127 866	1.63	43 783	5.59
South-East Asia	2 693 104	20.50	637 413	4.50	457 921	32.36
Europe	7 246	0.10	732	0.10	37	-
Eastern Mediterranean	99 913	2.60	13 038	0.16	5 761	1.25
Western Pacific	152 739	1.00	26 533	0.01	12 613	0.77
Total	3 737 375	7.10	888 340	1.54	566 604	9.84

- 11. Despite the considerable progress made towards elimination, activities must be intensified in some major endemic countries and in parts of others to give sufficient access to and coverage of multidrug therapy.
- 12. WHO continues to provide country-level support in accelerating leprosy elimination activities. Political commitment was promoted through two international conferences on the elimination of leprosy, the first in Hanoi, in July 1994, and the second in New Delhi, in October 1996. Coordination of activities between ministries of health, international nongovernmental organizations and WHO is steadily improving in most of the countries, some through formal tripartite agreements. WHO is also collaborating with the World Bank in India and Bangladesh and is supporting the planning and implementation of national and local leprosy elimination campaigns and special action projects.
- 13. WHO has ensured that drugs for multidrug therapy are available in blister packs free of cost in all countries where they are needed, and in every health facility. During 1995-1997, WHO procured and supplied such drugs to treat more than 2.3 million patients in 52 endemic countries.
- 14. Over the past seven years over 2200 leprosy managers have been trained through 110 workshops in 22 countries; WHO is also supporting health systems research in leprosy.

- 15. A special leprosy elimination monitoring initiative, launched in 1996, has provided valuable detailed information on programme performance, including drug logistics. A geographical information system (GIS) on leprosy has also been developed.
- 16. WHO continues to promote the prevention and management of disabilities and community-based rehabilitation as part of leprosy programmes. Manuals on disability prevention and essential surgery in leprosy have been produced and disseminated. The recommendation of the WHO Expert Committee on Leprosy in its seventh report, 1997¹ on the need to develop a fresh strategy for disability prevention and rehabilitation to reach the largest number of persons in need is being followed up in collaboration with nongovernmental organizations.
- 17. Support for research, including basic research on *Mycobacterium leprae*, on diagnostic tools for early detection, and on primary prevention, as well as studies on leprosy reactions and nerve damage, continues in order to improve treatment of leprosy. The studies are coordinated through steering committees on chemotherapy and immunology under the Special Programme for Research and Training in Tropical Diseases.
- 18. An accelerated plan for elimination by the year 2000 has been developed to detect and treat with multidrug therapy an estimated 2 million cases. This is possible once the necessary resources are mobilized, provided that the urgency of leprosy elimination is fully recognized and all interested parties work together. The plan includes the leprosy elimination campaigns and special action projects, in addition to measures for all peripheral health facilities to give multidrug therapy free of cost.
- 19. The special initiative for leprosy elimination campaigns aims to detect cases in people who are not reporting to health services because of social stigma, poor accessibility, and/or lack of knowledge of the disease and its curability; to create community awareness, enabling the local health services to diagnose and treat patients; and to reach underserved groups, such as refugees and nomads, through innovative approaches to detect and treat cases in time.

MATTERS FOR THE PARTICULAR ATTENTION OF THE HEALTH ASSEMBLY

20. The Health Assembly is invited to consider the resolutions recommended by the Executive Board in its resolutions EB101.R6 and EB101.R7.

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¹ WHO Technical Report Series, No. 874, 1998.