

Action plan

for the prevention of
avoidable blindness
and visual impairment

2009 - 2013



World Health
Organization



The five

Objectives

Action plan for the
prevention of
avoidable
blindness and
visual impairment



1

Strengthen advocacy to increase Member States' political, financial and technical commitment in order to eliminate avoidable blindness and visual impairment

2

Develop and strengthen national policies, plans and programmes for eye health and prevention of blindness and visual impairment

3

Increase and expand research for the prevention of blindness and visual impairment

4

Improve coordination between partnerships and stakeholders at national and international levels for the prevention of blindness and visual impairment

5

Monitor progress in elimination of avoidable blindness at national, regional and global levels

ACTION PLAN FOR THE PREVENTION OF AVOIDABLE BLINDNESS AND VISUAL IMPAIRMENT, 2009-2013.

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Foreword

More than 80% of global visual impairment is avoidable. Cost-effective interventions exist for major causes of visual impairment and for blindness. Together we can change lives of millions, but we need to act.

Visual impairment is a significant health problem worldwide. The World Health Organization estimates that globally about 314 million people are visually impaired, of whom 45 million are blind. It has been estimated that over 80% of global visual impairment is preventable or treatable. In spite of this, millions of people remain at risk of visual loss due to the lack of eye-care services. With almost 90% of blind and visually impaired people living in low- and middle-income countries, including some of the world's poorest communities, access to eye care is often unavailable.

The major causes of blindness include cataract, uncorrected refractive errors, glaucoma, age-related macular degeneration, corneal opacities, diabetic retinopathy, eye diseases in children, trachoma and onchocerciasis.

At the Sixty-first World Health Assembly, in order to intensify efforts towards elimination of avoidable blindness, Member States called for an action plan addressing the eye-health agenda. The WHO Secretariat developed, in consultation with Member States and international partners, the Action plan for the prevention of avoidable blindness and visual impairment. The Action plan defines five objectives, which are to be implemented during the period 2009 to 2013. These objectives draw on the international experience and achievements made in the prevention of avoidable blindness over recent decades. Each objective contains specific sets of actions for WHO Member States, the Secretariat and international partners, which are intended to guide efforts towards strengthening eye-care service delivery in populations through the implementation of comprehensive eye-care programmes at national and subnational levels.

International collaborative efforts, combined with renewed momentum as a result of the implementation of the Action plan, will foster blindness prevention. As eye care gains greater prominence in the global health arena, pooling resources and sharing knowledge of positive experiences will increase the opportunities for bringing eye care to all.

We call on all stakeholders to join us in scaling up interventions for the prevention of avoidable blindness and visual impairment through the implementation of the global Action plan. Together, we have the potential to improve the lives of millions.

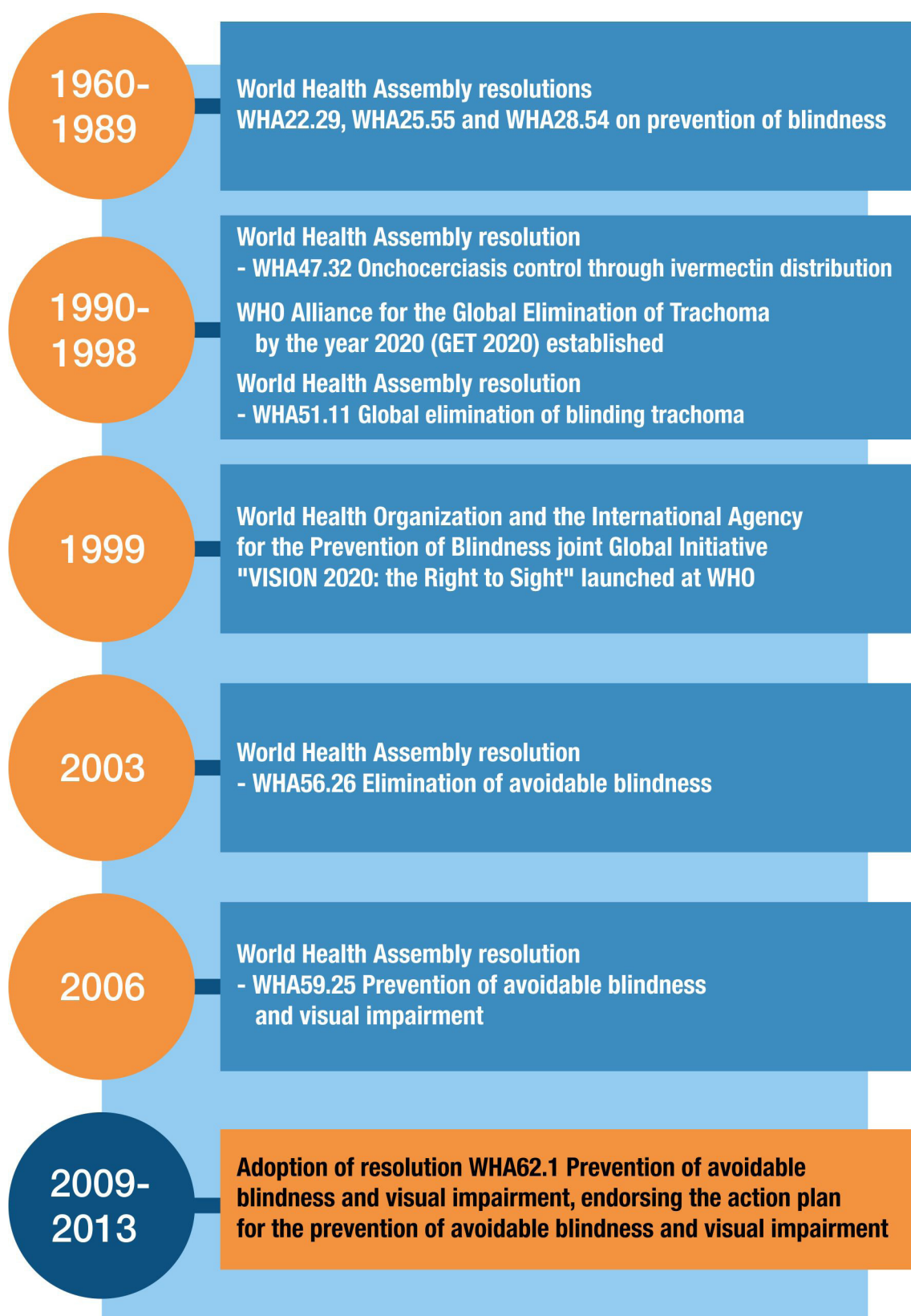
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The global response to strengthen eye health





Introduction

The Action plan for the prevention of avoidable blindness and visual impairment is intended to serve as a roadmap to consolidate joint efforts aimed at eliminating avoidable blindness as a public health problem in all communities worldwide.

At the Sixty-first World Health Assembly in 2008, Member States requested that an action plan be developed that would address the eye-health agenda, and complement the existing Action plan for the global strategy for the prevention and control of noncommunicable diseases, endorsed in resolution WHA61.14. The World Health Organization (WHO) Secretariat developed a draft action plan for the prevention of avoidable blindness and visual impairment using an open consultative process, thereby benefiting from the valuable expertise and diverse experience of Member States and international partners. The draft action plan was endorsed at the 124th session of the Executive Board in January 2009. Subsequently, the Sixty-second World Health Assembly adopted resolution WHA62.1 Prevention of avoidable blindness and visual impairment, endorsing the Action plan for the prevention of avoidable blindness and visual impairment. Resolution WHA62.1 also builds on previous related Health Assembly resolutions.¹

The Action plan supports the implementation of WHO's Eleventh General Programme of Work 2006-2015 and the Medium-term strategic plan 2008-2013.

The Action plan draws on experience in the control of avoidable visual impairment in various socioeconomic settings, as summarized in the situation analysis section of the document.

Five objectives are defined within the Action plan for implementation during the five-year period from 2009 to 2013. Each objective includes specific sets of actions for WHO Member States, the Secretariat and international partners.

There have been significant shifts in the pattern of causes of visual impairment. Socioeconomic development and improved living standards in many societies have resulted in greater control of major communicable causes of blindness, such as trachoma and onchocerciasis. While it is essential to continue to invest efforts in eliminating communicable eye diseases as causes of visual impairment and blindness, the future challenge lies in the provision of eye care for noncommunicable eye diseases. Unless additional eye-care services are provided, the number of people suffering from vision loss due to chronic age-related eye diseases will rise as a result of increased life expectancy and population growth.

In order to prevent avoidable visual impairment at the community level, it is necessary for primary eye-care services to be strengthened. At the national level, provision of adequate eye-care services requires the development of specific human resource skills, technology and infrastructure. Further development of sustainable, affordable, equitable, and comprehensive eye-care services as an integral part of national health systems is needed.

The Action plan proposes effective measures that can be taken to reduce the prevalence of avoidable visual impairment. Member States and international partners are presented with a set of actions from which they can adopt those most appropriate to their own settings and needs.

¹ WHA51.11 Global elimination of blinding trachoma, WHA56.26 Elimination of avoidable blindness, and WHA59.25 Prevention of avoidable blindness and visual impairment.





Action plan for the prevention of avoidable blindness and visual impairment¹

WORLD HEALTH ASSEMBLY DOCUMENT A62/7 (2 APRIL 2009)

1. According to the latest WHO estimates, about 314 million people worldwide live with visual impairment due to either eye diseases or uncorrected refractive errors. Of these, 45 million are blind, of whom 90% live in low-income countries. The major causes of blindness are cataract (39%), uncorrected refractive errors (18%), glaucoma (10%), age-related macular degeneration (7%), corneal opacity (4%), diabetic retinopathy (4%), trachoma (3%), eye conditions in children (3%), and onchocerciasis (0.7%). The actual magnitude of blindness and visual impairment is likely to be higher than estimates indicate, as detailed epidemiological information on some causes (e.g. presbyopia) is still lacking.

2. With today's knowledge and technology, up to 80% of global blindness is preventable or treatable. Cost-effective interventions are available for the major causes of avoidable blindness. Major international partnerships have been established in recent years, including the African Programme for Onchocerciasis Control, the Onchocerciasis Elimination Program for the Americas, the WHO Alliance for the Global Elimination of Blinding Trachoma and VISION 2020: the Right to Sight.

3. Two recently adopted Health Assembly resolutions (WHA56.26 and WHA59.25) focused on avoidable blindness and visual impairment, urging Member States to work on prevention, mainly through specific plans and inclusion of the subject in national health plans and programmes. Despite significant progress in the area of eye health, the prevalence of avoidable blindness remains unacceptably high in many countries and communities.

¹ See resolution WHA62.1.

PURPOSE

4. The plan aims to expand efforts by Member States, the Secretariat and international partners in preventing blindness and visual impairment by developing comprehensive eye-health programmes at national and subnational levels.

5. In order to intensify and coordinate existing activities, especially in low- and middle-income countries, the plan seeks to:

- (a) increase political and financial commitment to eliminating avoidable blindness;
- (b) facilitate the preparation of evidence-based standards and guidelines, and use of the existing ones, for cost-effective interventions;
- (c) review international experience and share lessons learnt and best practices in implementing policies, plans and programmes for the prevention of blindness and visual impairment;
- (d) strengthen partnerships, collaboration and coordination between stakeholders involved in preventing avoidable blindness;
- (e) collect, analyse and disseminate information systematically on trends and progress made in preventing avoidable blindness globally, regionally and nationally.

SCOPE

6. This plan focuses on the major causes of avoidable blindness and visual impairment, as defined in the draft eleventh revision of the International Statistical Classification of Diseases and Related Health Problems.¹ The plan does not deal with categories of milder visual impairment or eye conditions for which evidence-based prevention and/or treatment interventions are not available; these cases will require effective and appropriate rehabilitation measures that enable people with disabilities to attain and maintain maximum independence and full inclusion and participation in all aspects of life.

7. Since blinding conditions are chronic and mostly due to noncommunicable causes, this plan complements the action plan for the global strategy for the prevention and control of noncommunicable diseases adopted by the Health Assembly in resolution WHA61.14. Prevention strategies differ significantly, however, as most blinding conditions do not share the risk factors, other than tobacco use, addressed in the noncommunicable disease plan. Although, as with noncommunicable diseases, primary health-care and community-based interventions are essential for preventing blindness and visual impairment, the provision of high-quality eye-care services needs specific skills, technology and infrastructure.

8. Evidence indicates that the magnitude of avoidable blindness caused by communicable diseases like trachoma and onchocerciasis and ophthalmological complications in measles is decreasing, whereas noncommunicable age-related eye conditions (e.g. cataract, glaucoma and diabetic retinopathy) are increasing. Programmes against both onchocerciasis and trachoma need continued efforts for control and to avoid recurrence. A coordinated intersectoral approach to both communicable and noncommunicable conditions is needed.

9. In view of the adverse global economic climate it is essential to maximize the impact of existing resources and technical programmes across WHO that contribute to the prevention of blindness, and also influence the conditions that make populations vulnerable to visual impairment. An example of this is the use of immunization, and vitamin A supplementation in vulnerable populations, to reduce the risk of blindness due to corneal opacities.

RELATION TO EXISTING STRATEGIES AND PLANS

10. Prevention of avoidable blindness and visual impairment has been the subject of several resolutions adopted by the Health Assembly,² which, inter alia, encouraged several international partnerships and alliances to work at the global level in this field. The action plan supports implementation of WHO's Eleventh General Programme of Work 2006–2015 and the Medium-term strategic plan 2008–2013, particularly strategic objective 3, which covers work on prevention and control of avoidable blindness and visual impairment. It also supports the implementation of existing regional resolutions and plans.³

RESOURCES

11. The Programme budget 2008–2009 describes the financial resources required by the Secretariat for work to meet strategic objective 3. For future bienniums, additional resources will be required. Further progress in preventing avoidable blindness and visual impairment globally, regionally and nationally will depend on the amount of additional resources available. All partners – including intergovernmental and nongovernmental organizations, academic and research institutions and the private sector – will need to do more for resource mobilization at all levels.

TIME FRAME

12. This action plan is designed to cover the period 2009–2013, that is, the remaining five years of the Medium-term strategic plan.

¹ "Blindness" is defined as a presenting visual acuity of less than 3/60, or a corresponding visual field loss to less than 10° in the better eye with the available correction. "Severe visual impairment" is defined as a presenting visual acuity of between less than 6/60 and 3/60, and "moderate visual impairment" is defined as a presenting visual acuity of less than 6/18 to 6/60. In this document "visual impairment" includes both severe and moderate visual impairment.

² Resolutions WHA22.29, WHA25.55, WHA28.54, WHA47.32, WHA51.11, WHA56.26 on elimination of avoidable blindness and WHA59.25 on prevention of avoidable blindness and visual impairment.

³ See resolution EM/RC49/R.6 on VISION 2020: The Right to Sight – elimination of avoidable blindness, resolution EM/RC52/R.3 on Prevention of avoidable blindness and visual impairment, document AFR/RC57/6 (Accelerating the elimination of avoidable blindness – a strategy for the WHO African Region) and PAHO: Draft Ocular Health Strategy and Plan of Action 2008–2012.

SITUATION ANALYSIS

Magnitude, causes and impact of blindness and visual impairment

13. Determining the causes and magnitude of blindness is necessary for setting priorities, designing targeted strategies and establishing international blindness-prevention cooperation and alliances. Recent years have seen much better availability of data on the causes and magnitude of blindness and visual impairment around the world. In the past, surveys on the causes used a variety of methods and definitions, but WHO's development of standardized and feasible methodologies has facilitated collection from Member States of comparable epidemiological and health-system data, for example on the rapid assessment of surgical services for cataract and of avoidable blindness. The childhood blindness protocol is another example of such progress.

14. To date, epidemiological surveys have been conducted in 65 countries. However, the absence of surveys and lack of data in the remaining countries have greatly hampered detailed planning, monitoring and evaluation of interventions. In addition, missing epidemiological data on the status of visual health in the population limits further analysis of the trends of visual impairment and the timely development of appropriate public health interventions.

15. Collection of reliable and standardized epidemiological data is a priority for countries where such data are not available. Action is also needed to develop modelling approaches in order to determine trends and set targets, so that the planning of efforts to prevent avoidable blindness and visual impairment can be more focused and evidence-based. Also required is an improved mechanism for systematically collecting standardized information on human resources, infrastructure and available technologies, and countries must be ready to respond to the observed needs.

Prevention of blindness and visual impairment as part of national health development plans and WHO technical collaboration with Member States

16. Despite the availability of WHO information on the magnitude and causes of blindness and strategies for their prevention, policy-makers and health providers in some countries are evidently not fully aware of available eye-care interventions, their cost-effectiveness and their potential to prevent or treat the 80% of global blindness that is avoidable. Country cooperation strategies reflect

the agreed joint agenda between health ministries and WHO. So far, the inclusion of blindness prevention in such documents has been minimal, despite seven resolutions of the Health Assembly relating to prevention of avoidable blindness and visual impairment, the existence of WHO's major, long-standing international partnerships on prevention of blindness, and major successes in reducing avoidable blindness, such as WHO's Onchocerciasis Control Programme. Lack of adequate resources for preventing blindness at the country level is a major impediment. Additionally, faced with increasingly limited resources, donor and recipient countries often give higher priority to mortality-related disease control programmes than to those dealing with problems of disability. Also, experienced staff to coordinate blindness-prevention activities at the regional and country levels are in short supply.

17. Greater priority should be given to preventing blindness in health development plans and country cooperation strategies. Action is also needed to strengthen technical support and enhance the provision of expert advice to Member States where blindness and visual impairment are a major health problem.

National eye health and prevention of blindness committees

18. It is important to establish national committees and programmes for eye health and blindness prevention. Their role is to liaise with all key domestic and international partners, to share information and to coordinate such activities as implementing the national eye health and blindness-prevention plan. A functional national committee is a prerequisite for developing the national blindness-prevention plan and its implementation, monitoring and periodic assessment. Some countries, particularly those with decentralized or federated management structures, have similar committees at subnational level.

19. By the end of 2008, 118 Member States had reported the establishment of a national committee. However, not all national committees are functional and, unfortunately, in many cases such committees have not successfully initiated effective action. In some instances, selected individuals, often dedicated eye-care professionals, are relied on to provide leadership and serve as the driving force for blindness-prevention plans and programmes. The committees' membership is often not uniform, ranging from the ideal scenario, in which all key partners are represented (including the national health-care authorities), to a minimal group of dedicated eye-care professionals.

National eye health and prevention of blindness plans

20. Experience has shown that, in low- and middle-income countries, a comprehensive national plan containing targets and indicators that are clearly specified, time-linked and measurable leads to substantially improved provision of eye health-care services.

21. Most low- and middle-income countries (104 Member States by the end of 2008) have reported the development of national eye health and blindness-prevention plans, but reporting on and assessment of their implementation and impact have been insufficient. Some national plans do not include measurable targets, an implementation timeline and adequate tools for monitoring and evaluation. In some countries, the plans have only been partially implemented. In addition, because of lack of resources and leadership, some countries have made only slow or fragmented progress and their plans for eye health and national prevention of blindness have not yielded tangible improvements in the provision of eye-care services. It is necessary to ensure that the implementation phase of national plans is well managed, and a standardized approach to monitoring and evaluation of national and subnational eye health and blindness-prevention plans must be taken.

WHO's strategies for prevention of blindness and visual impairment and provision of technical support

22. WHO's strategy for the prevention of avoidable blindness and visual impairment is based on three core elements: strengthening disease control, human resource development, and infrastructure and technology. This approach has been promoted since 1999 by the global initiative "VISION 2020: the Right to Sight", which was established as a partnership between WHO and the International Agency for the Prevention of Blindness. The past decade has seen major progress in the development and implementation of WHO's approaches to controlling communicable causes of blindness and visual impairment. Achievements in controlling onchocerciasis and trachoma were based, respectively, on implementation of WHO's strategies of community-directed treatment with ivermectin and the SAFE strategy for trachoma control, and their adoption by Member States and international partners. This unified approach facilitated preventive efforts aimed at millions of individuals at risk of visual loss, and convinced major donors that long-term commitment is required.

23. Subsequently, major shifts in the pattern of causes of blindness have been documented, with a declining trend for the communicable causes and a progressive increase in age-related chronic eye conditions. Public health interventions for some of the major conditions such as cataract and diabetic retinopathy have been systematically reviewed and respective WHO recommendations have been formulated. Strategies are needed to control other conditions such as glaucoma.

24. By the end of 2008, 150 Member States had held national or subnational VISION 2020 workshops to introduce WHO's strategies for eye health. These workshops were the platform for sharing expertise about community eye health and facilitated the process of needs assessment and subsequent formulation of national and subnational blindness-prevention plans.

Prevention of avoidable blindness and visual impairment as a global health issue

25. Reliable epidemiological data and the availability of cost-effective interventions for the control of most of the major causes of avoidable blindness have demonstrated the importance of strengthening national initiatives in preserving eye health. In resolutions WHA56.26 and WHA59.25, the Health Assembly recommended a unified approach to blindness-prevention activities, urging Member States to establish national committees, to set up national blindness-prevention plans, and to devise strong monitoring and evaluation mechanisms for their implementation. In addition, it has been recognized that advocacy for preventing visual loss needs to reach a wider audience, and that the importance of preserving eye health needs to be further promoted in the public health domain and the community.

26. In some countries the impact of Health Assembly resolutions on allocation of new resources for development and implementation of blindness-prevention plans has fallen short of expectations. In most countries action is slow and progress in implementing adequate blindness-prevention activities is limited.

27. Plans and programmes on blindness prevention exist at global level and in some cases at regional and national levels, but action is now required to provide support to Member States that have not yet developed such programmes in applying international experience and scientific evidence in order to develop and implement their own blindness-prevention measures. Action is also required to integrate the eye-health agenda and its impact on poverty alleviation in the overall development agenda.

International partnerships

28. Over the past decade, major international partnerships have been forged to assist WHO in providing support to Member States in their efforts to prevent blindness, such as "VISION 2020: the Right to Sight". The partnerships have made substantial progress, mostly in combating infectious causes of blindness. They have also encouraged and supported long-term resource mobilization, including donation programmes (e.g. the Merck donation programme for ivermectin to control onchocerciasis, and distribution of azithromycin under a donation programme by Pfizer to control trachoma). Global partnerships have united and substantially strengthened the key international stakeholders in their action to prevent blindness, using WHO disease control strategies.

29. Coordination and timely evaluation of work undertaken by international partners is required so that their approaches are aligned with other activities in the area of blindness prevention. Despite some notable improvements in collecting data on blindness-prevention activities at the country and subnational levels, consolidated reporting remains limited. One reason is the weakness of many countries' monitoring systems, another being the limited information sharing and exchange between countries and their international partners.

30. The action now required is to improve coordination and information exchange between all stakeholders.

Human resources and infrastructure

31. Despite efforts to strengthen human resources for eye health, a crucial shortage of eye-care personnel persists in many low-income countries. Many countries in the African Region, for instance, have less than one ophthalmologist per million inhabitants. In addition, the existing human resources are often concentrated in larger urban agglomerations, leaving the rural areas with a poor or non-existent service. Furthermore, well-trained personnel leave low-paid positions in many of the public and university health-care establishments, seeking work in the domestic private health-care sector or even work opportunities abroad. It is thus the poorest areas of low-income countries that are most seriously disadvantaged by a suboptimal workforce beset by shortages, low productivity and uneven distribution.

32. Although recent technological developments in eye care have resulted in advanced methods of diagnostics and treatment, the cost of properly equipping a

secondary and/or tertiary eye-care centre is prohibitive for many low-income countries.

33. Urgent action is required within countries to train more eye-health personnel and redress the distribution of the available workforce between urban and rural areas.

Resource mobilization

34. Strong international partnerships have been instrumental in convincing international and domestic donors to support blindness-prevention activities (e.g. the African Programme for Onchocerciasis Control, the Onchocerciasis Elimination Program for the Americas, the WHO Alliance for the Global Elimination of Blinding Trachoma, and VISION 2020: the Right to Sight). Despite these disease-specific achievements, there have been major shortfalls in the resources available for national programmes of eye health and blindness prevention. Moreover, the potential for generating additional international and domestic resources has not been fully explored. The lack of adequate resources for blindness prevention and visual impairment activities could seriously jeopardize advances in eye-health care.

35. The action now required is to review the current approaches to financing eye-health systems, highlight the socioeconomic impact of blindness, the cost-effectiveness of eye-health interventions, and the financial benefits of early prevention of blindness and visual impairment.

Integration of eye health into broad development plans

36. The creation of comprehensive, integrated health services and sharing of resources and infrastructure will be facilitated by incorporating eye health in broader intersectoral development plans. An added value was recorded in countries where prevention of blindness was integrated into the broader health development plans and/or socioeconomic development programmes.

37. Despite reported links between visual impairment and decreased socioeconomic opportunities for the affected individuals, prevention of blindness has not been sufficiently addressed in many major international and domestic development agendas. There has been insufficient research on the impact of blindness in various socioeconomic settings as well as on limitations of access to eye care for low-income groups, and the action now required is to promote further research in these areas.

OBJECTIVES AND ACTION**1****Strengthen advocacy to increase Member States' political, financial and technical commitment in order to eliminate avoidable blindness and visual impairment**

38. International advocacy for the preservation of visual health aims to increase awareness of current blindness-prevention plans, especially the cost-effective interventions available and international experience in their implementation. This advocacy effort should target health-care professionals and policy-makers in order to encourage the intersectoral action needed to improve eye health-care systems, to integrate them in national health systems, and incorporate eye health in broader health-care and development plans. It should also target potential donors and those who set research priorities and funding levels so as to accumulate evidence on prevention of blindness and visual impairment and their impact.

39. Further research is needed on the impact of risk factors such as smoking, ultraviolet radiation and lack of hygiene. Inequities in access to eye-care services also need to be further researched.

40. Special attention should be paid to raising public awareness and finding appropriate ways of communicating information on prevention of visual loss and ways of treating eye conditions.

Proposed action for Member States

41. Establish and support national coordinating mechanisms, such as national coordinators posts for eye health and prevention of blindness at health ministries and other key institutions, as appropriate.

42. Consider budgetary appropriations for eye health and prevention of blindness.

43. Promote and integrate eye health at all levels of health-care delivery.

44. Observe World Sight Day.

45. Integrate eye-health preservation in health promotion agendas.

Action for the Secretariat

46. Conduct political analyses to determine the best way of securing support of high-level decision-makers and their commitment to promoting eye health, and explore the potential impact and ways of integrating blindness prevention in socioeconomic policies and programmes [2009–2011].

47. Make policy-makers aware of the relationship between eye diseases, gender, poverty and development, using evidence-based information and epidemiological data and take forward the work on social determinants of health as it relates to eye-health problems [2009–2010].

48. Harmonize the advocacy messages used by international partners in various health and development forums [2009–2010].

49. Promote collaboration by programmes and groups across the Organization in work on tackling major risk factors for visual impairment.

Proposed action for international partners

50. Support WHO in involving all stakeholders in advocacy in order to raise awareness of the magnitude of blindness and visual impairment, the availability of cost-effective interventions, and international experience in applying them.

51. Support Member States in establishing forums where key stakeholders – including nongovernmental organizations, professional associations, academia, research institutions and the private sector – can agree on concerted action against avoidable blindness and visual impairment.

2

Develop and strengthen national policies, plans and programmes for eye health and prevention of blindness and visual impairment

52. National policies, plans and programmes for eye health and prevention of avoidable blindness and visual impairment are essential instruments for coordinated, evidence-based, cost-effective, sustainable interventions. Integration of eye health into relevant national health policies, including those relating to school and occupational health, facilitates a coordinated multidisciplinary approach and development of comprehensive eye care, with emphasis on primary eye care.

53. Evidence-based WHO strategies for tackling several main causes of avoidable blindness and visual impairment have been designed in order to support the formulation of policies and programmes. Some strategies are already in place for the control of trachoma, onchocerciasis, vitamin A deficiency, diabetic retinopathy and some aspects of cataract-related visual loss, but strategies for emerging major causes of visual loss need to be developed.

Proposed action for Member States

54. Where sufficient capacity exists, develop national strategies and corresponding guidelines for the prevention of blindness and visual impairment; otherwise consider adapting those recommended by WHO.

55. Review existing policies addressing visual health, identify gaps and develop new policies in favour of a comprehensive eye-care system.

56. Incorporate prevention of blindness and visual impairment in poverty-reduction strategies and relevant socioeconomic policies.

57. Involve relevant government sectors in designing and implementing policies, plans and programmes to prevent blindness and visual impairment.

58. Develop an eye-health workforce including paramedical professionals and community health workers through training programmes that include a community eye-health component.

Action for the Secretariat

59. Review the experience of public health strategies for the control of uncorrected refractive errors including presbyopia, glaucoma, age-related macular degeneration, corneal opacity, hereditary eye disease, and selected eye conditions in children including sequelae of vitamin A deficiency [2009–2011].

60. Facilitate establishment and activities of eye health and national blindness-prevention committees, advise Member States on their composition, role and function, and provide direct technical support for developing, implementing and evaluating national plans.

61. Develop a coordinated and standardized approach to the collection, analysis and dissemination of information on the implementation of national eye health-related policies, best practices in the public health aspects of blindness prevention, including information on the available health insurance systems, and their impact on the various aspects of eye-care provision [2009–2011].

62. Promote collaboration with other major programmes and partnerships (e.g. the WHO Global Health Workforce Alliance) to promote the development of human resources for eye-care provision at primary, secondary and tertiary levels [2009–2010].

63. Review educational curricula and best practices for education and training of eye health-care professionals [2010–2011].

64. Strengthen the capacity of regional and country offices to provide technical support for eye health/prevention of blindness.

Proposed action for international partners

65. Promote WHO-recommended strategies and guidelines for prevention of blindness and visual impairment, and, with the assistance of Member States, contribute to the collection of national information on their implementation.

66. Generate resources for, and support the implementation of, national blindness-prevention plans in order to avoid duplication of effort.

67. Provide continued support to programmes controlling nutritional and communicable causes of blindness.

3

Increase and expand research for the prevention of blindness and visual impairment

68. Public-health action to prevent blindness and visual impairment needs to be evidence-based and cost-effective. International collaboration in promoting multidimensional and multisectoral research is essential for developing eye-care systems that are comprehensive, integrated, equitable, high-quality and sustainable. Further research is needed on ways to capitalize on available evidence. Special emphasis should be placed on evaluating interventions and different strategies for early detection and screening of the causes of blindness and visual impairment in different population groups, including children.

Proposed action for Member States

69. Promote research by national research institutions on socioeconomic determinants, the role of gender, the cost-effectiveness of interventions, and identification of high-risk population groups.

70. Assess the economic cost of blindness and visual impairment and its impact on socioeconomic development.

71. Determine the impact of poverty and other determinants on the gradient of socioeconomic disparity in individuals' access to eye-care services.

72. Include epidemiological, behavioural, health-system and health-workforce research as part of national programmes for eye health and prevention of blindness and visual impairment.

Action for the Secretariat

73. Collate, in collaboration with other partners, existing data on risk factors, such as smoking, unhealthy diet, physical inactivity, ultraviolet radiation and lack of hygiene, and coordinate the development of a prioritized research agenda related to the causes and prevention of blindness with special emphasis on low- and middle-income countries [2009–2011].

74. Support Member States in assessing the impact of public health policies and strategies on the status of eye health and share the results.

75. Facilitate development of projection models on trends in the causes and magnitude of blindness and visual impairment and prioritize development of, and target setting for, eye-care systems [2010–2011].

Proposed action for international partners

76. Support low- and middle-income countries in building capacity for epidemiological and health systems research, including the analytical and operational research required for programme implementation and evaluation in the area of eye disease.

77. Support collaboration between institutions in low- and middle-income countries and high-income countries.

78. Support and prioritize in coordination with Member States research on eye diseases at the global, regional and subregional levels.

79. Strengthen and support WHO Collaborating Centres and national research institutions in research related to prevention of blindness and visual impairment.

4

Improve coordination between partnerships and stakeholders at national and international levels for the prevention of blindness and visual impairment

80. Large international partnerships and alliances have been instrumental in developing effective public health responses for the prevention of blindness and visual impairment. Member States, United Nations agencies, other international institutions, academia, research centres, professional health-care organizations, nongovernmental organizations, service organizations, civil society and the corporate sector are key stakeholders in this process. The challenges are to strengthen global and regional partnerships and to incorporate the prevention of blindness into broader development initiatives that include efforts to establish new intersectoral forms of collaboration and alliances.

Proposed action for Member States

81. Promote participation in, and actively support, existing national and international partnerships and alliances for the prevention of avoidable blindness and visual impairment, including coordination with noncommunicable disease control programmes and neglected tropical disease prevention and control.

82. Promote partnerships between the public, private and voluntary sectors at national and subnational levels.

Action for the Secretariat

83. Convene the WHO Monitoring Committee for the Elimination of Avoidable Blindness pursuant to resolution WHA56.26 [2009].

84. Support and strengthen the role of WHO Collaborating Centres by linking their workplans to the implementation of this plan [2009–2010].

Proposed action for international partners

85. Collaborate closely with and provide support to Member States and the Secretariat in implementing the various components of this plan.

86. Liaise with other international organizations and agencies with broader development agendas in order to identify opportunities for collaboration.

87. Continue to support the existing partnerships for onchocerciasis and trachoma control until these diseases are eliminated as public health problems.

5

Monitor progress in elimination of avoidable blindness at national, regional and global levels

88. Information on causes, the magnitude and geographical distribution of blindness and visual impairment, together with their trends, is essential for evidence-based advocacy and planning. Likewise, understanding the constraints and gaps in current service delivery and monitoring how these are corrected by Member States are crucial to successful implementation. Necessary and timely adjustments can only be made on the basis of continuous monitoring and periodic evaluation of action to prevent blindness.

Proposed action for Member States

89. Provide regularly updated data and information on prevalence and causes of blindness and visual impairment, disaggregated by age, gender and socioeconomic status.

90. Strengthen standardized data collection and establish surveillance systems using existing WHO tools (for example, those used for cataract, trachoma and onchocerciasis).

91. Provide regular reports using the WHO standardized reporting system, on progress made in implementing national blindness-prevention strategies and plans.

Action for the Secretariat

92. In collaboration with the main stakeholders, review and update the list of indicators for monitoring and periodic evaluation of action to prevent blindness and visual impairment, and determine targets and timelines [2009–2011].

93. Review data inputs in order to determine the impact of action to prevent avoidable blindness and visual impairment at country level, with the aim of showing a reduction in the magnitude of avoidable blindness, pursuant to resolution WHA56.26 [2009–2011].

94. Document, from countries with successful blindness prevention programmes, good practices and blindness prevention systems or models that could be modified or applied in other countries, pursuant to resolution WHA56.26 [2009–2010].

95. Initiate periodic independent evaluation of work on preventing blindness and visual impairment, including that of international partnerships, to be reviewed by the WHO Monitoring Committee for the Elimination of Avoidable Blindness [2009–2010].

96. Contribute to the Global Burden of Disease 2005 study¹ [2009–2010].

Proposed action for international partners

97. Provide collaborative support to Member States and the Secretariat in monitoring and evaluating progress in prevention and control of blindness and visual impairment at regional and global levels.

98. Collaborate with WHO in establishing a network for review of regional and global monitoring and evaluation of progress in the prevention of blindness and visual impairment.

¹ <http://www.globalburden.org>.

INDICATORS

99. In order to assess trends in the causes of blindness and visual impairment, to measure the progress made by Member States in preventing blindness and visual impairment, and to monitor implementation of this action plan, a set of core process and outcome indicators needs to be identified and defined. The indicators will mostly focus on action taken by the Secretariat and by Member States. Each country may develop its own set of indicators based

on priorities and resources; however, in order to track progress globally and regionally, data and information collection needs to be standardized. The current set of indicators used by WHO in monitoring and reporting on the global status of the prevention of blindness and visual impairment¹ should be reviewed and updated. Baseline values are available in WHO for many of the indicators; for those for which there are no baseline values, mechanisms will be established for collecting relevant data.



¹ Document WHO/PBL/03.92.

Resolution of the Sixty-second World Health Assembly:



WHA62.1

Prevention of avoidable blindness and visual impairment

The Sixty-second World Health Assembly,

Having considered the report and draft action plan on the prevention of avoidable blindness and visual impairment;¹

Recalling resolutions WHA56.26 on elimination of avoidable blindness and WHA59.25 on prevention of avoidable blindness and visual impairment;

Recognizing that the action plan for the prevention of avoidable blindness and visual impairment complements the action plan for the global strategy for the prevention and control of noncommunicable diseases endorsed by the Health Assembly in resolution WHA61.14,

1. ENDORSES the action plan for the prevention of avoidable blindness and visual impairment;
2. URGES Member States to implement the action plan for the prevention of avoidable blindness and visual impairment, in accordance with national priorities for health policies, plans and programmes;
3. REQUESTS the Director-General:
 - (1) to provide support to Member States in implementing the proposed actions in the plan for the prevention of avoidable blindness and visual impairment in accordance with national priorities;
 - (2) to continue to give priority to the prevention of avoidable blindness and visual impairment, within the framework of the Medium-term strategic plan 2008–2013 and the programme budgets in order to strengthen capacity of the Member States and increase technical capacity of the Secretariat;
 - (3) to report to the Sixty-fifth and Sixty-seventh World Health Assemblies, through the Executive Board, on progress in implementing the action plan for the prevention of avoidable blindness and visual impairment.

(Sixth plenary meeting, 21 May 2009 –
Committee A, first report)

¹ Document A62/7.

Resolution of the Fifty-ninth World Health Assembly:



WHA59.25 Prevention of avoidable blindness and visual impairment

The Fifty-ninth World Health Assembly,

Having considered the report on prevention of avoidable blindness and visual impairment;¹

Recognizing that more than 161 million people worldwide are visually impaired, of whom 37 million are blind, and that an estimated 75% of blindness is avoidable or curable using established and affordable technologies;

Recalling resolution WHA56.26 on the elimination of avoidable blindness;

Noting that many Member States have committed themselves to providing support for the Global Initiative for the Elimination of Avoidable Blindness, known as Vision 2020 – the Right to Sight;

Noting with concern that only 32% of targeted countries had drafted a national Vision 2020 plan by August 2005;

Acknowledging the links between poverty and blindness, and that blindness places a heavy economic burden on families, communities and countries, particularly developing countries;

Further acknowledging that control of both onchocerciasis and trachoma has come about through the commitment of broad international alliances;

Welcoming the important actions undertaken at regional, subregional and international levels by Member States with a view to achieving substantial progress in the elimination of avoidable blindness through greater international cooperation and solidarity,

1. URGES Member States:

- (1) to reinforce efforts to set up national Vision 2020 plans as called for in resolution WHA56.26;
- (2) to provide support for Vision 2020 plans by mobilizing domestic funding;
- (3) to include prevention of avoidable blindness and visual impairment in national development plans and goals;
- (4) to advance the integration of prevention of avoidable blindness and visual impairment in primary health care and in existing health plans and programmes at regional and national levels;

¹ Document A59/12.

(5) to encourage partnerships between the public sector, nongovernmental organizations, the private sector, civil society and communities in programmes and activities for prevention of blindness at all levels;

(6) to develop and strengthen eye-care services and integrate them in the existing health-care system at all levels, including the training and re-training of health workers in visual health;

(7) to promote and provide improved access to health services both with regard to prevention as well as treatment for ocular conditions;

(8) to encourage integration, cooperation and solidarity between countries in the areas of prevention and care for blindness and visual impairment;

(9) to make available within health systems essential medicines and medical supplies needed for eye care;

2. REQUESTS the Director-General:

(1) to give priority to prevention of avoidable blindness and visual impairment, and to provide necessary technical support to Member States;

(2) to provide support to collaboration among countries for prevention of avoidable blindness and visual impairment in particular in the area of training of all categories of relevant staff;

(3) to monitor progress in the Global Initiative for the Elimination of Avoidable Blindness in collaboration with international partners, and to report to the Executive Board every three years;

(4) to ensure that prevention of blindness and visual impairment are included in the implementation and monitoring of WHO's Eleventh General Programme of Work, and to strengthen global, regional and national activities for prevention of blindness;

(5) to add prevention of blindness and visual impairment to WHO's medium-term strategic plan 2008-2013 and proposed programme budget 2008-2009 which are currently in preparation;

(6) to strengthen cooperation through regional, subregional and international efforts with the view to achieving the goals set out in this resolution.

(Ninth plenary meeting, 27 May 2006 –
Committee A, sixth report)

Resolution of the Fifty-sixth World Health Assembly:



WHA56.26 Elimination of avoidable blindness

The Fifty-sixth World Health Assembly,

Having considered the report on elimination of avoidable blindness;¹

Recalling resolutions WHA22.29, WHA25.55 and WHA28.54 on prevention of blindness, WHA45.10 on disability prevention and rehabilitation, and WHA51.11 on the global elimination of blinding trachoma;

Recognizing that 45 million people in the world today are blind and that a further 135 million people are visually impaired;

Acknowledging that 90% of the world's blind and visually impaired people live in the poorest countries;

Noting the significant economic impact of this situation on both communities and countries;

Aware that most of the causes of blindness are avoidable and that the treatments available are among the most successful and cost-effective of all health interventions;

Recalling that, in order to tackle avoidable blindness and avoid further increase in numbers of blind and visually impaired people, the Global Initiative for the Elimination of Avoidable Blindness, known as Vision 2020 – the Right to Sight, was launched in 1999 to eliminate avoidable blindness;

Appreciating the efforts made by Member States in recent years to prevent avoidable blindness, but mindful of the need for further action,

1. URGES Member States:

(1) to commit themselves to supporting the Global Initiative for the Elimination of Avoidable Blindness by setting up, not later than 2005, a national Vision 2020 plan, in partnership with WHO and in collaboration with nongovernmental organizations and the private sector;

(2) to establish a national coordinating committee for Vision 2020, or a national blindness prevention committee, which may include representative(s) from consumer or patient groups, to help develop and implement the plan;

(3) to commence implementation of such plans by 2007 at the latest;

(4) to include in such plans effective information systems with standardized indicators and periodic monitoring and evaluation, with the aim of showing a reduction in the magnitude of avoidable blindness by 2010;

¹ Document A56/26.

(5) to support the mobilization of resources for eliminating avoidable blindness;

2. REQUESTS the Director-General:

(1) to maintain and strengthen WHO's collaboration with Member States and the partners of the Global Initiative for the Elimination of Avoidable Blindness;

(2) to ensure coordination of the implementation of the Global Initiative, in particular by setting up a monitoring committee grouping all those involved, including representatives of Member States;

(3) to provide support for strengthening national capability, especially through development of human resources, to coordinate, assess and prevent avoidable blindness;

(4) to document, from countries with successful blindness prevention programmes, good practices and blindness prevention systems or models that could be applied or modified in other developing countries;

(5) to report to the Fifty-ninth World Health Assembly on the progress of the Global Initiative.

(Tenth plenary meeting, 28 May 2003 –
Committee B, fifth report)

Resolution of the Fifty-first World Health Assembly:



WHA51.11 Global elimination of blinding trachoma

The Fifty-first World Health Assembly,

Recalling resolutions WHA22.29, WHA25.55 and WHA28.54 on the prevention of blindness, and WHA45.10 on disability prevention and rehabilitation;

Aware of previous efforts and progress made in the global fight against infectious eye diseases, in particular trachoma;

Noting that blinding trachoma still constitutes a serious public health problem amongst the poorest populations in 46 endemic countries;

Concerned that there are at present some 146 million active cases of the disease, mainly among children and women and that, in addition, almost six million people are blind or visually disabled as a result of trachoma;

Recognizing the need for sustainable community-based action - including surgery for intumed eyelids, antibiotics use, facial cleanliness and environmental improvement (the SAFE strategy) - for the elimination of blinding trachoma in the remaining endemic countries;

Encouraged by recent progress towards simplified assessment and enhanced management of the disease, including large-scale preventive measures, particularly for vulnerable groups;

Noting with satisfaction the recent establishment of the WHO alliance for the global elimination of trachoma, comprising certain collaborating nongovernmental organizations and foundations and other interested parties,

1. CALLS ON Member States:

- (1) to apply the new methods for the rapid assessment and mapping of blinding trachoma in the remaining endemic areas;
- (2) to implement, as required, the strategy - including surgery for intumed eyelids, antibiotics use, facial cleanliness and environmental improvement (the SAFE strategy) - for the elimination of blinding trachoma;
- (3) to collaborate in the WHO alliance for the global elimination of trachoma and its network of interested parties for the global coordination of action and specific support;
- (4) to consider all possible intersectoral approaches for community development in endemic areas, particularly for greater access to clean water and basic sanitation for the populations concerned;

2. REQUESTS the Director-General:

- (1) to intensify the cooperation needed for the elimination of blinding trachoma with Member States in which the disease is endemic;
- (2) further to refine the components of the SAFE strategy for trachoma elimination, particularly through operational research, and by considering potential antibiotic or other treatment schemes for safe large-scale application;
- (3) to strengthen interagency collaboration, particularly with UNICEF and the World Bank, for the mobilization of the necessary global support;
- (4) to facilitate the mobilization of extrabudgetary funds;
- (5) to report on progress, as appropriate, to the Executive Board and the Health Assembly.

(Tenth plenary meeting, 16 May 1998 –
Committee A, fourth report)

Annex 1

ACTION PLAN FOR THE PREVENTION OF AVOIDABLE BLINDNESS AND VISUAL IMPAIRMENT: OVERVIEW OF ACTIONS

	Member States	International Partners	WHO Secretariat
OBJECTIVE 1. Strengthen advocacy to increase Member States' political, financial and technical commitment in order to eliminate avoidable blindness and visual impairment	1. Establish and support national coordinating mechanisms, such as national coordinators posts for eye health and prevention of blindness at health ministries and other key institutions, as appropriate.	1. Support WHO in involving all stakeholders in advocacy in order to raise awareness of the magnitude of blindness and visual impairment, the availability of cost-effective interventions, and international experience in applying them.	1. Conduct political analyses to determine the best way of securing support of high-level decision-makers and their commitment to promoting eye health, and explore the potential impact and ways of integrating blindness prevention in socioeconomic policies and programmes [2009–2011].
	2. Consider budgetary appropriations for eye health and prevention of blindness.	2. Support Member States in establishing forums where key stakeholders – including nongovernmental organizations, professional associations, academia, research institutions and the private sector – can agree on concerted action against avoidable blindness and visual impairment.	2. Make policy-makers aware of the relationship between eye diseases, gender, poverty and development, using evidence-based information and epidemiological data and take forward the work on social determinants of health as it relates to eye-health problems [2009–2010].
	3. Promote and integrate eye health at all levels of health-care delivery.		3. Harmonize the advocacy messages used by international partners in various health and development forums [2009–2010].
	4. Observe World Sight Day.		4. Promote collaboration by programmes and groups across the Organization in work on tackling major risk factors for visual impairment.
	5. Integrate eye-health preservation in health promotion agendas.		
OBJECTIVE 2. Develop and strengthen national policies, plans and programmes for eye health and prevention of blindness and visual impairment	1. Where sufficient capacity exists, develop national strategies and corresponding guidelines for the prevention of blindness and visual impairment; otherwise consider adapting those recommended by WHO.	1. Promote WHO-recommended strategies and guidelines for prevention of blindness and visual impairment, and, with the assistance of Member States, contribute to the collection of national information on their implementation.	1. Review the experience of public health strategies for the control of uncorrected refractive errors including presbyopia, glaucoma, age-related macular degeneration, corneal opacity, hereditary eye disease, and selected eye conditions in children including sequelae of vitamin A deficiency [2009–2011].
	2. Review existing policies addressing visual health, identify gaps and develop new policies in favour of a comprehensive eye-care system.	2. Generate resources for, and support the implementation of, national blindness-prevention plans in order to avoid duplication of effort.	2. Facilitate establishment and activities of eye health and national blindness-prevention committees, advise Member States on their composition, role and function, and provide direct technical support for developing, implementing and evaluating national plans.
	3. Incorporate prevention of blindness and visual impairment in poverty-reduction strategies and relevant socioeconomic policies.	3. Provide continued support to programmes controlling nutritional and communicable causes of blindness.	3. Develop a coordinated and standardized approach to the collection, analysis and dissemination of information on the implementation of national eye health-related policies, best practices in the public health aspects of blindness prevention, including information on the available health insurance systems, and their impact on the various aspects of eye-care provision [2009–2011].
	4. Involve relevant government sectors in designing and implementing policies, plans and programmes to prevent blindness and visual impairment.		4. Promote collaboration with other major programmes and partnerships (e.g. the WHO Global Health Workforce Alliance) to promote the development of human resources for eye-care provision at primary, secondary and tertiary levels [2009–2010].
	5. Develop an eye-health workforce including paramedical professionals and community health workers through training programmes that include a community eye-health component.		5. Review educational curricula and best practices for education and training of eye health-care professionals [2010–2011].
			6. Strengthen the capacity of regional and country offices to provide technical support for eye health/prevention of blindness.

OBJECTIVE 3. Increase and expand research for the prevention of blindness and visual impairment	<p>1. Promote research by national research institutions on socioeconomic determinants, the role of gender, the cost-effectiveness of interventions, and identification of high-risk population groups.</p>	<p>1. Support low- and middle-income countries in building capacity for epidemiological and health systems research, including the analytical and operational research required for programme implementation and evaluation in the area of eye disease.</p>	<p>1. Collate, in collaboration with other partners, existing data on risk factors, such as smoking, unhealthy diet, physical inactivity, ultraviolet radiation and lack of hygiene, and coordinate the development of a prioritized research agenda related to the causes and prevention of blindness with special emphasis on low- and middle-income countries [2009–2011].</p>
	<p>2. Assess the economic cost of blindness and visual impairment and its impact on socioeconomic development.</p>	<p>2. Support collaboration between institutions in low- and middle-income countries and high-income countries.</p>	<p>2. Support Member States in assessing the impact of public health policies and strategies on the status of eye health and share the results.</p>
	<p>3. Determine the impact of poverty and other determinants on the gradient of socioeconomic disparity in individuals' access to eye-care services.</p>	<p>3. Support and prioritize in coordination with Member States research on eye diseases at the global, regional and subregional levels.</p>	<p>3. Facilitate development of projection models on trends in the causes and magnitude of blindness and visual impairment and prioritize development of, and target setting for, eye-care systems [2010–2011].</p>
	<p>4. Include epidemiological, behavioural, health-system and health-workforce research as part of national programmes for eye health and prevention of blindness and visual impairment.</p>	<p>4. Strengthen and support WHO Collaborating Centres and national research institutions in research related to prevention of blindness and visual impairment.</p>	
OBJECTIVE 4. Improve coordination between partnerships and stakeholders at national and international levels for the prevention of blindness and visual impairment	<p>1. Promote participation in, and actively support, existing national and international partnerships and alliances for the prevention of avoidable blindness and visual impairment, including coordination with noncommunicable disease control programmes and neglected tropical disease prevention and control.</p>	<p>1. Collaborate closely with and provide support to Member States and the Secretariat in implementing the various components of this plan.</p>	<p>1. Convene the WHO Monitoring Committee for the Elimination of Avoidable Blindness pursuant to resolution WHA56.26 [2009].</p>
	<p>2. Promote partnerships between the public, private and voluntary sectors at national and subnational levels.</p>	<p>2. Liaise with other international organizations and agencies with broader development agendas in order to identify opportunities for collaboration.</p>	<p>2. Support and strengthen the role of WHO Collaborating Centres by linking their workplans to the implementation of this plan [2009–2010].</p>
		<p>3. Continue to support the existing partnerships for onchocerciasis and trachoma control until these diseases are eliminated as public health problems.</p>	
OBJECTIVE 5. Monitor progress in elimination of avoidable blindness at national, regional and global levels	<p>1. Provide regularly updated data and information on prevalence and causes of blindness and visual impairment, disaggregated by age, gender and socioeconomic status.</p>	<p>1. Provide collaborative support to Member States and the Secretariat in monitoring and evaluating progress in prevention and control of blindness and visual impairment at regional and global levels.</p>	<p>1. In collaboration with the main stakeholders, review and update the list of indicators for monitoring and periodic evaluation of action to prevent blindness and visual impairment, and determine targets and timelines [2009–2011].</p>
	<p>2. Strengthen standardized data collection and establish surveillance systems using existing WHO tools (for example, those used for cataract, trachoma and onchocerciasis).</p>	<p>2. Collaborate with WHO in establishing a network for review of regional and global monitoring and evaluation of progress in the prevention of blindness and visual impairment.</p>	<p>2. Review data inputs in order to determine the impact of action to prevent avoidable blindness and visual impairment at country level, with the aim of showing a reduction in the magnitude of avoidable blindness, pursuant to resolution WHA56.26 [2009–2011].</p>
	<p>3. Provide regular reports using the WHO standardized reporting system, on progress made in implementing national blindness-prevention strategies and plans.</p>		<p>3. Document, from countries with successful blindness prevention programmes, good practices and blindness prevention systems or models that could be modified or applied in other countries, pursuant to resolution WHA56.26 [2009–2010].</p>
			<p>4. Initiate periodic independent evaluation of work on preventing blindness and visual impairment, including that of international partnerships, to be reviewed by the WHO Monitoring Committee for the Elimination of Avoidable Blindness [2009–2010].</p>
			<p>5. Contribute to the Global Burden of Disease 2005 study[1] [2009–2010].</p>

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