

The purpose of IAPB Briefing Papers is to inform member organisations and others about important and emerging issues affecting VISION 2020: The Right to Sight.



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Eye care programmes to reduce avoidable blindness have proved to be highly successful and cost effective

Introduction

Blindness has a negative effect on productivity and represents a significant public cost to governments, both directly in terms of medical and related expenses and indirectly through lost productivity and missed income earning opportunities.

- The annual global economic impact of blindness and low vision due to lost economic productivity was estimated at US\$ 42 billion in 2000 alone. This equates to about 14% of the Gross National Income of Sub Saharan Africa for that year.
- In the UK alone, lost economic productivity due to partial sight and blindness was estimated at £ 1.7 billion in 2008. The direct health care system costs were estimated at £2.14 billion. The overall total, including other indirect costs and burden of disease costs (years of life lost due to morbidity and premature death) for the UK in 2008 is a massive £ 22 billion. This represents about 0.7 % of GNI.
- In India, it is estimated (1997) that the annual loss of GNP due to blindness is US\$4.4bn, 1.4% of GNP.

At household level, income levels fall when a wage-earner becomes visually impaired and may have to stop working or when it is necessary for a sighted family-member, who would otherwise be contributing to family income, to remain at home in a caring role. Where the carer is a child who forgoes school, the negative consequences are long-term and can be intergenerational.



Investment in programmes to combat avoidable blindness invariably achieve very high rates of return.

- A programme in the Gambia during 1986-96 secured a 40% reduction in the overall prevalence of blindness, and, in terms of increased productivity, achieved a 10% economic rate of return.
- An ongoing programme to address onchocerciasis (river blindness) is estimated to have resulted in an economic rate of return of 20%, in terms of production .
- A World Bank supported project in India to address cataract related blindness is estimated to have generated an annual economic gain of US\$ 1.1bn at an investment cost of \$0.15bn, a remarkably high rate of return .
- Cost-effective interventions are available for the major causes of avoidable blindness:
- The cost of treating river-blindness is less than \$1 per person per year.
- WHO recognises that cataract surgery is one of the most cost-effective treatments that can be offered in developing countries. It can allow people to increase their economic productivity by up to 1,500% of the cost of the surgery during the first post-operative year.

Fortunately, eye care programmes to reduce avoidable blindness can be very successful:

- In Pakistan, the national prevalence of blindness was halved over a 15 year period (1989-2004) due commitment by government and non-government actors to improving the provision of eye services. Increased resource allocations for eye care 2005-2010 demonstrate the government's recognition of the benefits.
- The Gambia National Eye Care Programme reduced the national prevalence of blindness by 40% (from 0.7% to 0.42%) over a 10 year period, despite a 51% population increase. It is estimated that an economic rate of return of 19% was achieved.
- Research in three developing countries indicate improved productivity and purchasing power of people following sight-restoring cataract surgery.

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