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Malaria is a root cause of low productivity in tropical areas, especially now in Africa.

It is a debilitating disease, that affects almost everyone in tropical Africa



Convention about "south" and "north"

• "south"

 Less developed countries, Third world, Underdeveloped countries. Developing countries. I prefer to use the word "south" as a generic for these groups of countries

"north"

 Industrialized countries, rich countries, G8, etc. I prefer to us the work "north" as a generic for these groups.

CAVEAT

Does not work perfectly .. e.g. Australia



No longer a problem in the "north"

- Why no longer a problem in the "north"
 - Take Florida, USA a tropical climate. Aggressive control of mosquitoes using aerial spraying, ground fogging, etc. Started decades ago, and continuing today.
 - California, USA same story. Mosquitoes used to be a problem. Mosquito control reduces malaria vector – reduces malaria
 - Darwin, Australia tropical climate and malaria now reduced through aggressive use of aerial spraying and ground fogging



Why still a problem in the "south"

- Many reasons none acceptable
 - Not enough money to run a mosquito control program
 - Better to use bed nets to protect from mosquitoes
 - Not a priority for development assistance
 - Not really a problem, it has always been like this
 - Vaccines are coming
 - Treatment solves the problem
 - Too expensive. Who cares about the "south" anyway?



How big is the problem in the "south"

Take Africa

- About 900 million people in Africa, probably 500 million in malaria affected areas.
- Almost everyone in Africa has had malaria, or has it now.
 Having malaria fever is a debilitating experience.
- In the case of children, without medical treatment it can be fatal.
 The number of African children dying of malaria every day is probably more than 3,000
- Adults suffering from malaria experience loss of energy, which translates into loss of economic performance.



How big is the problem in the "south"

- What is the economic cost of all this?
 - Malaria is the reason why a good proportion of 500 million people in Africa are lethargic. If people cannot produce, the lost economic value is huge. What is the number?
 - 200 million people * \$100 of lost product = \$20 billion
 - You choose your number ... the lost value is big
 - Imagine if malaria was endemic on the same scale in the USA
 - 300 million people, say 60 million in the workforce, which at an average of \$25,000 a year comes to \$1.5 trillion. A 10% loss of performance costs \$150 billion ... huge huge



How to address the problem?

- What are the options?
 - Hide from malaria the bednet approach
 - A stop gap measure that has costs for ever
 - Kill mosquitoes on a household scale
 - Very expensive and not really effective
 - Let people get malaria and treat it
 - An option dangerous, resistant strains emerging
 - Eliminate the malaria vector the mosquito
 - The preferred solution in the USA, Australia and other malaria affected areas



Sustainable solutions

- Eliminate the malaria vector the mosquito
 - This requires a commitment by leadership
 - It requires an organization with the capacity to do the work planes, trucks, spraying equipment, competent staff
 - It requires funding
 - It requires a medical and scientific component to ensure safety and efficacy



Justification for a sustainable solution

Justification 1

- In Monrovia, if 50% of the population are affected by malaria, it is more than 1.5 million people. If the annual value of not contracting malaria is just \$50 per capita then the value to the community is \$75 million a year.
- If a comprehensive program to eliminate mosquitoes is going to cost \$10 million a year, the community has an economic value multiplier of 7.5 and an absolute gain of \$65 million.
- If the malaria risk is reduced other development options like foreign corporate investment become more attractive.



Justification for a sustainable solution

- Justification 2
 - How much value for just one life saved. In the "north" a human life is valued in millions of dollars. Medical malpractice and life is reimbursed with \$10 million settlements.
 - How many lives might be saved in Monrovia?
 - If it is 1,000, and each life is valued at \$10,000 then the program value is \$10 million
 - If it is 10,000, then the program value is \$100 million. The values are huge.
 - NOT solving the problem ought not to be an option



Justification for a sustainable solution

- Justification 3
 - Why a sustainable solution like vector removal?
 - Bednets only address part of the problem
 - Coils, sprays, only address a part of the problem and are expensive
 - Medication is expensive and not available to all
 - Medication getting more problematic with resistant strains
 - Mosquito removal can eventually end the problem.



Risks should be taken into consideration

Risks

- What about build up of mosquito resistance?
 - Yes a possible problem. Program needs management. Can be handled.
- What about resistant strains of malaria?
 - Another potential problem. Needs monitoring. Can be handled.
- What about pesticide in the environment?
 - A possible risk, but low compared to certainty of death and incapacity caused by endemic malaria.
 - DDT and other pesticides should be used with care and environmental monitoring handled responsibly.



Why malaria was not eliminated years ago?

History

- A global effort to eliminate malaria was mounted in the 1950s and 1960s ... but more difficult to implement than expected.
- Government implementation capacity was a constraint and the knowledge of the malaria disease and the mosquito was more limited than it is today.
- The cost was more than donors anticipated, and agencies like WHO and UNICEF chose to focus on other aspects of public health before significant progress was made in Africa.



Why malaria was not eliminated years ago?

End-note

- It is time to try again. The economics are clear. Malaria has a huge cost for Africa
- Leadership has recognized the importance of malaria and it is included in programs like the Global Fund (GFATM)
- Local programs to implement need to be planned and need to be funded.
- Good programs with management information to provide transparency and accountability.



Questions?

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