The Economic Value of Vaccination



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Vaccination is the miracle of modern medicine, it saved more lives worldwide than any other medical product or procedure over the last century as it contributed in the decrease of numerous infectious diseases and associated mortality, and has led to remarkable health gains.

The vaccination is recognized as a substantial preventive measure that improves health and allows individuals to contribute to economic growth by better physical, cognitive

evidence has demonstrated that health has a major role to play as a driver for economic growth.

Improving health outcomes can have a positive impact on economic outcomes and societal well-being. This article highlights the economic value of vaccination in order to strengthen the evidence base behind the potential broader economic impacts of vaccination.

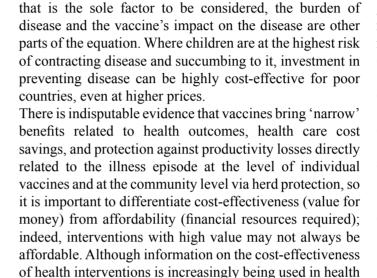
The vaccine industry is experiencing a new, more dynamic period. Since the year 2000, the global vaccine market has almost tripled - reaching over US\$ 17 billion in global revenue by mid-2008, and making the vaccine industry one of the fastest growing sectors of industry.

It has been shown that economic growth is driven by improved health, that's why the Investment in vaccination programs has dramatically increased over the past two decades. The benefits of vaccination are reported in terms of avoided deaths, life-years saved, disability-adjusted life years avoided or quality adjusted life years gained. and educational performance. Theoretical and empirical These health effects are translated into positive economic

> outcomes, although provided significant savings by avoiding the health costs associated with treating diseases.

In 2013, it was estimated that 103 million cases of childhood diseases in the United States had been prevented by the use of vaccines since 1924.

But how to spend the limited financial resources dedicated to healthcare more efficiently for the benefit of the population? The value of vaccines is often not fully appreciated because traditional costcalculations effective



underestimate the broader benefits. It is sometimes difficult

to understand how a vaccine costing perhaps US \$5 per

dose for example in low-income countries could make economic sense, when a routine immunization can cost

less than that for six basic vaccines. But it is not the price

In recent years, several innovative public-private partnerships and new financing mechanisms have been introduced to provide predictable and sustainable external

policy globally, the extent to which this information

influences decisions varies by country.

financial support to help countries meet the vaccination related global goals.

However, vaccination represents a valuable investment in health with positive economic return but large coverage gaps remain, which will require significant financial resources and political will to address. So to run a successful national vaccination program, below are needed:

- Strong and effective leadership and national ownership of vaccination program.
- Country-driven policies, planning, monitoring, and reporting.
- Sound decision-making on which vaccines to schedule, based on local, regional, and global data.
- Use of routine surveillance data (immunization coverage, vaccine use and wastage, and incidence of diseases) for program management.
- The capacity for efficient financial planning, including multi-year planning and a budget line for vaccination in the national health budget, as well as knowledge of available international funding mechanisms.
- A well-functioning national regulatory authority.
- A motivated, well trained, and well supervised staff.
- A surveillance system for detecting, investigating, and responding to adverse events following immunization.
- Cold-chain facilities and logistics.
- Political motivation.



Infos

Le Venin de Serpent Corail Bleu Bientôt Utilisé Comme Puissant Antidouleur?

du monde, son venin serait cependant une piste sérieuse ultrapuissant qui ne tue pas et en la purifiant, il serait dans le traitement de la douleur. Selon les chercheurs de l'université du Queensland (Australie), le venin Ce n'est pas la première fois que des chercheurs de ce serpent (aussi surnommé Calliophis Bivirgatus) contiendrait, en effet, de la calliotoxine, une toxine qui cerveau et à l'origine de la transmission de la douleur.

C'est en découvrant que ce venin, différent de celui de des récepteurs impliqués dans la sensation douloureuse. n'importe quel autre animal de cette espèce, ne tuait pas immédiatement mais agissait sur tous les nerfs des proies, que nos experts, emmenés par le Dr Bryan Fry, ont imaginé y puiser un sérum antidouleur.

Purifier la calliotoxine

Selon les résultats de leur étude publiée dans la revue

Le serpent bleu corail est l'un des animaux les plus mortels Toxins, en récupérant la calliotoxine nourrissant ce venin possible de mettre au point un méga antidouleur.

s'intéressent aux propriétés du venin de serpent. L'Inserm (Institut national de la santé et de la recherche médicale) cible les canaux de sodium, ces récepteurs situés dans le s'est, lui, penché sur le Mamba noir, qui vit en Afrique, et a découvert dans son venin deux toxines capables d'inhiber «Ces molécules seraient aussi puissantes que la morphine, mais dénuées de ses effets indésirables», avait-il expliqué. Les experts de l'Inserm ont baptisé ces toxines les «mambalgines» et travaillent actuellement à la synthèse de dérivés, aussi efficaces et non toxiques.