Investing in innovation for Health in low- and middle-income countries

Invertir en la innovación para la sanidad de los países de renta baja y media

Dr. Concepción Campa Huergo.
President-General Director
FINLAY INSTITUTE
Even Cuba is a low- and middle- income country lack of funds never was a barrier for investing in the Innovation for Public Health
Cuba in the Innovation for Health

- State Priority regarding R&D and Service Philosophy vs Profit Philosophy
- Investment in Human Resources Training (technical and philosophically)
- Definition of Priorities at the service of Cuban Public Health and others low- and middle-income countries
- The US Blockade against Cuba as stimulator of creativity and searching of solutions
- Collaboration and Integration with a common goal
- Closed Circle Strategy: High commitment since Research until the Impact in Public Health
- National Health System and the Cuban educated people as Volunteers permits the evaluation of new products
INVESTMENT IN HUMAN RESOURCES

More than 10,500 workers only in Biotech Cuban System
DEFINITION OF PRIORITIES AT THE SERVICE OF CUBAN PUBLIC HEALTH AND LOW- AND MIDDLE- INCOME COUNTRIES

Meningococcal Disease. Morbidity and Coverage
CUBA 1959-2008

Meningitis belt: 21 countries and 400 million people at risk

July 17th, 2006 request

Urgent need to ensure an adequate global supply of Meningococcal Polysaccharide A-C vaccine

Clinical Trial Phase I-II at Mozambique (120 volunteers)

• The vaccine was immunogenic and well tolerated

New Production Facility
“The US will maintain the embargo as a tool to apply pressure on Cuba”.

THE US BLOCKADE AGAINST CUBA
AS STIMULATOR OF CREATIVITY AND SEARCHING OF SOLUTIONS
COLLABORATION AND INTEGRATION WITH A COMMON GOAL

JOINT DEVELOPMENT AND PRODUCTION

Purified Diphtheria Anatoxin (D)

Purified Tetanus Anatoxin (T)

Bordetella pertussis (whole cells) (P)

Hep B Antigen

Hib Antigen

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BIOCEN

CUBAN PENTAVALENT VACCINE
Attenuated Vaccine from \textit{V. cholerae}.

Challenge in Healthy Volunteers Cuba

Finlay Institute - Tropical Medicine Institute -
National Center for Scientific Research

Safety
100\% protection
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Let’s not pretend that things will change if we keep doing the same things. **A crisis can be a real blessing to any person, to any nation. For all crises bring progress.**

**Creativity is born from anguish, just like the day is born form the dark night. It’s in crisis that inventive is born, as well as discoveries, and big strategies. Who overcomes crisis, overcomes himself, without getting overcome. Who blames his failure to a crisis neglects his own talent, and is more respectful to problems than to solutions. Incompetence is the true crisis.**

The greatest inconvenience of people and nations is the laziness with which they attempt to find the solutions to their problems. **There’s no challenge without a crisis. Without challenges, life becomes a routine, a slow agony. There’s no merit without crisis.** It’s in the crisis where we can show the very best in us. Without a crisis, any wind becomes a tender touch. To speak about a crisis is to promote it. **Not to speak about it is to exalt conformism. Let us work hard instead.**

Let us stop, once and for all, the menacing crisis that represents the tragedy of not being willing to overcome it.

SO, LET´S GO TO INNOVATE FOR HEALTH INSTEAD TO BE LOW AND MIDDLE INCOME COUNTRIES!!!!!
Thank you...