

## Non-communicable Diseases: The Forthcoming Challenge for Health Systems Worldwide

Philippe Chastonay<sup>1\*</sup> and Thomas Mattig<sup>2</sup>

<sup>1</sup>Faculty of Medicine, University of Geneva, Geneva, Switzerland

<sup>2</sup>Health Promotion Switzerland, Bern, Switzerland

\*Corresponding author: Chastonay P, Department of Community Health and Medicine, Faculty of Medicine, Institute of Social and Preventive Medicine, University of Geneva, Geneva, Switzerland, Tel: +41223797111; E-mail: philippe.chastonay@unige.ch

Rec date: September 08, 2015; Acc date: January 27, 2016; Pub date: January 29, 2016

Copyright: © 2016 Chastonay P, et al. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

### Short Communication

Population health requires visionary policies, competent professionals, strong health systems, sound management, community commitment and each individual's health awareness. This is especially true for non-communicable diseases (NCDs).

*What are NCDs and why do they represent a major challenge for health systems worldwide?*

As defined by the World Health Organization, NCDs (non-communicable diseases) primarily include cardiovascular disease, cancer, chronic lung disease and diabetes as well as mental illness.

Until recently, NCDs were considered mainly a problem of industrialized countries, while low-income countries were primarily faced with communicable diseases. In fact, NCDs are a global problem: they are currently responsible for two out of three deaths worldwide - i.e. about 38 million deaths annually, 80% of which in low- and middle-income countries and for 25% of premature deaths (deaths occurring before the age of 60). They also represent nearly 60% of the global disease burden in general. And the costs associated with NCDs are astronomical: they were estimated at US\$ 6.3 trillion for the year 2010, and projections for 2030 are in the range of US\$ 13 trillion [1]. In many cases NCDs cause poverty, marginalization and even discrimination and stigmatization.

*Are there ways to fight/control NCDs?*

Our societies and the international community have the expertise and capacity to prevent millions of premature deaths associated with NCDs, and they would require relatively few additional resources to do so.

The global Alliance against NCDs advocates a strategy for a 2% annual reduction of deaths from NCDs within a decade, i.e. about 36 million lives saved. The estimated cost for implementing such a worldwide strategy would be about US\$ 9 billion per year [2].

The strategy comprises five points:

**Leadership:** Leadership must be ensured by political authorities both nationally and internationally. This includes putting the fight against NCDs atop the political agenda, adopting a multisectoral approach which includes all public and private components of society, developing well-defined and precisely targeted interventions that allow thorough evaluation.

**Prevention/Health Promotion:** Priority should be given to containing the principal risk factors responsible for NCDs, the so called "best buy interventions" [3], i.e. the most efficient ones. First on the list is the fight against smoking through implementation of the

WHO Framework Convention on Tobacco Control, whose ultimate goal is a world without tobacco by 2040. Other priorities include reducing daily salt consumption to no more than 5 g per person by 2025, reducing alcohol consumption, and promoting the access to healthy food and daily physical activity from an early age. This can be done at a relatively low cost (estimations range from US\$ 0.5 to US\$ 4 per person per year, depending on the country).

**Treatment:** This involves strengthening basic care in order to provide easy access to quality medical care at a reasonable cost to anyone at risk of NCDs. Furthermore, access to vaccines needs to be ensured for people at risk of developing cancer due to infectious agents, as should access to palliative care for people with debilitating diseases, allowing them an end of life in dignity.

**International Cooperation:** This involves prioritizing the control of NCDs on the global agenda, including the allocation of appropriate resources and establishing synergies with other global health priorities such as the impact of climate change on health.

**Monitoring:** Monitoring progress and evaluating the achievement of fixed objectives implies sound field research and appropriate resource allocation.

This strategy has been supported by the United Nations General Assembly Resolution A/66/L.1 on the Prevention and Control of Non-communicable Diseases and by the Resolution of the 65th World Health Assembly, defining as a new major health objective the decrease of 25% of preventable deaths due to NCDs by 2025 [4,5].

The strengthening of health systems in such a context appears crucial; it should focus not only on better and more readily accessible patient-centered care but also on stronger and more readily available health promotion and prevention programs. Efficient management is called for, as is strong political support and development of the relevant healthcare workforce. This is especially true for low- and middle-income countries which face major challenges in the health sector. They are still facing big challenges in their fight against infectious diseases, yet, due to changing population structures and to increasingly western lifestyle, the NCDs are massively on the rise. This in turn calls for better national strategic health planning and more efficient resource allocations by ministries of health and national authorities at large. Yet, for such actions, strong health governance and visionary leadership is needed, and this might be missing in many situations. Perhaps some help might come from strategies developed at an international level, such as the above mentioned WHO-recommended "best buy practice": priority to be given to interventions that yield maximum efficacy and moderate financial investment. Another potentially useful approach is the One Health Tool, "a software tool designed to strengthen health system analysis and costing and to

develop financing scenarios at the country level” [6], especially designed for assessing health investment needs in low- and middle-income countries on the long run.

## References

1. Bloom DE, Cafiero ET, Jane-Llopis E, Abrahams-Gessel S, Bloom LR, et al. (2011) The Global Economic Burden of Non-communicable Diseases. World Economic Forum, Geneva
2. Beaglehole R, Bonita R, Horton R, Adams C, Alleyne G, et al. (2011) Priority actions for the non- communicable disease crisis. *Lancet* 377: 1438-1447
3. World Health Organization (2014) Global Status Report on noncommunicable diseases 2014. WHO-HQ, Geneva, Switzerland.
4. General Assembly UN (2011) Political declaration of the High-level Meeting of the General Assembly on the Prevention and Control of Non-communicable Diseases. Annex 66: L1
5. World Health Organization (2012) 65th World Health Assembly. Prevention and control of non-communicable diseases. WHO, Geneva.
6. One health tool. International Health Partnership. Accessed on 11 February, 2016.