Health: an essential component of national resilience

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The term "resilience" refers to concepts of adaptation and adjustment following an adversity, disturbance or stress.¹ It is used in various fields, including physics, ecology, health and social sciences, with each field having its own definition of resilience.¹,²

In the last 30 years, there has been a growing interest in the determinants of resilience and in understanding how society and individuals develop resilience. In this context, resilience has been studied at various levels: individuals, families, organizations, societies, and cultures.³ At each of these levels "resilience" is defined differently and comprises dissimilar elements.³ Moreover, the relationship between levels and their mutual influence on resilience has not been studied.⁴ Nonetheless, it is thought that all levels of resilience contribute to wellbeing, the ability to adapt to various situations and to cope with the aftermath of traumatic events.⁴

NATIONAL RESILIENCE

The term "national resilience" originally referred only to a country's military capacity, and was later expanded to include political-psychological aspects.⁵ According to Friedland, "national resilience" is the ability of a society to withstand adversities and crises. In this context, resilience has been studied at various levels: individuals, families, organizations, societies, and cultures.³ At each of these levels "resilience" is defined differently and comprises dissimilar elements.³ Moreover, the relationship between levels and their mutual influence on resilience has not been studied.⁴ Nonetheless, it is thought that all levels of resilience contribute to wellbeing, the ability to adapt to various situations and to cope with the aftermath of traumatic events.⁴

A team of professionals from the Central Bureau of Statistics, the Prime Minister's Office, the National Economic Council and the Ministry for Environmental Protection established a list of 72 quality-of-life metrics in nine areas: income and capital, civil involvement and government; employment and balance of work and leisure; education and skills; energy; transportation and logistics; information, communication and innovation; education; civil and government involvement; (24%); plans for land utilization (12%) and leisure, culture and community (12%). The metrics are published annually by the government statistician in order to help and formulate up-to-date policies.

HEALTH AS A DETERMINANT OF NATIONAL RESILIENCE

A health component is included in all three levels of resilience suggesting that health is an important determinant of resilience at all societal levels. Bonanno et al. defined "personal resilience" as the ability of the individual to function in a stable manner after traumatic events and to maintain healthy functioning over time.¹² Community resilience requires the community's constant and evolving ability to respond to its vulnerability and develop capabilities that help the community (1) prevent, meet and reduce the stress of a health incident; (2) to recover in a manner that will restore the community to a state of independence and at least the same level of health and social functioning after a health incident; (3) using knowledge from past experience to strengthen the community's ability to withstand the next health incident.¹,¹³ Thus, community resilience includes the protection of human life, health, economy and preparedness of infrastructures and the environment for coping. There are those who argue that community resilience is also related to perceived social support, to the strength of social connections, and to the physical and mental health of the public.¹ According to Wulff et al., community resilience stems from good health and strong health systems, improved health status of populations, and the ability to maintain a healthy physical and mental state of individuals.
Table 1: Definitions of national resilience by various organizations and countries

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<th>Organization</th>
<th>Resilience definition</th>
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| The Organization for Economic Co-operation and Development (OECD) | • The ability of households, communities and nations to absorb and recover from shocks, whilst positively adapting and transforming their structures and means for living in the face of long-term stresses, change and uncertainty.9  
• Resilience is about addressing the root causes of crises while strengthening the capacities and resources of a system in order to cope with risks, stresses and shocks.5 |
| UK Department for International Development (DFID)        | The ability of countries, communities and households to manage change by maintaining or transforming living standards in the face of shocks or stresses without compromising their long term prospects.5                                                                 |
| The United States Agency for International Development (USAID) | The ability of people, households, communities, countries, and systems to mitigate, adapt to, and recover from shocks and stresses in a manner that reduces chronic vulnerability and facilitates inclusive growth.10                                                                 |
| National Security Strategy doctrine, USA                 | the ability to withstand and recover rapidly from deliberate attacks, accidents, natural disasters, as well as unconventional stresses, shocks and threats to the economy and democratic system.11                                                                 |
| Australia                                               | A safeguard of sovereignty while safeguarding assets, infrastructure, and institutions.                                                                                                                                 |
| Canada                                                  | The ability of a system, community, or society to adapt to disturbances resulting from risks and perseverance, recovery or change to achieve and maintain an acceptable level of functioning.                                                                 |

and communities and to deal with major physical and mental changes.14 Consequently, health systems can be regarded as the key to promoting community health resilience. In line with this premise, the WHO contends that the main factor that helps to create strength and resilience is a strong health system that provides a comprehensive response to all citizens. Health resilience is established by improved health status, strong health systems, good health outcomes, and is measured in the ability to preserve the physical, mental and social condition of the community and detail it in the course of large-scale changes.15 The WHO has identified six building blocks to strengthen health systems and increase resilience by improving health outcomes and accessibility as well as the health needs of the population, managing the individual's economic and social risks, and improving the efficiency of the system. These building blocks relate to public and private resources and include health services, personnel, information, access to medical equipment, vaccines and the quality and safety of technology, finance and coverage, governance and leadership.15 Strengthening the health system by improving health outcomes, such as health indicators, response to health needs, protection from economic and social risks (insurance coverage) and efficiency of the system should increase the strength and resilience of the community and the nation.

To the best of our knowledge, to date there have been no studies that evaluated health as a component of national resilience. The outcome of the Covid-19 pandemic in countries around the world will provide excellent examples for evaluating the part played by healthcare systems in national resilience.

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