COVID-19 challenge with regard to medical schools social accountability: new professional and human perspectives

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Abstract

Medical schools play a central role in the compilation and development of professional knowledge, which is why they have privileges and resources that are justified only to the extent that they use them to serve the community, particularly those who are most in need. Medical schools social accountability focuses on the training, healthcare provision and research services they offer. The principles of medical education and the structure proposed by the Flexner Report are in crisis due to the COVID-19 pandemic, and redefinition of the social contract is required. This document offers a proposal for medical schools social accountability that includes anticipation of the needs of the community, patient-centered inter-professional care, training of people in the area of health and collaboration between institutions. It highlights the need for a conscious institution that finds new training spaces other than hospitals, where each patient is cared for in a personalized way, with inter-professional training models that consider the student as a person who takes care of him/herself in open collaboration with organizations. Leaders must act now because it is their social responsibility and because it is the right thing to do.

KEY WORDS: Social accountability. Patient-centered care. Self-care. Inter-professional team. Integrated curriculum.

El reto de COVID-19 respecto a la responsabilidad social de las escuelas de medicina: nuevas perspectivas profesionales y humanas

Resumen

Las escuelas de medicina desempeñan un papel central en la acumulación y desarrollo del conocimiento profesional, por lo cual poseen privilegios y recursos que se justifican solo en la medida en que los retribuyan a la comunidad, en particular a los más necesitados. La responsabilidad social de las escuelas de medicina se centra en los servicios formativos, asistenciales y de investigación que ofrecen. Los principios de la educación médica y la estructura propuesta por el Informe Flexner están en crisis debido a la pandemia de COVID-19 y se requiere la redefinición del contrato social. El presente documento ofrece una propuesta de responsabilidad social de las escuelas de medicina que incluye prevención de las necesidades de la comunidad, atención interprofesional centrada en el paciente, formación de profesionales en el área de salud y colaboración entre instituciones. Resalta la necesidad de una institución consciente que encuentre nuevos espacios de entrenamiento diferentes al hospitalario, donde se atienda a cada paciente de forma personalizada, con modelos formativos interprofesionales que consideren al alumno como persona que cuida de sí misma en colaboración abierta con las organizaciones. Los líderes deben actuar ya porque es su responsabilidad social y porque es lo correcto.

Introduction

Since his initial studies, Freidson pointed out that medicine, as a profession, is founded on an autonomy that is guaranteed and recognized by the State, which leads to the creation of a sort of monopoly, as a result of the recognition of the benefits this contributes with. This social contract is granted in exchange for professionalism and an ethical behavior that comprises empathy, compassion, honesty, integrity, altruism, and professional excellence.

In the last decades, professional autonomy has constantly been limited because highly hierarchical bureaucratic organizations that seek to control costs or increase profits are involved. The practice of medicine has been subjected to all kinds of directives, guidelines, protocols and standards adopted from production processes, to the detriment of the relationship with the patient. This situation has led to a distancing from the expectations of individuals, families and communities, which, far from promoting a sense of service, ignores social needs.

Despite the above, medical schools' social contract indicates that these institutions have the responsibility to influence the changes in the health care system, in order for it to evolve into an effective, efficient, accessible, equitable and sustainable model. To achieve this, medical education principles consistent with the statements of the World Health Organization and the General Consensus for Social Accountability of Medical Schools were formulated. The COVID-19 pandemic constitutes a direct challenge to these premises which, although they have evolved through the years, today they are obsolete and insufficient.

Medical education basic principles

The dominant model in medical education is organized around four basic principles, which are insufficient in current COVID-19 pandemic conditions (Table 1).

First principle: concentration of training at the higher levels of the health system

Since the Flexner Report, a curricular structure that establishes science teaching followed by clinical learning has been perpetuated; a first stage of learning about biomedical content and then teaching in hospitals at patient bedside. This contradicts GCSA-established directions: “the medical school acknowledges that a sound health system must be founded on a solid primary health care approach.” Recent studies show that home-based medical care has better clinical outcomes, especially in patients with comorbidities; however, students exceptionally dedicate time to home-based medical care interventions or at schools and work centers.

Challenge 1. COVID-19 emergence has required intra-domiciliary care through telemedicine, community-based paramedicine and virtual care services. Correct management involves remote medical counseling, testing for early detection of symptoms, and even using capillary oxygenation monitoring to prevent patient complications and hospitalization. To the above, prevention, education of communities, isolation of cases and follow-up of contacts must be added as the axis of the health system, where the hospital should only be a support mechanism.

Second principle: segmentation and disaggregation of components

Flexner’s proposal postulates a scientific medicine that guides one-way and linear clinical practice. Future physicians are trained on reductionist guidance,
which breaks people down into parts to locate faults and correct them. This disciplinary tradition creates difficulties for curricular integration. Medical students learn independent contents and practices, which they experience in isolation and uncoordinately in clinical departments, under the concept of privileging immediate causality.

Challenge 2. The linear paradigm is in crisis, since knowledge is generated both in the laboratory and in clinical practice, according to the concept of translational medicine. COVID-19 acts at all levels of organization: molecular, cellular, and on organs and systems, which requires an approach by interdisciplinary and multifunctional teams. The emergency requires the articulation of experts from different levels of care in order to empower community-based action.

Third principle: patient homogeneity

Students are educated in the paradigm that all patients respond the same way to the same diseases and should treated the same way. This approach has been named by Montori “industrialized medicine”, because it acts with parameters that are characteristic of manufacturing production. This orientation implies ignoring the context and avoiding adaptation to the specific case. Berwick has demonstrated the harm that can result from eliminating said variations.

Challenge 3. A person with COVID-19 can be without manifestations or develop complex molecular phenomena such as inflammation, cytokine storm and intravascular coagulation, until culminating in multiple organ failure. Uncertainty and diversity offer greater learning opportunities, such as those based on challenges.

Fourth principle: centralized generation of knowledge

Academic centers capable of research are centralized and articulated with the leading biomedical-industrial complex that directs medical research in the world. Students are only trained to locate, read, and value the quality of a research article. This reality lacks methodological training and opportunities to conduct research or make innovations to improve the quality of care. Currently, research can be carried out at all three levels of care and in a decentralized way in multiple countries and international groups, thanks to advances in computing. Other forms of rapid publication such as preprints, to which the scientific community has immediate and free access, are gaining relevance.

Graduates’ traditional profile

Since the year 2000, several countries and international medical education bodies have strived to establish the competencies of the modern physician. However, this competency design work was carried out under a different assumption than the world that today is collapsing due to the pandemic. The change is so radical that some point to two different eras, before and after COVID-19, B. C. and A. C. by their acronyms. Given this new scenario, it should be questioned whether medical competencies are sufficient for the
so-called new normality. For this analysis, the competencies of the Mexican general practitioner established by the Association of Faculties and Schools of Medicine (AMFEM – Asociación de Facultades y Escuelas de Medicina) are used:

1. Mastery of general medical care.
2. Mastery of scientific bases of medicine.
3. Methodological and instrumental capacity in science and humanities.
4. Ethical and professionalism mastery.
5. Mastery of medical care quality.
7. Capacity to participate in the health system.

This conceptualization is consistent with the competencies established in European countries and by medical associations, and therefore represents the thinking and meaning of medicine of those who were trained in past decades. When reviewing these competencies, it stands out that patient health, safety and expectations are privileged, ignoring the physician in training as a person. When contrasting them with the GCSA principles, it is identified that there is consistency regarding the individual-family-community approach, health promotion, health education, prevention and specific protection from diseases, epidemiological approach and care for human rights, among others.

However, in the face of the COVID-19 pandemic, the need for a new competency that considers the student as a person with needs and expectations becomes evident. This perspective is partially included in the competency called “ethical and professional mastery”, where the “commitment to oneself” section is identified, which focuses on reflection and personal analysis.

This biased vision of exclusive benefit to society has been interpreted as heroism, servility and charity, which has had an impact in the form of infections, suicides, freedom of conscience limitations, and even sarcasm for aspiring to a decent remuneration for the provided services. Students themselves lack a patient-centered vision due to the constant threat to their professional identity. The COVID-19 pandemic has highlighted the need for training in the following aspects: emotional strength, self-protection against risks inherent to the profession and self-care of personal health and own economy.

where the person can be the patient, the student, the teacher or the doctor (Fig. 2).

The institution’s commitment must be extended towards educational programs that guarantee safety, physical integrity, health, freedom, professional development, prestige, dignity, care of emotions, autonomy and relationships. According to Kofman, a conscious endeavor is that with awareness of both the inner and outer world. This implies caring for society without neglecting the academic community. Current educational programs for health professionals are being insufficient to address a multifactorial reality in the new complex paradigm. The only constant fact in recent years is uncertainty, chance, indeterminacy and emergency, which becomes tangible with the COVID-19 pandemic.

Professionals of the present and the future must be trained to face adversities in a creative and innovative way. The health emergency has led to the use previously little-explored innovations such as long-distance clinical care, determination of diagnoses and therapeutic interventions with advanced techniques and virtual education, which is transforming the way to conceptualize medical education.

COVID-19 has demonstrated the inability to make educational programs converge with health systems. There is an imperative need to serve the communities from medical schools through open collaborative models between institutions, including higher education, the health sector, private initiative and government. According to Boelen, Dharamsi, and Gibbs, the socially accountable medical school works in this association in order to impact on people’s health and demonstrates it with relevant, high-quality results. Torre warns on the need for convergence of public and private sectors to meet biological health needs and, in addition, economic needs, which are increasing as the pandemic progresses.

Conclusion

As a new era advances towards patient-centered care, the need for the country’s medical schools to articulate and explain public perceptions and their internal and external obligations becomes evident. Medical schools must stop self-conceptualizing under linear and isolated schemes in order to move to flexible, integrated and active structures, towards a transformation that has a direct impact on everyone’s health.

Institution leaders must involve the academic community and other stakeholders in society in the planning and accelerated execution of policies, programs and interventions that initiate a new A.C. health system and medical education. Leaders must do it now, simply because it is the right thing to do.

Conflict of interests

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