

# IMPACT OF GLOBALIZATION ON PHARMACY EDUCATION

## Abstract

The present chapter focuses on discussion regarding the change observed in education over the last almost ten years. Globalization is a process of interaction and integration among people, this review also summarizes important aspects of globalization and the effect of globalization on pharmacy education, an impact on research, professional practices, instructional strategies, and curriculum elements.

**Keywords:** Globalization, Pharmacy Education in India, E-learning

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## I. INTRODUCTION

Globalization is a process of interaction and integration among people, it is a term used to describe how trade and technology have made the world into a more connected and interdependent place. Globalization also captures in its scope the economic and social changes that have come about as a result.

In the larger health workforce, pharmacists serve as essential healthcare providers. Health institutions around the world are struggling with a scarcity of medical personnel. Pharmacists are members of the allied healthcare team, and their profession is made up of a variety of fundamental social sciences, biology, physiology, anatomy, nutrition, and other biomedical disciplines, as well as health sciences. Pharmacists' roles in the community are to provide humanistic services by protecting, promoting and enhancing population health.

With a minimum of four years for accreditation, schools of pharmacy around the world provide fundamental education for pharmacists that are comprehensive and extensive to equip them with the proper clinical and pharmaceutical knowledge for their future career and crucial role in the Community. Nevertheless, pharmacists' educational outcomes of each school around the world mostly share the same themes.

In general, the term "globalization" describes the process by which nations become more interdependent and interconnected through the interchange of ideas, information, goods, and services. It is a complicated and diverse phenomenon that has profoundly changed politics, economics, society, and technology, among other spheres of the world.

## II. IMPORTANT ASPECTS OF GLOBALIZATION: <sup>[1-4]</sup>

The important aspect includes:

- 1. Economic Integration:** Cross-border trade and investment have increased as a result of globalization. These days, businesses work globally, obtaining materials and selling goods across borders. International trade agreements and institutions, such as the World Trade Organization (WTO), play a significant role in enabling this economic integration.
- 2. Technological Developments:** Globalization has been largely fueled by developments in communication and transportation technologies. The internet, in particular, has made it easier for people and organizations to interact and collaborate across the globe.
- 3. Cultural Exchange:** Music, art, fashion, and food are just a few of the cultural components that have been made easier to exchange because to globalization. As a result, there has been a merging and sharing of cultures, which is known as cultural globalization.
- 4. Political Interconnectedness:** Globalization affects politics and governance on a worldwide scale. Nations must work together and coordinate their efforts to address issues like international security, human rights, and climate change.

5. **Migration:** Another effect of globalization is a rise in cross-border travel. There has been an increase in migration for employment, education, and other reasons, which has contributed to regional cultural variety.
6. **Difficulties and Inequalities:** Although globalization has yielded numerous advantages, it has also sparked worries about inequality inside and between nations. There are others who contend that whereas some groups and areas have profited disproportionately from globalization, others have experienced negative effects including job displacement and environmental deterioration.
7. **Global Supply Chains:** A lot of industries these days depend on international supply chains, in which various production phases are carried out in several nations. While efficiency has grown as a result, economies are now more interconnected and susceptible to shocks.

It's significant to remember that perspectives on globalization differ. Critics draw attention to problems including wealth disparity, the loss of cultural identity, and environmental damage, while supporters contend that it fosters economic progress, creativity, and cross-cultural exchange. The continuous discussion over the benefits and drawbacks of globalization illustrates how intricate and dynamic it is.

### III. IMPACT OF GLOBALIZATION ON EDUCATION: <sup>[5-7]</sup>

India's educational system has been significantly impacted by globalization, which has had an effect on many different areas of the system. Among the noteworthy outcomes are:

1. **Access to Knowledge and knowledge:** Students and instructors today have greater access to knowledge thanks to the development of the internet and other digital technologies. Students in India now have access to a multitude of global knowledge because to the growth of online resources and e-learning platforms.
2. **International Exchange and Collaboration Programs:** Globalization has facilitated international cooperation between Indian academic institutions and their counterparts abroad. As a result, institutions now collaborate on joint research projects, exchange programs, and collaborations that promote cross-cultural learning.
3. **Diversity and Cultural Exchange:** Globalization has made it easier for cultures to interact in the classroom. Thanks to multinational curricula, exchange programs, and contacts with instructors and students from other countries, Indian students are being exposed to a wider range of viewpoints, ideas, and cultures.

The global labor market requires a set of abilities that go beyond traditional academic knowledge, which is why skill development is important in a global economy. In order to prepare students for a world that is becoming more linked and competitive, globalization has led to increased emphasis on the development of soft skills like communication, critical thinking, and adaptation.

- 4. Impact on Pedagogy and Curriculum:** The curriculum and instructional strategies used in Indian educational institutions have been impacted by the globalization of information. Aligning education with international standards and introducing global viewpoints into the curriculum are becoming more and more important.
- 5. Rise of International Schools and Programs:** Globalization has led to the establishment of international schools and programs in India, offering curricula that are recognized worldwide, such as the International Baccalaureate (IB) and Advanced Placement (AP) programs. This provides students with globally recognized qualifications.
- 6. Challenges of Inequality:** While globalization has brought opportunities, it has also exacerbated educational inequalities. Disparities exist in access to quality education between urban and rural areas, as well as among different socio-economic groups. Globalization can widen these gaps unless measures are taken to ensure inclusive and equitable access to education.
- 7. Pressure on Traditional Education Systems:** The globalized job market often requires a different skill set than what traditional education systems may provide education systems may provide. This has led to calls for educational reforms to better align with the needs of the modern workforce.
- 8. Skill Development for a Global Economy:** The global job market demands a set of skills that go beyond traditional academic knowledge. Globalization has prompted a focus on developing skills such as critical thinking, communication, and adaptability to prepare students for a more interconnected and competitive world.

In summary, globalization has both positive and challenging implications for education in India. While it has expanded opportunities, diversified learning experiences, and promoted international collaboration, it has also posed challenges related to inequality and the need for adapting educational systems to meet the demands of a rapidly changing global landscape. Educational policymakers and institutions in India are continuously grappling with these dynamics to ensure that the education system remains relevant and inclusive.

#### **IV. EFFECT OF GLOBALIZATION ON PHARMACY EDUCATION IN INDIA** [1, 8-11]

India's pharmacy education has been significantly impacted by globalization, which has had an impact on research, professional practices, instructional strategies, and curriculum elements. Here are a few of the main outcomes:

- 1. Curriculum Globalization:** In order to comply with worldwide norms, curriculum design has changed in pharmacy education in India. Incorporating developing trends in the area, pharmaceutical sciences developments, and global best practices are receiving more attention.
- 2. Integration of International Requirements:** Meeting international accreditation requirements is a goal shared by many pharmacy programs in India. Collaborations between Indian and foreign educational institutions are facilitated by this integration,

which also helps students become recognized and accepted in the global employment market.

- 3. International Research Collaborations:** Globalization has made it easier for Indian pharmaceutical institutes and their international counterparts to collaborate on research projects. This information and resource sharing improves the caliber and applicability of pharmacy research.
- 4. Technology and Online Learning:** Technological developments have revolutionized pharmacy education in India. Through virtual laboratories, e-learning platforms, and online courses, students can access an extensive worldwide library of instructional tools and information.
- 5. Global Perspectives in Teaching:** Pharmacy educators in India are infusing global perspectives into their teaching approaches. In order to prepare students for the multifaceted character of the pharmaceutical sector, this program offers case studies, guest lectures by foreign experts, and exposure to global pharmaceutical practices.
- 6. Global Internships and Experiential Education:** Students are increasingly looking for global exchange programs and foreign internships to learn about pharmaceutical practices around the globe. Their comprehension of international pharmaceutical systems is improved by this practical experience.
- 7. Stress on Regulatory Standards:** As a result of globalization, pharmaceutical education now places more of a focus on students' comprehension of and adherence to international regulatory standards. This is especially crucial because the pharmaceutical sector is governed by strict laws all around the world.
- 8. Diversity of Student Population:** Students in pharmacy degrees now represent a wider range of cultural backgrounds as a result of globalization. Interaction with colleagues from other nations improves cross-cultural understanding, which is crucial in a field with a global presence.
- 9. Employability in the Worldwide Job Market:** Indian pharmacy graduates are facing more competition on the worldwide job scene. The need for graduates with a broad skill set, a solid grasp of global pharmaceutical practices and laws, and these qualifications has increased due to globalization.
- 10. Difficulties with Professional Ethics:** The requirement for professionals who are knowledgeable about international ethical norms has been highlighted by the globalization of pharmacy education. This involves taking into account issues with patient rights, data security, and adhering to global ethical standards.

While the impact of globalization on pharmacy education in India has brought numerous benefits, it also poses challenges, including the need for continuous adaptation to emerging global trends, addressing cultural differences, and ensuring that the education system prepares graduates to meet international standards and expectations. It is essential for pharmacy education institutions to strike a balance between preserving local relevance and embracing global advancements in the field.

## REFERENCES

- [1] Wei Jin Wong a, Ronald F.S. Lee et. al. “Work readiness of pharmacy graduates: An exploratory study.” *Exploratory Research in Clinical and Social Pharmacy* **2024** 13, 100389.
- [2] Ashwin S, Ashish P “Role of Pharmacy Education in Overall Development of Students in Research and Other Prospects” *Glob Acad J Pharm Drug Res*; **2023** 5(1), 1-4.
- [3] Joseph T., David D. et. al. “Impact of Social Forces and Environmental Factors on Healthcare and Pharmacy Education: The Report of the 2021-2022 AACP Argus Commission” *American Journal of Pharmaceutical Education* **2023**; 87 (1) 9452.
- [4] Heather MW, Jennifer L. “Pharmacy Education, Make Way for GenZ” *American Journal of Pharmaceutical Education* **2023** 87, 100025.
- [5] Dimock M. Defining generations: where millennials and generation Z begins. Pew Research Center; **2022**.
- [6] Schwieger D, Ladwig C. Reaching and retaining the next generation: adapting to the expectations of GenZ in the classroom. *Inf Syst Educ J*. **2018**;16(3):45–54.
- [7] Ford CR, Moseley L. Challenges to health professions education and strategies for moving forward. *New Dir Teach Learn*. **2020**;2020(162):199–207.
- [8] Shorey S, Chan V, Rajendran P, Ang E. Learning styles, preferences and needs of generation Z healthcare students: scoping review. *Nurse Educ Pract*. **2021**;57:103247.
- [9] Darbshire P, Schoelles-Williams J, Petrelli HM, Van Amburgh JA. Challenges to pharmacy school enrollment management caused by a global pandemic. *Am J Pharm Educ*. 2020;84(6):8150.
- [10] Team C.G.K. New national study: the state of GenZ. The Center for Generational Kinetics, **2022**.
- [11] Puchkova EB, Sukhovershina YV, Temnova LV. A study of Generation Z’s involvement in virtual reality. *Psychol Russ State Art*. **2017**;10(4):134–143