PERSPECTIVES FOR INNOVATIVE MEDTECH PRODUCTION IN UKRAINE: CHALLENGES AND OPPORTUNITIES

MT28

Piniazhko O.[1], Oleshchuk O.[2], Topachevskyi O.[3], Serediuk V.[1], Berezhna O.[4], Ionan V.[5]

[1]State Expert Center of the Ministry of Health of Ukraine, Kyiv, Ukraine
[2]I. Horbachevsky Ternopil National Medical University, Ternopil, Ukraine,
[3]Digital Health Outcomes LLC, Kyiv, Ukraine
[4]Ministry of Education and Science of Ukraine, Kyiv, Ukraine,
[5]Ministry of Digital Transformation of Ukraine, Kyiv, Ukraine

OBJECTIVES

The aim of the research was to develop a strategy for MedTech innovations in Ukraine and to identify priority areas for manufacturing to increase the level of economic growth by ensuring access to modern MedTech.

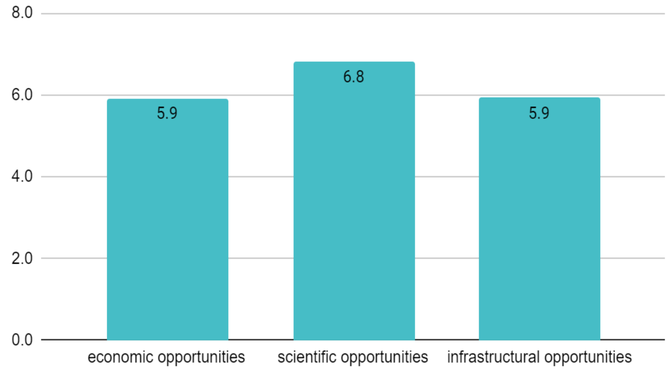
METHOD

An online stakeholder survey was conducted for over 30 respondents to identify priority trends, barriers and opportunities for MedTech in Ukraine based on the project of Strategy for the Development of the Health Care System until 2030. Respondents included industry representatives, government officials and healthcare professionals. A comprehensive review of publications that consider MedTech innovations, analysis of priority diseases based on DALY and market analysis of medical technologies were performed.

RESULTS

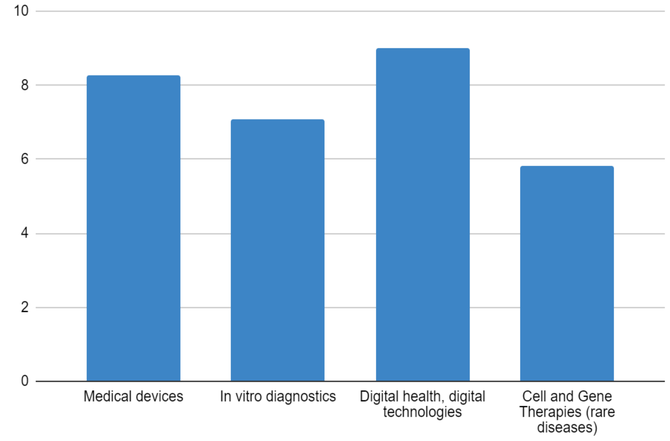
Survey results confirmed the existence of a moderate potential in Ukraine regarding the development opportunities of the MedTech sector from the point of view of manufacturing of innovative products. Highest average score was given to the availability of scientific, followed by economic and available infrastructure opportunities (fig.1). The following priority categories of medical technology were established: digital health 83.3% of respondents, medical devices - 46.7%, in vitro diagnostics - 30.0% (fig. 2). Respondents scored higher medical technologies with high unmet need in the conditions of the military conflict and the post-recovery period in Ukraine. The following top-5 directions were identified: the development of medical technologies for the restoration of functional activity and means of care for combatants, transplantation and rehabilitation; production in the field of bioengineering, three-dimensional modeling and printing, production of technical means of rehabilitation; incentivising of clinical trials; accumulation of patient data in eHealth; introduction of AI clinical decision making, telemedicine, big data processing systems.

Figure 1: Opportunities in Ukraine for MedTech from the point of view of direct development and production



*gradation from 0 to 10, where 0 points are not promising, 10 points are high prospects

Figure 2: Promising MedTech categories with potential for development in Ukraine



*gradation from 0 to 10, where 0 points are not promising, 10 points are high prospects

CONCLUSIONS

Following short-term priorities were identified the production of value-added MedTech products in Ukraine for: prosthetics (including bionic prostheses, endoprostheses); means of care products for people with disabilities and rehabilitation equipment, their disparate components; treatment of burns and wounds; mental health.

REFERENCES

1. Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices, amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and Regulation (EC) No 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC (Text with EEA relevance). https://eur-lex.europa.eu/legal-content/EN/ALL/?uri=uriserv:OJ.L_.2017.117.01.0001.01.ENG
2. https://www.kmu.gov.ua/storage/app/sites/1/55-GOEEI/es-2017745.pdf
3. Evidence standards framework (ESF) for digital health technologies. National Institute for Health and Care Excellence (NICE) https://www.nice.org.uk/about/what-we-do/our-programmes/evidence-standards-framework-for-digital-health-technologies
4. Draft Decree of the Cabinet of Ministers of Ukraine "On the approval of the Strategy for the development of the healthcare system until 2030 and the approval of the operational plan for its implementation in 2023“: https://moz.gov.ua/strategija