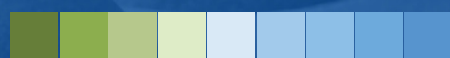




**GEARING UP ACCESS
PROPOSAL FOR V4**

GAPV4 | EDITION 2023



GOALS & METHODS



AUTHORS:

**MAGDALENA WŁADYSIUK
ROBERT PLISKO
KAJA KOSTRZEWSKA**



DATA ANALYSIS:

**ROBERT PLISKO
KAJA KOSTRZEWSKA**



DESIGN AND ILLUSTRATIONS:

KATARZYNA KAPCIA

**THE EDITION 2023 OF THE PROJECT WAS INITIATED BY INFARMA AND AND FINANCED
BY EFPIA GRANT**



EDITION 2023 WAS PREPARED BY



INTRODUCTION

Improving the availability of medicines authorised in the European Union (EU) is a key priority for the European medicines regulatory network and for the pharmaceutical industry according to the new Pharmaceutical Policy in the EU. Member State countries, in line with the health national policies, are gearing up for universal coverage in the healthcare sector, including equalisation of the access to medicines. These objectives need to take account the “lifecycle” of a pharmaceutical product and the different regulatory levers and

policy interventions that take place over its course. In recent years, policymakers in European countries have been increasingly concerned about developments in the pharmaceutical sector that have been challenging the affordability of new medicines and the financial sustainability of solidarity in the publicly funded health care systems^{1,2}. The ‘5 As’ definition is widely used to capture the different aspects of patient access, including availability, adequacy, accessibility, affordability and appropriateness^{4,5,6}.

REIMBURSEMENT DECISION AND PATIENTS ACCESS

1

AVAILABILITY

Whether services are available in the first place.

3

ACCESSIBILITY

Whether the services are effectively available for utilization (e.g. physical accessibility, time to get necessary healthcare).

5

APPROPRIATENESS

Whether available services and health care resources meet the needs of different population groups.

2

ADEQUACY

Whether there is an adequate and continued supply of available services.

4

AFFORDABILITY

Whether a system for financing health services so people do not suffer financial hardship when using them.

¹ World Health Organization. Regional Office for Europe, Policies EO on HS and, Vogler S, Paris V, Panteli D. Ensuring access to medicines: how to redesign pricing, reimbursement and procurement?. 2018

² Godman B, Hill A, Simoens S, Selke G, Selke Krulichová I, Zampiroli Dias C, Martin AP, Oortwijn W, Timoney A, Gustafsson LL, Voncina L, Kwon H-Y, Gulbinovic J, Gotham D, Wale J, i in. (2021) Potential approaches for the pricing of cancer medicines across Europe to enhance the sustainability of healthcare systems and the implications. *Expert Rev. Pharmacoecon. Outcomes Res.* 21(4):527–540.

³ Penchansky R, Thomas JW. The concept of access: definition and relationship to consumer satisfaction. *Med Care.* 1981;19(2):127-140.

⁴ The model by Penchasky & Thomas was readapted by the multi-stakeholder Patient Access Partnership (PACT) network and the same approach was accepted by the European Patients Forum in 2016. 5As are complemented by „Timeliness“ in the Towards a fairer and more effective measurement of access to healthcare across the EU report.

⁵ Garcia MM, Barbosa MM, Silva RM, Reis EA, Alvares J, Assis Acurcio F de, Godman B, Guerra Junior AA. (2019) Indicator of access to medicines in relation to the multiple dimensions of access. *J. Comp. Eff. Res.* 8(12):1027–1041.

⁶ Barbosa MM, Moreira TA, Nascimento RC, Nascimento MM, Acurcio FA, Godman B, Guerra AA, Alvares-Teodoro J. (2021) Access to medicines in the Brazilian Unified Health System's primary health care: assessment of a public policy. *J. Comp. Eff. Res.* 10(10):869–879.

Access to new therapies and diagnostics varies significantly between countries in the EU. This has been seen with the utilisation of new biological medicines to treat immune diseases, including rheumatoid arthritis and inflammatory bowel diseases^{7,8,9}. In addition, for medicines to treat rare diseases and cancer¹⁰. The importance of attaining affordable access to pharmaceutical products in the global efforts towards universal health coverage has long been recognized. The increasing wave of scientific innovation approved by EMA over the last 10 years could generate substantial health benefit on a population level. A new Pharmaceutical Strategy, adopted in October 2021 by the EU Commission, promises patient access to affordable medicines and aims to support competitiveness and innovation in Europe's pharmaceutical industry. To ensure access to affordable medicines for patients, it also addresses unmet medical needs (e.g. oncology, rare diseases) and promotes a high level of quality, efficacy and safety standards.

In Europe, multiple organizations have developed and/or published healthcare indicators, ranging from large-scale, regularly updated databases and reports¹¹ to ad hoc, disease-specific surveys and reviews commissioned by authorities, patient

associations or commercial projects. **In this project, a unique multi-level indicator framework for measurement of patient access to therapies and diagnostics was developed by a group of experts. Its aim is to create a benchmark for the V4 region from the angle of clinical standards with the same set of 8 indicators capturing different aspects of patient access, including availability, affordability, and accessibility of pharmaceutical products, as well as diagnostics. All indicators were adapted to specific therapeutic areas in terms of relevant medicines and diagnostic tests.** At the highest level of analysis, to give an overall assessment, a single cumulative indicator was calculated for each country, based on the disease-level indicators. **It allows us to draw direct comparisons between the healthcare systems in V4 in the investigated areas.**

Better access to the diagnostic procedures and therapies is one the key elements within the entire healthcare service system, which is necessary to improve survival and quality of life (as measured in DALY) in a given population. All disease areas selected for the purposes of the current project are important from the public health perspective.

⁷ Putrik P, Ramiro S, Kvien TK, Sokka T, Pavlova M, Uhlig T, Boonen A, Working Group 'Equity in access to treatment of rheumatoid arthritis in Europe'. (2014) Inequities in access to biologic and synthetic DMARDs across 46 European countries. *Ann. Rheum. Dis.* 73(1):198–206.

⁸ Baumgart DC, Misery L, Naeyaert S, Taylor PC. (2019) Biological Therapies in Immune-Mediated Inflammatory Diseases: Can Biosimilars Reduce Access Inequities? *Front. Pharmacol.* 10:.

⁹ Kostić M, Djaković L, Šujić R, Godman B, Janković SM. (2017) Inflammatory Bowel Diseases (Crohn's Disease and Ulcerative Colitis): Cost of Treatment in Serbia and the Implications. *Appl. Health Econ. Health Policy.* 15(1):85–93.

¹⁰ EURORDIS. (2018) Breaking the Access Deadlock to Leave No One Behind. Dostep: http://download2.eurordis.org.s3.amazonaws.com/positionpapers/eurordis_access_position_paper_final_4122017.pdf.

¹¹ e.g., Euro Health Consumer Index by Health Consumer Powerhouse; European Core Health Indicators and Eurostat data by EU; OECD Health data and reports; WHO Health reports and Core Health Indicators in the WHO Europe Region; measurements by national authorities etc.

#	KPI		5 "A"
1	RESTRICTIONS ON REIMBURSEMENT		Accessibility Availability
2	TIME TO AVAILABILITY		Accessibility
3	COMPLIANCE WITH INTERNATIONAL GUIDELINES		Availability Adequacy Accessibility
4	EARLY ACCESS PROGRAMS	THERAPY	Accessibility
5	SHARE OF PATIENTS ON A SPECIFIC NOVEL TREATMENT		Accessibility Appropriateness
6	NOVEL TREATMENT DEPLOYMENT		Availability Adequacy Appropriateness
7	REIMBURSEMENT OF MOLECULAR TESTS	DIAGNOSTICS	Adequacy Accessibility
8	ACCESS TO ADVANCED DIAGNOSTICS		Adequacy Accessibility

The aim of this analysis is to facilitate a better understanding of the deeply complex problem of patient access to medicines. Our results may be hopefully supporting for decision makers and other stakeholders in preparing for future innovations in healthcare among the V4 countries and how these may become more accessible. The disclosed differences may become motivators to promote equal access to health care across the V4 countries as well as to show key stakeholders potential actions for improvement where there are concerns.



IT IS TIME TO ACT.

GOALS & METHODOLOGY OF THE PROJECT

Ensuring patient access is the key determinant to deliver value of innovative treatments to further improve the health of the population health. Universal coverage and access to pharmaceutical innovations have appreciably improved patient outcomes across the different indications. However, this can only be achieved by full access to advances on health care.

Our goal is to support key decision makers to identify the gaps in patient access to innovative therapies throughout the Visegrád Group countries.

To present different dimensions of patient access, we selected a total of 12 indications (therapy areas) divided in 3 categories: oncology, chronic diseases and rare diseases. These categories may serve as representative examples for describing and evaluating patients' access to innovative therapies in the Visegrád Group countries. Evaluated therapy areas were those for which the highest number of new innovative treatments had been approved in Europe between 2010 and 2022; consequently, it was possible to assess the extent to which they have become available to patients in actual practice.

All therapeutic areas are evaluated using the same set of 8 indicators which capture different aspects of patient access, including availability, affordability, and accessibility of innovative pharmaceutical

products, treatments recommended by clinical guidelines as well as diagnostics; furthermore, real-life utilization of selected therapies was also considered. All indicators were adapted to the specific therapeutic area in terms of relevant pharmaceutical products and diagnostic tests.

Patient access indicators are descriptive measurements that evaluate the level of patient access by defining a set of benchmarks comparing several aspects of treatment and diagnostic process. After conducting a review of existing and publicly available patient access indicators in international measurements, we developed a multi-level indicator framework in which indicators are aggregated for each therapeutic area and for each country. As a result, making it possible to compare diseases and countries in a flexible way.

Data on which indicators are based on those published by national authorities in each country, including national reimbursement databases, reimbursement protocols, and prescription databases. Furthermore, we used international guidelines published by

professional organizations as a benchmark. In cases when certain necessary data points were not publicly available for all countries, we used estimates based on the available data.

#	INDICATOR (KPI) NAME	DESCRIPTION AND RATIONALE
1	RESTRICTIONS ON REIMBURSEMENT	refers to the availability of reimbursed treatment options at the country level by calculating the proportion of innovative medicines approved by EMA that are available under the regular or irregular reimbursement. Partial reimbursement (restrictions compared to EMA label) is given less weight than a full indication reimbursement.
2	TIME TO AVAILABILITY	refers to the length of time (measured as number of days) between the EMA marketing approval and the date of availability under regular reimbursement for patients.
3	COMPLIANCE WITH INTERNATIONAL GUIDELINES	refers to the proportion of therapies reimbursed in a given country. The main points of relevant international guidelines of professional organizations (e.g., ESMO guidelines) were identified for each indication.
4	EARLY ACCESS PROGRAMS	refers to the availability of early access programs (excluding compassionate use) before regular reimbursement. Early access programs are a pathway to provide innovative treatments through individual application in some countries .
5	SHARE OF PATIENTS ON A SPECIFIC NOVEL TREATMENT	refers to the utilization of specific therapies. The indicator refers to the share of patients on a specific innovative treatment (or a category of innovative drugs) in 12 months, compared to the total number of eligible patients. The number of eligible patients is calculated using the same population data e.g. epidemiological data were identified in each indication.
6	NOVEL TREATMENT DEPLOYMENT	refers to the utilization of a specific ATC code category (in absolute value) per total population per 12 months.
7	REIMBURSEMENT OF MOLECULAR TESTS	refers to the public reimbursement of molecular or other tests required when the qualification to the therapy is conditioned by the presence of a specific biomarker. Relevant tests were selected for each indication based on guidelines.
8	ACCESS TO ADVANCED DIAGNOSTICS	refers to the typical waiting time for elective diagnostics following the referral, which may affect the time to treatment initiation or further diagnostics. Relevant diagnostic tests were specified for each indication based on guidelines.

DISEASE BURDEN IN VISEGRÁD GROUP COUNTRIES

All selected diseases are important from a public health perspective and their population burden can be assessed by evaluating the quality of life with increasing disability or loss of life years of the burdened population.

DALY (*Disability Adjusted Life-Years*) is a well-recognised tool, that allows international comparison between countries to determine the health status of the population^{12,13,14}. One DALY represents the loss of the equivalent of one year of full health. DALYs is the sum of the years of life lost due to premature mortality (YLLs) and the years of years of healthy life lost due to disability (YLDs) for people living in states of less than good health resulting from the specific disease.

INDICATIONS SELECTED FOR ACCESS GAP ASSESSMENT

THE DISEASE WAS SELECTED BASED ON THE 10 YEARS ANALYSIS OF EMA AUTHORIZATION.

ONCOLOGY



NSCLC



BREAST CANCER



PROSTATE CANCER

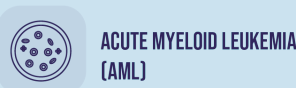


OVARIAN CANCER

ORPHAN



CYSTIC FIBROSIS



ACUTE MYELOID LEUKEMIA (AML)



LYMPHOMA



SPINAL MUSCULAR ATROPHY (SMA)

CHRONIC DISEASES



DIABETES MELLITUS



MULTIPLE SCLEROSIS (MS)



ASTHMA



PARKINSON'S DISEASE

¹² Global Burden of Disease Cancer Collaboration, Fitzmaurice C, Akinyemiju TF, Al Lami FH, Alam T, Alizadeh-Navaei R, Allen C, Alsharif U, Alvis-Guzman N, Amini E, Anderson BO, Artaman A, Asgedom SW, Assadi R, i in. (2018) Global, Regional, and National Cancer Incidence, Mortality, Years of Life Lost, Years Lived With Disability, and Disability-Adjusted Life-Years for 29 Cancer Groups, 1990 to 2016: A Systematic Analysis for the Global Burden of Disease Study. *JAMA Oncol.* 4(11):1553–1568.

¹³ Masaebi F, Salehi M, Kazemi M, Vahabi N, Azizmohammad Looha M, Zayeri F. (2021) Trend analysis of disability adjusted life years due to cardiovascular diseases: results from the global burden of disease study 2019. *BMC Public Health* 21(1):1268.

¹⁴ Feigin VL, Nichols E, Alam T, Bannick MS, Beghi E, Blake N, Culpepper WJ, Dorsey ER, Elbaz A, Ellenbogen RG, Fisher JL, Fitzmaurice C, Giussani G, Glennie L, James SL, i in. (2019) Global, regional, and national burden of neurological disorders, 1990–2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet Neurol.* 18(5):459–480.

