

4.1 Governance on Access to Medicine Material Topic



PharmaEssentia is committed to continuous research and development of new drugs, and through the Access to Medicine program, we strive to promote access to medication for patients around the world. Our core philosophy, to which we are committed, is to enhance drug accessibility, ensure affordability, and promote availability. We have formulated our group strategy guidelines based on the 2022 Access to Medicine Index framework to address unmet medical needs. Our goal is to reduce the gap in drug accessibility for patients, so that they can obtain the drugs they need in a reasonable, affordable, correct, and convenient manner. Through a drug accessibility governance policy that is closely integrated with our business development strategy, we aim to create shared value for patients. We also hope to use the power of the PharmaEssentia group to achieve SDG 3- Good Health and Well-being by 2030.

GRI 3-3 / 203-1



Internal Policies

- Clinical Study Policy (Draft)
- Compassionate Use Policy (Draft)
- Standard Operating Procedures related to Clinical Trials
- Standard Operating Procedures for Compassionate Use
- Intellectual Property Management and Utilization Measures

External Guidelines

- International regulatory guidelines
- ICH E6 Good Clinical Practice
- Local country regulatory guidelines (e.g. Taiwan)
 - Pharmaceutical Affairs Act
 - Medical Care Act
 - Human Subjects Research Act
 - Personal Data Protection Act
 - Regulations Governing Human Research Ethics Review
 - Good Clinical Practice for Drugs
 - Regulations Governing Sample and Gift Offerings of Drugs



PEC commits to adherence with relevant international and local laws and standards, and uses our strengths to implement the three approaches of access to medicine strategies from the Access to Medicine Index: Governance on Access to Medicine, Research & Development, and Product Delivery. We expect to contribute to the improvement of global health with our technology and expertise, and committed to following the 6 major aspects of access to medicine strategies:

- Enhance the management strategies of drug accessibility.
- Innovative medicine addressing unmet medical needs
- Responsible and transparent intellectual property right management
- Provide stable and safe medicines.
- Leading the industry development to enhance the local capabilities.
- Committed to developing innovative drugs to treat rare and ultra rare diseases, benefiting vulnerable patients



- At present, the Board of Directors and senior management functional taskforces of each subsidiary are responsible for issue management, and the implementation of access to medicine governance is integrated with our business strategy within the current system.
- ECCS Access to Medicine team



- The resources allocated for access to medicine is concentrated on research and development expenses and marketing expenses. Global R&D expenses are expected to reach around NTD 1.43 billion, an increase of 12.5% compared to last year, and marketing expenses are expected to reach around NTD 1.54 billion, an increase of 63% compared to last year.
- To enhance product life cycle management, the company has hired an international biopharmaceutical intellectual property lawyer by the end of 2022.
- A guarterly demand-forecasting mechanism for commercial and clinical development will be managed using the SAP S4 system starting from 2023.
- Manage drug safety and supply shortage reporting systems with regulatory authorities in different countries.
- Maintain and operate the drug complaint system established by PharmaEssentia Headquarters.
- Panco Healthcare meets the medication needs of patients in hospitals, and manages the medication pickup process in various hospitals.



Short-term Targets for 2023

- Ropeg is used to treat polycythemia vera (PV), a condition in which the body produces too many red blood cells
 - Obtaining approval for the drug in Japan
 - Submit drug license applications for Ropeg in Malaysia, Singapore, and Hong Kong
- Apply for coverage of Tirbanibulin (KX01) kinase inhibitor for the treatment of actinic keratosis under Taiwan's National Health Insurance program
- Establish internal pricing policies that are reasonable and fair in order to achieve global operational goals
- Strengthen the management system of global logistics supply chains, effectively manage drug transportation and recycling, and ensure that high-quality products are delivered to patients at the right time
- Initiation and application of research protocol
 - Initiate human clinical trials related to TCRT cell therapy
 - Complete IND application for Ropeg in treating epithelioid hemangioendothelioma, a very rare disease, in Taiwan
- Improve the technology for scaling up production for biologic drug processes and pass PMDA inspections in Japan
- Collaborate with Taiwan's National Health Insurance system to obtain hospital contracts and expand the use of medications beyond Panco Healthcare
- Continue to protect the patented new drug BESREMi[®] with the most basic global patent protections, be involved in the R&D process of PharmaEssentia, and continue to file new patent applications
- Establish an international-level research institution to expand the breadth and depth of new drugs that can be developed, and apply for intellectual property patents in a timely manner

Medium-term Targets for 2024-2026

- Ropeg
- Obtain regulatory approval for the treatment of polycythemia vera (PV) in Southeast Asian and Central/South American countries
- Obtain regulatory approval for the treatment of essential thrombocythemia (ET) after completing Phase 3 clinical trials in the United States, Taiwan, China, Japan, and South Korea
- Continue to strengthen drug life cycle management by continuously planning and applying for
 patents related to the substance and methods of the new drug, expanding exploration of new drug
 usage, collaborating with academic and research institutions in various countries, and enhancing
 social impact on the local biotech and biopharmaceutical industry with value chain partners
- Promote advocacy for issues related to access to medicine and collaborate fully with Panco Healthcare and subsidiaries to support the Group's new drug market launch process

Long-term Targets (2026 and beyond)

- Accelerate the application for drug approvals in each country, and integrate the prevalence of indications for the company's new drugs in developing countries for people with low to middle income into drug pricing strategies based on reasonable and fair pricing principles, while considering patients' ability to pay for the drug
- Ropeq
 - Obtain marketing authorization for the treatment of polycythemia vera (PV) in Eastern Europe, Central Asia, and Africa
 - Obtain marketing authorization for the treatment of essential thrombocythemia (ET) in Southeast Asia, Central and South America, Eastern Europe, Central Asia, and Africa
- Responsible and transparent intellectual property management
- When conducting patent layout, the company will gradually promote the use of drugs in low-income
 countries and developing countries based on the expansion of access to medicine in major industrialized countries, to ensure that the treatment needs of patients worldwide are met through licensing
 and external authorization as well as clinical trials and sales after launch conducted around the world



Management Evaluation Mechanism

- Rigorously comply with the laws and relevant regulations involved in the product cycle from research and development, production to sales
- Conduct drug supply, pricing, and international marketing in an ethical and responsible manner in accordance with internal policy

2022 Evaluation Results

- BESREMi[®] has obtained licenses in 38 countries and is expected to obtain a license in Japan in the first guarter of 2023.
- The board of directors has approved the drafting of a distribution and licensing agreement for Ropeg in Latin American with an international pharmaceutical company.
- Ropeg has been included in the reimbursement program of the largest hospital chain in the United States, the Kaiser Permanente.
- The Macau Health Bureau has granted approval for the import of Ropeg as a "pre-approved imported drug".
- The American NCCN treatment guidelines have listed BESREMi® as a treatment option for adult patients with polycythemia vera (PV).
- The Compassionate Use Program has benefited a total of 40 patients worldwide.
- A special import program for myeloproliferative neoplasms (MPNs) was executed in Hong Kong and Singapore.



Key Strategies and Actions on Access to Medicine SASB HC-BP-240a.1 / 000.A

To meet the medical needs of patients with rare diseases around the world, not only does PharmaEssentia address key issues at each stage of the value chain, but we also follow the 2022 Access to Medicine Index framework to develop our strategies and policies as well as take concrete actions to promote the positive impact of drug repurposing.

Corporate Purpose and Strategy

To solve the pain of patients and promote the health and well-being of all mankind with our new drug products.

Core Vision and Commitments

ImproveAccessibility

Provide drugs that can treat disease needs and supply them through legal and safe channels.

Ensure Affordability

Responsible, reasonable, and fair pricing mechanism.

Enhance Availability

Assist economically disadvantaged countries' patients in accessing the required drugs and reducing accessibility gaps.

Strategy and Accessibility Plan

Accessibility Governance

Access to medicine governance closely integrated with business strategies.

Promote access to medicine by the board of directors and senior management teams of subsidiaries.

Meet the access to medicine needs of vulnerable groups.

Focus on the medical needs of economically or resource-poor patients, and provide assistance in resolving medical burdens.



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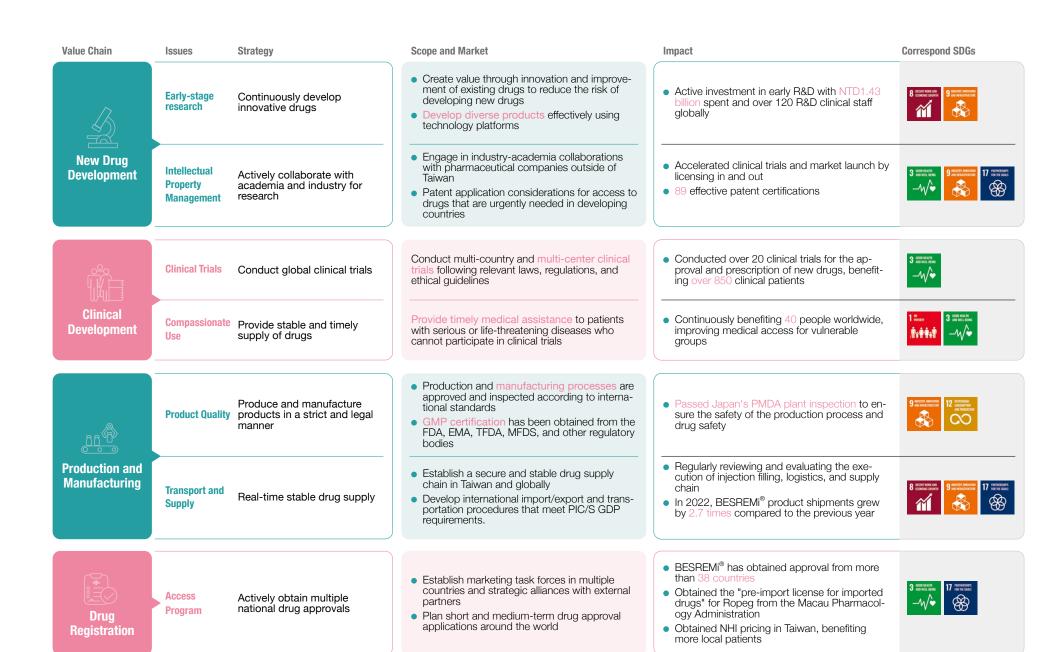
Sponsoring underprivileged group patients to use BESREMi®

For Patients

Ensure access to medicine support for patients and eliminate economic barriers to using BESREMi®

For Healthcare Institutions

Accelerate patient treatment progress by providing support programs or other channels to prescribe BESREMi®



Value Chain	Issues	Strategy	Scope and Market	Impact	Correspond SDGs
Marketing and Sales	Academic Exchange	Demonstrate medical value	 Collaborate with partners to expand the social impact of local biopharmaceutical industries Promote access to medical initiatives and sponsor related organizations and activities 	 Assisted in establishing the first MPN treatment center in Taiwan and the Taiwan Myeloproliferative Neoplasm Care Association Provided support for five major North American patient-related group activities 	3 soon seems 17 Palvantaure:
	Fair Pricing	Witness the economic value of products	Assess the value of products in different countries' medical and economic systems based on pharmacoeconomics and health technology assessments (HTAs)	 Achieved legitimate and sustainable pricing strategies BESREMi[®] has been included in the NCCN in the United States and the ELN guideline in Europe 	3 soon wat in —///
	Patient Support	Provide resources to remove barriers	Host multiple health education activities to enhance patient awareness of disease treatment and support patient support programs to remove medical barriers	 Taiwan MPN iCare Program The patient support SOURCE Program in the United States The Patient Power program in the United States, patient advocacy groups and education activities for MPN advocacy and education, and the MPN Research Foundation's clinical trial search engine 	1 NOTE THE STATE OF THE STATE O
	Medical Contribution	Reduce disparities in medical use	Provide medicine to patients with MPN through various channels and sponsor medication for disadvantaged patient groups	 Over 3,800 patients have been treated with BES-REMi[®] The medicine has been provided in 20 hospitals in Taiwan to support local needs Sponsored BESREMi[®] for more than 500 disadvantaged patients in the United States, Taiwan, South Korea, Singapore, and other places 	1 NORTH 3 DOWNERS OF THE PARTY
Patient Safety	Pharmacovigilance	Multi-channel pharmacovigilance	 Establish a mailbox for reporting adverse drug reactions and a market notification management center Establish a database to ensure local clinical data generation and quality 	 Mailbox for reports 5.4Patient Safety Management Regular publication of PSUR reports for real-time monitoring of drug safety 	3 accentions 17 Participates —/// —/// Section 10 accentions 18 Accentions 19 Accentions 19 Accentions 10 Accentions 10 Accentions 10 Accentions 10 Accentions 10 Accentions 11 Accentions 12 Accentions 13 Accentions 14 Accentions 15 Accentions 16 Accentions 16 Accentions 17 Accentions 18 Accentions
	Product Tracking	High-tech serialization of products	Implement drug serialization to comply with the US Drug Supply Chain Security Act regulations	 The US drug packaging plant we have partnered with implements drug packaging and serialization correctly Establishment of a drug traceability system for continuous monitoring of drug flow and usage records 	3 000 NO. ST.
	Product Recall	Recall management mechanism	Establish a comprehensive product traceability mechanism	 No drug recall incidents occurred in 2022 No product-related deaths were reported to the FDA in 2022 	3 com natural and