



Orphan Drug Policies: Dynamic Global Landscape

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Overview

- Orphan Drug Policy: Today
- Retelling the story: Patient, Product & Policy
- Access equation
- Orphan Drug Policies: Tomorrow
- Role for collaboration

Our Commitment to Patients

Developing life-saving therapies carries with it the responsibility to increase access to health care for patients around the world

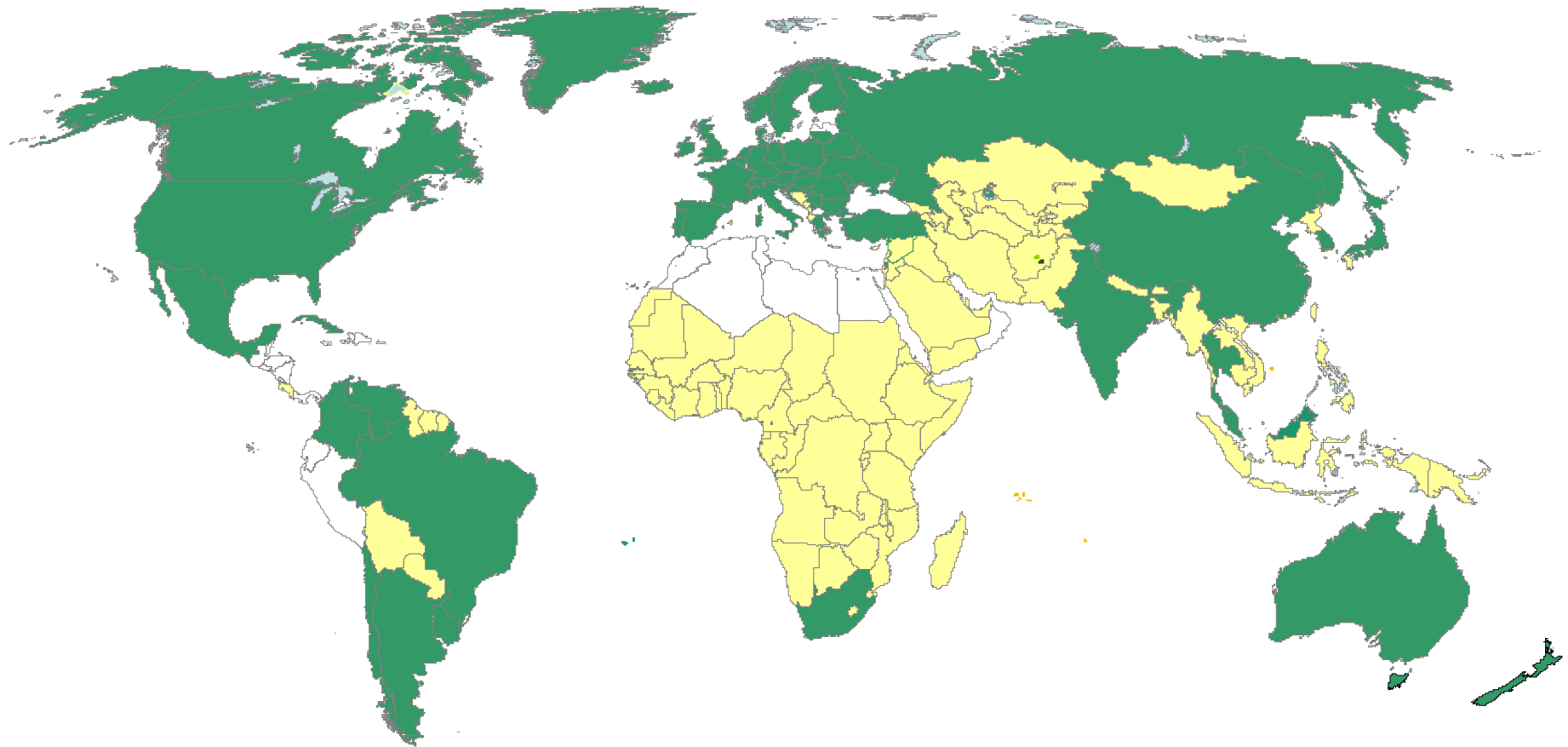


Sponsoring programs to ensure that patients around the world have access to the treatments they need.



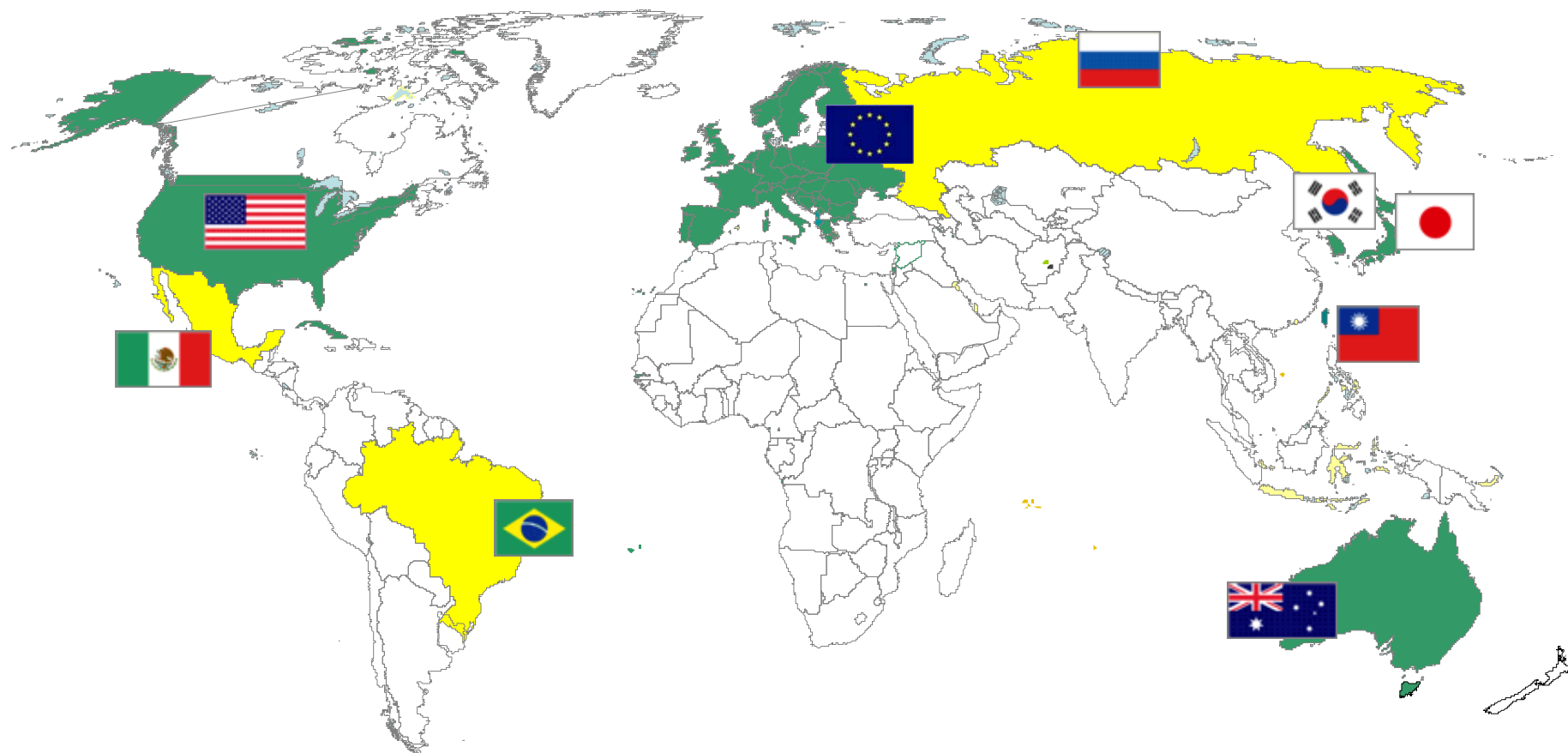
Promoting access by working with physicians and governments in developing countries to build sustainable health care systems.

- No presence
- Direct

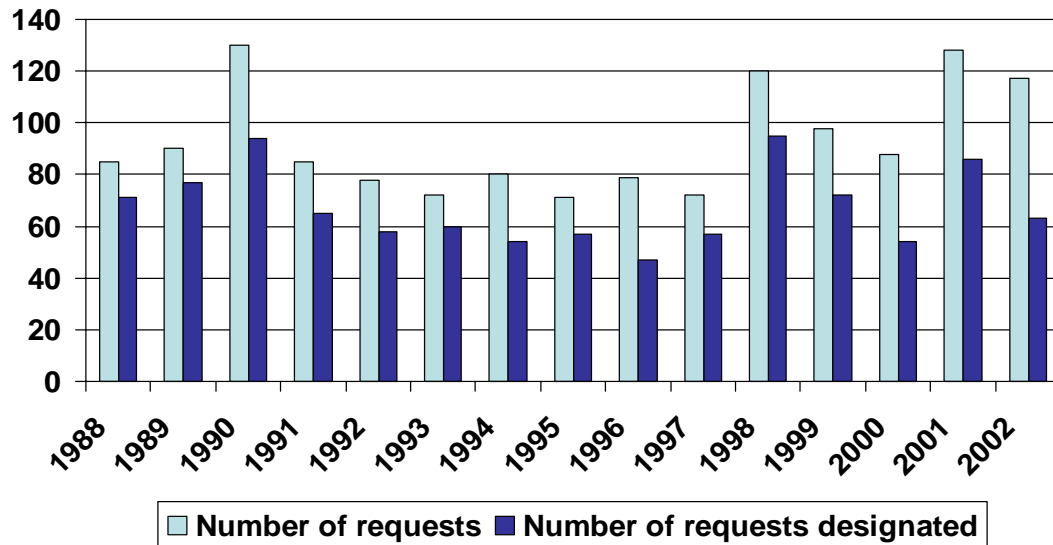


Countries with Orphan Drug Policies are Few

- Partial
- Formal

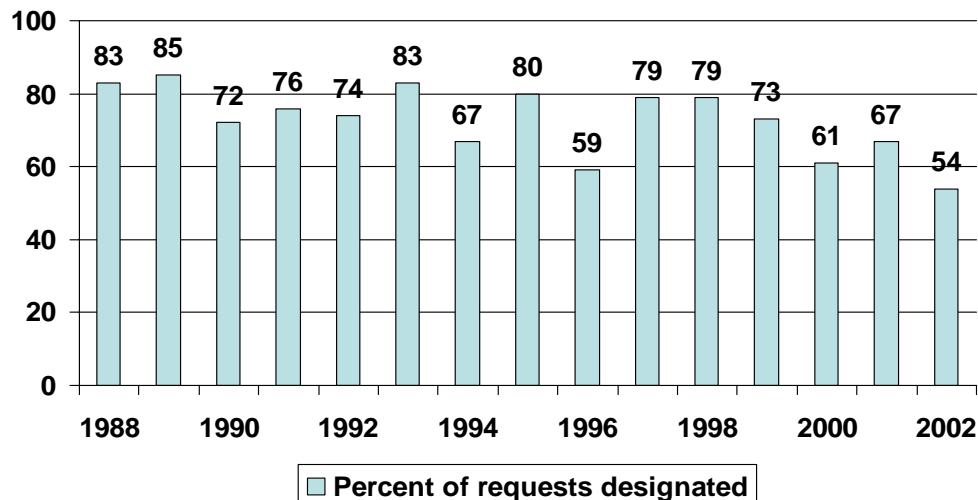


Orphan Drug Policy: Measures of Success



- >325 Orphan Products approved since 1983 in US

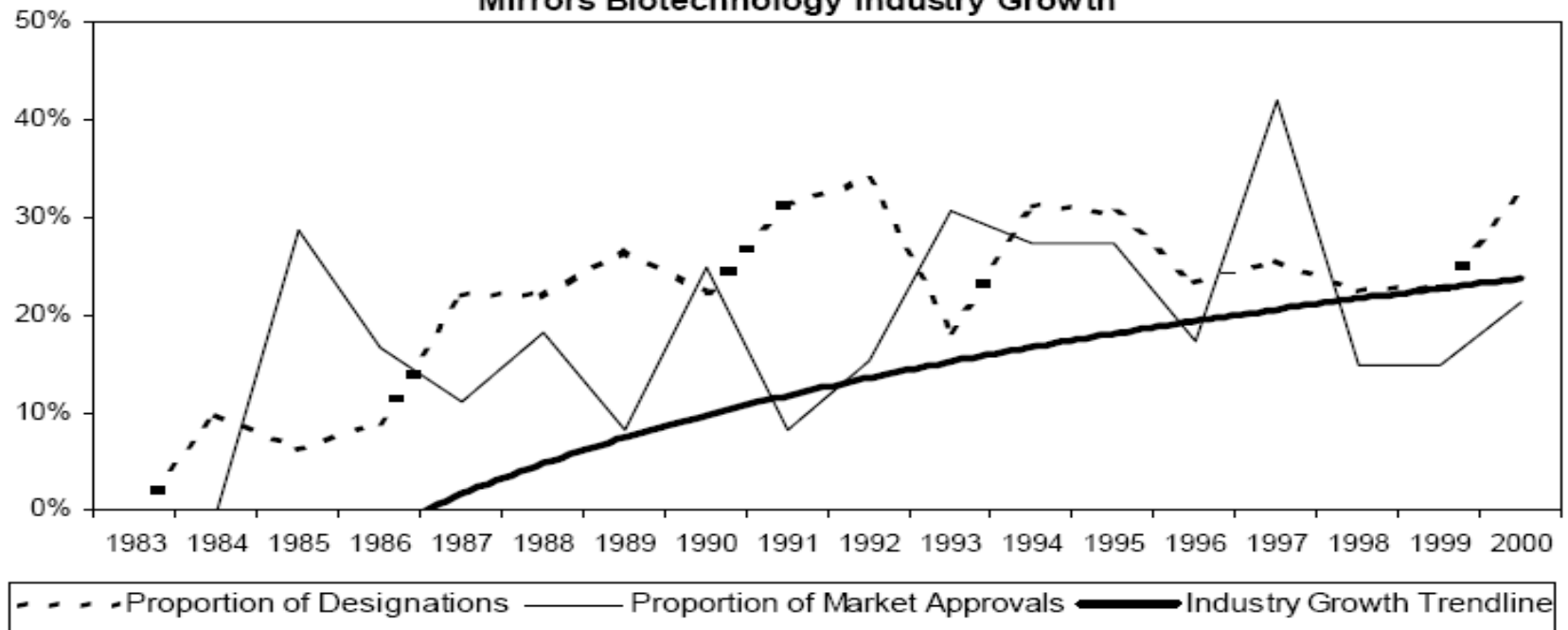
- >45 Orphan Products approved since 2000 in EU



Biotechnology offers solutions to Rare Diseases



Chart 2
Growth in Biologic Orphan Products
Mirrors Biotechnology Industry Growth



US DHHS OIG: ODA Implementation & Impact, 2001

Patient's Story

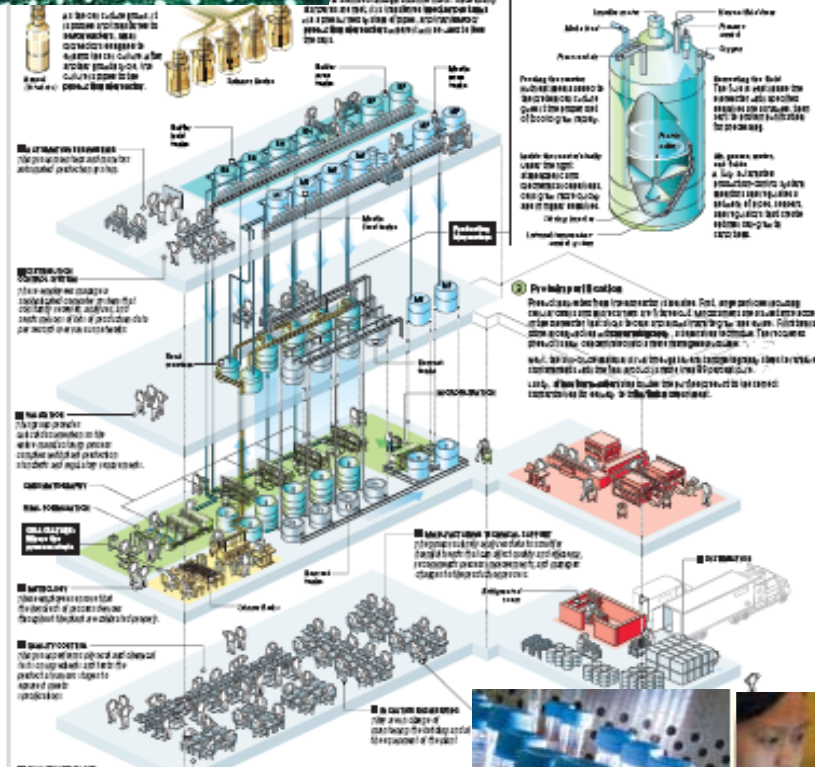


Patricia Hand



Helen Walker

Product's Story



Policy's Story




Awareness



Appreciation



Action

FDA U.S. Food and Drug Administration 

[FDA Home Page](#) | [Search FDA Site](#) | [FDA A-Z Index](#) | [Contact FDA](#)

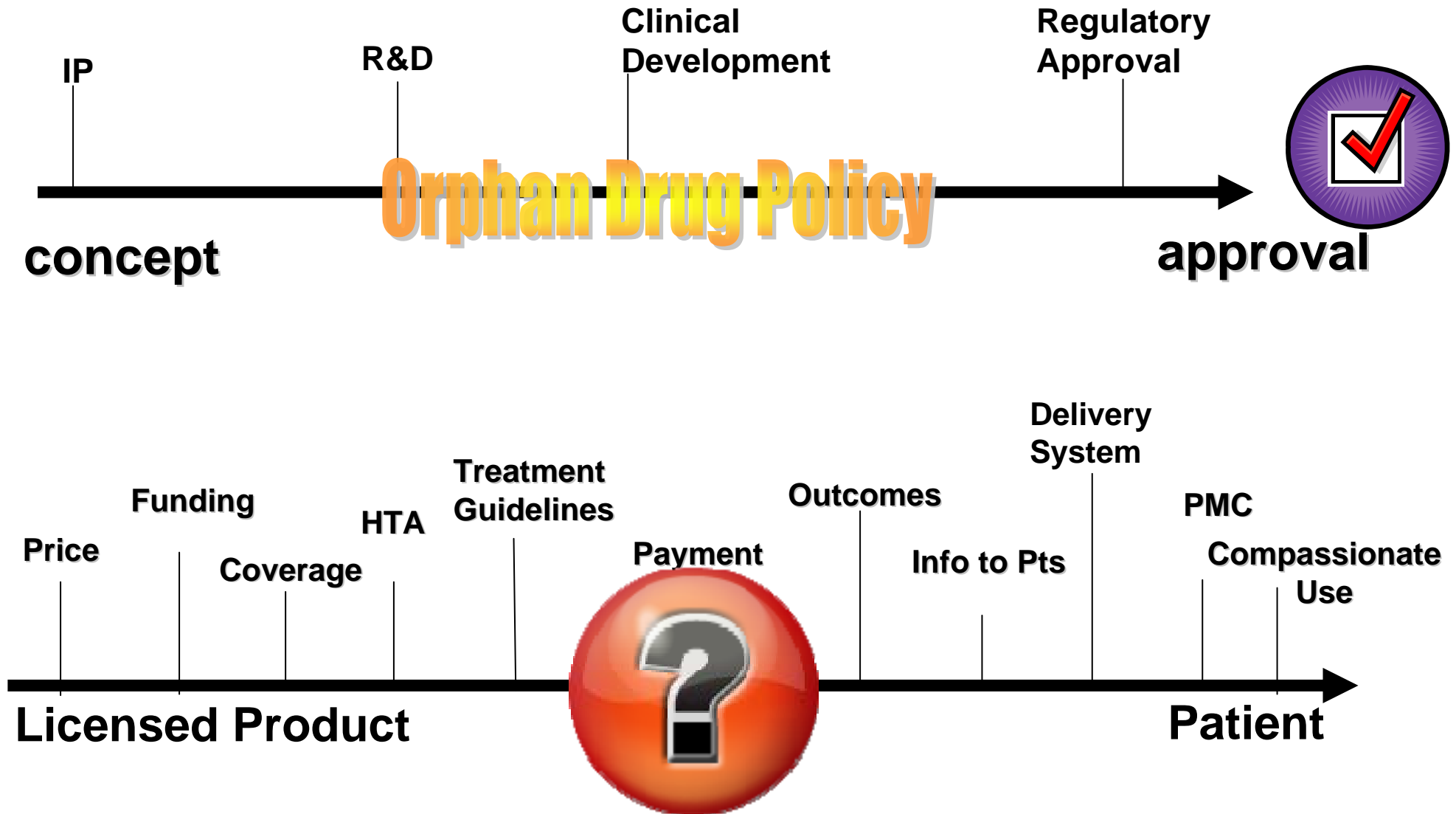
The Orphan Drug Act (as amended)

CONGRESSIONAL FINDINGS FOR THE ORPHAN DRUG ACT

The Congress finds that—

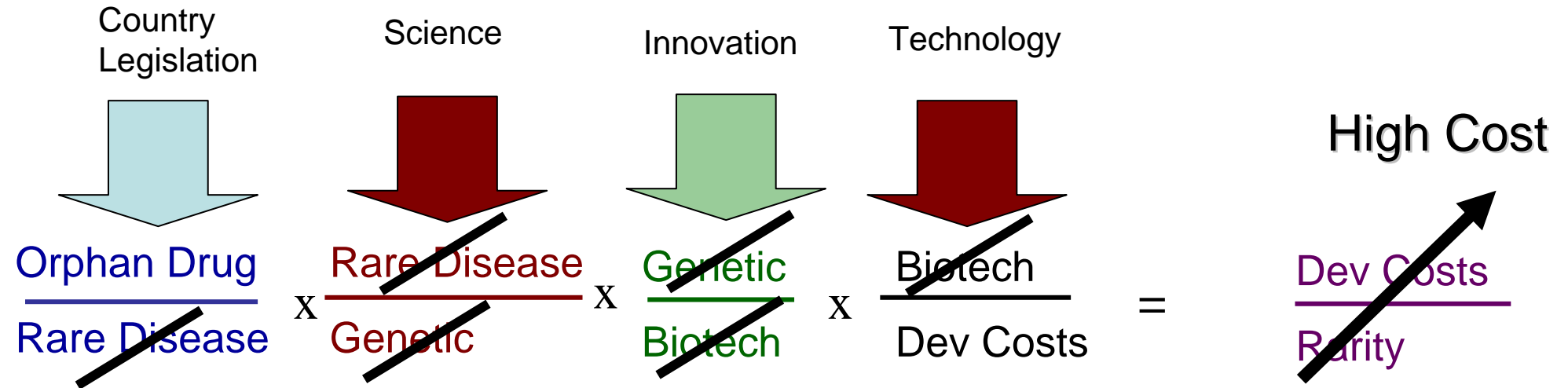
- (1) there are many diseases and conditions, such as Huntington's disease, myoclonus, ALS (Lou Gehrig's disease), Tourette syndrome, and muscular dystrophy which affect such small numbers of individuals residing in the United States that the diseases and conditions are considered rare in the United States;
- (2) adequate drugs for many of such diseases and conditions have not been developed,
- (3) drugs for these diseases and conditions are commonly referred to as "orphan drugs";
- (4) because so few individuals are affected by any one rare disease or condition, a pharmaceutical company which develops an orphan drug may reasonably expect the drug to generate relatively small sales in comparison to the cost of developing the drug and consequently to incur a financial loss;
- (5) there is reason to believe that some promising orphan drugs will not be developed unless changes are made in the applicable Federal laws to reduce the costs of developing such drugs and to provide financial incentives to develop such drugs; and
- (6) it is in the public interest to provide such changes and incentives for the development of orphan drugs.

Access Equation is Two-Fold



Considerations for Tomorrow's Orphan Drug Policies

#1) "Correlation Creep"



Orphan Drug = High Cost

Orphan Drug = Life Saving

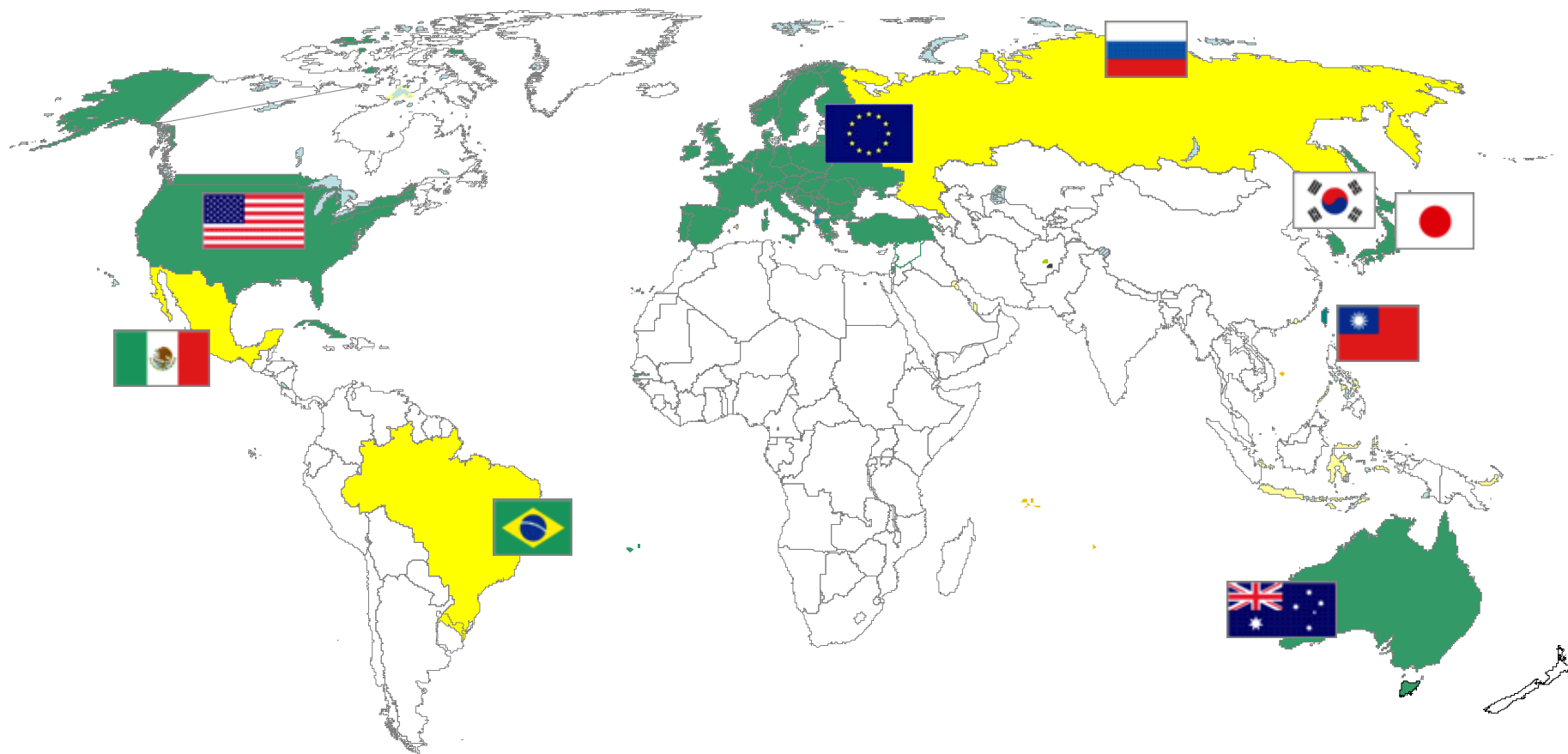
Considerations for Tomorrow's Orphan Drug Policies (cont.)

#2) "First Encounter" for Many Countries

-[Research], Registration, Reimbursement

● Partial

● Formal



Considerations for Tomorrow's Orphan Drug Policies (cont.)

#3) Rare Diseases in the Global [Public] Health Agenda

Editorials

Are drugs for rare diseases "essential"?

Marcus M Reidenberg¹

In 1977, the first report of the WHO Expert Committee on the Use of Essential Drugs defined essential drugs as those needed to satisfy the health-care needs of the majority of the population. This was done in order to fulfil a mandate to assist Member States in selecting and obtaining essential medications for their populations. The Expert Committee then developed criteria for determining if a drug fitted this definition and published a Model List of Essential Drugs as an example of how the concept of essential drugs could be implemented.

A brief review of the state of medications at that time explains the need for this assistance: resources were limited in many countries, so the goal was to use them wisely, and many drugs marketed around the world were ineffective or irrational combination products. A review of the evidence of efficacy of all prescription drugs on the market in the United States starting in 1966 found that about one-third of the over 3000 marketed drugs were not effective.¹ In addition, there were frequently several effective drugs in the same therapeutic class all did not need to be stocked by health service pharmacies. The essential drugs concept and the methods for its

In this issue, Stolk et al. identify changes in the policies of some governments to facilitate the discovery and development of drugs for uncommon diseases. They propose an additional complementary Orphan Medicines Model List to include drugs for rare diseases in the Essential Medicines Programme of WHO.² They propose criteria for including a drug in the suggested list; cost is not one of them. How should treatments for uncommon or rare diseases be considered, if at all, for an essential medicines list? After there are more than 6000 rare diseases and related conditions listed on the National Institutes of Health web site,

Aristotle raised the principle of distributive justice, the proper distribution of benefits and burdens, to address this question.³ Is it right for one patient to benefit from a health service and another patient to be ignored only because of the prevalence of their illness? Is there a better way to select which medicines to purchase than to purchase only those for common problems? Patients with rare diseases irrelevant to the health-care needs of a population may change the essential medicines allocation to include some

formal analysis may not be needed for decision-making while technical competence in cost-effectiveness analysis is developed to help with more difficult decisions.

If the definition of an essential medicine is to be changed to include medicines needed for people with rare

Policy and Practice

"Rare essentials": drugs for rare diseases as essential medicines

Pieter Stolk,¹ Marjolijn JC Willemen,² & Hubert GM Leufkens³

Abstract Since 1977, the WHO Model List of Essential Medicines (EML), published by WHO, has provided advice for Member States that struggle to decide which pharmaceutical technologies should be provided to patients within their public health systems. Originating from outside WHO, an incentive system has been put in place by various governments for the development of medicines for rare diseases ("orphan drugs"). With progress in pharmaceutical research (e.g. drugs targeted for narrower indications), these medicines will feature more often on future public health agendas. However, when current definitions for selecting essential medicines are applied strictly, orphan drugs cannot be part of the WHO Essential Medicines Programme, creating the risk that WHO may lose

in drugs in its policy sphere by composing a complementary list of "rare essentials" could aid policy-makers to these drugs and stimulate relevant policies. Furthermore, issues can be resolved. In this paper we propose selection criteria for future work towards an extensive WHO Orphan

يمكن الانتفاع على الملخص بالعربية في الصفحة 758

was published from outside the "movement" in affluent countries in the 1980s to create incentives for development of orphan drugs. Because of the pharmaceutical market, orphan drugs currently constitute about 15% of new centralized authorizations in the European Union (EU), there is increasing attention for "rare diseases" in emerging countries (e.g. Egypt, India) and more spin-offs of orphan drug innovations with implications for drug treatment in general (e.g. imatinib mesylate, used for the treatment of chronic myeloid leukaemia).⁴ In this paper, we review recent advances in the fields of orphan drugs and essential medicines, and propose how WHO may develop an approach to provide useful advice to Member States that want to improve access to treatments using orphan drugs. For this purpose, we would like to recommend the creation of a complementary WHO Model List for Orphan Medicines as an addition to the current EML. Furthermore, we aim to provide a framework for analysing future questions surrounding the selection of "essential orphan medicines", or "rare essentials".

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- Healthcare Priority Setting
- European Commission Public Health Program
 - 2003/2008 v 2008/2013
- WHO "Essential" Medicines List
- Linkage with Neglected Diseases Initiatives
- Local Manufacture of Orphan Drugs

Considerations for Tomorrow's Orphan Drug Policies (cont.)

#4) Role of International Collaboration

**Department of Health and Human Services
Food and Drug Administration**
**COMMON EMEA / FDA APPLICATION FOR
ORPHAN MEDICINAL PRODUCT DESIGNATION**

Form Approved
OMB Control Number: 0910-0167
Expiration Date: May 31, 2008
See OMB Statement on final page.

The sponsor of a medicinal product¹ for human use may desire to seek orphan designation of its medicinal product for use to diagnose, treat, or prevent a rare disease or condition from the European Commission in accordance with Regulation (EC) No 141/2000 of 16 December 1999 and Commission Regulation (EC) No 847/2000, and from the United States Food and Drug Administration (FDA) in accordance with section 526 of the Federal Food, Drug, and Cosmetic Act (FDCA) (21 U.S.C. 360bb). In such case, the sponsor may apply for orphan designation of the same medicinal product for the same use in both jurisdictions by using this common application form for its submissions to the European Medicines Agency (EMA) and the FDA.

The application may be submitted to the European Medicines Agency (EMA)² and to the FDA Office of Orphan Products Development³.

Note: The sponsor should consult the 'Guideline for the format and content of applications for designation as orphan medicinal products' (ENTR/6283/00) when completing this application. The application must be submitted to EMA. An application must also be submitted to the FDA in accordance with 21 CFR Part 316 et seq., irrespective of whether the sponsor is seeking orphan designation in the US or in the EU.

The sponsor must submit one original in paper (signed and dated) and two copies of the application or it may be submitted by electronic means (see 'Draft Guidance for Industry: Provisional Format for Orphan Drug and Humanitarian Use Device Designation').

THIS APPLICATION CONCERNS (Please check the appropriate box)

☐ An active substance not currently authorised^{4,7}

☐ An active substance currently authorised for another indication

☐ A potentially clinically superior medicinal product compared to an already authorised medicinal product for the same indication

Note: The sponsor may apply for orphan designation of a medicinal product for a new orphan indication of an already authorised medicinal product for a new orphan indication of a medicinal product containing the same active substance as an already authorised medicinal product from FDA, if it can present a plausible hypothesis to support such hypothesis to this end, the sponsor must append information to support such hypothesis to this end. The sponsor is the holder of an existing marketing authorisation in the US or in the EU. The sponsor should provide details of the currently authorised indication granted.

¹ The term "medicinal product" is used in this document in place of the word "drug" as defined in 21 CFR Part 316 without any intention to alter its regulatory meaning.
² See <http://www.emea.europa.eu/>
³ See <http://www.fda.gov/orphan/>
⁴ The word "application" is used in this document in place of the word "request" without any intention to alter its regulatory meaning.
⁵ See <http://www.fda.gov/orphan/resub.htm>
⁶ The term "active substance" is used in this document in place of the term "active ingredient" and "principal molecular structural features" (if the medicinal product is a large molecule) without any intention to alter their regulatory meaning.
⁷ The word "authorised" is used in this document in place of the word "approved" without any intention to alter its regulatory meaning.

COMMISSION OF THE EUROPEAN COMMUNITIES
Brussels, 20.6.2006
SEC(2006) 832

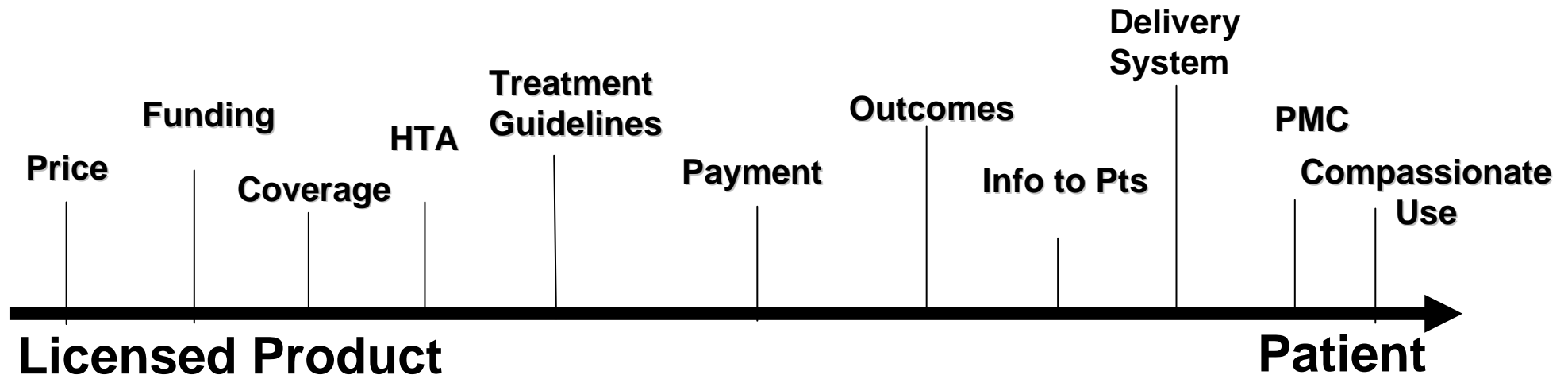
COMMISSION STAFF WORKING DOCUMENT
on the experience acquired as a result of the application of Regulation (EC) No 141/2000 on orphan medicinal products; and account of the public health benefits obtained
Document on the basis of Article 10 of Regulation (EC) No 141/2000

EN EN

- Global Rare Disease Community
 - Multi-stakeholder
- Common Designation Application Pathway
- Common Language
 - WHO ICD Initiatives
- Common Purpose
- Sharing of Best Practice

Considerations for Tomorrow's Orphan Drug Policies (cont.)

#5) Orphan Drug Designation in the Access Equation (Part II)



- How could Orphan Drug Status apply in this policy environment?
 - Short term: “Chance for Life”
 - Long term: Linking innovation to access / Sustainability

Summary

- Orphan Drug Policies have made a significant impact in the lives of patients with rare diseases
- Biotechnology has played an important role
- Access equation is only partially addressed
- Tomorrow's Orphan Drug Policies should
 - Keep rare disease patients as the primary focus
 - Apply OD status in entire access equation
 - Be interconnected with global public health priorities
 - Leverage 25 years of policy-making experience
 - Preserve and value innovation
 - Encourage international collaboration

Thank You

