

# **APEC Life Sciences Innovation Forum**

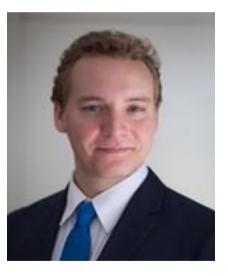
Enhancing Innovative Healthcare Financing in Pursuit of Strong and Resilient Health Systems: Financing Solutions for Durable Cures

> October 28, 2021 8:00 am EDT / 2:00 pm CEST / 7:00 pm ICT/WIB 8:00 pm HKT/SGT/CST/PHST / 9:00 pm JST/KST



# **Eric Obscherning**

Associate Director C&M International



Enhancing Innovative Healthcare Financing in Pursuit of Strong and Resilient Health Systems: Financing Solutions for Durable Cures



## **Mark Trusheim**

Strategic Director & Visiting Scientist, Sloan School of Management, Massachusetts Institute of Technology



Enhancing Innovative Healthcare Financing in Pursuit of Strong and Resilient Health Systems: Financing Solutions for Durable Cures

APEC Life Sciences Innovation Forum

#### NEWDIGS

# FoCUS

Financing and Reimbursement of Cures in the US

# Financing Solutions for Durable cures

28 October 2021

Mark Trusheim

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MIT CENTER FOR BIOMEDICAL INNOVATION

Massachusetts Institute of Technology



# FoCUS: Sustainable Access for Durable Therapies via Downstream Innovation >90 organizations & 350 individuals engaged







# Focus of FoCUS: An MIT NEWDIGS Consortium

On—

Creating precision financing solutions

#### Not on— Setting value or

Setting value or price



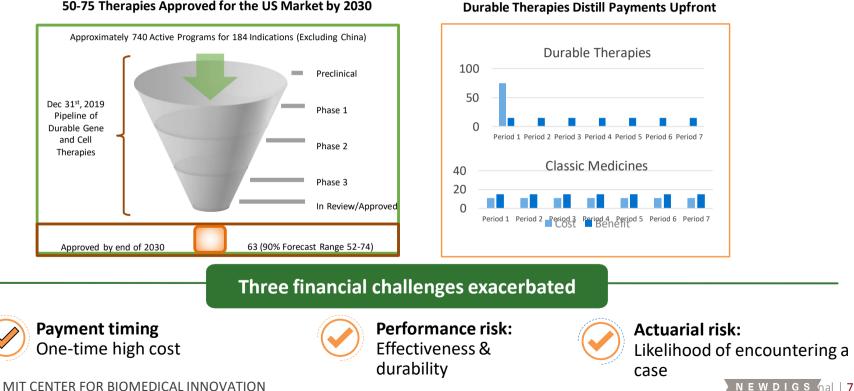




# FoCUS

# **Emerging Durable Therapies Driving New Payment Models**

50-75 Therapies Approved for the US Market by 2030



#### **Patient Impact of Regenerative Medicine**

40% of patients with R/R DLBCL treated with **CAR-T** Threapy experienced a complete response

#### **60%** of patients with R/R B-Cell ALL treated with CAR-T Therapy experienced a complete response

# 58%

of patients with R/R B-Cell NHL treated with CAR-T Therapy experienced a complete response

# 55% of patients treated with **Gene Therapy** showed an improvement of 2+ light

levels darker after treatment









# **Precision Financing Solutions To Meet The Challenges**







Orphan Reinsurer and Benefit Manager (ORBM) and Risk Pools Multi-year performance-based annuities



Warranty Model



Subscription Model





# **Performance-based Annuities Address the Three** Challenges Payment Timing: Match payments to cost avoidance

- Performance Uncertainty: Effectiveness & Durability
- Actuarial Uncertainty: partial patient level reinsurance on demand •



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# FoCUS

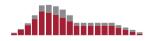
# Performance-Based Annuities Address More than Outcomes Uncertainty



**Payment timing** One-time high cost

**Surges Smoothed** 



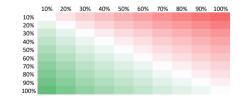


#### The three financial challenges



Performance risk: Effectiveness & durability

Pay for value actually received not *a priori* estimated value





Actuarial risk: Likelihood of receiving a case

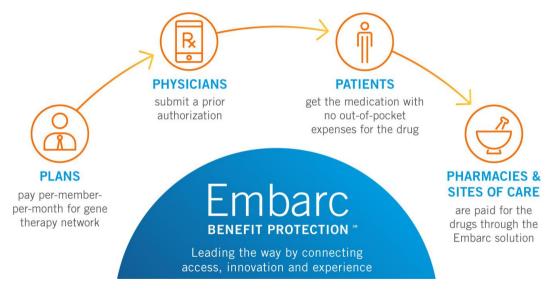
**Volatility Reduced** 



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# FoCUS

# US Insurer Cigna Offering ORBM-Lite: Embarc



**Beginning with 2 Gene Therapies** 

al | 12



# All Approaches Must Address US Issues

- Patient mobility and performance data collection
- Risk sharing
  - Participation or exclusion of providers
  - Interaction with reinsurance and stop-loss insurance
- Legal & Regulatory
  - Medicaid drug price reporting and rebate need adapting to multi-year performance structures
  - Anti-Kickback Statute to define explicit safe harbor
  - FDA communication guidelines to enable appropriate performance metrics Clinical trial endpoints often not practical for clinicians or present in data systems





NEWDIGS

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# **No Perfect Precision Financing Designs Yet Created**



# **FoCUS Open Resources**

# FoCUS

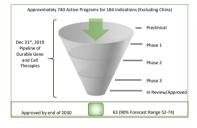
## Go to: Https://payingforcures.MIT.edu

#### **Research Briefs and** Peer-Reviewed Publications



Unique Gene and Cell Therapy **Pipeline Impact Modeling** 

#### 50-75 Therapies Approved for the US Market by 2030



#### **Public Speaking Engagements**

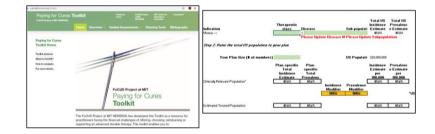
#### Speaking Engagements

#### o Jan 29 MassBio Policy Breakfast (M. Trusheim: Boston

- o Feb 6-7 Blue Cross Blue Shield Association / Aspen Institute (M. Trusheim; DC
- o Eeb 7 ovation Summit (D. Rollman; Orlando)
- o Feb 13 TBD - Milken Institute FasterCures Workshop (M. Trusheim: DC
- o Feb 21 American Society for Transplantation and Cellular Therapy (ASTCT)/CIBMTRTCT Meeting (Trusheim: Orlando)
- Mar 23-25 Medimpart 2020 (J. Barlow: Dan Mytelka - Carishad CA)
- o Mar 30-Apr 2 lanson-Wade 4th Annual Gene Therapy for Rare Disorders (M. Trusheim: Boston)
- April 7-9 Illiance for Healthcare Research and Quality? (AHRG) (M. Trusheim: LA)
- o April 15-16 Eve for Pharma Philadelphia 2020 (M. Trusheim: Philadelphia
- o April 21 National Cooperative Rx Annual Meeting (J. Barlow: Madison, WI
- o Mav1 Terrapin World Orphan Drug Congress (M. Trusheim: DC/MD) o TBD
  - Mellon Financial 'Double Take' Podcast (D. Mytelka)

NEWDIGS Initiative - MIT Center for Biomedical Innovation - CONFIDENTIA

#### On-line Toolkit to Educate and Support **Practitioners Developing Financing Solutions**



#### Educational Events



#### Design Labs



NEWDIGS



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## **Dino Sepulveda**

Head of Department of HTA and Evidence-Based Medicine, Ministry of Health, Chile;

**Executive Secretary, Ministerial** Advisory Commission on Rare Diseases



Enhancing Innovative Healthcare Financing in Pursuit of Strong and Resilient Health Systems: Financing Solutions for Durable Cures



# • Risk-sharing agreements:

• The experience of the 4th decree of the Ricarte Soto Law

# Content

- Introduction
- Taxonomy
- RSA in the evaluation process in 4th Decree of Ricarte Soto Law
- RSA in technologies prioritised in 4th Decree of Ricarte Soto Law
- Barriers to implementation
- Endpoints

- What is a risk-sharing agreement (RSA)?
- An agreement between a provider [pharmaceutical company] and a payer/provider that allows access (coverage and reimbursement) to a health technology under certain conditions.
- These contracts have the potential benefits of allowing early access to technologies for patients and reducing uncertainty about their use's effectiveness, cost-effectiveness, and financial impact under real-world conditions.
- They are also referred to as Entry Management Agreements, Patient Access Schemes, Evidence-Based Coverage, etc.

# Taxonomy of risk-sharing agreements

### Financial type Population:

- Price discount
- Price associated with volume
- Price associated with participation
- Portfolio agreement
- Capping

# By Individuals:

- Discount on start of treatment
- Limit of use per patient
- Fixed cost per patient

## **Clinical Outcomes**

## Assurance for results:

- Conditional continuation of treatment
- Price linked to results

Hybrids

- Guaranteed reimbursement

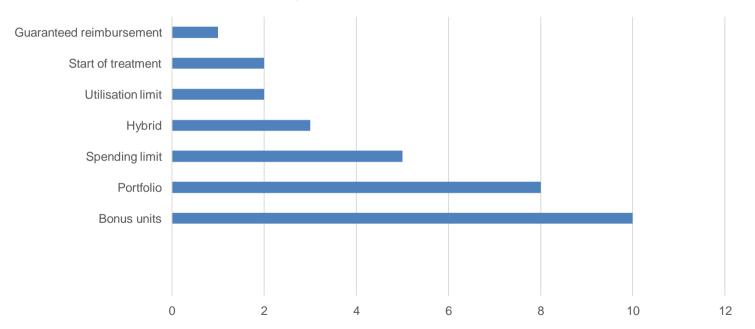
Coverage conditional on development of evidence Patient eligibility + registration

Courtesy of Mr. Sergio Poblete, on the basis of Poblete (2020)

# Risk-sharing agreements - Evaluation process 4th LRS decree

- The number of drug intention-of-price letters received for the fourth LRS decree was **103** from 32 different suppliers, covering 62 drugs.
- 70 of the quotations (68%) considered price discounts or other types of RSA.
- 65 quotations were submitted with discounts.
- There were 31 RSA proposals (other than price discounts) (28%).

Types of risk-sharing agreements Evaluation process of the 4th LRS Decree



Courtesy of Mr. Sergio Poblete, on the basis of Poblete (2020)

# Limitation of Risk-sharing agreements implementation



#### Public procurement law

Within the Public Procurement Act framework, certain agreements such as portfolio or volume-related price agreements cannot be implemented.

The inertia of the purchasing process

Implementing risk-sharing arrangements involves changing the basis on which medicines are traditionally procured.

#### Purchasing logic

The purchasing entity (CENABAST) operates by centralising and aggregating demand. Risk-sharing agreements require modifying this modus operandi.

#### Information systems

The public health system does not have global clinical registry systems to monitor the evolution of clinical outcomes.

#### Non-understanding of benefits

Most public sector actors see these initiatives as a way for the industry to hide prices. As a result, there is no appreciation of budgetary benefits or of paying for health effects in practice.

#### Lack of skills

International experience shows that risk-sharing arrangements are complex in terms of design and implementation, requiring specialised technical teams to carry them out.

Courtesy of Mr. Sergio Poblete, on the basis of Poblete (2020)

# • Key points

- The experience of the 4th LRS decree is pioneering for the public health sector in terms of risk-sharing agreements.
- Laboratory proposals are mainly financial, conditioned by the feasibility of implementation and technologies with high budgetary uncertainty.
- International experience indicates that ARC requires a proactive role of the public funder/payer (selective).
- There is no "gold standard" risk-sharing agreement. It will depend on health technology and uncertainty.
- The main challenge is to move forward in the area of implementation.
- It requires the generation of competencies within the public health system that allow the formulation of this type of contract and the development of specific infrastructure (information systems) that will enable the monitoring and follow-up of this type of agreement.

# • References

Grimm, Sabine, et al. "Framework for analysing risk in health technology assessments and its application to managed entry agreements." *Sheffield: University of Sheffield* (2016).

Antonanzas, Fernando, et al. "The use of risk-sharing contracts in healthcare: theoretical and empirical assessments." *PharmacoEconomics* 37.12 (2019): 1469-1483.

Poblete, Sergio. "Acuerdos de riesgo compartido para medicamentos de alto costo en Chile." *Revista Estudios de Políticas Públicas* 6.2 (2020).

Ricarte Soto Law, Chile: <u>https://leyricartesoto.minsal.cl/#/articulos/informacion-por-decreto</u>/





## **Goffredo Freddi**

Executive Director, Policy & Communications at MSD Italy



Enhancing Innovative Healthcare Financing in Pursuit of Strong and Resilient Health Systems: Financing Solutions for Durable Cures

# The Fund for Innovative Drugs: the Italian experience

Goffredo Freddi Executive Director Policy & Communication MSD Italy

October 28th 2021



# Overview

For more than a century, we have been inventing to solve some of the greatest challenges to people's health and well-being around the world

#### Businesses

Prescription medicines, vaccines, biologic therapies, animal health products

#### 2020 revenues

\$48 billion; 56% of sales come from outside the United States

16.7K

development

422M

people reached through our major programs and partnerships

\$3.1B

total philanthropy in 2019



**Merck & Co., Inc.** This is our legal name and is listed on the New York stock exchange under the symbol "MRK"

\$13.6B

invested in R&D in 2020

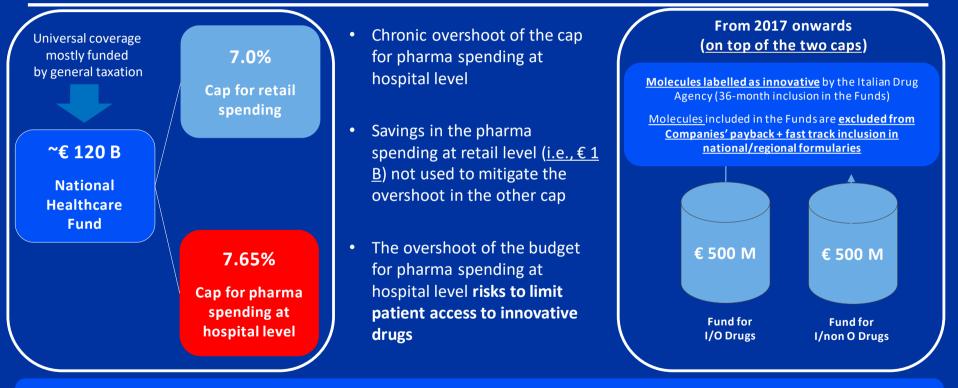


Our giving



# How public pharmaceutical spending is currently funded in Italy?

The creation of the Funds for Innovative Drugs (2017)



To be labelled as innovative, the drugs must prove an important therapeutic need, therapeutic added value and quality of evidence

# How does the Drug Agency evaluate whether a drug is innovative or not?

1.	<b>Therapeutic need (maximum/Important)</b> - absence/limited therapeutic options			
2.	<b>Therapeutic value added (maximum/Important)</b> - > efficacy demonstrated on clinically relevant outcomes	<ul> <li>Image: A start of the start of</li></ul>		
3.	<b>Quality of evidence (High/Medium)</b> - trials and mature OS data as major drivers			
		FULL INNOVATION • No Payback • Fast access to hospital formularies	CONDITIONAL INNOVATION • Fast access to hosp.ital formularies	NO INNOVATION

Two major changes from the creation of the Funds:

- 3-year inclusion in the Fund granted to therapeutic indications rather than to the single molecule
- The Funds, originally foreseen for the 2017-2019 period, are now structural

# Did the Funds for Innovative Drugs prove to be an <u>effective</u> measure?

 The evaluation on the effectiveness of the Funds for Innovative Drugs must meet two primary endpoints The **rate of** availability, measured by the number of medicines available to Italian patients, and the **time to** availability, measured by the days between EMA MA and the date of availability to Italian patients

The overall affordability of the Italian Healthcare System

# **Focus on Innovative Oncology Drugs**

IQVIA "Patients W.A.I.T. Indicator 2020 Survey" (April 2021)

The **rate of availability**, measured by the number of medicines available to patients in European countries as of 2020. For most countries this is the point at which the product gains access to the reimbursement list



# **Focus on Innovative Oncology Drugs**

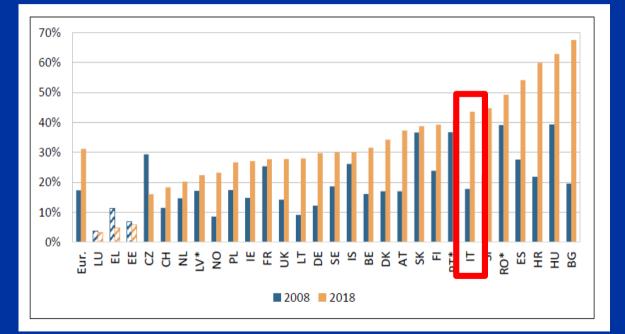
IQVIA "Patients W.A.I.T. Indicator 2020 Survey" (April 2021)

The **time to availability** (previously know as length of delay) is the days between EMA marketing authorisation and the date of availability to patients in European countries



# Did the Funds contribute to the affordability of the Italian NHS?

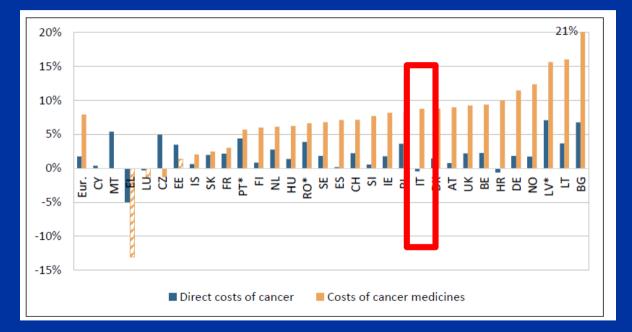
"Comparator Report on Cancer in Europe 2019 – Disease Burden, Costs and Access to Medicines" (IHE)



 According to the findings of the study, Italy is among the countries with the highest increase of the spending on oncology drugs (direct costs) in the 2008-2018 period

# Did the Funds contribute to the affordability of the Italian NHS?

"Comparator Report on Cancer in Europe 2019 – Disease Burden, Costs and Access to Medicines" (IHE)



 At the same time, Italy is the only country which, while increasing the spending on oncology drugs, decreased the overall healthcare spending for oncology patients in the 2008-2018 period, thus contributing to the overall affordability of the Italian NHS

# Latest changes in the Funds for Innovative Drugs



Approvato emendamento che unifica i due fondi per farmaci #innovativi, #oncologici e non. Il sistema sanitario riorganizza e ottimizza l'accesso all'#innovazione. Questo è il primo passo. Bisogna aumentare il fondo e adeguare periodicamente autorizzazioni delle nuove molecole.

PARMACE INNOVATION
MARTINE CONTRACTOR STATES ST

July 2021: One single Fund (€ 1 B) for Innovative Drugs Non binding Parliament opinion – backed by the Italian Ministry of Economy – asking the Government to **increase the financial allocation for the Fund for Innovative Drugs** 

July 2021

#### Italy to increase resources for innovative drugs

APM - Italy is planning to increase resources for drugs recognised as innovative in a €6 billion boost to national health funding over the next three years.

Ministers approved the 'Draft Budgetary Document for 2022'.

On healthcare, it was announced that, compared with 2021, the National Health Fund will be increased by €2 billion each year until 2024. New resources will be allocated to the fund for innovative drugs and for spending on vaccines and drugs to contain the Covid-19 pandemic

October 2021



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# **Questions?**