













Risk Sharing Agreements for Health Technology Assessment in the Brazilian National Health System

The experience in Catalonia

Marta Roig, Joaquim Delgadillo Medicines Area, Catalan Health Service

The Catalan Health System

Spanish Healthcare System Funding

National Health Service (Sistema Nacional de Salud, SNS)



Ministry of Health responsible for healthcare policy

Regions responsible for healthcare provision and funding

- 17 autonomous communities
- Responsible for healthcare resource allocation and budget planning, healthcare service planning, health technology assessment

MAIN principles

- Decentralized system
- Universal and equal access to healthcare

Catalan Health Service



Catalan Health Service - CatSalut

- Universal coverage and free at the point of use
- Funded by taxes
- Multi-provider system
- Relationship between Catalan Health Service (public insurance) and providers contractually full accounted (health objectives, activity, economic amount, rate [pricing], invoicing system, evaluation system). Providers have the duty to share information with both CatSalut and other providers

Some data on Catalan Health Service

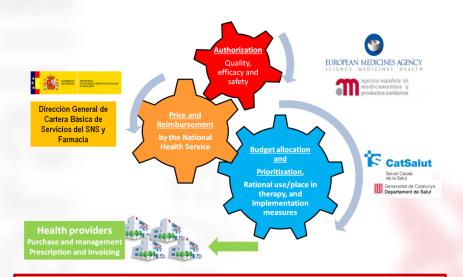






*www.hacienda.gob.es/es-ES/CDI/Paginas/EstabilidadPresupuestaria/InformacionAAPPs/Indicadores-sobre-Gasto-Farmac%C3%A9utico-y-Sanitario.aspx

Medicines access in Catalonia



- Authorization and P&R at national level
 - P&R supported by national reports on therapeutic positioning
 - Reports coordinated, contributions of 17 regions
- P&R decision binding for all regions



- Budget allocation
- Therapeutic positioning
 - Pharmacotherapeutic Harmonization Program: technical appraisal
 - Catalan Pharmacotherapeutic Committee
 - Prioritization and clinical criteria for use
 - Invoicing system and requirements
 - Managed access: RSA
- Patient and treatment registry (RPT)
 - Tool for implementation (outpatient hospital medicines)
 - Real world data collection and analysis

Key driver RSA in Catalonia



Catalonia's Health Plan: Management centered on health results



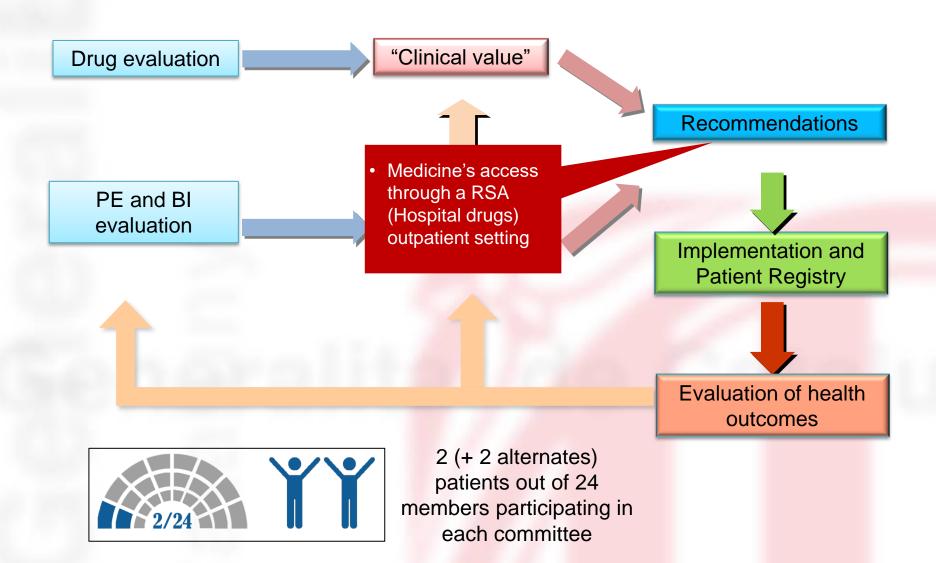


Project 5.3.
Procurement and financing of medicines based on results

Project 5.5.

Assessment of medicines use based on health results

Pharmacotherapeutic Harmonization Program



Guidance documents

GUÍA Y RECOMENDACIONES
PARA LA REALIZACIÓN Y PRESENTACIÓN
DE EVALUACIONES ECONÓMICAS
Y ANÁLISIS DE IMPACTO PRESUPUESTARIO
DE MEDICAMENTOS
EN EL ÁMBITO DEL CATSALUT

OCTUBRE 2014





Versión 1.

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https://catsalut.gencat.cat/web/.content/minisite/catsalut/proveidors_professionals/medicaments_farmacia/farmaeconomica/caeip/documents/gaeip_publica_castellano_octubre2014_catsalut.pdf

GUÍA PARA LA DEFINICIÓN DE CRITERIOS DE APLICACIÓN DE ESQUEMAS DE PAGO BASADOS EN RESULTADOS (EPR) EN EL ÁMBITO FARMACOTERAPÉUTICO (ACUERDOS DE RIESGO COMPARTIDO)

> MAYO 2014 Versión 1.0

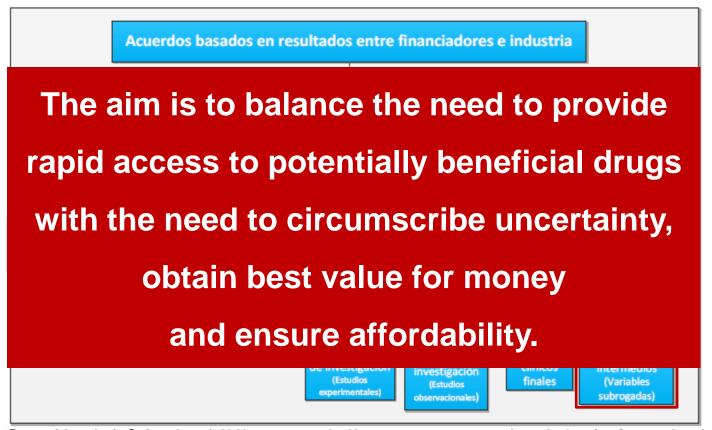




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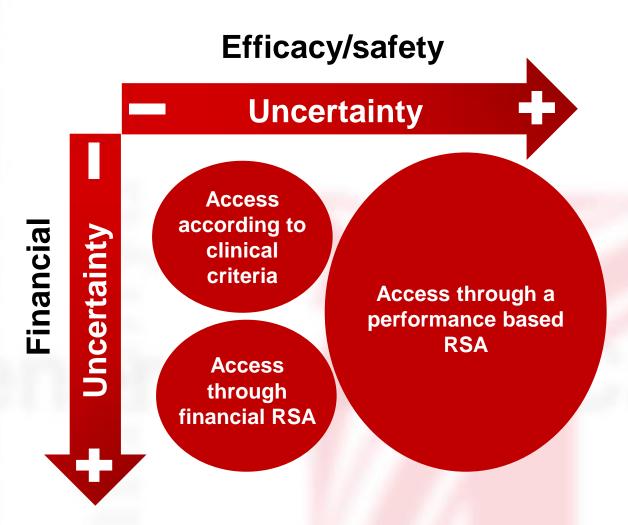
Taxonomy RSA

Figura 1. Tipologías de ARC



Fuente: Adaptado de Carlson J, et al. Linking payment to health outcomes: a taxonomy and examination of performance-based reimbursement schemes between healthcare payers and manufacturers. Health Policy 2010, 96: 179-190

Managing uncertainty



https://catsalut.gencat.cat/web/.content/minisite/catsalut/proveidors_professionals/medicaments_farmacia/acords-risc-compartit/guia_epr_castellano_1.0.pdf

Risk Sharing Agreements in Catalonia

Pilot RSA experience in Catalonia

JOURNAL OF MEDICAL ECONOMICS, 2016 http://dx.doi.org/10.1080/13696998.2016.1215991 Article 0038.R2/1215991 All rights reserved: reproduction in whole or part not permitted



ORIGINAL RESEARCH

Financial consequences of a payment-by-results scheme in Catalonia: gefitinib in advanced EGFR-mutation positive non-small-cell lung cancer

Ana Clopes^a, Montse Gasol^b, Rosana Cajal^c, Luis Segú^d, Ricard Crespo^a, Ramón Mora^b, Susana Simon^c, Luis A Cordero^c, Candela Calle^a, Antoni Gilabert^b and Josep R Germà^a

^aCatalan Institute of Oncology, Barcelona, Spain; ^bCatalan Health Service, Barcelona, Spain; ^cAstraZeneca, Madrid, Spain; ^dOblikue Consulting, Barcelona, Spain

ABSTRACT

Background: In 2011 the first payment-by-results (PbR) scheme in Catalonia was signed between the Catalan Institute of Oncology (ICO), the Catalan Health Service, and AstraZeneca (AZ) for the introduction of gefitinib in the treatment of advanced EGFR-mutation positive non-small-cell lung cancer. The PbR scheme includes two evaluation points: at week 8, responses, stabilization and progression were evaluated, and at week 16 stabilization was confirmed. AZ was to reimburse the total treatment cost of patients that failed treatment, defined as progression at weeks 8 or 16.

Objective: To estimate the financial consequences of this PbR reimbursement model and determine the perception of the stakeholders involved in the agreement

Methods: Differential drug costs between two scenarios, with and without the PbR, were calculated. A qualitative investigation of the organizational elements was performed by interviewing the parties involved in the agreement.

Results: Forty-one patients were included from June 2011 to October 2013 and assessed at two evaluation points. Clinical results were comparable to those observed in the pivotal studies of gefitinib. The difference in the cost of gefitinib using the PbR compared to the traditional purchasing scenario was 6.17% less at 8 weeks, 11.18% at 16 weeks and 4.15% less for the overall treatment. The PbR resulted in total savings of around €36,000 (€880 per patient). From an operational and organizational perspective, the availability of adequate data systems to measure outcomes and monitor accountability and the involvement of healthcare professionals were acknowledged as crucial.

Conclusions: Tangible and intangible benefits were identified with respect to the interests of the parties involved. This has led to the incorporation of innovation for patients under acceptable conditions.

ARTICLE HISTORY

Received 19 March 2016 Accepted 19 July 2016 Published online 3 August 2016

KEYWORDS

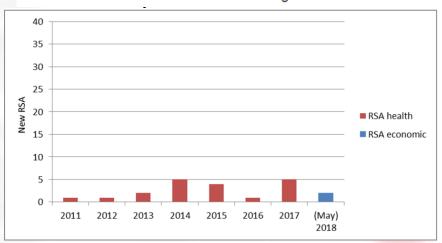
Catalonia; Financial consequences; Oncology; Payment by results

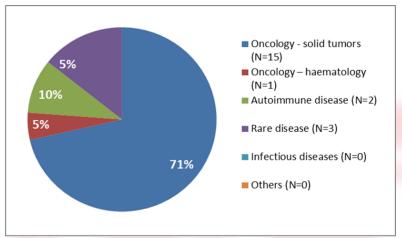
Pilot RSA experience in Catalonia

COMPARING RISK SHARING AGREEMENTS IN CATALONIA WITH OTHERS EU COUNTRIES

Guarqa L¹, Fondevilla E¹, Pastor M¹, Roig M¹, Cirera J¹, Llop C¹, Alonso E¹, Obach M¹, Fontanet M¹, Gasol M¹, Zara C¹, Pontes C¹
Delgadillo J¹

¹Drug area in the Catalan Health Service (CatSalut)







Catalonia implemented 20 local RSA between January 2011 and May 2018, 86% were based on health outcomes and 14% on economic outcomes.

PHP23 - COMPARING RISK SHARING AGREEMENTS IN CATALONIA WITH OTHERS EU COUNTRIES Guarga, L. et al. Value in Health 2018; Volume 21, S154

Extended Financial RSA

Therapeutic area	Drug Indication Laboratory		Laboratory	Start	Conditions
Respiratory				June 2018	Patient subgroup Volume discount
Nephrology				January 2018	Expenditure cap
Gastroenterology				March 2018	Expenditure cap
Oncology				April 2018	Selected indication Direct discount
				April 2018	Selected indication Direct dicount
				January 2019	Expenditure cap

Extended Performance based RSA

Therapeutic area	Drug	Indication	Laboratory	Start	Hospitals	Patients
<u>Onco-</u> hematology				April 2016	28	256
				March 2017	25	125
				March 2017	5	58
				March 2017	33	382
				June 2017	7	45
<u>Neurology</u>				March 2017	17	167

Key point - Patients and treatment registry

- Database that collects data of patients treated with hospital drugs.
 Mandatory for all hospitals.
- Designed in 2012, objectives:
 - Monitor the use of drugs linked to a diagnosis (basic information: indication & duration)
 - Find out the adherence to clinical criteria set by the Pharmacotherapeutic Harmonization Program → Guarantee the accomplishment of reports
 - Assess health outcomes

More than 500 indications registered (oncology, HIV, orphan drugs..)
More than 230.000 treatments
Almost 150.000 patients



Key point - Patients and treatment registry

Patient identification – age, sex, prescription center, ...

Treatment variable

- Start ATC code, indication, baseline characteristics, criteria of use, ...
- Follow up treatment duration, health outcomes



- Follow up and monitoring drug prescription
- Evaluation of health outcomes

Public reports

Analysis of RSA based on health outcomes



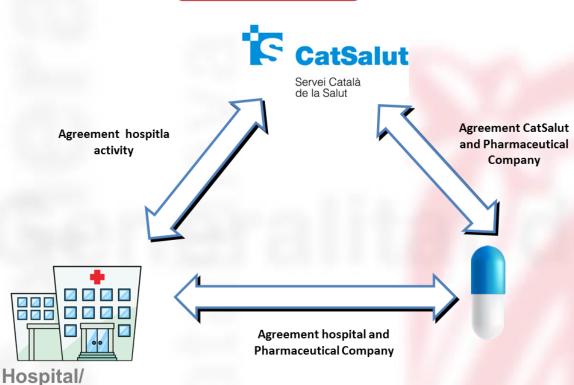
We use all of these for DECISION MAKING

Agreement process

Pharmacotherapeutic Harmonization Program



Providers



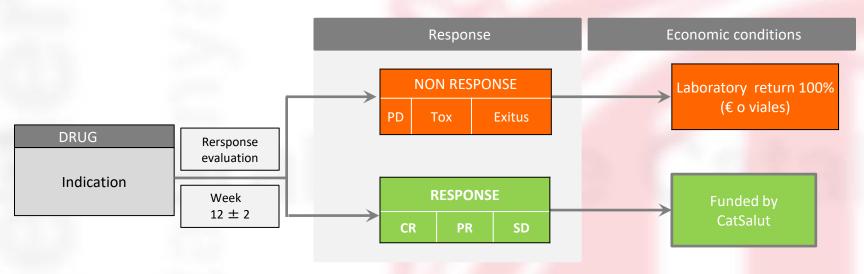


CONTRACT

Performance based RSA - SCHEME

✓ Clinical conditions:

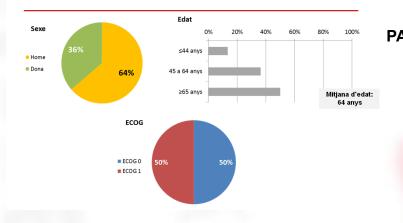
- ✓ Eligibility criteria defined by Pharmacotherapeutic Harmonization Program.
- ✓ Response evaluation: e.g., Oncology drug RECIST criteria at 12 ± 2 weeks
- ✓ Economic conditions
- ✓ Follow-up commissions: hospital-laboratory and hospital-laboratory-CatSalut



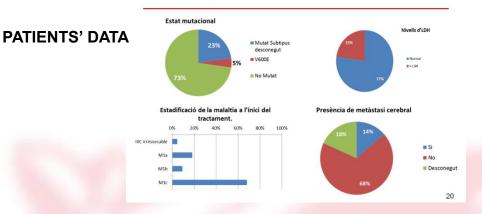
Criterios RECIST: complete response (CR), parcial response (PR), stable disease (SD) o progressive disease (PD); *toxicity and stop

Performance based RSA – Shared results



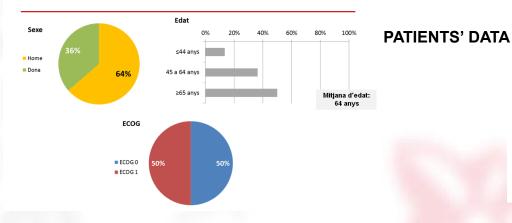


Característiques basals dels pacients (n=22) 1L i 2L (2/2)

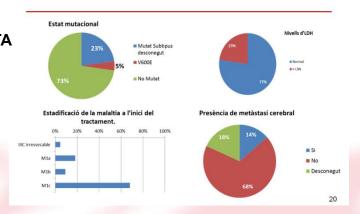


Performance based RSA – Shared results

Característiques basals dels pacients (n=22) 1L i 2L (1/2)



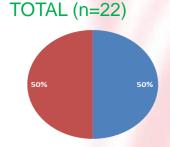
Característiques basals dels pacients (n=22) 1L i 2L (2/2)

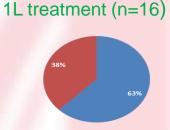


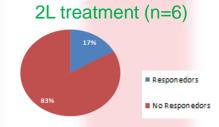
TOTAL 1L 2L

TOTAL patients	Response	Non Response	Non evaluable
22	11	11	0
16	10	6	0
6	1	5	0









Performance based RSA – Overview

Outcomes assessment

- Alignment between RSA and CT responses.
- Validation and approval from health professionals.

Implementation assessment

- Successful clinical management (e.g., follow-up meetings to ensure agreed conditions are met, effective stakeholder communication/engagement).
- Positive experience shared by health professionals.

Reports

- Confidential
- Overview of key highlights and results obtained by the RSA
- Shared with hospitals

Room for improvement

- Eligibility and follow-up criteria
- Timelines
- Better case analysis

Key considerations and recommendations

But before some thoughts...

It is really so expensive to develop a new drug?



Report of the United Nations Secretary-General's High-Level Panel on Access to Medicines. Promoting innovation and access to health technologies. September 2016

It is really so expensive to develop a new drug?

JAMA Internal Medicine | Original Investigation

Research and Development Spending to Bring a Single Cancer Drug to Market and Revenues After Approval

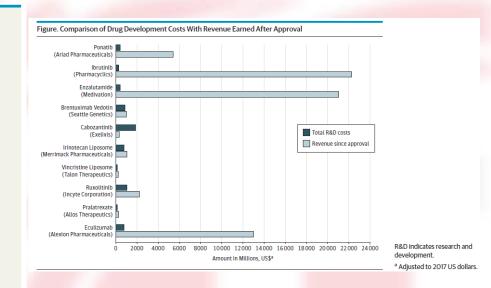
Vinay Prasad, MD, MPH; Sham Mailankody, MBBS

Key Points

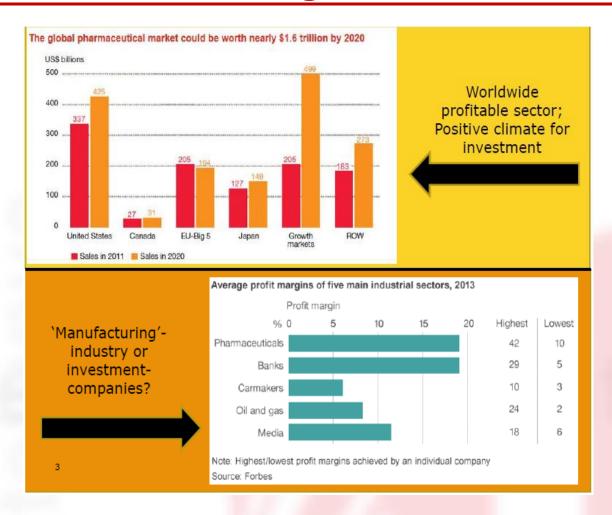
Question What is the estimated research and development spending for developing a cancer drug?

Findings In this analysis of US Securities and Exchange Commission filings for 10 cancer drugs, the median cost of developing a single cancer drug was \$648.0 million. The median revenue after approval for such a drug was \$1658.4 million.

Meaning These results provide a transparent estimate of research and development spending on cancer drugs and show that the revenue since approval is substantially higher than the preapproval research and development spending.



It is really so expensive to develop a new drug?



The Dutch Policy position Timely Access to innovative Drugs but with Affordable Prices
Dr. Marcel van Raaij, Dutch Ministry of Health.

Affordable Drugs Congress Cinderella and Inspire2Live, Amsterdam April 15th 2016

Managing uncertainty with RSA

Limiting budgetary uncertainty

- Financial agreements can be useful
 - Relatively simple tools, such as caps or price-volume agreements
 - Controlling budget impact on its own does not address uncertainty on value

Limiting uncertainty on evidence

- Performance-based agreements can be useful
 - Implementation of studies or registries may be complex and costly in practice
 - Reliability of data, missing data
 - Definition of effectiveness based on surrogates of unknown clinical relevance as in trials – uncertainty may persist
 - Results available too late useful to reverse decisions?

Management of stakeholders' expectations

- Unfeasibility to conduct further controlled clinical trials
 - Physicians' and patients' reluctance to enroll into randomized controlled studies if product is commercially available
- Thus, difficult to gather robust risk/benefit evidence
 - Bias of observational data (RWD), overestimation of effects
- Authorization reversal may be not feasible
 - Patients on treatment requiring continuation
 - Treatment availability becomes SOC
- Difficulties for pricing revisiting
 - Negotiation with MAH difficult since most eligible population already treated and product considered SOC

Recommendations for RSA



