

Innovative Access Solutions

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Disclaimer

This presentation reflects my own views, in particular, on possible access solutions for medicines and does not reflect the views of the government or any other organization or committee that I am affiliated with.

Outline

- ICON's approach
- Funding models
 - Patient access programmes
 - Risk sharing schemes
 - Outcomes models
 - Personalised medicines
 - Other models
- International experience
- Closing remarks

Just to be sure!

Presentation is about

RE-IMBURSEMENT

and NOT about

PRICING

Differential Pricing

Adapting drug prices to the **purchasing power** of consumers in different geographical or socio-economic segments could potentially be a very effective way to improve access to medicines for people living in low and middle-income countries.

Yadav, P (2010), Differential Pricing for pharmaceuticals

ICON's approach

- Cost awareness
- Costing of clinical protocols
- Funding by treatment intent
- Clinical pathways
- Multidisciplinary teams
- Rational use of medicines - EBM
- Pharmaco-economic evaluation

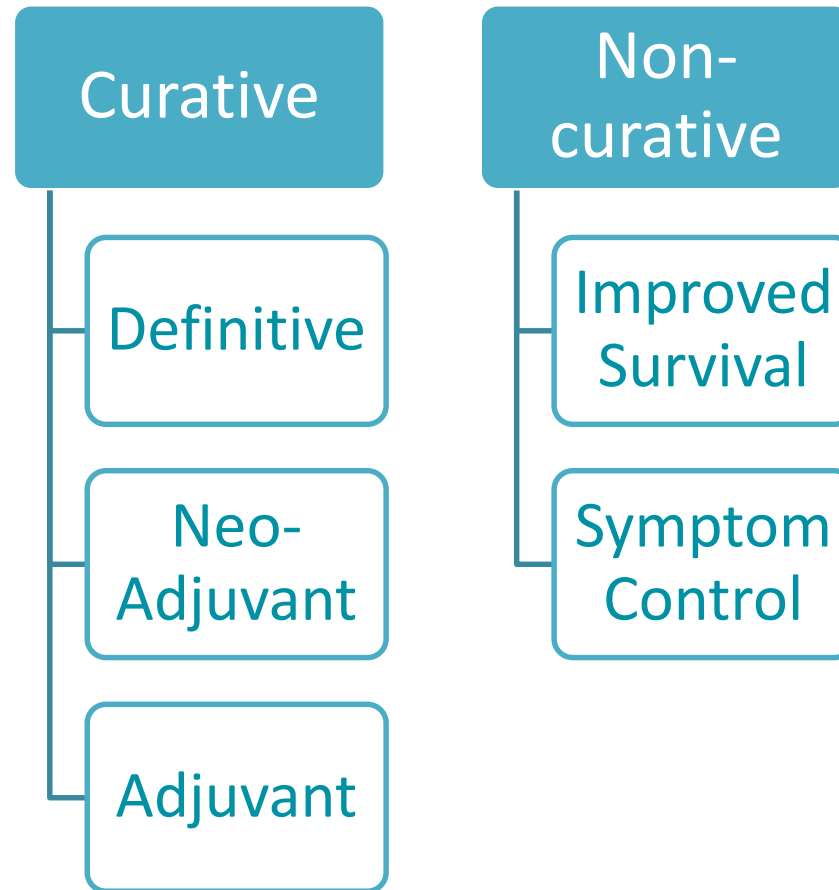
Drug costs for breast cancer curative intent- adjuvant - standard

	Total cost	Tariff cost	Drug cost	Utilization
AC (4)	R 16,534	R 12,656	R 3,878	14.4%
Classic CMF (6)	R 41,951	R 37,968	R 3,983	6.2%
TC (4)	R 46,027	R 12,656	R 33,371	4.9%
FEC100 (6)	R 31,482	R 18,984	R 12,498	9.6%
AC(4) + doce(4)	R 69, 318	R 25, 312	R 44, 006	19.5%
AC(4) + pacli weekly (12)	R 74,764	R 50,624	R 24,140	30.8%
FEC 100(3) + doce(3)	R 55,329	R 18,984	R 36,345	5.2%
FEC600/90/600(4)+ pacli weekly(8)	R 59,810	R 37,968	R 21,842	0.42%
Doce (3) Trastuzumab(9) FEC(3)	R160,082	R 28,476	R 31,606 R 97,164 <u>R 4,346</u> R 131 606	57.1% of Trastuzumab containing regimens

Drug costs for breast cancer curative intent - adjuvant – enhanced

	Total cost	Tariff cost	Drug cost	Utilization
Trastuzumab (18)	R 397,722	R 57,647	R 340,075	39.3%
Carbo/doce(6) Trastuzumab (6)	R249,168	R 20,346	R 58,784 R170,038	3.6%

Protocols driven by treatment intent



CLINICAL PATHWAYS

Clinical pathways are detailed, **evidence-based** processes for delivering cancer care for **specific patient** presentations, including the **state and stage** of disease. A regimen for treatment is specified, including the **names** of the drugs, **dosing** levels, and **schedule** for administration. Pathway users say that pathways reduce errors, reduce costs, and increase efficiency.

RATIONAL USE OF MEDICINES

Cost-effective medicines become cost-ineffective if used irrationally.

RATIONAL USE OF MEDICINES

Some approaches to improve the rational use of medicines:

- Evidence-based medicine
- Cost-effectiveness
- Clinical pathways
- Multi-disciplinary teams
- Centres of excellence

Funding models

- Price volume arrangements
- Patient access programmes (free drugs)
- Risk sharing schemes
- Why are these models not applied extensively in the private sector in SA?

Patient access programmes

Would you like to obtain free medicines now and in the future in the public and private sector?

Patient access programmes

Would you like to obtain free medicines under the current system in the private sector?

Patient access programmes

Formation of charitable programmes or trusts.

- Cover co-pays
- Free medicines

Patient access programme

Price /utilization capping:

- Free initiation of therapy
- costs covered by pharma if an accumulated dose is exceeded
- costs covered by pharma if certain number of cycles are exceeded
- additional medicines at no costs or a large discount is provided by pharma if a payer's budget is exceeded

Risk sharing

- Value-based pricing
- Conditional coverage
- Conditional re-imburement
- Coverage with evidence
- No cure no pay
- Health impact guarantee
- Outcomes guarantee
- Performance-based re-imburement

Risk sharing schemes

A risk-sharing agreement is a tool for manufacturers of biological medicines and payers to manage the risk of introducing clinically effective and very expensive medicines into the healthcare market.

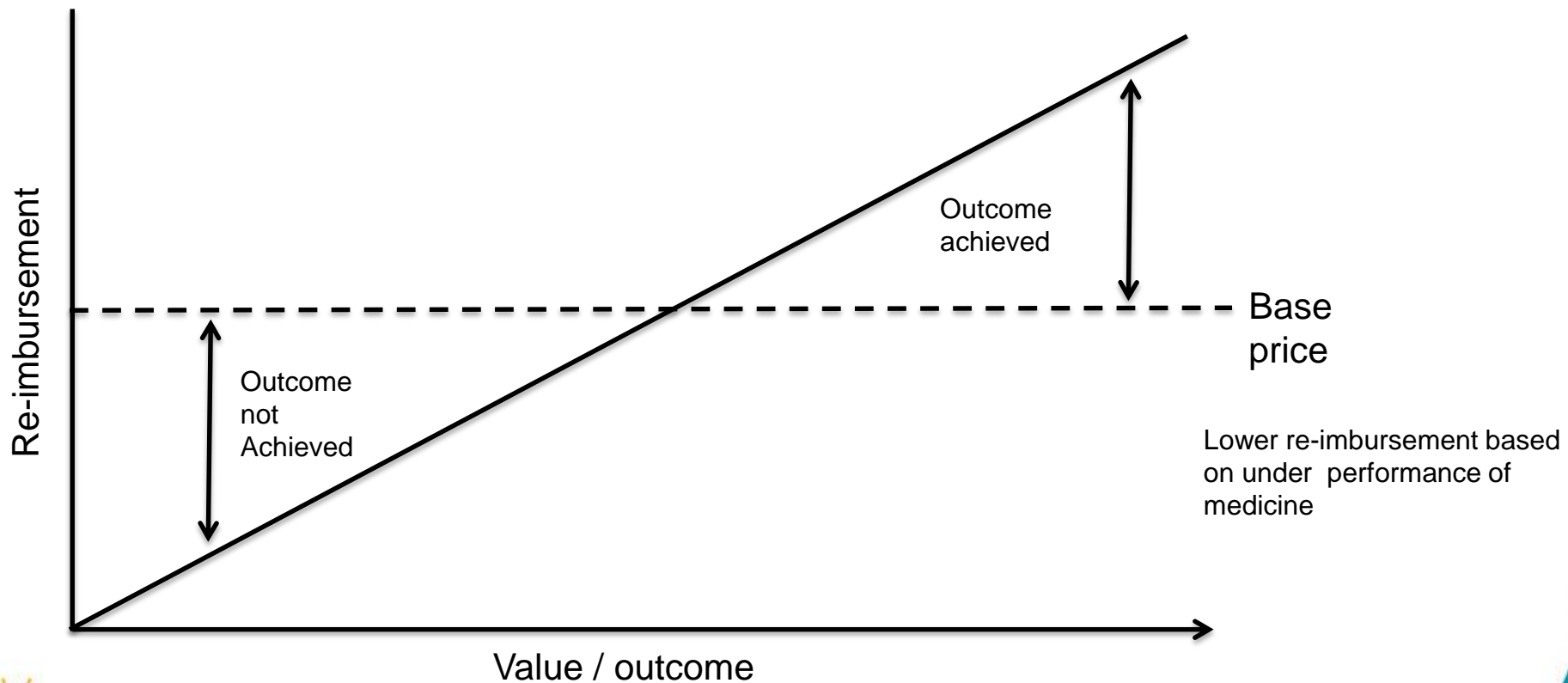
Risk-sharing agreements are particularly useful for costly drugs that have some degree of uncertainty associated with their clinical outcomes, and spread the risk between pharma and the payer.

Process by which two parties or more agree to share the risks associated with achieving a certain outcome.

Risk sharing schemes

- Financial based
 - price-volume arrangements / budget impact scheme
 - Based on payback mechanism
- outcomes/performance-based

Outcomes-based re-imbusement



Pros: outcomes-based model

- Improve access to new, innovative drugs
- Outcomes-based approach
- Localised cost-effective targets
- Build clinical experience with medicines
- Opportunities for partnership

Barriers: outcomes-based model

- SEP at launch could be set higher to compensate for risk
- early access to new medicines with as yet unproven efficacy and safety
- Funders may be funding an appreciable proportion of new drug's development costs
- Should not be a substitute for good clinical trials

Barriers: outcomes-based model

- specific objective outcomes for clinical measures not always in place.
- validated measurement tools
- burdensome administration (high costs)
- rules and conditions to participating providers
- ethics and confidentiality issues
- cost of managing therapeutic failures

Selection of medicines for outcomes-based model

Criteria:

- simple value-metrics to measure outcomes
- clearly defined outcomes
- medicines with high budget impact
- well-defined treatment population
- well-defined treatment duration

Re-imbbursement linked to benefits

Develop affordable benchmark for medicines per disease

Determine total costs as a reasonable cost for the treatment of a specific disease per year:

Lab tests

Medicines

Nursing

Facility

Hospital

Doctor

Determine a benchmark for medicine costs for the disease.

Determine a benchmark for medicine costs for the medical scheme benefit.

Personalised medicines

- re-imburement linked to genetic testing
- medicines can be tailored to specific cancers depending on molecular aberrations

Other funding considerations

- Re-imburement based on budget impact
- Pharmacoeconomic evaluation
- Carved out benefit for biologicals
- Vial sharing

International experience

Patient Access Schemes in the UK

Patient Access Schemes

Financially-based Schemes

The company **does not alter the list price** of the drug, but **offers discount or rebates** link to (i.e.):

- numbers or type of patients treated.
- Response of patients treated.
- numbers of doses required.

Outcome-based Schemes

Proven value:
Price Increase

The company seeks agreement to a **later increase in price** subject to a **re-review of the drug** in the light of **additional evidence** collection as agreed with NICE

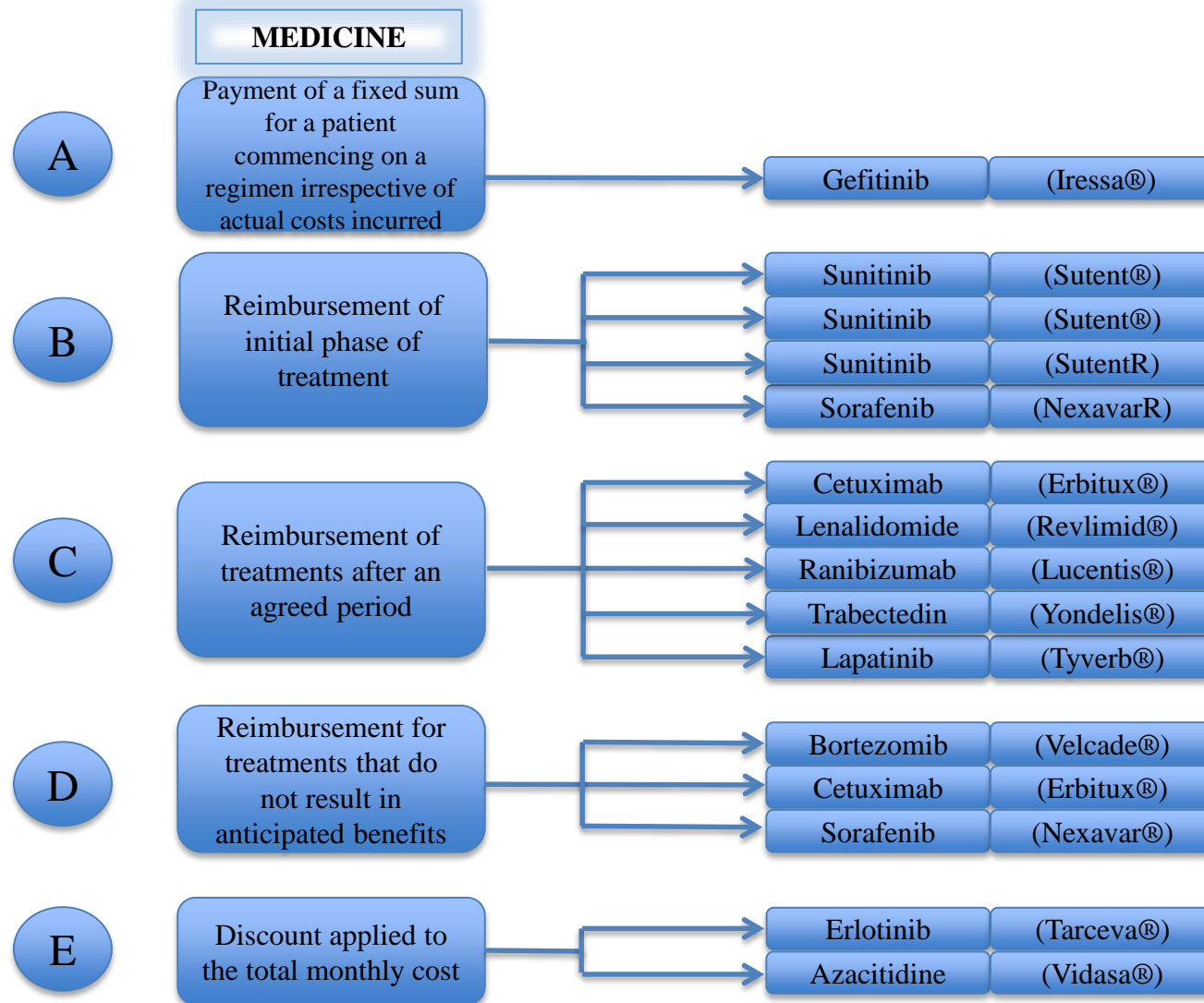
Expected value: Rebate

The company seeks agreement to a price subject to the collection of **additional evidence** as agreed with NICE. Such an arrangement will be subject to a **rebate and subsequent reduction in list price** in the event of the **additional evidence not supporting the current price**

Risk Sharing

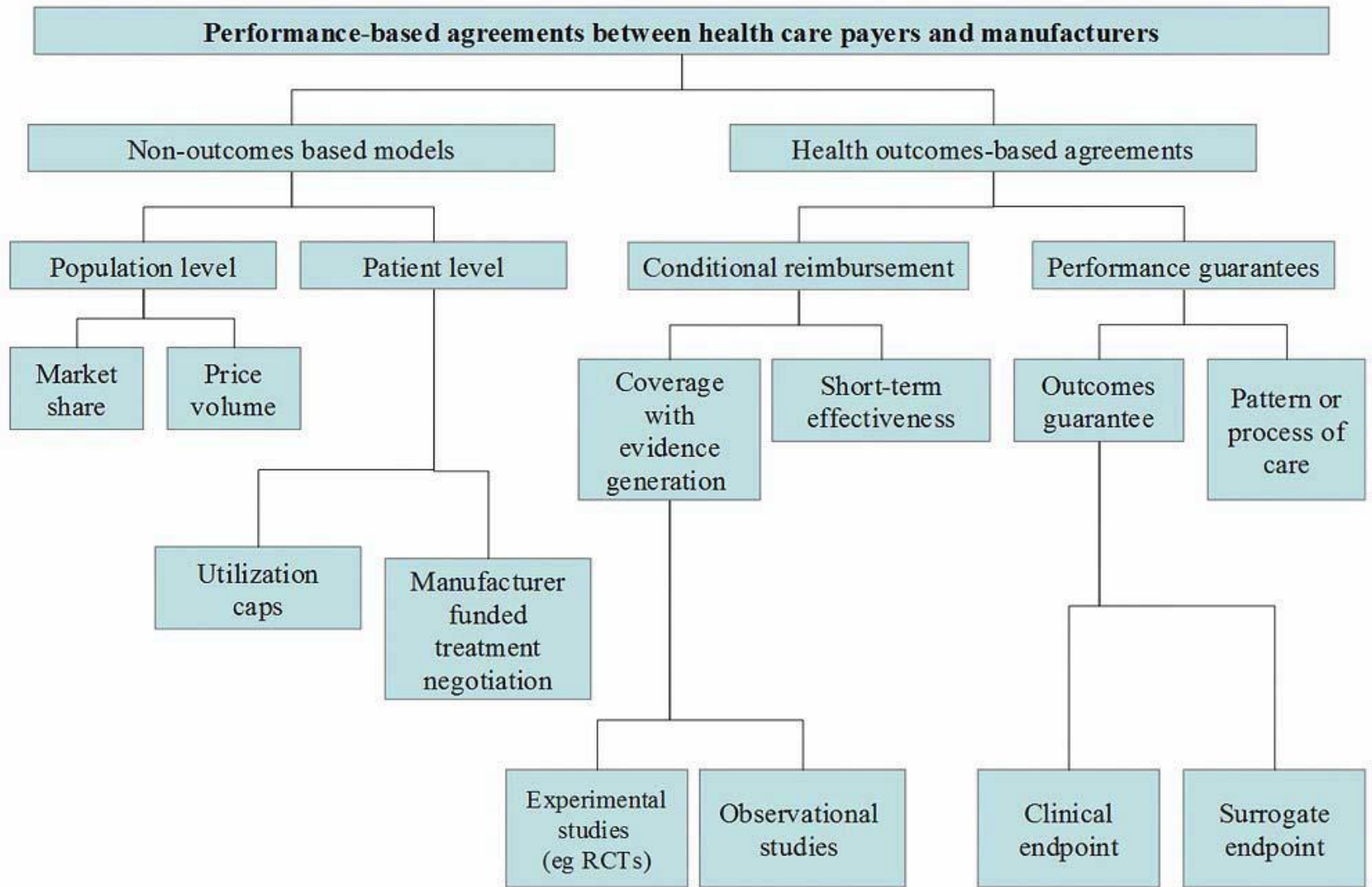
Outcomes are measured. Patient Reported Outcomes or clinical outcome measures and **price adjustments and/or cash transfers** are made in one or both directions (company and NHS) in the light of the outcomes identified

Oncology Patient Access Schemes in the UK

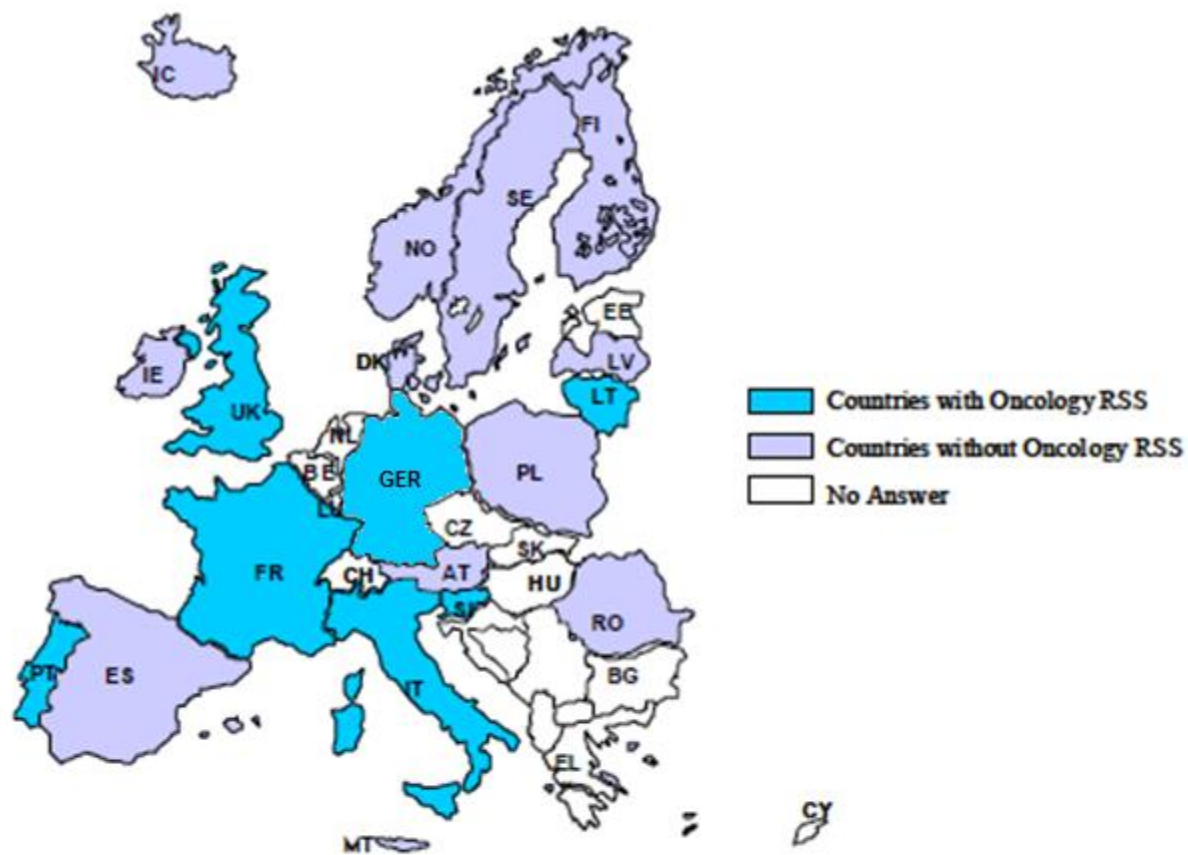


Financial Agreements in Portugal for Hospital Oncology Medicines

Brand Name	Active Ingredient
Sprycel	Dasatinib
Nexavar	Sorafenib
Revlimid	Lenalidomide
Lucrin Depot	Leuprorreline
Keloda	Capecitabine
Yolendis	Trabectadine
Litak	Cladribine
Vectibix	Panitumumab
Torisel	Temsirolimos
Evoltra	Clofarabine



Answers to the Online Survey



Source: EMINet online survey on RSS

Innovative Access Schemes in Italy for Oncology Medicines

Payment by results	Cost Sharing Scheme	Risk Sharing Scheme
<p>Dasatinib (Leukemia) – 2007</p> <p>Nilotinib (Leukemia) – 2008</p> <p>Temsirolimus (RCC) – 2008</p> <p>Sorafenib (HCC) – 2008</p> <p>Pegaptanib (AMD) – 2009</p> <p>Ranibizumab (AMD) – 2009</p> <p>Trabectedin (STS) – 2009</p> <p>Lapatinib (mBC) – 2009</p>	<p>Erlotinib (NSCLC) – 2006</p> <p>Sunitinib (RCC) – 2006</p> <p>Sorafenib (RCC) – 2006</p> <p>Bevacizumab – 2008</p> <p>Bortezomib (Myeloma) – 2009</p>	<p>Panitumumab (mCRC) – 2009</p> <p>Cetuximab (CRC) – 2009</p>

Description of RSS in Italy

Active Ingredient	Description	Date
Bortezomib	Cost-sharing scheme that requires manufacturers to pay back 50% of the treatment cost for all eligible patients during the first treatment.	2009-2011
Erlotinib	50% price reduction for the first two cycles of therapy.	2006-2011
Nilotinib	Manufacturers must assume all costs for the first month of treatment for non-responder patients.	2008-2011
Panitumumab	Risk sharing scheme that requires the manufacturer to pay-back 50% of the cost for non-responders (evaluation after 2 months of treatment).	2008-2011
Sorafenib	Treatment of advanced renal cell carcinoma: Risk sharing consisting of a 50% price reduction for the first 3 months of treatment. Treatment of hepatocellular carcinoma: Full price reduction for the first 2 months of treatment. Later reimbursed through credit notes for non-responders.	2009-2011
Sunitinib	50% price reduction for the first months of treatment.	2006-2011
Temsirolimus	The medicine is freely provided by the manufacturer for the first two months of treatment but only for non-responders.	2008-2011

Number of treated patient and causes for stop the treatment for some oncology drugs. Italy 2007

Oncology medicines	Number of treated patients	Patients that have finalised the treatment (%)	Causes of stopping the treatment				
			Stopping the treatment by clinical decision	Progression	Death	Toxicity	Other
AVASTIN®	1967	481 (24.5)	98	241	26	53	63
ELOXATIN®	2818	1127 (40.0)	683	44	5	299	96
ERBITUX®	1711	714 (41.7)	53	525	43	52	41
FASLODEX®	2853	778 (27.3)	4	654	66	16	38
GLIADEL®	130	44 (33.8)	27	3	4	0	10
ZEVALIN®	184	51 (27.7)	47	0	0	0	4
TARCEVA®	3338	1040 (31.2)	5	603	265	73	94
HERCEPTIN®	2156	144 (6.7)	79	14	0	38	13
NEXAVAR®	662	128 (19.3)	0	55	21	31	21
SUTENT®	797	117 (14.7)	0	41	28	23	25
SPRYCEL®	172	5 (2.9)	1	0	3	0	1

Closing remarks

Provide patients with some hope of gaining access to the newest therapies.

Some funding models could be implemented in a strictly controlled environment.

Irrational use of medicines

- Evidence-based medicine
- Clinical pathways
- Centres of excellence
- Multi-disciplinary teams
- Treatment plans / discharge plans