

Regulatory Opportunities and Challenges in Europe:

A proposal from the Italian Experience on Registries

Luca Pani, M.D.

Director General, Italian Medicines Agency

CHMP, SAWP Member, European Medicine Agency

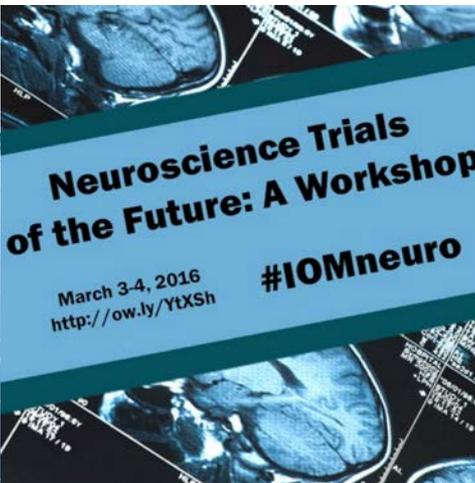
DG@aifa.gov.it



@Luca__Pani

AIFA

Agenzia Italiana del Farmaco



Agenzia Italiana del Farmaco

AIFA

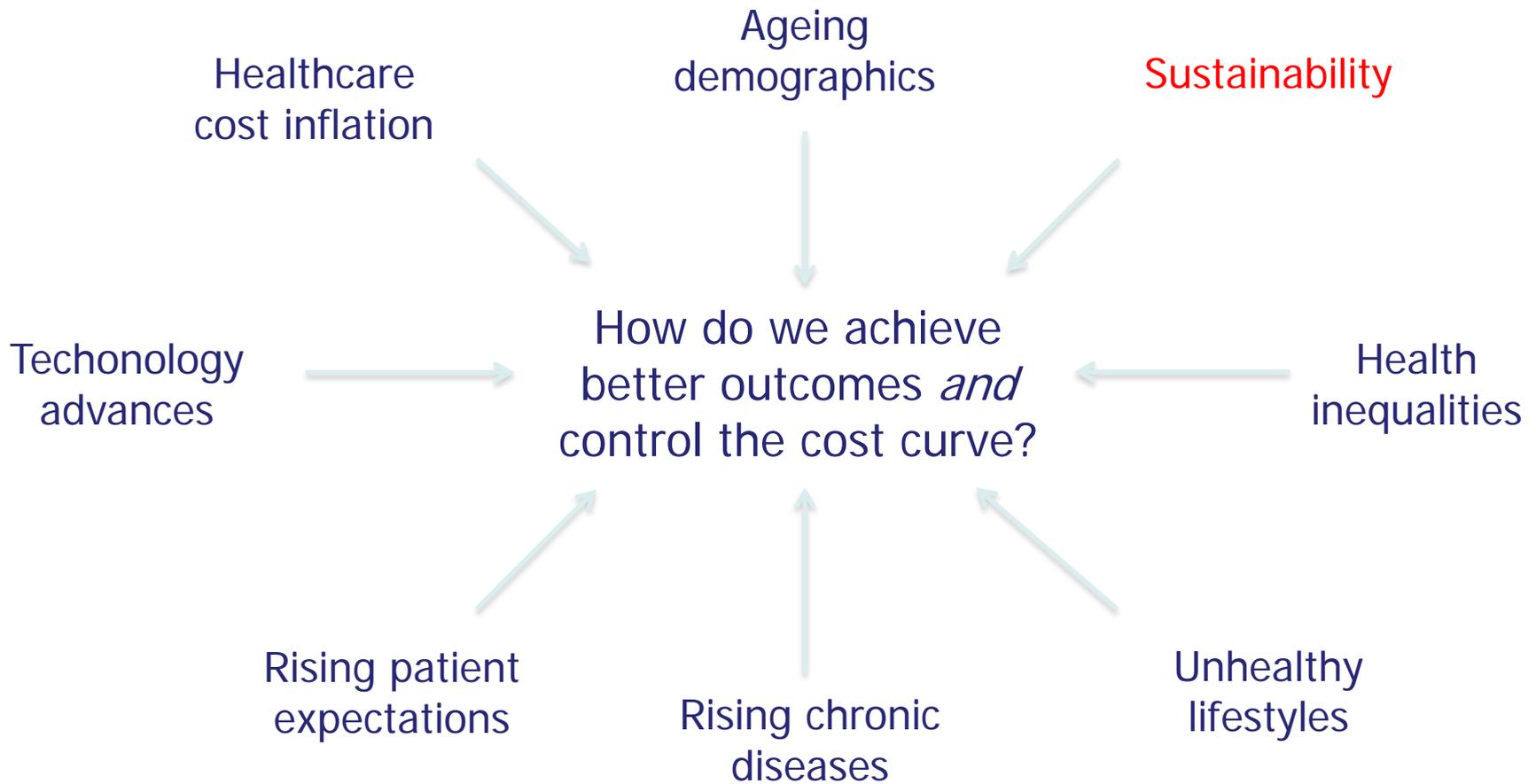
Public Declaration of transparency/interests*

The view and opinions expressed are those of the individual presenter and should not be attributed to AIFA/EMA

Interests in pharmaceutical industry	NO	Current	From 0 to 3 previous years	Over 3 previous years
DIRECT INTERESTS:				
1.1 Employment with a company: pharmaceutical company in an executive role	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> mandatory
1.2 Employment with a company: in a lead role in the development of a medicinal product	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> mandatory
1.3 Employment with a company: other activities	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> optional
2. Consultancy for a company	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> optional
3. Strategic advisory role for a company	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> optional
4. Financial interests	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> optional
5. Ownership of a patent	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> optional
INDIRECT INTERESTS:				
6. Principal investigator	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> optional
7. Investigator	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> optional
8. Grant or other funding	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> optional
9. Family members interests	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> optional

*Luca Pani, in accordance with the Revised Conflict of Interest Regulations approved by AIFA Board of Directors (25.03.2015) and published on the Official Journal of 15.05.2015 according to EMA policy /626261/2014 on the handling of the conflicts of interest for scientific committee members and experts. For this talk I receive NO compensation.

Most important challenges for Regulators / Payers

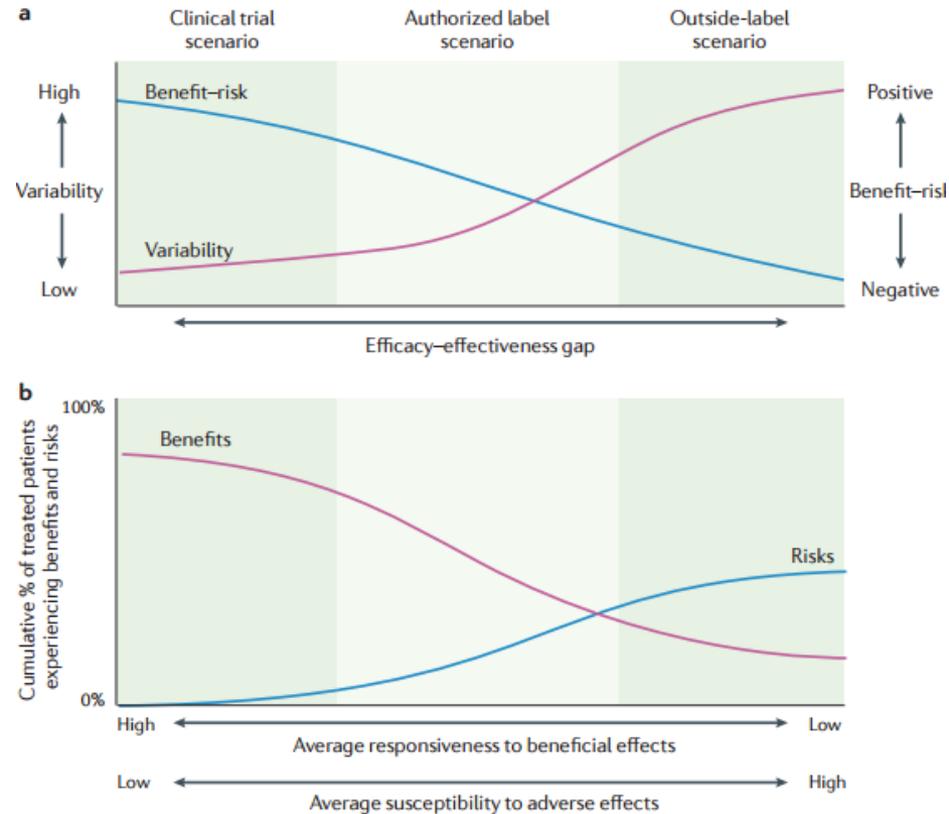


Bridging the efficacy–effectiveness gap

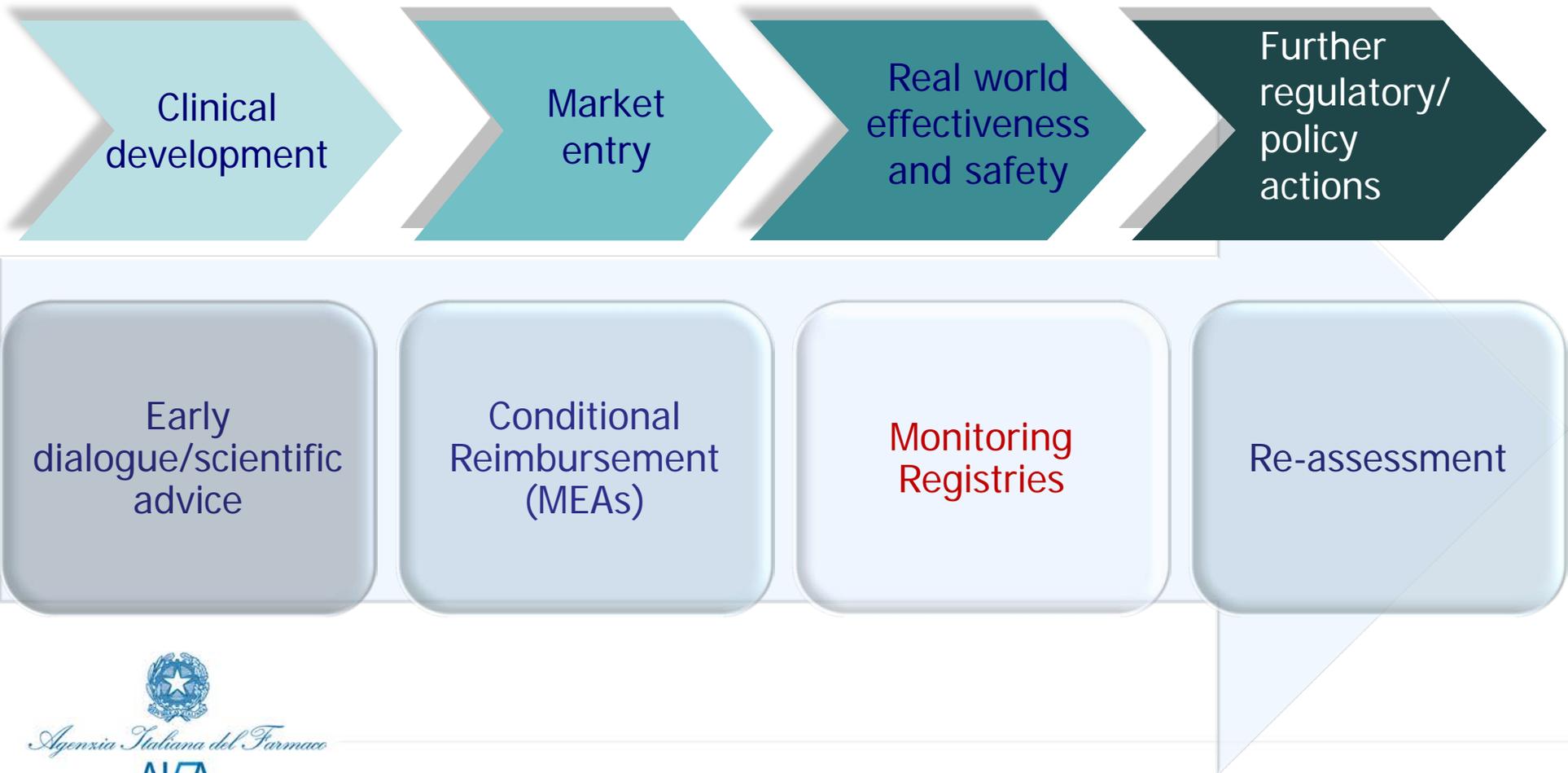


Patients are not equally responsive to beneficial effects, and not equally susceptible to AEs.

Regulatory decisions are based on population-level information, with an understanding that the B-R will not necessarily be positive for all treated patients.



The Italian Medicines Agency Strategy





Italian Medicines Agency Registries



International Journal of Technology Assessment in Health Care, 31:4 (2015), 210–213.
© Cambridge University Press 2015
doi:10.1017/S0266462315000446

MONITORING REGISTRIES AT ITALIAN MEDICINES AGENCY: FOSTERING ACCESS, GUARANTEEING SUSTAINABILITY

Simona Montilla
Italian Medicines Agency (AIFA)
S.Montilla@aifa.gov.it
Entela Xoxi, Pierluigi Russo
Italian Medicines Agency (AIFA)

Americo Cicchetti
Università Cattolica del Sacro Cuore
Luca Pani
Italian Medicines Agency (AIFA)

Objectives: The AIFA (*Agenzia Italiana del Farmaco*—Italian Medicines Agency) Monitoring Registries track the eligibility of patients and the complete flow of treatments, guaranteeing appropriateness in use of pharmaceutical products, according to approved indications.

Methods: This study describes the Italian pharmaceutical context and the aims and functioning of AIFA Monitoring Registries, focusing on the applications to the Managed Entry Agreements (MEAs) and HTA approaches.

Results: The AIFA Monitoring Registries System has been operational in Italy since 2005. In 2012, the system became part of the NHS Information Technology system, aiming at enhancing appropriate use of pharmaceuticals and efficiency of the administrative activity. Currently, seventy-six medicines are monitored through the system, corresponding to fifty-eight therapeutic indications; individual treatments recorded are more than 515,000, for a population of approximately 505,000 patients. For each monitored product, patients eligible for treatment are registered in the specific therapeutic indication dynamic monitoring database to collect epidemiologic and clinical data, including data on the safety profile, and ex-post information missing at first evaluation stage.

Conclusions: AIFA Monitoring Registries allow the evaluation of the pharmaceuticals' performance in clinical practice and may promote innovation and quicker access to medicines at affordable prices, for the benefit of patients.

Keywords: Drug monitoring, Registries, Real clinical practice data collection, Managed entry agreements

Registries provide Real World Data (RWD)

RWD is an umbrella term including effects of health interventions that are not collected in the context of conventional RCTs.

Registries are one of the main sources of RWD.

Alternative / Additional tools are:

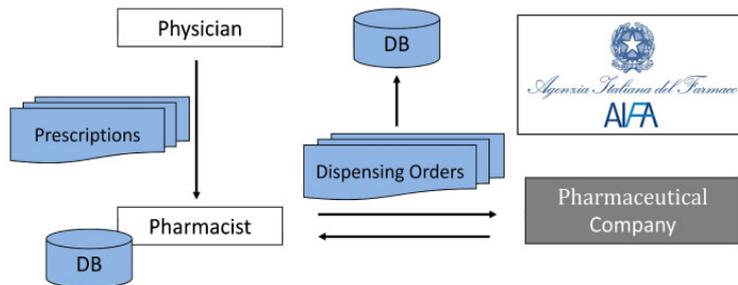
- Electronic medical records
- Observational studies
- Administrative data
- Claims databases
- Health surveys & patient reported outcomes (PROs).



AIFA Monitoring Registries are...

AIFA drug-product Registries are web tools placed in the early phases after MA and also for some "authorized" *off label* use.

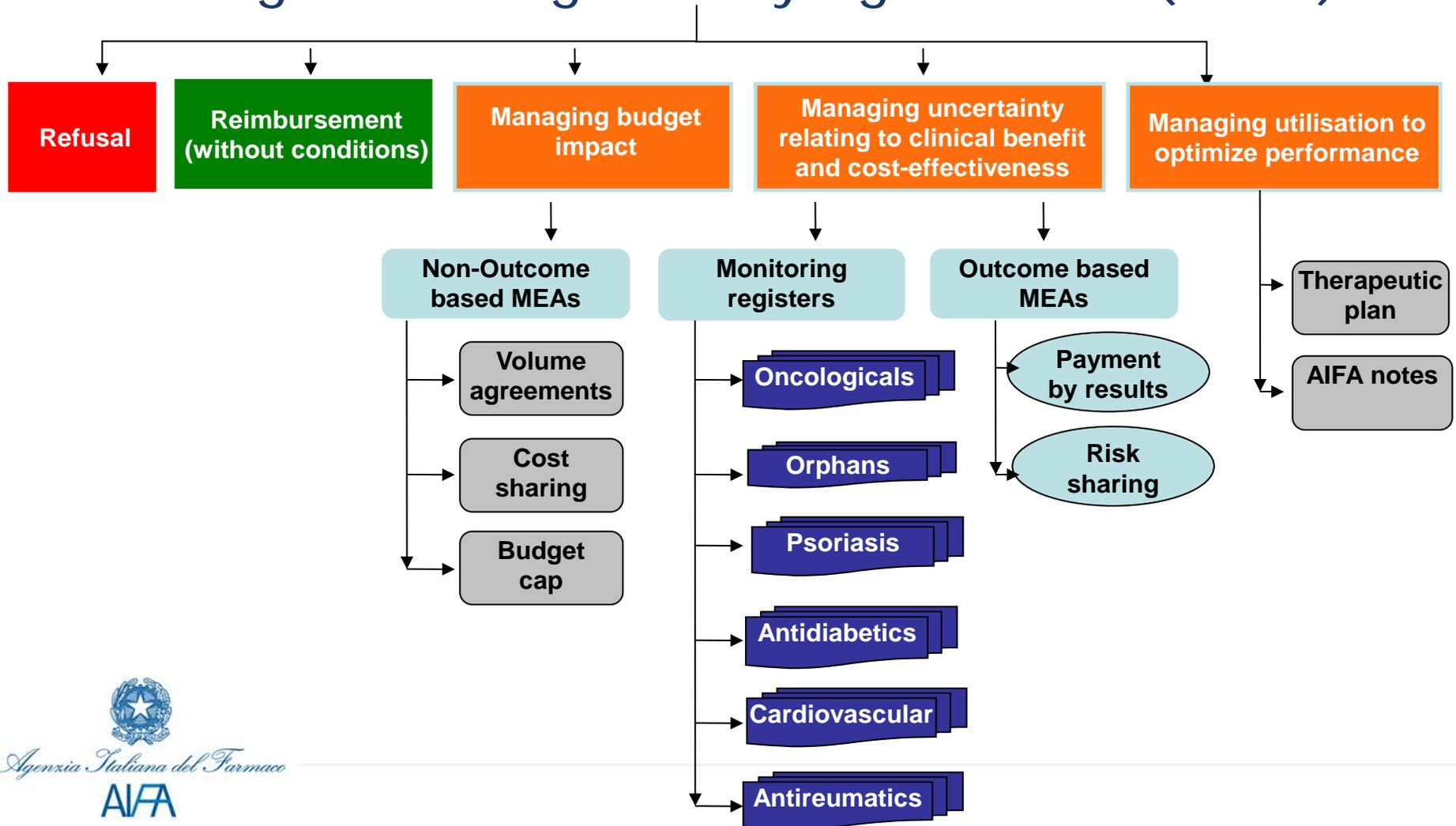
Pharmaceutical Programming 2012 VOL. 5 NO. 1&2



Measure RW safety and effectiveness
and
Apply MEAs procedures.

In 2012 AIFA Registries officially became part of the NHS Information Technology (IT) Law n. 135/2012.

The Italian Medicines Agency Strategy: A range of Managed Entry Agreements (MEAs)



When New Cancer Treatments Fail, Italy Wants Its Money Back

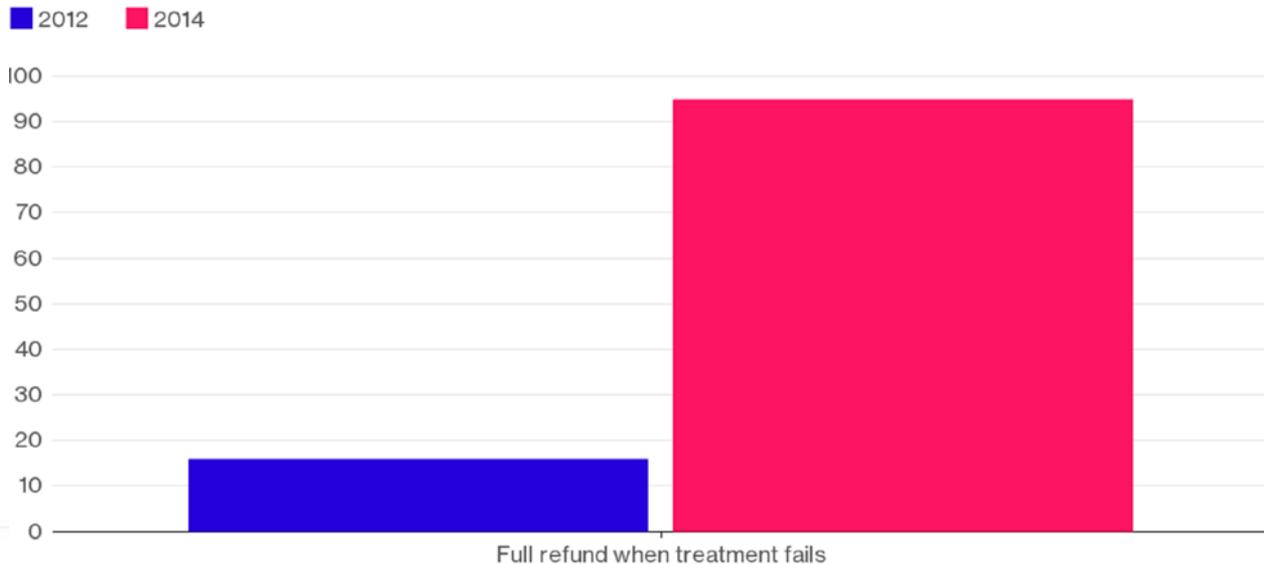
The Italian Medicines Agency has devised deals with pharma companies that set payment based on how well a patient responds to treatment, and in some cases where the medication fails to help, the drugmaker gives a full refund. Italy is signing more such contracts as growing numbers of medications receive regulatory approval after mid-stage trials of fewer than 100 patients rather than awaiting final-stage assessments involving thousands.

by Makiko Kitamura Johannes Koch
 @maki_kitamura

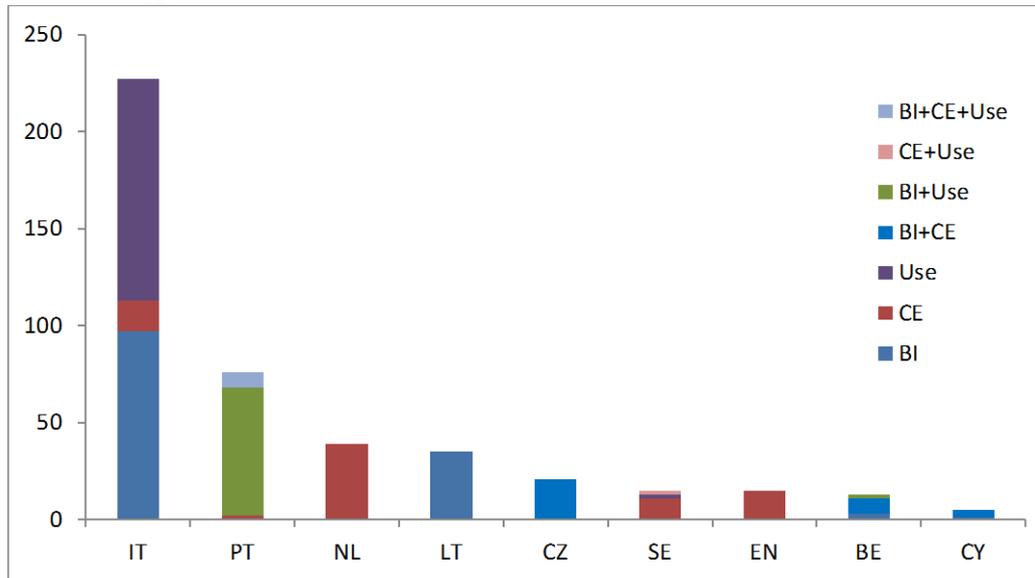
January 15, 2016 – 6:00 AM CET

Drug contracts with money-back guarantees

Italy is signing more contracts stipulating refunds when treatments fail, allowing it to take a chance on medicines getting approved with smaller trials

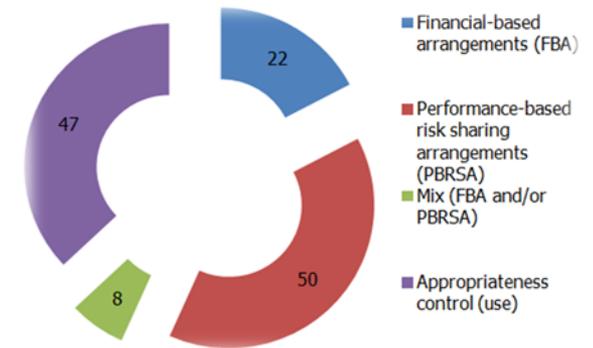


MEAs in EU



Legend: BI: Limit budget impact, CE: Address uncertainties regarding the cost-effectiveness, Use: Monitor use in clinical practice, Access+CE: Improve patient access and cost-effectiveness. BE: Belgium, CY: Cyprus, CZ: Czech Republic, EN: England, IT: Italy, LT: Lithuania, MT: Malta, NL: Netherlands, PT: Portugal, SE: Sweden

MEAs in Italy



80 of 96 Registries are associated with a MEA; PbR are the most frequently used schemes.

(R)Evolution

Y 2006
Version 1.0

Y 2013
Version 2.0

Programmi generali:

- Farmaci antineoplastici
- Farmaci orfani
- Farmaci per la psoriasi
- Farmaci anti HIV
- Farmaci antipsicotici
- Farmaci antidiabetici
- Farmaci cardiovascolari

Progetti specifici:

- Tysabri
- ADHD
- Xolair
- Xagrid
- Xigris

Farmaci sottoposti a monitoraggio

Con il Registro dei farmaci a monitoraggio l'agenzia Italiana del Farmaco AIFA, intende mettere a disposizione degli operatori sanitari un punto di accesso unificato ai progetti di monitoraggio che sono richiesti, laddove necessario, a complemento delle determinazioni di immissione in commercio delle singole specialità medicinali (in luogo delle precedenti schede di rilevazione dati cartacee).

Il Registro unificato intende porsi come strumento innovativo di comunicazione con l'Autorità regolatoria, per una efficace semplificazione degli iter burocratici richiesti dalle procedure e per l'avvio di un processo virtuoso in grado di supportare una sempre migliore pratica clinica a tutela del paziente.



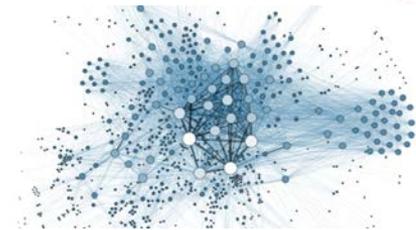
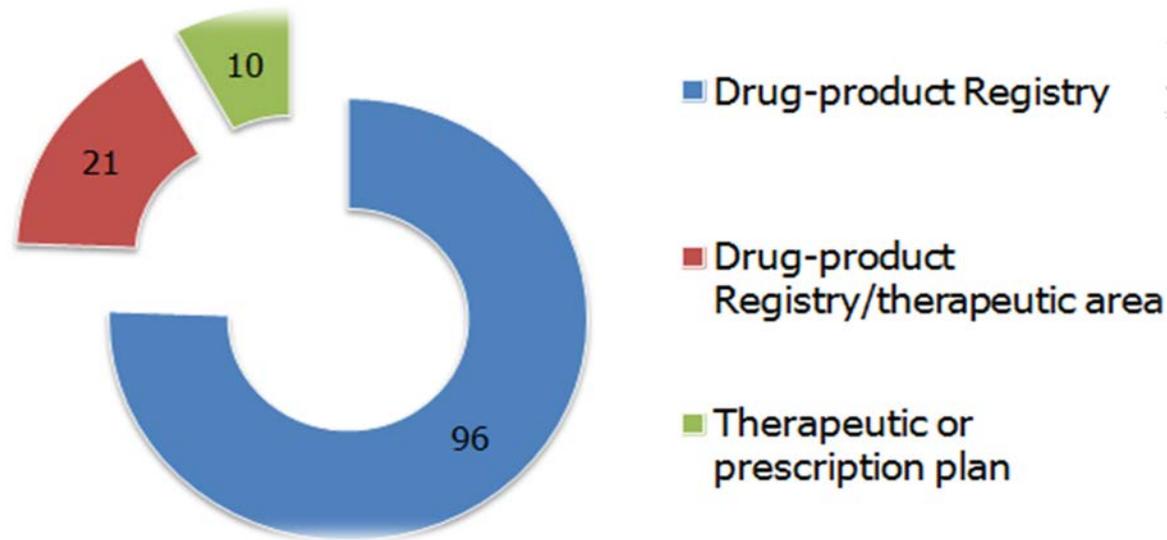
Data collection & Monitoring

Therapeutic area' approach data collection

Accreditation pyramidal system

Regions
Health managers
Pharma companies

Data collection typologies



- > 850,000 Patients
- > 24.000 physicians and >1,300 pharmacists
- 32 MAH
- ~ 900 Health managers & 48 Regional responsible Agents

The Italian Databases and HCV Treatment Costs

- New treatments DAAs are able to eradicate the infection in almost all patients

BUT...

- High prevalence of the infection in Italy (about 2.6 to 3%);
- High cost treatment proposed;
- Unsustainability spending for our NHS;
- Although sofosbuvir/ledipasvir results could be cost-effective in several subgroups population, problem of economic sustainability remains!



Disease Criteria to access treatments

Criterion 1 - Patients with cirrhosis in Child class A or B and/or HCC with complete response to therapy resective surgical or locoregional not candidates for liver transplantation in which the liver disease significantly affects prognosis

Criterion 2 - Recurrent hepatitis HCV RNA-positive liver transplant patients in clinically stable and with optimal levels of immunosuppression

Criterion 3 - Chronic hepatitis with severe HCV-related extrahepatic manifestations (cryoglobulinemic syndrome with organ damage, B-cell lymphoproliferative syndromes)

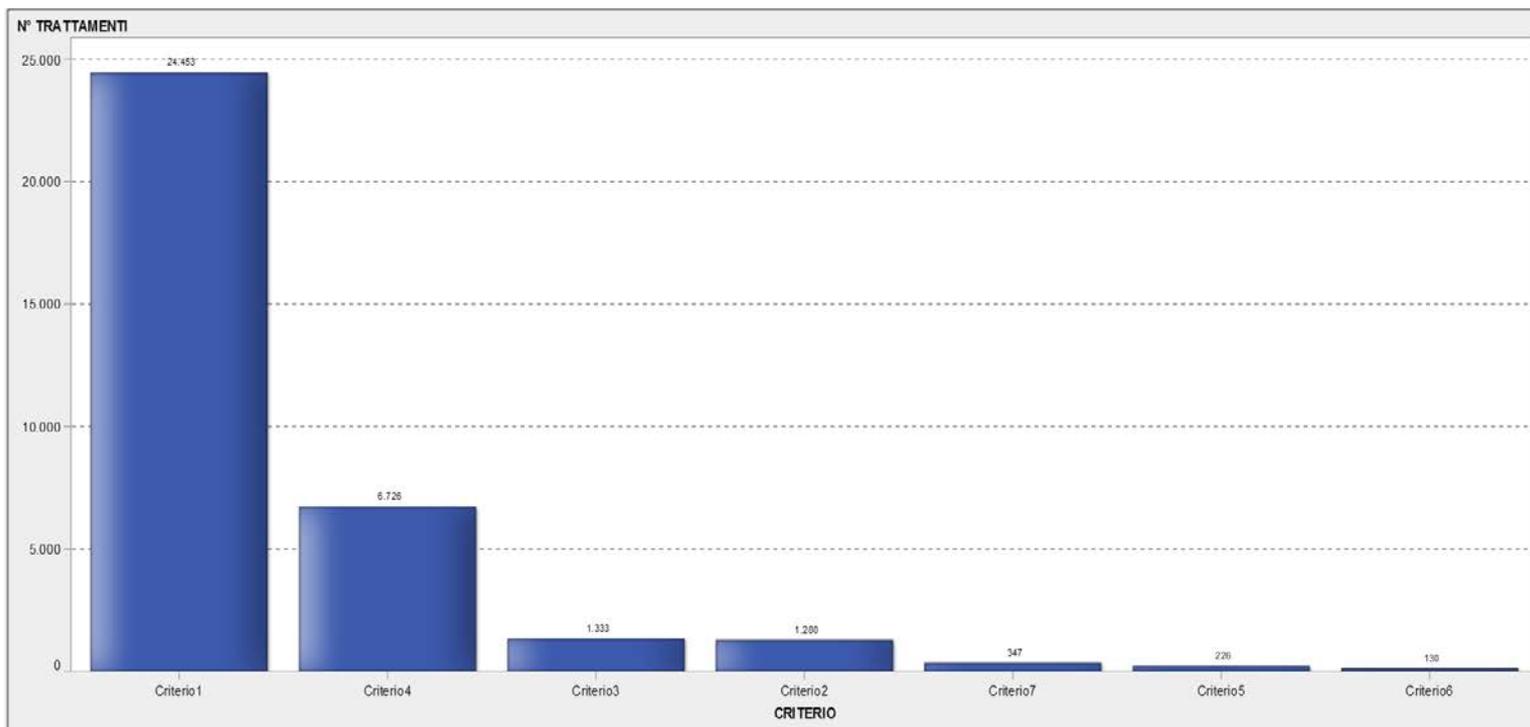
Criterion 4 - Chronic hepatitis with fibrosis METAVIR F3 (or corresponding Ishak)

Criterion 5 - In the list for liver transplantation with cirrhosis MELD <25 and/or HCC within the Milan criteria with the possibility of waiting in a list of at least 2 months

Criterion 6 - Chronic hepatitis after solid organ transplantation (not liver) or marrow fibrosis METAVIR ≥ 2 (or corresponding Ishak)

Criterion 7 - Chronic hepatitis with fibrosis METAVIR F0-F2 (or corresponding Ishak)

DAAAs' treatments/criterion



The total number of treatments as of Feb 2016 is **34.487**.

Criterion 1: 24.453; Criterion 4: 6.726; Criterion 2: 1.280; Criterion 3: 1.333;

Criterion 5: 226; Criterion 6: 130; Criterion 7: 347.



Costs of HCV Drugs in Italy

Monitoring the number of patients at individual level allowed AIFA to negotiate prices by precise price/volume discount confidential contracts. These were linked to product specific managed entry agreements, mainly based on the high prevalence of this pathology in Italy but also on real life payment by result.

Prices obtained are the lowest in the EU, Japan and North America



AIFA Databases of drugs for diabetes

The incretin-mimetic and incretin-enhancer AIFA Registry was the first example of a “dirty” monitoring tool in a highly prevalent disease largely managed by general practitioners (GPs).

Nutrition, Metabolism & Cardiovascular Diseases (2014) 24, 1346–1353



Drug utilization, safety, and effectiveness of exenatide, sitagliptin, and vildagliptin for type 2 diabetes in the real world: Data from the Italian AIFA Anti-diabetics Monitoring Registry



S. Montilla ^{a,*}, G. Marchesini ^b, A. Sammarco ^a, M.P. Trotta ^a, P.D. Siviero ^a, C. Tomino ^a, D. Melchiorri ^c, L. Pani ^a for the AIFA Anti-diabetics Monitoring Group¹

^a Italian Medicines Agency (AIFA), Rome, Italy

^b Unit of Metabolic Diseases, S. Orsola-Malpighi University Hospital, Bologna, Italy

^c Dept. Physiology and Pharmacology, University of Rome “La Sapienza”, Rome, Italy

Received 4 November 2013; received in revised form 14 July 2014; accepted 16 July 2014
Available online 6 October 2014

© 2014 Elsevier B.V. All rights reserved.
This is an open access article under the CC BY-NC-ND license (http://creativecommons.org/licenses/by-nc-nd/4.0/).

1 Corresponding author. Tel.: +39 06 49901541; fax: +39 06 49901542.
E-mail: s.montilla@aifa.gov.it (S. Montilla).

We analysed 75,283 pts with type 2 diabetes treated with exenatide, sitagliptin, or vildagliptin over two years.

Result: In real world prescriptions, incretins have been mostly used off-label. When appropriately utilized, incretins showed results in line with those in registration trials.



Agencia Italiana del Farmaco

AIFA

AIFA Databases of drugs for Multiple Sclerosis

This registry has been active from 2007 to 2012

6.304 patients recorded; 99% evaluated; 97% eligible and 88% treated.

Data of follow up for 3.539 (42%) patients.

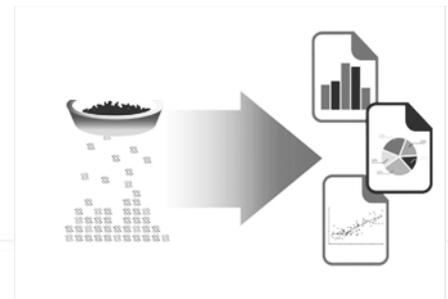
Characteristics at baseline, efficacy outcome in the general population and in the highly active MS subcluster are analyzed in comparison to the Affirm study.

12 patients have been diagnosed and confirmed with PML.

The National Medicines Observatory (OsMed) and the use of Antidepressants

Osmed is the largest data warehouse from unselected population in the world, with almost 40 million people in all age groups.

AIFA started a study in collaboration with MGH (Maurizio Fava et al.) on the evaluation of real-life treatment-resistant depression on approximately 450,000 patients selected from Osmed.



Study on Resistant Depression: Methods

An AD utilization index (resistance class 0, 1, 2, 3 and > 4) was calculated as the number of antidepressants (by ATC codes) treatment courses for at least 6 weeks (1 point = 1 ATC treatment course).

Patients (age range, gender and comorbidity index) for each resistance class have been followed up for two years after the index prescription.

Distribution by comorbidity index as well as costs will be calculated for each resistance class over a 12 months period after the two years of follow up*.

Conclusions: Italian Registries and Clinical Trials

1. Accelerate access of drugs to subclusters of patients;
2. Prevent exclusion of drugs with potential efficacy;
3. Early exclusion of drugs with safety issues;
4. Real world data generation;
5. Contain NHS expenditure optimizing allocation of resources and the sustainability of the system;
6. Use of these resources in clinical trials?

