

Personalised approaches of the Portuguese Adverse Drug Reaction System







Miguel Antunes - DGRM



Pharmacovigilance is the science and activities relating to the detection, assessment, understanding and prevention of adverse effects or any other medicine-related problem. (WHO)

Before a medicine is placed on the market, the only safety information is provided by clinical trials, that includes a very limited and homogenous population (e.g., it normaly excludes children, elderly and pregnant women). It is only after the market authorization, and after it is being used by the destined population for a longer period of time that we get the fuller safety profile of a medicine.

"It is therefore essential that the **safety of all medicines is monitored throughout their use** in healthcare practice." (EMA)



The 3rd adverse drug reaction (ADR) awareness week campaign: 19-23 November 2018

Reporting side effects helps the safe use of medicines for babies, children and pregnant women #medsafetyweek

Campaign guide for stakeholders and partners





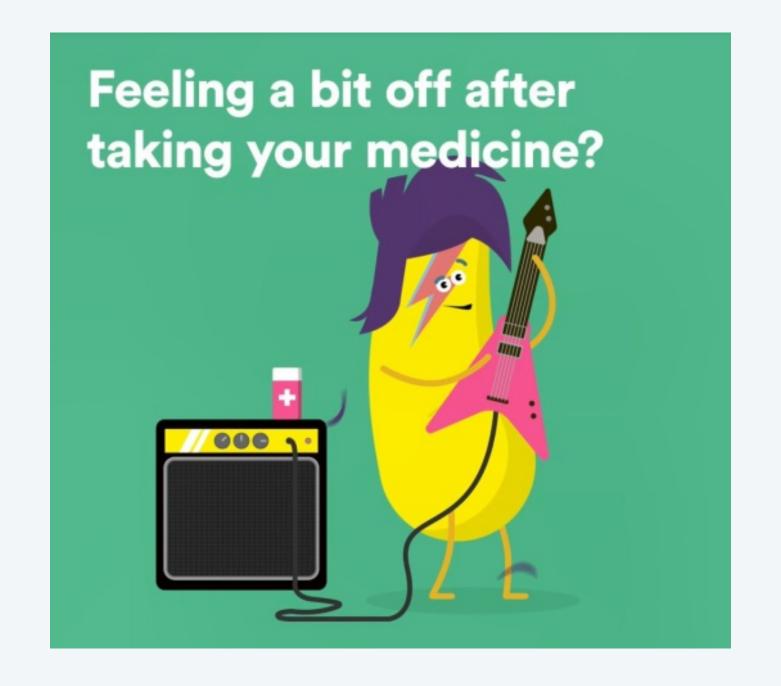




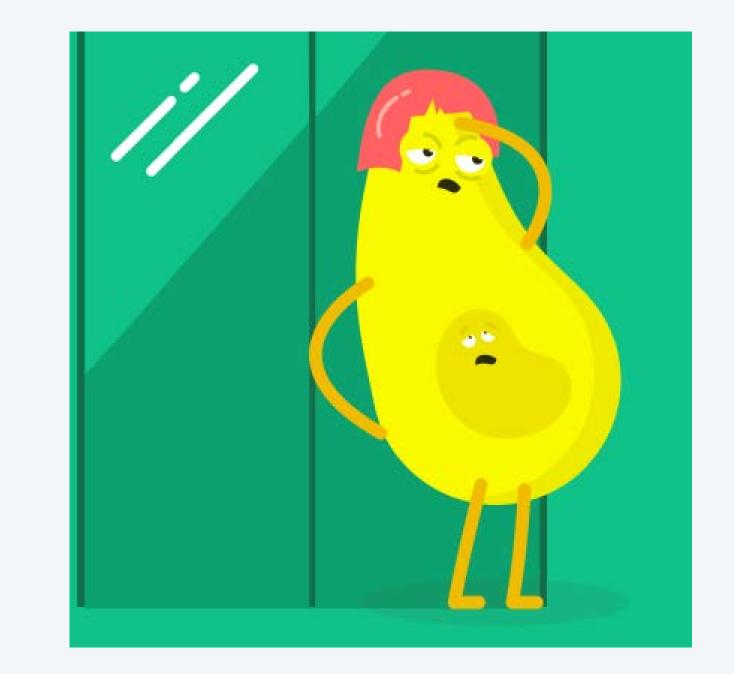




Infarmed 25[†] The 3rd adverse drug reaction (ADR) awareness week campaign: 19-23 November 2018



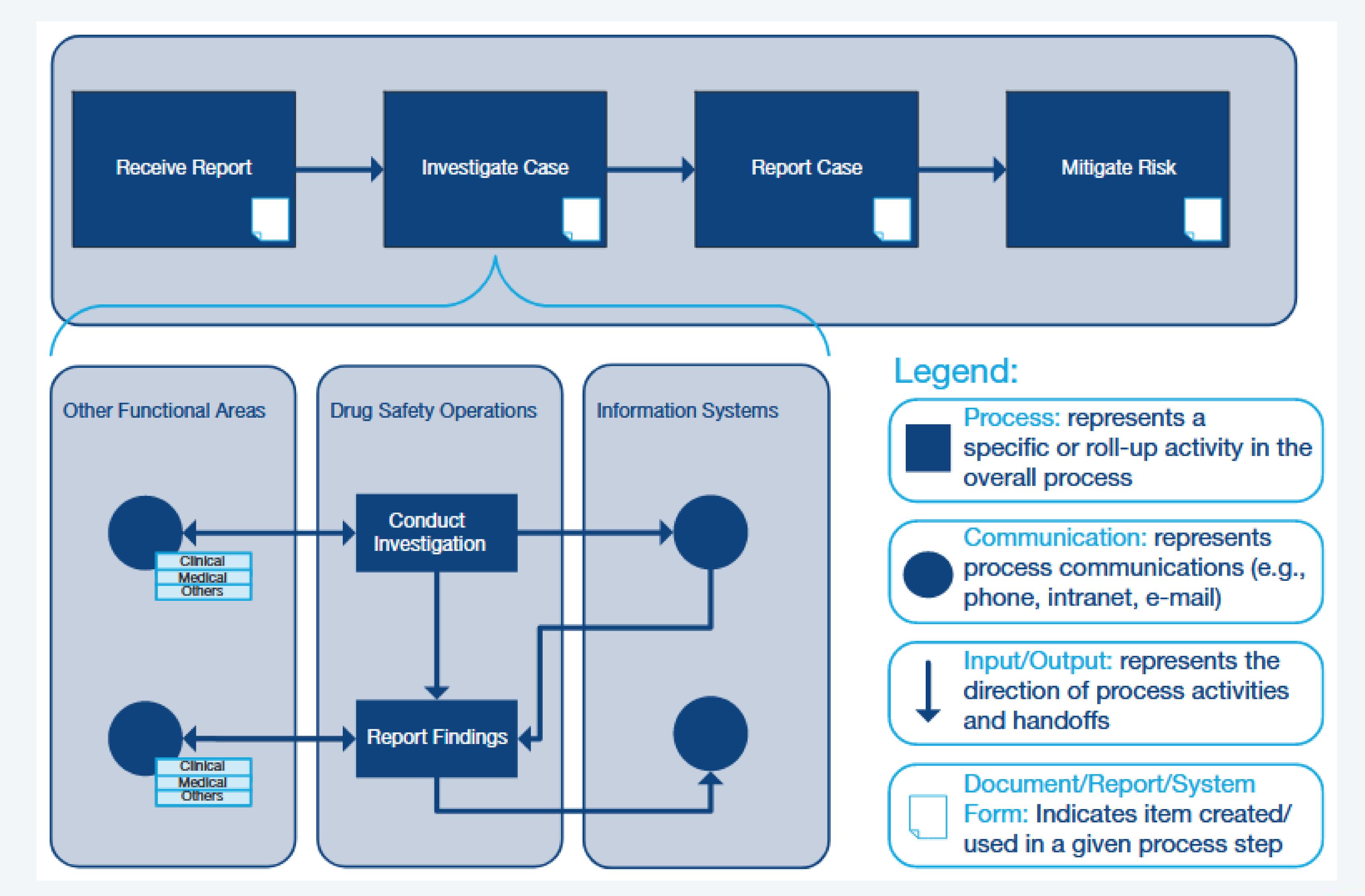






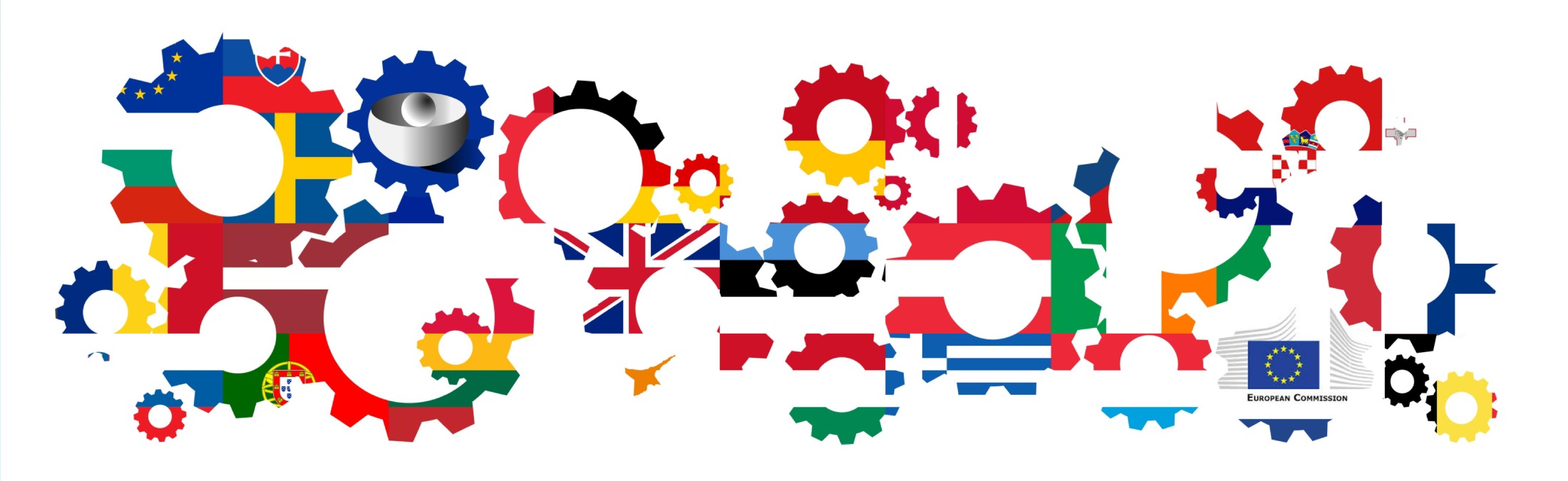


Spountaneous Reporting System





The European medicines regulatory network



Infarmed 25 What are the major challenges for the future of PhV?

Technology

- Big Data
- Real World Evidence (RWE)
- Clinical registries and electronic health records (EHR)
- Social Media

"Information => Action"

People

- Greater involvement from healthcare professional
- Greater involvement of patients and users



What is the strategy?



"Personalised" approach:

- To help us communicate better;
- To stimulate HCP to report ADR;
- To get more expertise to the system;
- To get more research to the system;
- To get the more involved in the Benefit-Risk analysis;
 (...)
- (...)



"Personalised" approach:

- To help us communicate better;
- To get more feed back from patients;
- To get the more involved in the Benefit-Risk analysis;



Make it closer to people (make it more "personal")

Açores

Madeira

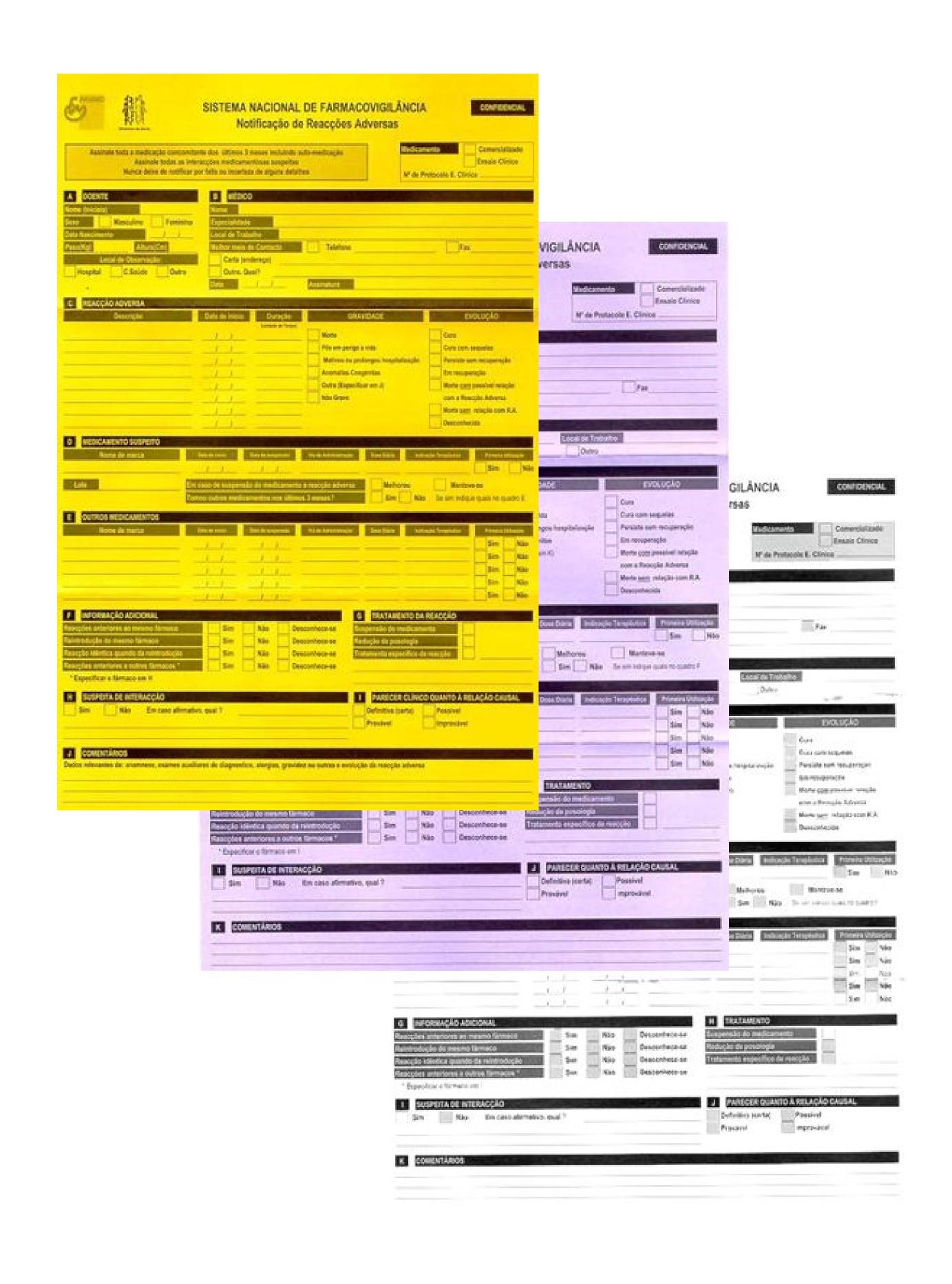
8 Pharmacovigilance Units (and more to come...)

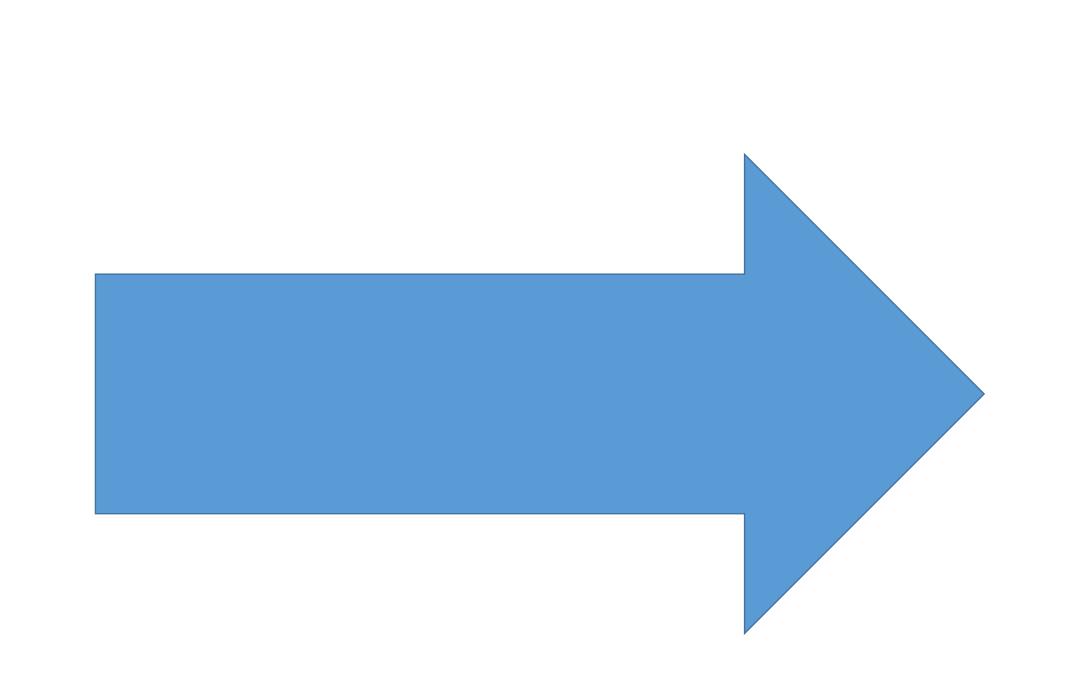
 Get more professionals involved, from different areas and with different backgrounds.





Improve the technology to what the users want











Improve the technology to what the users want



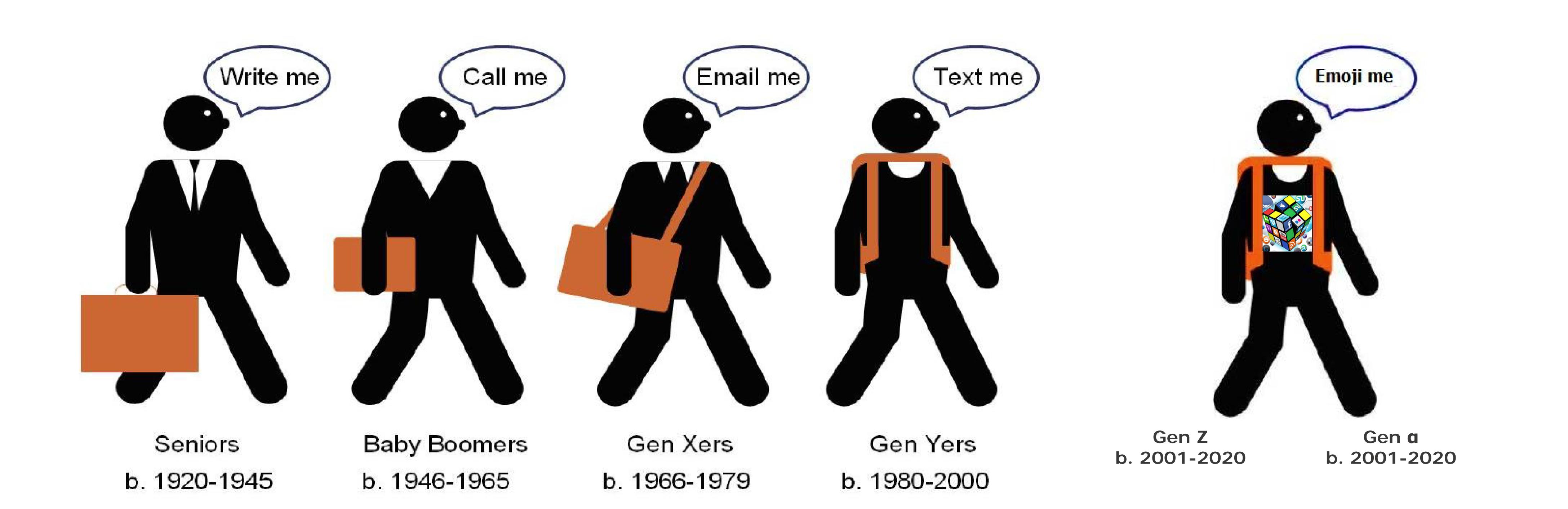
Using a cell phone to report

ADRs to Portal RAM





Use the means of communication they prefer





Use the means of communication they prefer

Comunicação de informação de segurança - a perspetiva dos profissionais de saúde



Queremos melhorar a forma como comunicamos! Agradecemos desde já a sua disponibilidade e o seu contributo.

Este questionário tem como objetivo principal obter a opinião dos profissionais de saúde sobre formas específicas de comunicar informação de segurança relativas a medicamentos de uso humano utilizadas pelo Infarmed ou pelos titulares de AIM (Autorização de Introdução no Mercado) de medicamentos após a concordância do Infarmed:

- Comunicações de segurança do Infarmed (como Boletim de Farmacovigilância e alertas de segurança – Circulares Informativas);
- Comunicações dirigidas aos profissionais de saúde (DHPC)
- Materiais educacionais.

Adicionalmente, pretende-se conhecer as preferências gerais sobre comunicações de informação de segurança relativas a medicamentos de uso humano e a resposta dos profissionais de saúde a este tipo de comunicações.

Inquiry to HCP on their preferences for receiving medicine safety information (with the cooperation of the Professional Associations)



Inovate

Algorithms can be your friends for a personalized approach strategy.

They help identify patients of interest and they save time for other tasks.

We are studying and testing algorithms and software to:

- Identify patients more at risk of experiencing an ADR;
- Help with MedDRA coding ("Natural Language Software"), improving the quality of the case coding;
- Using Bayesian networks (PhV Porto) to help causality assessment.



To predict and prevent ADR

- Create awareness on the importance of getting a good clinical anamnesis in order to identify patients at risk of an ADR:
 - Every risk communication to HCP by the Pharmacovigilance department clearly identifies the clinical conditions that putt the patient most at risk.

Circular Informativa

N.º 158/CD/550.20.001

Data: 12/11/2018

Assunto: Metamizol e risco de agranulocitose

Para: Divulgação geral

Estes medicamentos não devem ser utilizados em doentes com reações hematológicas prévias ao metamizol, em tratamento com imunossupressores ou outros medicamentos que possam causar agranulocitose. Deve ser tida particular atenção à prescrição destes medicamentos em doentes idosos.

 Patients that experienced previous hematological reactions to metamizol;

Patients treated with immunosuppressants;

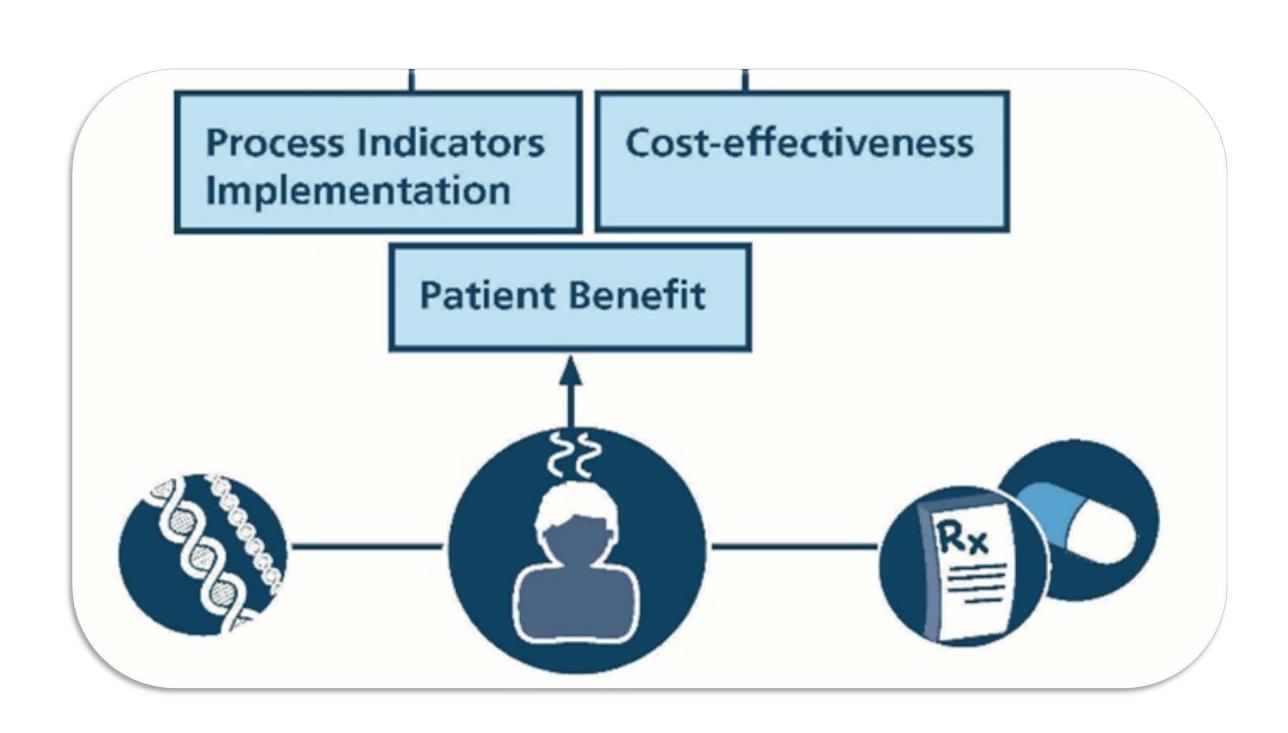
Elderly patients



To predict and prevent ADR

PREPARE STUDY

(PREemptive Testing for Preventive Adverse Drug Reactions)



Objective:

To investigate a pre-emptive genotyping approach of a panel of PGx variants covering 13 important pharmacogenes as a new model of personalized medicine.

Design:

Open randomized cross-over trial in 7 countries including 8,000 patients.

Outcomes:

Primary Clinical outcome

Secondary Process indicators for implementation

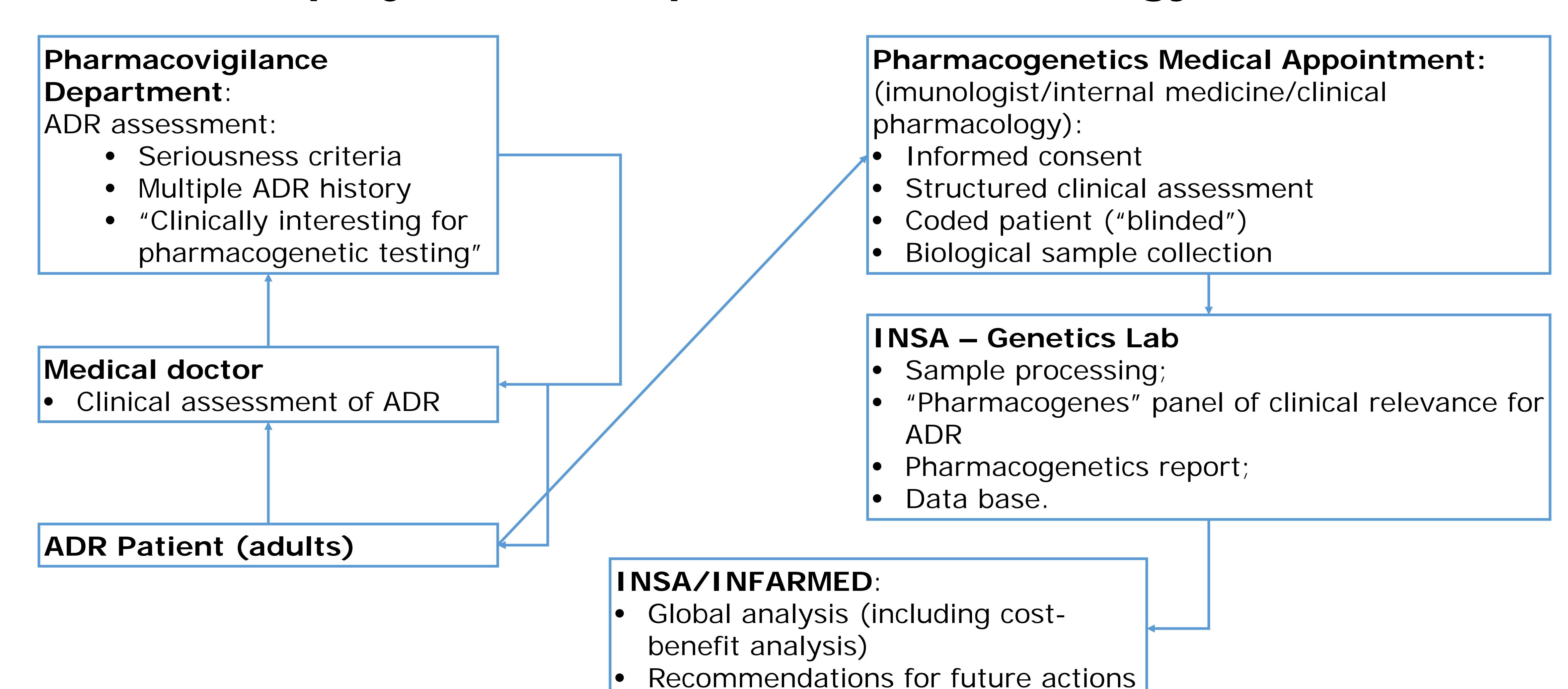
Cost-effectiveness

Patient reported outcomes



To predict and prevent ADR

Pilot project: RAM - predict - Methodology





Take Home Messages

- In these new (and exciting) times of (massive) technology and science outbreaks, we need to design clever **strategies** that help us select efficient and effective ways of getting to each professional/patient.
- New science outcomes and technologies are welcomed for a more personalised pharmacovigilance system.
- However, not all in personalised medicine is about the "new": sometimes it's just about tailoring an old suit to make it fit better!





Thank you for your attention. Danke Schön OBRIGADO!

