



Joint Action Health Workforce
Planning and Forecasting

**The roles of the pharmacist in the
context of an ageing and mobile
population**



PGEU GPUE

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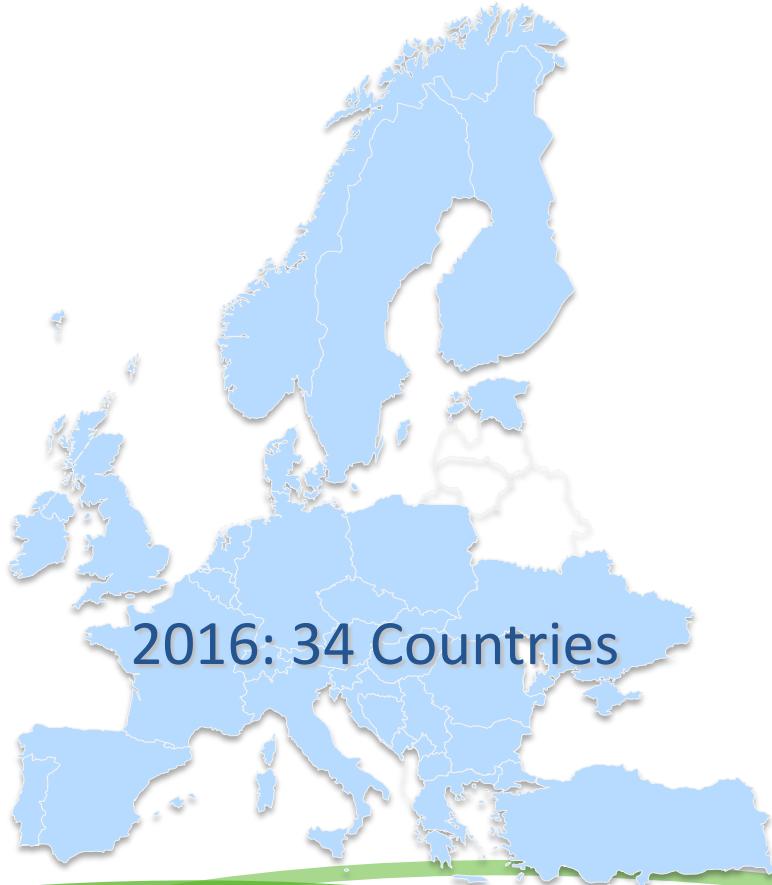


PGEU GPUE

Pharmaceutical Group of European Union
Groupement Pharmaceutique de l'Union Européenne

Pharmaceutical Group of European Union

Members: Professional Bodies & Pharmacists' Associations

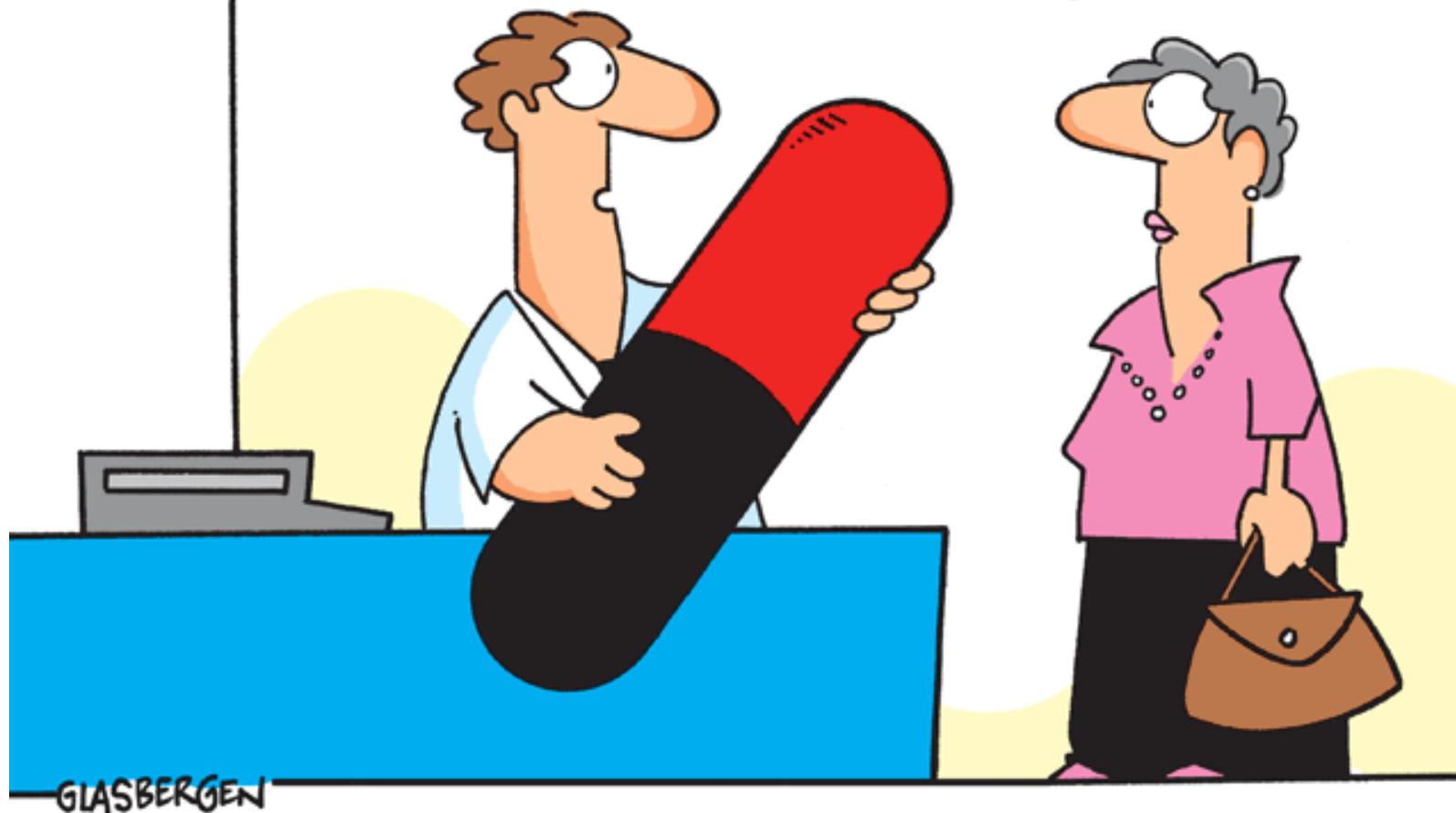


	Austria
	Belgium
	Bulgaria
	Croatia
	Cyprus
	Czech Rep
	Denmark
	Estonia
	Finland
	France
	Germany
	Greece
	Hungary
	Ireland
	Italy
	Luxembourg
	Malta
	Netherlands
	Poland
	Portugal
	Romania
	Slovakia
	Slovenia
	Spain
	Sweden
	United Kingdom
	Bosnia Herzegovina
	Kosovo
	FYR Macedonia
	Norway
	Serbia
	Switzerland
	Turkey
	Ukraine

When I have a headache, I take a Tylenol and keep away from children. Just like the bottle says.



Pharmacy



**“Each capsule contains your medication,
plus a treatment for each of its side effects.”**

Summary of Presentation



Self-care in Europe & Beyond



Pharmacy Services in Europe



PGEU Medication Review Survey 2015



Portuguese new pharmacy contract



Irish 'flu vaccination



Spanish conSIGUE study & Adhieréte pilot



Belgian Asthma Service



Norwegian Medisinstart service



French New Medicines Service



England Medicines Use Reviews (MURs) and New Medicines Service (NMS)



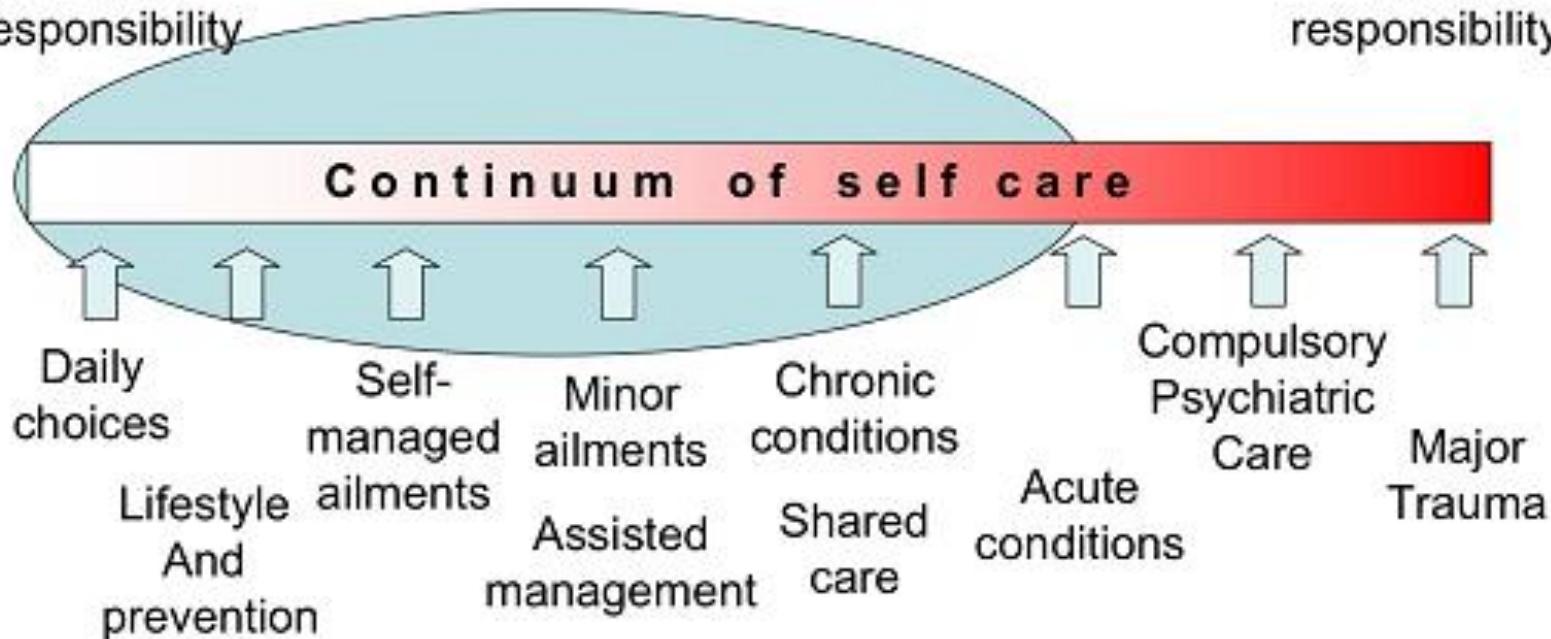
Self-care in Europe



The Self-care Continuum

Pure Self Care
Individual responsibility

Pure Medical Care
'abdicated responsibility'

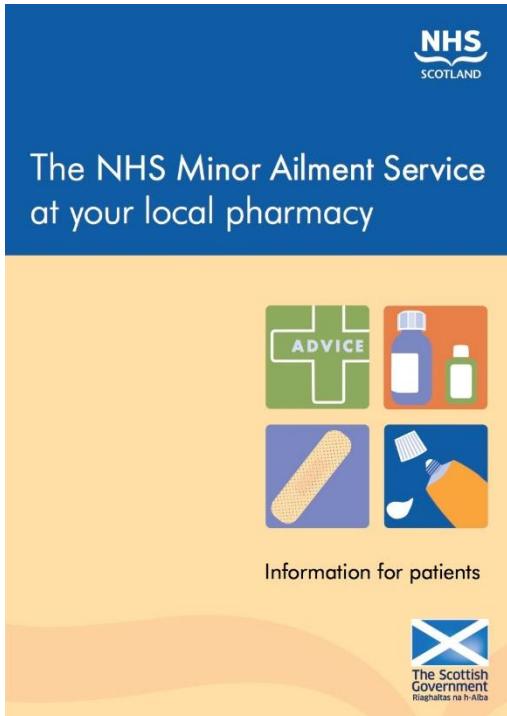


<http://www.cambridgeshireandpeterboroughccg.nhs.uk/faqs.htm>

The World Health Organization defines self-care as “the ability of individuals, families and communities to promote health, prevent disease, and maintain health and to cope with illness and disability with or without the support of a health-care provider”

World Health Organization (WHO) Regional Office for South-East Asia. Self-care in the Context of Primary Health Care: Report of the Regional Consultation Bangkok, Thailand, 7–9 January 2009. New Delhi: WHO Regional Office for South-East Asia; 2009. apps.searo.who.int/PDS_DOCS/B4301.pdf

Self-care in Europe(1) - Minor Ailment Service (Scotland)



- Allows eligible individuals to register with and use their community pharmacy as the first port of call for the consultation and treatment of common self-limiting conditions
- The pharmacist advises, treats (**free of charge**) or refers the person, or provides a combination of these actions, according to their needs
- The pharmacist generates a prescription and records any advice, referrals or products supplied



http://www.communitypharmacy.scot.nhs.uk/core_services/mas.html

Self-care in Europe(1) - Minor Ailment Service (Scotland)



Key Findings

- Favourable opinions by service users, particularly the convenience and time saved
- Head lice was the most frequent condition followed by pain and cough
- The majority of the consultations were by those exempt from a co-payment by age, particularly the under 16's, followed by the over 60's; patients with income related exemptions accounted for 19% of the consultations
- Community pharmacists managed the consultations satisfactorily and coped well with the additional workload
- General Practitioners were supportive.

http://www.communitypharmacy.scot.nhs.uk/core_services/mas.html

Self-care in Europe(2)

Portugal - Pharmacy-only list:

- Approved by the Decree-Law nº 128/2013, 5th September
- Regulated by INFARMED deliberation, January 2015
- Defines the medicines list (13 INNs) & protocols for pharmacy intervention

Dispensing Protocols:

- *Factors to be taken into consideration*
- *Dispensing conditions*
- *Criteria for signpost to physician*
- *Additional information for dispensing*
- *Contraindications*
- *Interactions*
- *References*



Self-care in Europe(2)

Paracetamol + codeine + buclizine (8 mg + 500 mg + 6.25 mg)	Oral Administration Prophylaxis and symptomatic treatment of migraines, including headache crisis, nausea and vomiting
Cyanocobalamin (1 mg)	Oral Administration Prevention and treatment of vitamin B12 deficiency
Salicylic acid + fluorouracil (100 mg/ml + 5 mg/ml)	External use Common warts, juvenile flat warts , plantar warts, seborrheic warts
Prilocaine + Lidocaine (25 mg/g + 25 mg/g)	External use Topical anesthesia
Amorolfine (50 mg/ml)	Cutaneous use Onychomycosis caused by dermatophytes, yeasts and molds
Ibuprofen 400 mg	Oral Administration Light intensity to moderate pain (rheumatic and muscular pain, back pain, neuralgia, migraine, headache, toothache, menstrual pain) fever and symptoms of cold and flu
Hydrocortisone	External use Dermatitis, inflammatory manifestations and dermatitis rash, sunburn or insect bite
Pancreatin	Oral Administration Treatment of Exocrine Pancreatic Insufficiency (with previous diagnosis)
Macrogol and other associations	Oral Administration Gastrointestinal washes and preparation for complementary diagnostic tests and surgery
Fusidic acid (20 mg/g)	External Use Localized skin infections caused by microorganisms sensitive to fusidic acid



New INNs since January 2015

Ulipristal
Fluticasone
Piketoprofen

Self-care in Europe(3)



Examples of “P Medicines” from the UK:

- amorolfine lac.,
- azithromycin tabs,
- chloramphenicol ED,
- fluconazole caps,
- naproxen tabs,
- sumatriptan tabs,
- tamsulosin tabs,
- tranexamic acid tabs.....

<http://www.pagb.co.uk/regulatory/pdfs/pomtoplist.pdf>

Further reading:

Aronson J. From prescription-only to over-the-counter medicines ('PoM to P'): time for an intermediate category. *British Medical Bulletin* 2009; 90: 63–69
DOI:10.1093/bmb/ldp015

Rutter P. Role of community pharmacists in patients' self-care and self-medication. *Integrated Pharmacy Research and Practice* 2015:4

Self-care in Europe(4)

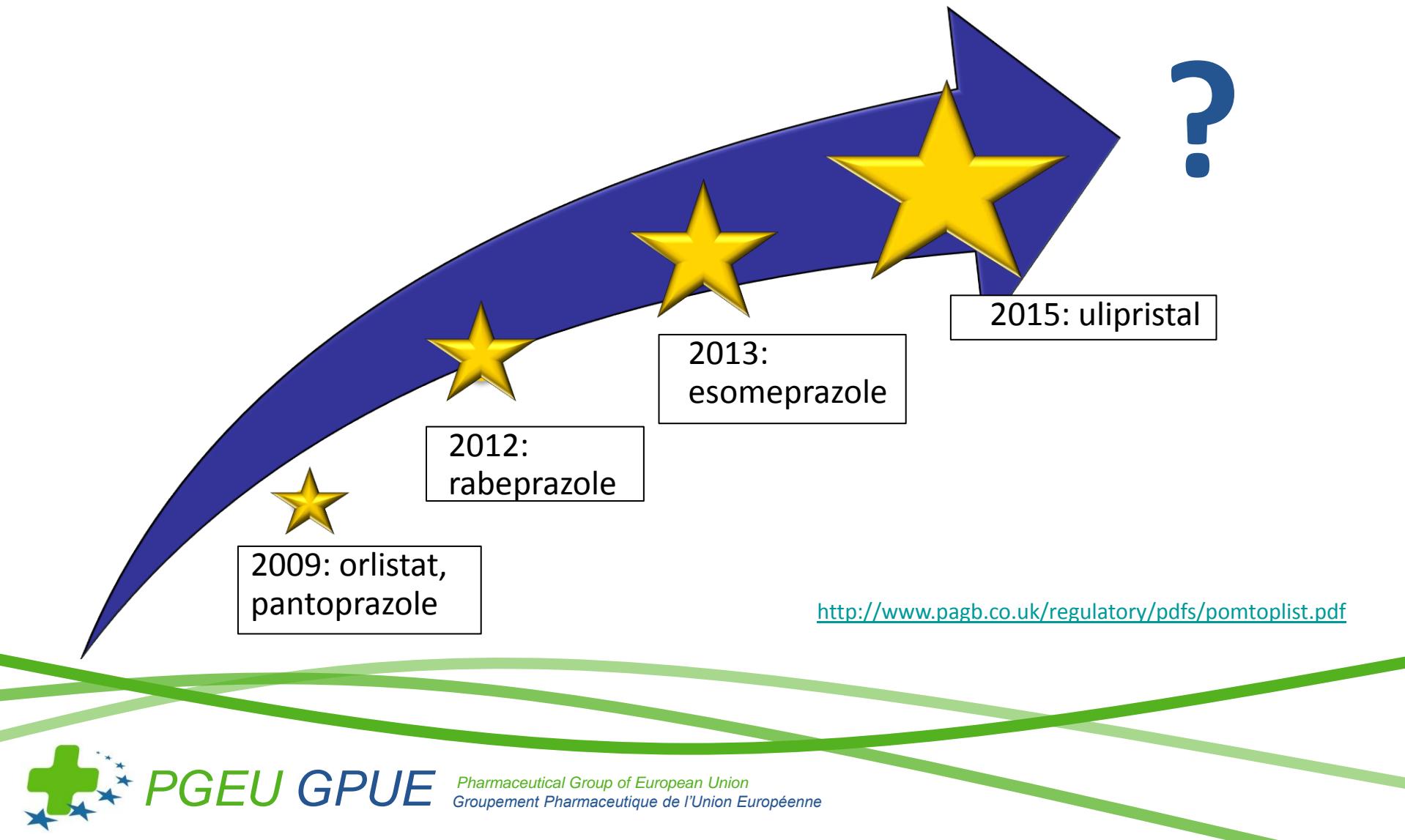
Examples of Patient Group Directions (PGDs) from the UK:

- PDE- inhibitors,
- malaria prophylaxis,
- varenicline,
- finasteride (alopecia androgenetica),
- influenza vaccinations (inj./NS), Hep B/Men B/ACWY vacs,
- brimonidine gel (rosacea),
- eflornithine crm (female facial hair),
- rifaximin (travellers diarrhoea),
- norethisterone (delay of menstruation) & OCP
- emergency hormonal contraception



<https://www.gov.uk/government/publications/patient-group-directions-pgds>

Self-care in Europe(5) – Centrally Authorised Medicines



Pharmacy Services in Europe

Compliance, adherence and concordance

“Compliance” comes from the Latin word “complire”, i.e. to fill up / complete an action and to fulfil a promise. Acting in accordance with advice given by the healthcare professional.

“Adherence” comes from the Latin word “adhaerere”, i.e. to cling to, keep close, or remain constant. Patients need to maintain sticking to a therapeutic regimen in order for the treatment to be successful, with the help of the healthcare professional.

“Concordance” implies that the healthcare professional and patient should come to an agreement between each other on the regimen that the patient will take.

Adapted from: Aronson JK. 2007. Compliance, concordance, adherence. *Br J Clin Pharmacol.* 63(4):383–384. doi:10.1111/j.1365-2125.2007.02893.x

Non-adherence

“It is estimated to cause 200,000 premature deaths every year in Europe at a cost to healthcare systems of 125 billion euros¹”

¹Medi-Voice project

“The WHO estimates that 50% of chronically ill patients do not properly adhere to their prescribed treatments²”

²WHO, 2003 - Adherence to Long-Term Therapies. Evidence for action.

Results of PGEU Medication Review Survey 2015

PGEU FS 15.09.23 FS006 Medication Reviews



What does “Medication Review” mean?

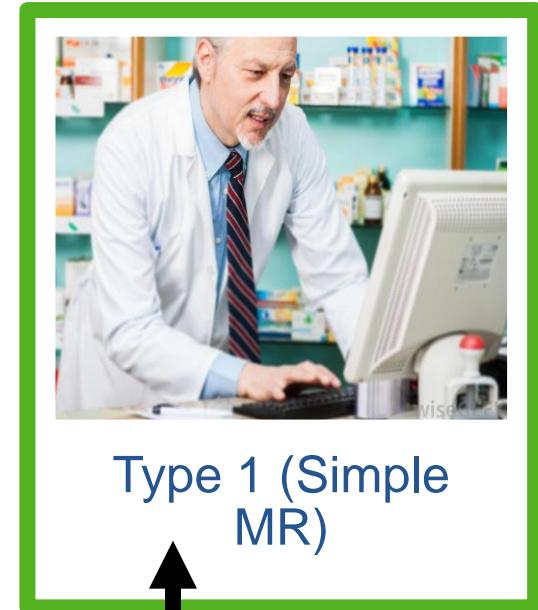
Access to shared patient records



Type 3 (Advanced MR)



Type 2
(Intermediate MR)

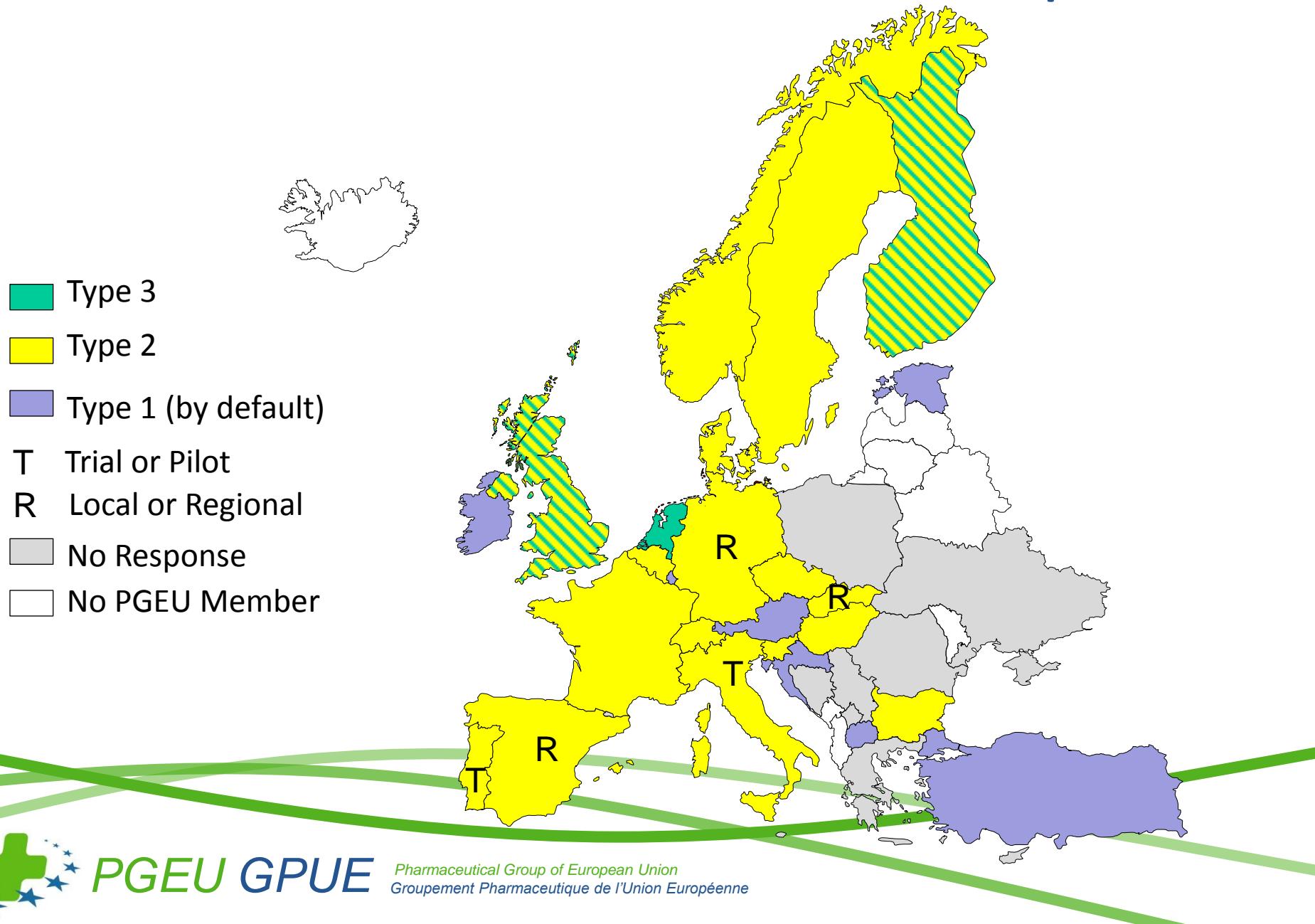


Type 1 (Simple MR)

http://www.pcne.org/upload/files/43_Proposal_MedRev_statement_V2.pdf

Pharmacists do this already

Medication Reviews in Europe



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Country Specific Examples



Essential Services

- Dispensing prescriptions
- Repeat dispensing
- Waste medicines disposal
- Night / on call services
- Diet & healthy lifestyle advice
- Signposting & referral

Advanced Services

- Medication reviews
- New medicines services
- Therapeutic patient education
- Needle exchange service
- Vaccinations
- Prescribing

Various Services

- Emergency contraception
- Smoking cessation
- Pregnancy testing
- Homecare services

Chronic Disease Management

- Diabetes management
- Asthma management
- Hypertension management

Measurement Services

- Blood pressure measurement
- Cholesterol measurement
- Glucose measurement
- Weight measurement

Portugal

- **New Pharmacy Contract:** New contract negotiated by Portuguese community pharmacists
 - Diabetes self-monitoring
 - Adherence monitoring programmes
 - Administration of seasonal flu vaccine
 - Needle exchange programme
 - Administration of opioid substitution therapy
 - Growth of the generics market
 - Other areas of intervention to be considered, eg. rapid test for detection of HIV



Portugal

Needle exchange programme(1):

- Implemented on 1st January 2015
- National coverage reached by March
- 56% of the Portuguese pharmacies involved in the programme
- 22,983 kits dispensed in pharmacies which corresponds to 45,966 syringes
- After 1 year, evaluation of the programme by an independent entity (Faculty of Economics of University of Oporto)



Ireland

- **Vaccinations:** Pharmacists contribute to a significant advancement towards the EU target of vaccinating 75% of the older age groups against influenza¹
- In 2014/15 season over **50,000 patients (1 in 10) vaccinated** by community pharmacists
- Influenza vaccines since 2011, **pneumococcal and shingles added in 2015**²



¹<http://file.ipu.ie/publications-40196/ipu-review-25861.html>

²<http://leovaradkar.ie/2015/10/varadkar-signs-new-law-allowing-trained-members-of-the-public-to-administer-life-saving-rescue-medicines/>

Spain

- **ADHIÉRETE:** Five patients per pharmacy, two used Personalized Dosage Systems (PDS), two used a mobile application (NNTT) and one used PDS along with an alert system associated with the PDS (PDS+App).
- After pharmacists' intervention, patient **adherence improved from 35% to 75.7%** (Morisky-Green Test)¹
- Problems and negative results associated with medication were **reduced by 33.4 %¹**
- **Patient satisfaction** with the Professional Pharmaceutical Service: **8 out of 10¹**



INFORME DE
RESULTADOS



¹http://www.portalfarma.com/Profesionales/InvestigacionFarmacia/Adhierete/Documents/ADHIERETE_Report_results_en.pdf

Belgium

- **ENM/BNM:** New medicines service (two follow-up consultations) for inhaled corticosteroid using asthma patients
- After 23 months **36.000 patients have benefited** from the service¹
- Plans to widen scope to other chronic conditions
- By September 2015, **data available on 1 in 3 Belgian citizens**



¹<http://www.apb.be>

Norway

- **Medisinstart Service** New medicines service (two follow-up consultations) for anticoagulants, statins, ACE inhibitors / ATII antagonists, calcium channel blockers and betablockers
- Patients experienced **fewer medication-related problems** after the 2nd consultation
 - Fewer experienced side-effects
 - Less worried about the treatment
 - The pharmacy met their information needs
 - Fewer had negative attitudes to the medication
 - Less unsure that the medication was working
 - Less problems with the medication
 - Patients are most afraid of side effects
- Patients would like this to be a **general service**

Nytteeffekter av

Medisin►start

- en åpen randomisert kontrollert studie av
en nyutviklet apotektjeneste



[https://clinicaltrials.gov/ct2/show/
NCT02261402](https://clinicaltrials.gov/ct2/show/NCT02261402)

France

- **New Medicines Service:** Two consultations for starting a vitamin K antagonist (VKAs). Nationally commissioned service¹
- From Jun 2013 to Sept 2015, **235.982 VKA interviews** performed^{x+1}
- **14.584 pharmacies** had established a VKA interview by Dec 2014 (63% out of approx. 22.500)²
- Patient satisfaction score of **8,7/10**²
- Dec 2014: service widened to **asthma medications** – awaiting data
- **Therapeutic Patient Education:** (TPE) – locally commissioned service
- **Dossier Pharmaceutique:** Oct 2015 – 99,7% pharmacies connected



¹<http://www.ordre.pharmacien.fr/Le-pharmacien/Champs-d-activites/L-education-therapeutique>

²http://www.ameli.fr/fileadmin/user_upload/documents/CP_Bilan_1_an_AVK_141217_01.pdf

England

- **Medicines Use Reviews (MURs) & New Medicines Services (NMS):** Semi-structured interview with patient in consultation room or over telephone
- **Target groups** (high risk medicines, post-discharge, respiratory & cardiovascular patients)
- Proven **cost effective** and to **improve adherence** by 10%¹
- In 2014/15: 3,172,107 MURs done²
- In 2014/15: 774,930 NMSs done³
- Seasonal influenza vaccinations (**300.000** in first 30 days of this season), PGDs, prescribing, Summary Care Records.....



¹The New Medicines Service Evaluation:
<http://www.nottingham.ac.uk/~pazmb/nms/>

²<http://psnc.org.uk/funding-and-statistics/nhs-statistics/mur-statistics/>

³<http://psnc.org.uk/funding-and-statistics/nhs-statistics/nms-statistics/>

Future Impacts....(1/2)

- Impact on the skills of future pharmacists
 - Pharmacists will increasingly complete training with the skills, knowledge and competencies required for their expanding clinical, patient-focused roles
 - Pharmacists will provide more health services, complement existing services and reduce the burden on other health services

Future Impacts.....(2/2)

- Impact on future pharmacists' workload
 - Pharmacists will retain their essential role in dispensing and supply
 - However they will increasingly extend their repertoire of activities and health services to more patient-focused, outcome-based services



**KEEP
CALM
AND
LOVE YOUR
PHARMACIST**



Благодаря!

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