

World Health Organization



Global Patient Safety Network Webinar Series Medication Safety: Implementing the Challenge

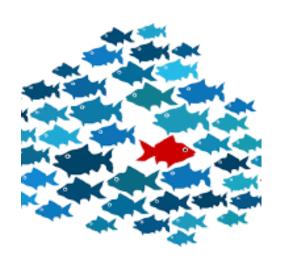
Addressing look-alike, sound-alike medicines: role of regulatory agencies

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WHO definition of Pharmacovigilance

Pharmacovigilance is the science and activities relating to the...







ASSESSMENT



UNDERSTANDING







PREVENTION

... of adverse effects or any other medicine related problem

Medication errors, Lack of effect, Quality problems

WHO/RPQ/REG/PVG



Burden of medication errors on public health

- Leading cause of harm in hospitals in developed countries (Bates, 2010).
- Estimates show that in developed countries as many as one in 10 patients is harmed while receiving hospital care due to medication errors (Bates, 2010).
- Look-alike or sound-alike medicinal products are listed one of the sources of medication errors (ASHP 1993).
- Different organizations in different levels are committed to the prevention.
 - Local
 - National
 - Global

Look-alike or sound-alike medicinal products



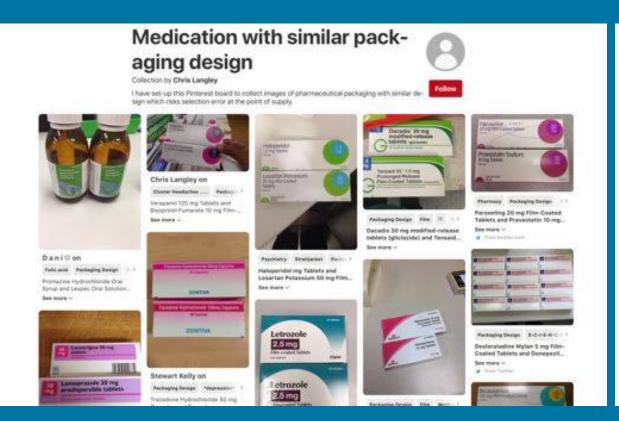


Table 1 – Examples of confused drug name pairs in selected countries Brand name is shown in italics—Nonproprietary name is shown in bold

Country	Brand name (Nonproprietary name)	Brand name (Nonproprietary name)
Australia	Avanza (mirtazapine)	Avandia (rosiglitazone)
	Losec (omeprazole)	Lasix (frusemide)
Brazil	Losec (omeprazol)	Lasix (furosemida)
	Quelicin (succinilcolina)	Keflin (cefalotina)
Canada	Celebrex (celecoxib)	Cerebyx (fosphenytoin)
	Losec (omeprazole)	Lasix (furosemide)
France	fluoxétine	Fluvoxamine
	Reminyl (galantamine hydrobromide)	Amarel (glimepiride)
Ireland	Losec (omeprazole)	Lasix (furosemide)
	morphine	hydromorphone
Italy	Diamox (acetazolamide)	Zimox (amoxicillina triidrato)
	Flomax (morniflumato)	Volmax (salbutamolo solfato)
Japan	Almarl (arotinolol)	Amaryl (glimepiride)
	Taxotere (docetaxel)	Taxol (paclitaxel)
Spain	Dianben (metformin)	Diovan (valsartan)
	Ecazide (captopril/hydrochlorothiazide)	Eskazine (trifluoperazine)
Sweden	Avastin (bvacizumab)	Avaxim (hepatitis A vaccine)
	Lantus (insulin glargine)	Lanvis (toguanine)

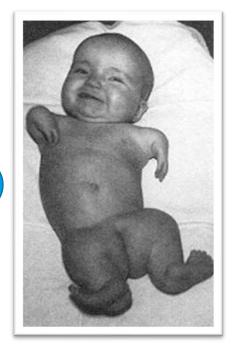
The foundation of the programme

After the thalidomide disaster



Resolution 16.36 (1963)

Invite Member States to arrange for a systematic collection of information on serious adverse drug reactions observed during the development of a drug and, in particular, after its release for general use.





Thalidomide – children born 1957 - 1963

The WHO programme for international drug monitoring (PIDM) was established in 1968.



WHO Programme for International Drug Monitoring

WHO
Programme for
International
Drug
Monitoring
(PIDM)
members



As of March 2021: The WHO PIDM has now a total of 171 Members

144 'Full Members' that share ICSRs* and 27 Associate Members

VigiBase[®]





The WHO global pharmacovigilance database managed and maintained by Uppsala Monitoring Centre (UMC)

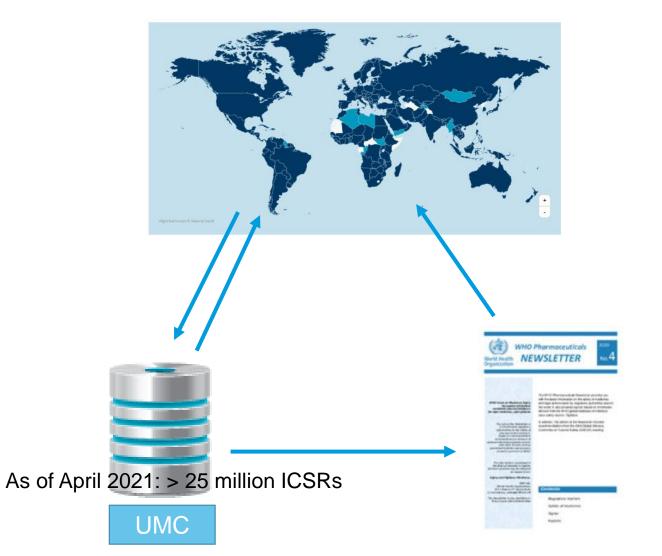
The oldest and largest ICSR* database

Freely accessible to National PV Centres

Signal detection

Aggregated data also accessible to the public (VigiAccess)

*Individual Case Safety Report







Identification

WHO workshop on Identification of Medicinal Products (IDMP) in Geneva, 2019, attended by regulators and industry.

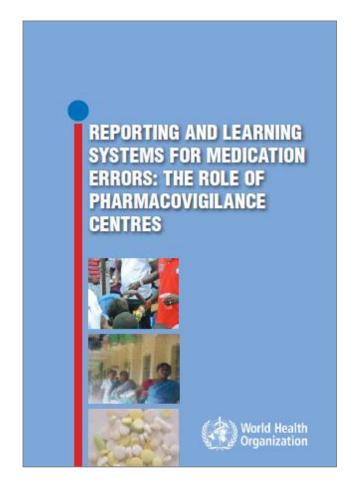
Discussions on PhPIDs (Pharmaceutical Product Identification) as a subset of IDMP (Identification of Medicinal Products).

Traceability





WHO publication regarding Medication Errors



Reporting and learning systems for medication errors: the role of Pharmacovigilance Centres. Geneva: World Health Organization; 2014. All rights reserved.



Conclusion

- Medication errors are also relevance to pharmacovigilance.
- The burden on public health of medication errors remains significant. Look-alike or sound-alike (LASA) medicinal products are listed one of the sources of medication errors.
- The collection of ICSRs serves the importance function to improve the safety profile of medicinal products including detection of medication errors and LASA medicinal products.
- WHO works on normative standards and tools to track and reduce the occurrence of medication errors.



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Thank you

