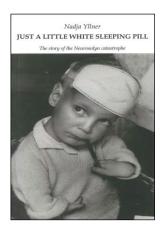
Uppsala Monitoring Centre Making Medicines Safer



Anna Hegerius, anna.hegerius@who-umc.org Senior Pharmacovigilance Education Specialist Research & Education Department



WHO Programme for International Drug Monitoring



1961 Thalidomide



1968 WHO creates the Programme for International Drug Monitoring (wно рюм)



1978 WHO and Swedish Government creates the WHO Collaborating Centre



Aim of the WHO PIDM

To ensure that early signs of previously unknown medicine-related safety problems are identified and information about them shared and acted upon.



WHO PIDM Member Countries (Oct 2020)



Full members: 140

Associate members: 30

Total: 170



WHO PIDM Annual Meeting

WHO Programme Annual Meeting

Each year the Annual Meeting of Representatives of National Pharmacovigilance Centres takes place in a member country of the WHO Programme for International Drug Monitoring.

43rd Annual Meeting

Date: the 2020 meeting has been postponed

Location: New Delhi, India

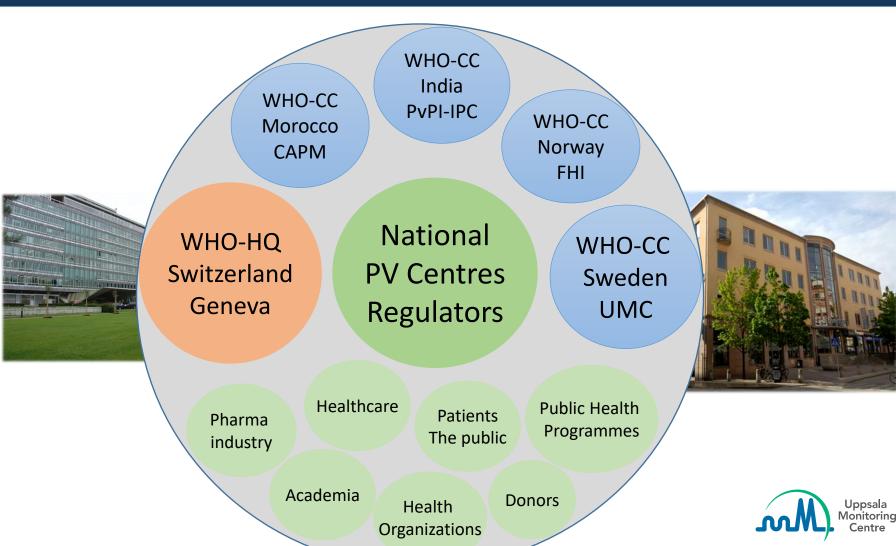
WHO Programme Annual Meeting







PV Stakeholder Overview



Uppsala Monitoring Centre (UMC)

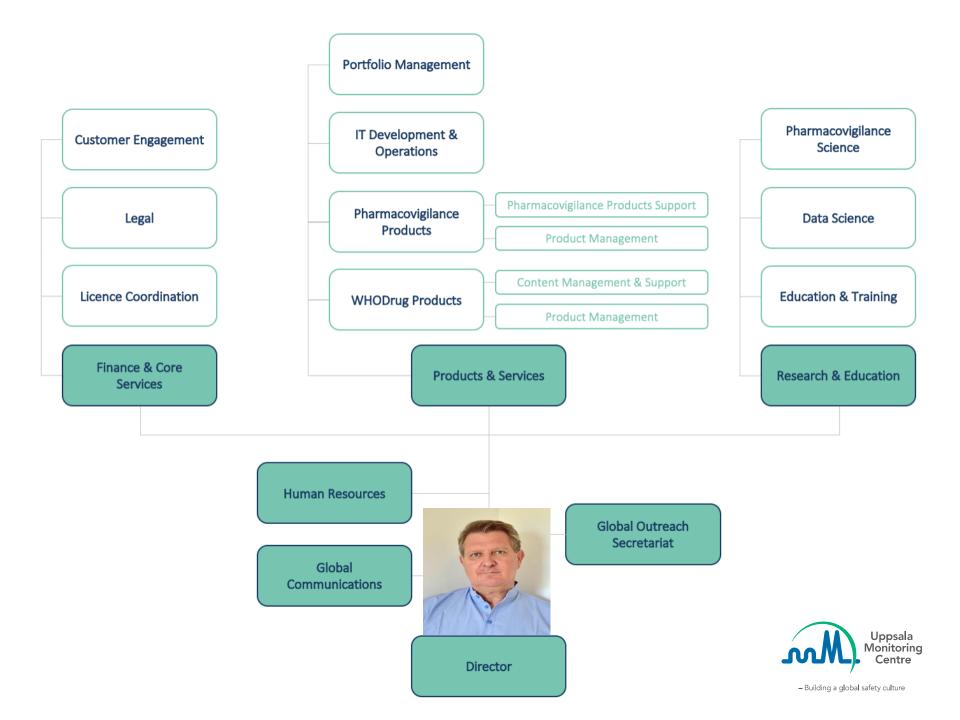
WHO Collaborating Centre for International Drug Monitoring

Non-profit foundation since 1978

 Provides scientific leadership and operational support to the WHO PIDM

- Manages VigiBase
- Maintains WHODrug Global
- Independent and self-funded
- International board





UMC Vision and Mission



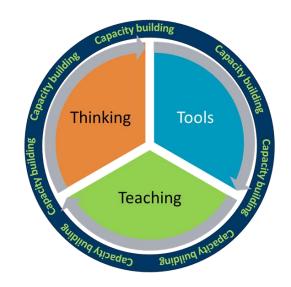
A world where all patients and health professionals make wise therapeutic decisions in their use of medicines

Support and promote patient safety through effective and global pharmacovigilance practice



Work Areas

- Provision of technology and support tools
- Teaching, training and advocacy
- Scientific development (thinking)





Provision of Technology and Support Tools

PV tools

- VigiFlow
- VigiLyze
- VigiAccess

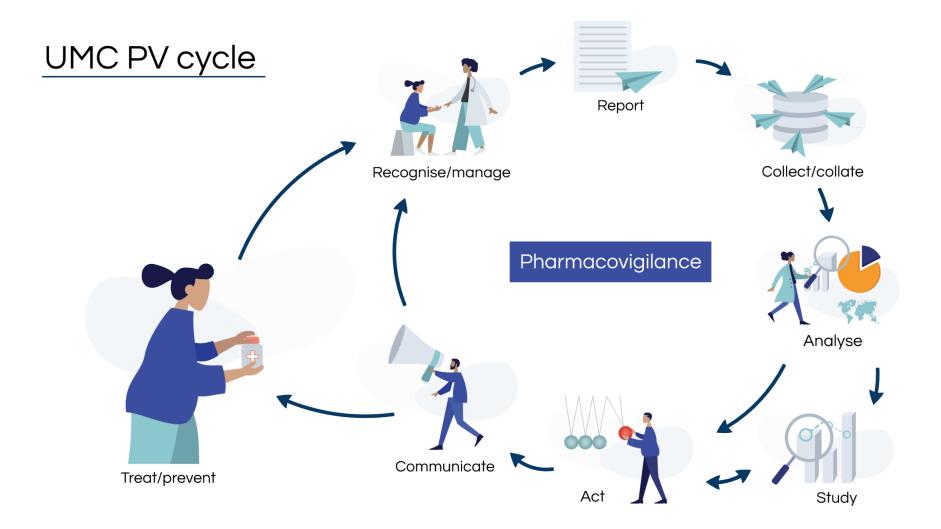
Clinical information

VigiBase

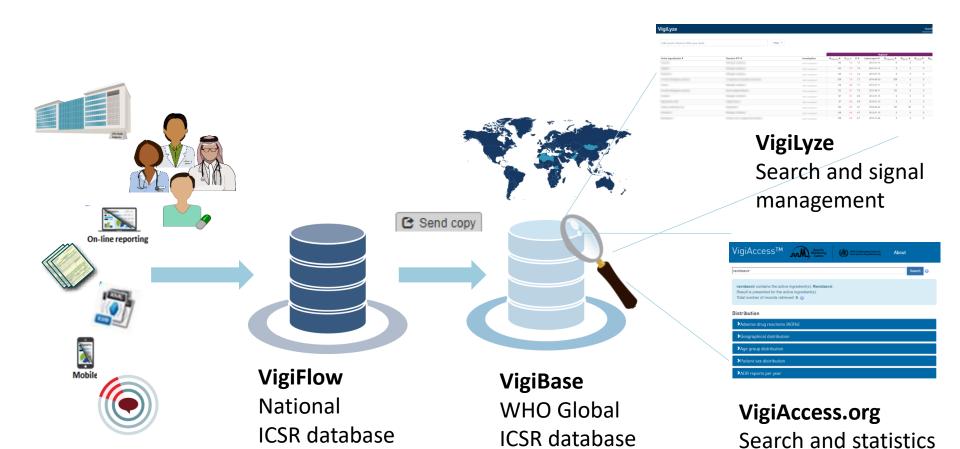
Dictionaries and terminologies

- WHODrug Global
- (MedDRA)





The Flow of ICSRs



Uppsala Monitoring Centre

- Building a global safety culture

VigiFlow – ICSR Data Management

- Collect, process, analyse and share ICSRs
- Web based and ICH E2B compliant
- WHODrug/MedDRA
- ADRs and AEFIs*
- For national (and regional) PV centres

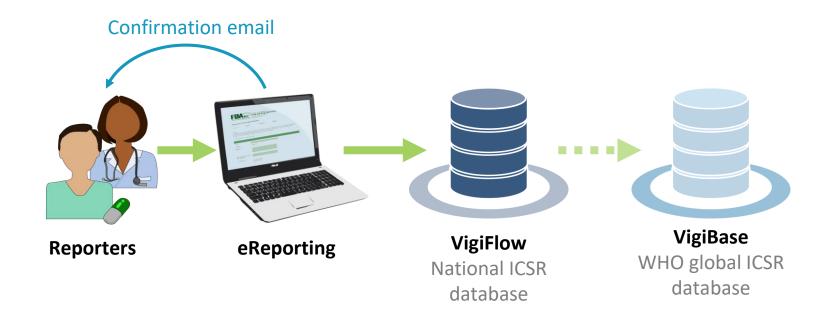


*AEFI = Adverse Event Following Immunization

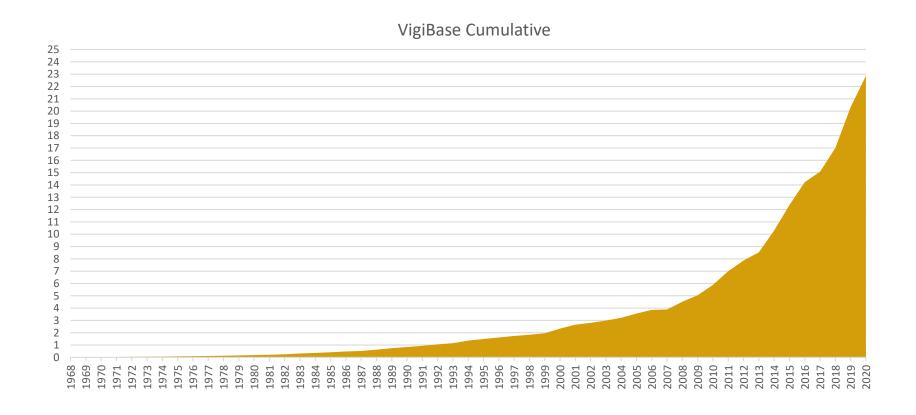
eReporting – An add-on module to VigiFlow

To facilitate electronic reporting from patients, healthcare professionals and pharma industry

- No delay in receiving the reports
- Off-loading the national PV centres

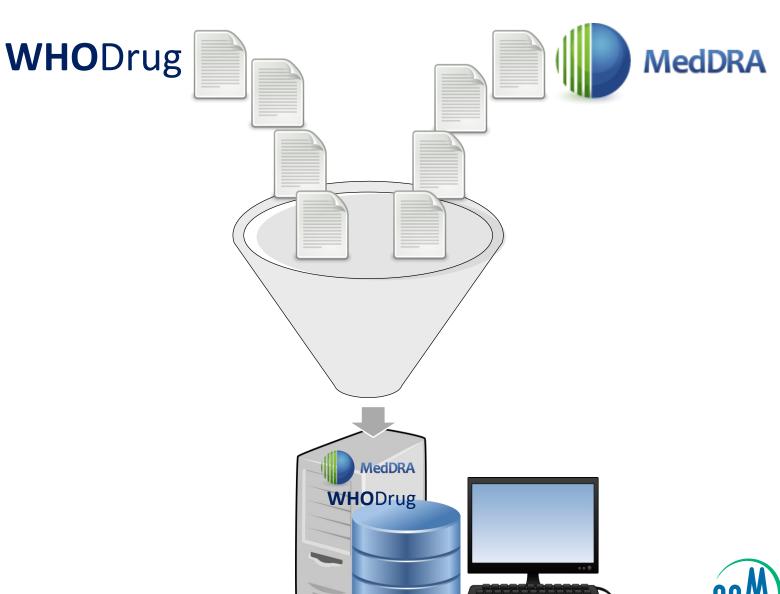


VigiBase – The WHO Global ICSR Database



> 20 million Individual Case Safety Reports (ICSRs)







WHODrug Global

- Drug reference dictionary + analytical tools
- Pharma companies / CROs
- Medicinal product info
- Biannual updates
- English and Chinese





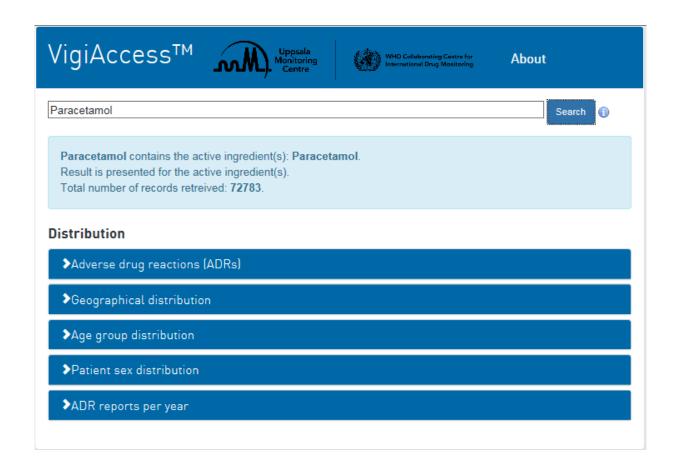
VigiLyze – Signal Management

- Web based tool to access VigiBase
- Graphical overview of data
- Search and analysis functions
- For national (and regional) PV centres





VigiAccess – For the Public





Training Offerings





PHARMACOVIGILANCE
TRAINING COURSE

March 4-15, 2019 New Delhi, India

6th ISoP-UMC Training Guayaquil, Ecuador 24-26 September 2018

Pharmacovigilance concepts and tools in Latin America.

BOOK YOUR PLACE NOW





General pharmacovigilance PLAY ALL

This playlist serves as a store of learning resources on various aspects of pharmacovigilance







The Need for Pharmacovigilance



WHO Programme for International Drug



Public Health Programmes from a Pharmacovigilance



Funding Pharmacovigilance
Uppsala Monitoring Centre



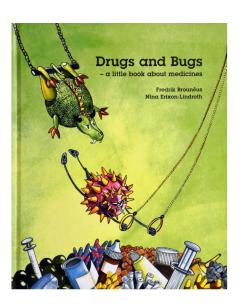
- Building a global safety culture

Advocacy - Raising PV Awareness









https://youtu.be/89lwQmddQrQ



Uppsala Reports



UMC Publications

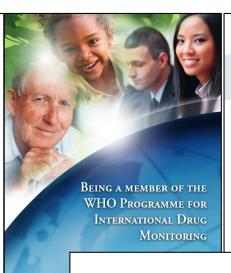


SAFETY MONITORING of MEDICINAL PRODUCTS

Guidelines for setting up and running

a Pharmacovigilance Centre









Sharing pharmacovigilance data in the WHO **Programme for International Drug Monitoring**

Reporting fact sheet

Frequency of transmissions
Member countries are expected to share their PV data on a regular basis; preferably more often than once a month, and at the very least every quarter, to keep Vigiliase as up-to-date

Aiming for the shortest possible lag-time from the event to availability of the KSR in Vogilase is important in order to facilitate early discovery of new potential safety signals in the data – the core mission of the WHO Programme.

ICSRs on ordinary allogathic medicines, traditional medicines (herbals), as well as biological medicines, including vaccines, should be shared. Medicines in combination with medical devices (for example coased ments of booking between the coased

Case report content – quality versus quantity

The minimum information required for an ICSR to be valid in

The form of the form



Examples and good practice in designing an ADR reporting form

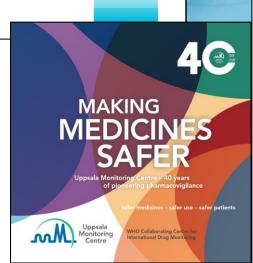
A national Adverse Drug Reaction (ADR) reporting form is used for collecting information about a suspected adverse event for analysis at a national pharmacovigilance centre. This document will help you design a user-friendly form and ease the process of submitting reports.

ADR forms are still the main way for sharing information between people who experience an adverse event and decision makers in the national healthcare system. Correct and timely information is necessary to make the risk-benefit analysis of medicines that can prevent future problems. This document will focus on ADR forms, both printed and online, for reporting Individual Case Safety Reports (ICSRs).

A well designed form will encourage and support the reporter in providing good quality ICSRs.

Helping the reporter to understand the ADR form and making the workflow as easy as possible is an important part of successful pharmacovigilance. Another important aspect of making ADR forms is to decide what information you need to collect to know more about that, please read the UMC's document "ICSRs and VigiBase - the vital importance of quality" (available on the UMC homepage via this link).

The first question to ask when designing an ADR form is 'who will fill it in'? Will it be a healthcare professional or a patient? Will the form be filled in under stress before seeing the next patient or done carefully at home? The answer to this question will influence all isions you make about the design of the form. Figure 1 shows the patient online reporting form in Australia where the patient is asked for their story, and not using medical







UMC Website, Podcast and Social Media





Welcome to Uppsala Monitoring Centre!

A global culture of patient safety

Our ambition is to help make the world a better place for patients and their communities. Whether you are citizen, patient, scientist or professional, we hope you'll find something interesting and useful to you on the site. We're always pleased to hear from you; contact us here.





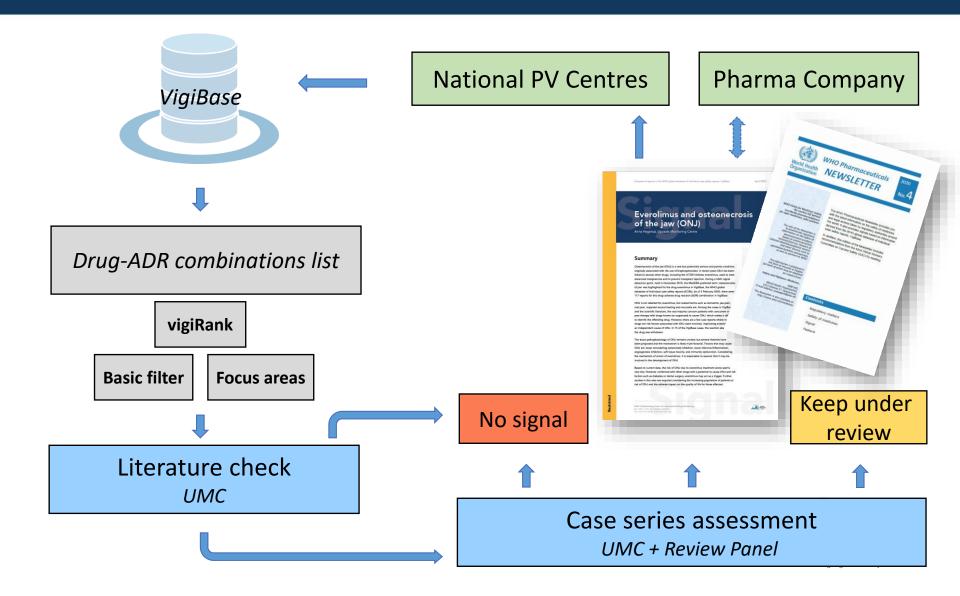
Scientific Development

Explore the risks and benefits of medicines, advancing the science of pharmacovigilance

- Signal detection and assessment
- Methodological research, e.g.
 - vigiGrade (report quality)
 - vigiMatch (duplicate detection)
 - vigiRank (statistical signal detection)

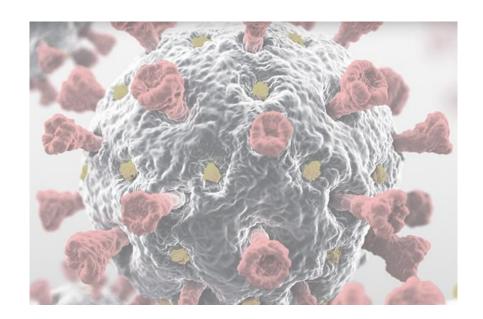


UMC Signal Detection Process



COVID-19 Treatment

- Drugs for COVID-19 are used off-label, repurposed or experimentally
- Unclear benefit-risk balance for COVID-19





Social Media

COVID-19: reporting suspected side effects of medicines

Help us understand how medicines act in COVID-19

We encourage **healthcare professionals** to report all suspected side effects their COVID-19 patients experience while infected, including with medicines intended to treat the disease or pre-existing conditions.

Suspected side effects should be reported even if the medicine is not authorised for use in COVID-19.







So, What Does UMC Do?

- COVID-19 working group
- Regular reviews on COVID-19-related ICSRs
- Shared on VigiLyze and by WHO
- Guidelines for coding and analysis
- Paper on sex differences in reported ADRs

Original Research Article | Open Access | Published: 25 September 2020

Sex Differences in Reported Adverse Drug Reactions to COVID-19 Drugs in a Global Database of Individual Case Safety Reports

<u>Alem Zekarias</u> [™], <u>Sarah Watson</u>, <u>Sara Hedfors Vidlin</u> & <u>Birgitta Grundmark</u>

Drug Safety (2020) Cite this article



Most Reported COVID-19 Drugs

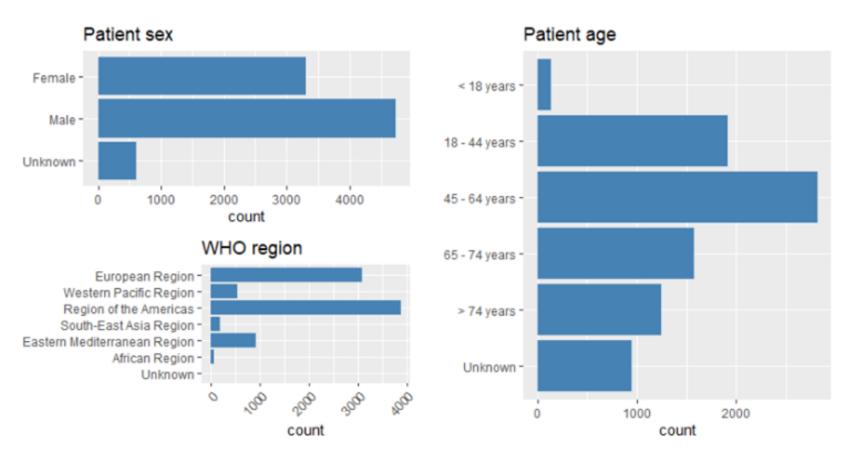
Drug	N total
Hydroxychloroquine	2814
Remdesivir	2540
Azithromycin	1784
Lopinavir/Ritonavir	1154
Tocilizumab	669
Other	625
Chloroquine	448
Glucocorticoids	352
Heparins	267
Ivermectin	261
Favipiravir	226
Oseltamivir	187
Sarilumab	161
Unique reports	8643

Reporting counts for all the drugs with 100 or more unique reports. N total includes reports received to VigiBase no later than the 4th of October.

Other drugs are selected from medical expertise from the set of corona virus indicated drugs reported to VigiBase.

Counts include suspected or interacting drugs. As one report may contain several drugs, rows are not mutually exclusive.

Patient Characteristics



Roll-out of Covid-19 Vaccines

- Analytical approaches for the global data
- Advocacy for use of global data and minimised lag time in this situation
- Adapting the PV products
 - VigiFlow will be equipped with fit-for purpose data entry and local/national analysis support
 - VigiLyze will get improved search for vaccines and disproportionality calculations at levels appropriate for analysis of these vaccines



Thank you for your attention!



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