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- ✘ Introduction
- ✘ Pharmacovigilance in India
- ✘ Scope and Objectives
- ✘ Mission
- ✘ Vision
- ✘ Short Term Goals

Pharmacovigilance in India :-

✘ Introduction :-

- ✘ Pharmacovigilance is a system to monitor the safety and effective of medicines and other pharmaceutical products.

✘ As per WHO :-

- ✘ Pharmacovigilance as “science and activities relating to the detection assessment, understanding and prevention of adverse effects or any other possible drug-related problems”.

✘ Background :-

- ✘ 1989 – ADR monitoring system for India proposed (12 regional centers) .
- ✘ 1998 – India joined WHO- ADR monitoring programmed (3 centre's : AIIMS, KEM (King Edward Memorial) , , AMU (Aligarh Muslim University)
- ✘ 2004 – 2008 – National Pharmacovigilance Programmed .
- ✘ (* 2 Zonal , * 5 Regional , * 24 Peripheral , * Overseen by CDSCO)
- ✘ 2010 – Pharmacovigilance Programmed of India .

✘ Mission of Pharmacovigilance program in India :-

- ✘ Initiated with AIIMS, New Delhi as National Coordination Centre (NCC) for monitoring ADRs in the country July 2010, shifted to India Pharmacopoeia Commission (IPC) , Ghaziabad on 15th April 2011 .

✘ Vision :-

- ✘ To improve patient safety and welfare of India population by monitoring the drug safety reducing the risk associated with use of medicines.

✘ Mission :-

- ✘ Safeguard the health of the Indian population by ensuring that the benefits of use medicine outweigh the risk associate with its use .

National Pharmacovigilance program (NPP) :-

- ✘ The National Pharmacovigilance Program (NPP) officially inaugurated by the Central Health Minister at New Delhi.

Objective of Pharmacovigilance Programmed of India :-

- ✘ To create a nation system for patient safety reporting.
- ✘ To identify and analyse the new signal ADR from the reported cases.
- ✘ To generate the evidence- based information on safety of medicines.
- ✘ To support regulatory agencies in the decision- making process on use of medicines.
- ✘ To communicate the safety information on use of medicine to various stakeholders to minimize to the risk.
- ✘ To provide training and consultancy to other national Pharmacovigilance centers locates across globe.
- ✘ To collaborate with other national centre's for the exchange of information and data management.

Short term goals :-

- ✘ To develop and implement pharmaco-vigilance system in India.
- ✘ To enroll , initially , all MCI approved medical colleges in the program covering north , south , east and west of India.
- ✘ To encourage healthcare professionals in reporting of adverse reaction to drugs, vaccines, medical devices and biological products.
- ✘ Collection of case report and data.

Long term goal:-

- ✘ To expand the Pharmacovigilance programme to all hospitals (govt. & private) and centers of public health programs located across India.
- ✘ To develop and implement electronic reporting system (e- reporting).
- ✘ To develop reporting culture amongst healthcare professionals.
- ✘ To make ADR reporting mandatory for healthcare professionals.

PERFORMANCE & EFFECTIVENESS OF THE PHARMACOVIGILANCE SYSTEM		
Who can Report	What to Report	Whom to Report
Healthcare professionals (clinical, dentist , pharmacist, nurses and other) can report suspected adverse drug reaction. Pharmaceutical companies can also send ICSRs specific for their product to NCC.	All type of suspected ADRs-irrespective of whether they are know or unknown, serious and non-serious, frequently or rare. Although Pharmacovigilance is primarily concerned with pharmaceutical medicines, adverse reactions associated with drugs used in traditional medicine (e. g. herbal remedies) should also be considered.	Use the 'Suspected Adverse Drug Reaction Reporting form' which is available on the official website of IPC (www.ipc.gov.in) as well as CDSCO (www.cdsc0.nic.in) to report any ADR. A reporter who is not a part of AMC can submit the ICSR to the nearest AMC or directly to the NCC.

Organization committees under NCC :-

- ❖ Steering Committee
- ❖ Working Group
- ❖ Quality Review Panel
- ❖ Core Training Panel
- ❖ Signal Review Panel

NCC working module :-

- ✘ Letter of intent AMCs Coordinator

- × NCC - PvPI
- × Examine the Suitability
- × Approved by NCC
- × Vigi- Flow login provided by NCC to AMCs
- × AMCs- To perform the causality of the ADRs and furnish the mandatory field in the suspected ADRs form
- × AMCs- upload the ADR in Vigi- Flow send to
- × NCC – PvPI

Responsibilities of stakeholder :-

- × **Personnel at AMC :-**
- × Collection of ADR reports
- × Perform follow up the complainant to check completeness as per SOPs.
- × Reporting to PvPI National Coordinating Centre.
- × Training/ sensitization / feedback / to physicians through newsletters circulated by the PvPI NCC.

Personnel at NCC :-

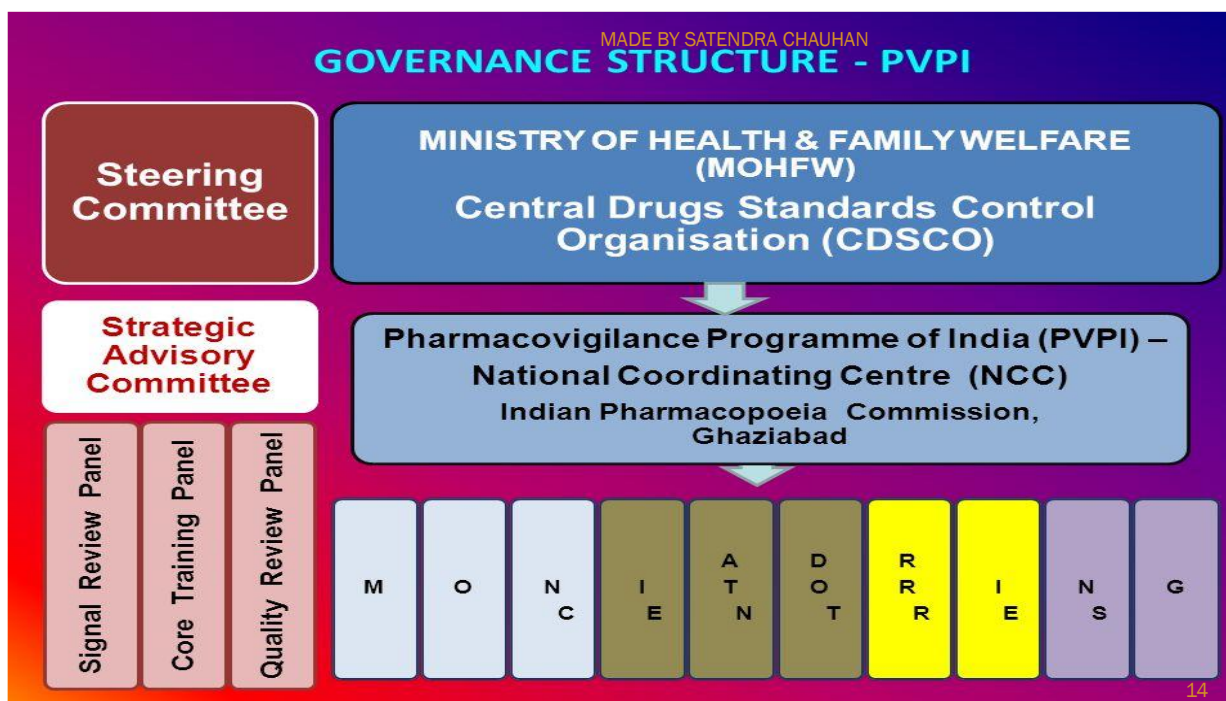
- × Preparation of SOPs, guidance documents & training manuals.
- × Data collation, Cross- check completeness , Causality Assessment etc as per SOPs.
- × Conduct Training workshops of all enrolled centers
- × Publication of Medicines Safety Newsletter.
- × Reporting to CDSCO Headquarters.
- × Analysis of the PMS, PSUR, AEFI data received from CDSCO HQ.

Personnel at zonal/ sub – zonal CDSCO :-

- × Provide procurement , financial and administrative support to ADR monitoring centers.
- × Report to CDSCO HQ

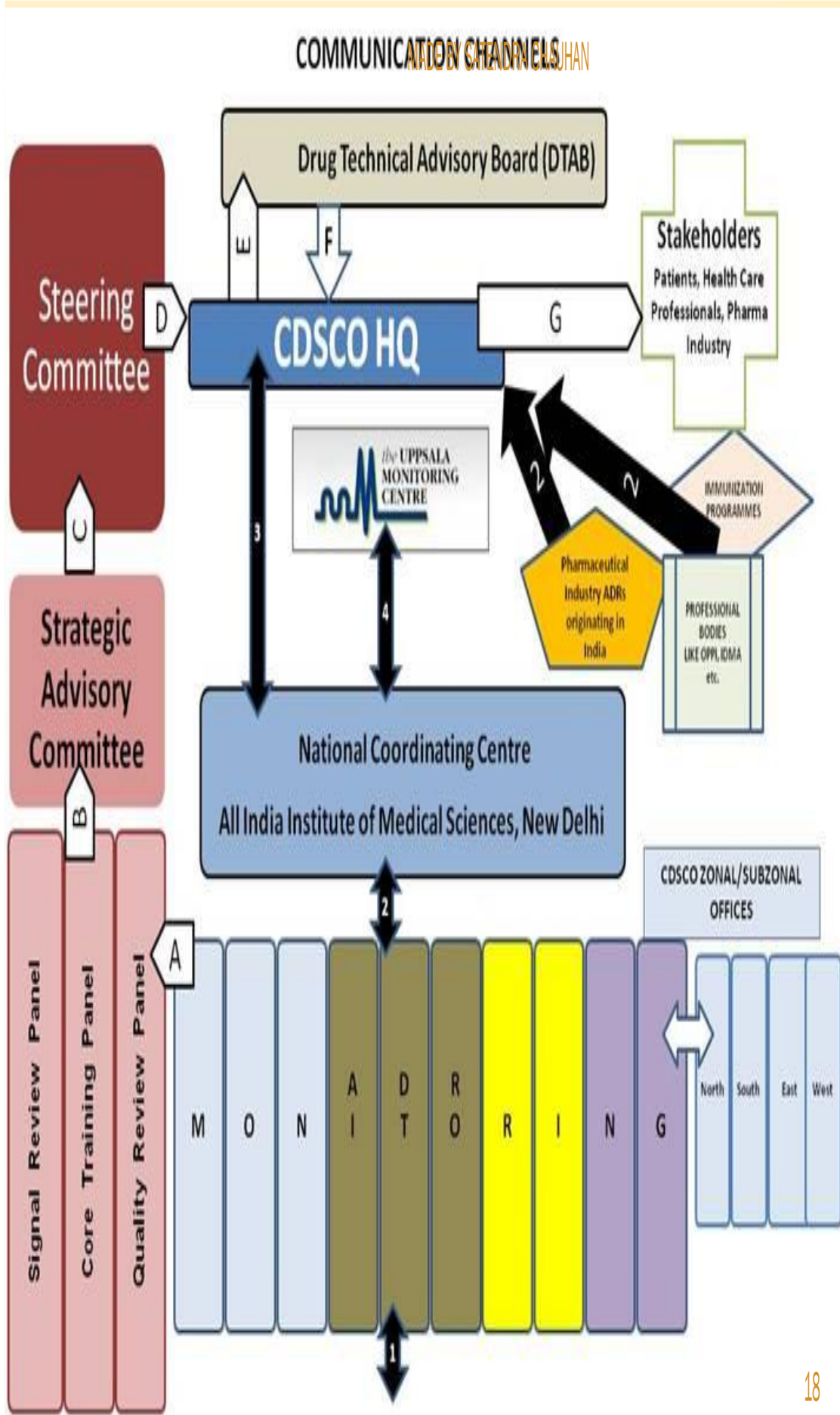
✘ Personnel at CDSCO HQ :-

- ✘ Take appropriate regulatory decision & action on the basis of recommendation of PvPI NCC at IPC Ghaziabad.
- ✘ Propagation of medicine safety related decision to stakeholders.
- ✘ Collaboration with WHO- Uppsala Monitoring Centre – Sweden.
- ✘ Provide for budgetary provisions & administrative support to run PvPI.



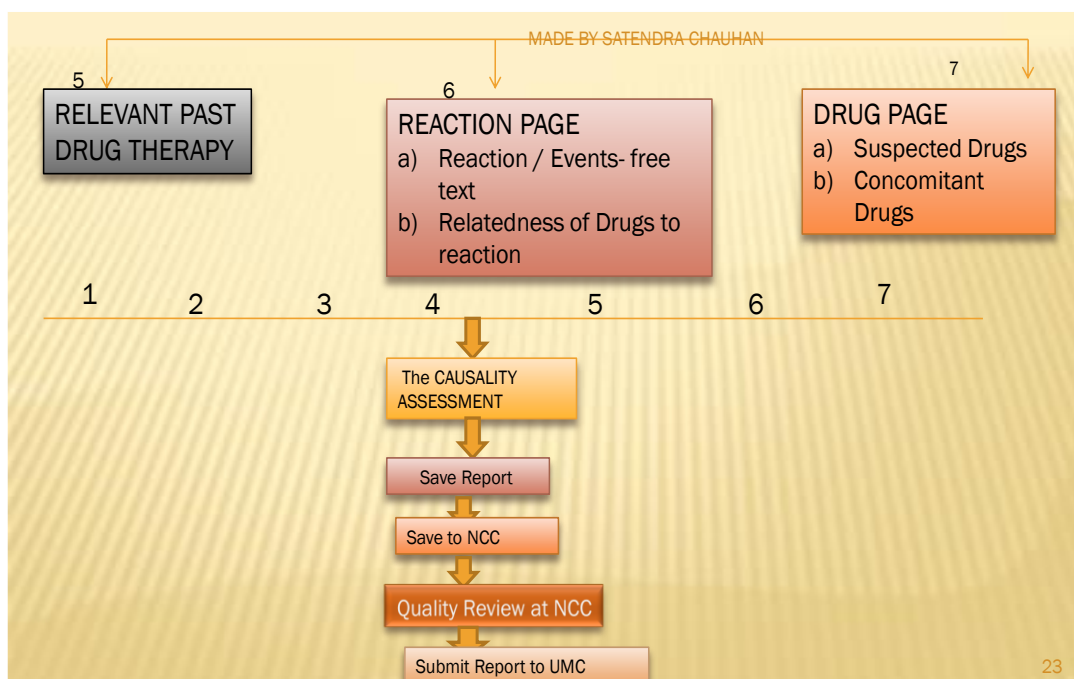
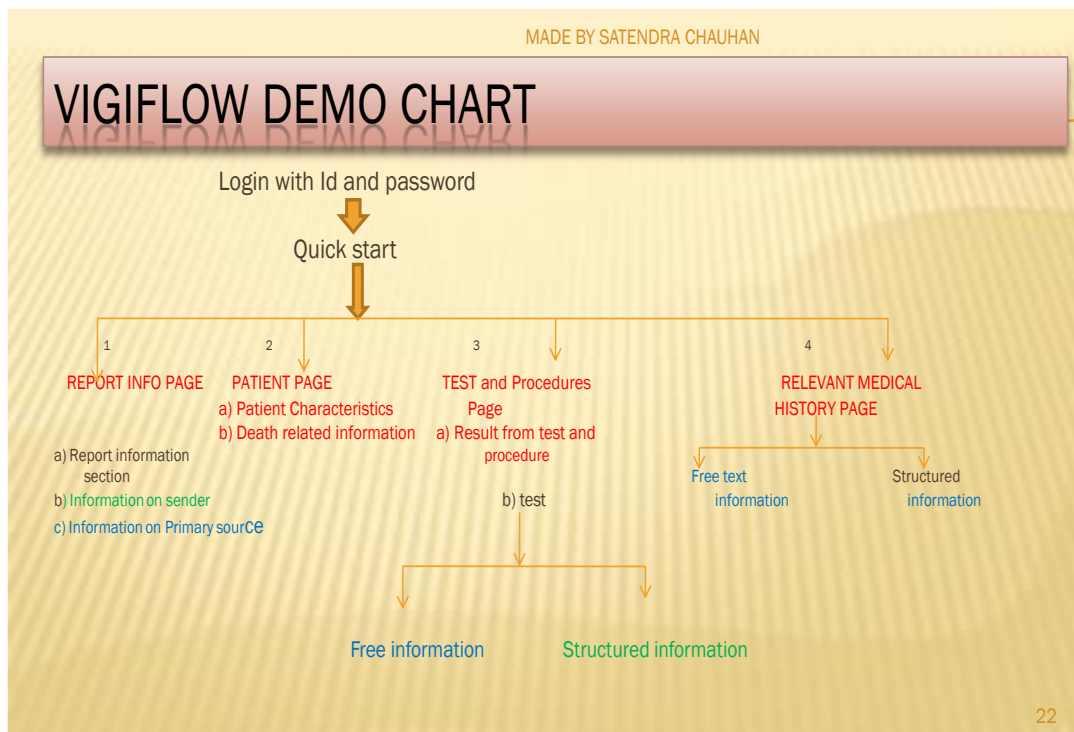
Phase or road map of PvPI :-

- ✘ Initiation phase (2010 – 2011)
- ✘ Expansion and consolidation phase (2011-2012)
- ✘ Expansion and maintenance phase (2012- 2013).
- ✘ Expansion and optimization (2013 – 2014)
- ✘ Excellence phase (2014 – 2015).



Vigiflow:-

- ✘ Vigiflow is an Individual Case Safety Report (ICSR) management system developed and hosted by Uppsala monitoring centre(UMC) .
- ✘ How to access Vigiflow
- ✘ Web address : <https://adr.who-umc.org>
- ✘ Log in is done with a personal user name and password
- ✘ From the secure web – page.
- ✘ The minimum information you have to enter on a spontaneous report for it to be considered 'complete' by Vigiflow is the following six mandatory fields :-
 - ✘ 1. Report title
 - ✘ 2). Patient initial
 - 3). Patient age (either DOB, age at time of onset or age group)
 - ✘ 4). Onset date
 - ✘ 5). Reaction term 6).
 - ✘ Drug name
- ✘ Vigiflow demo chart :-
- ✘



THANK YOU !



**CHHATRAPATI SHAHUJI MAHARAJ
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**SCHOOL OF PHARMACEUTICAL
SCIENCES**

ASSIGNMENT -2

**On Topic- Industry and National
Programmed related to Pharmacovigilance**



**Subject. Clinical Research &
Pharmacovigilance (MPL-204T)**

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- **Introduction**
- Pharmacovigilance in India
- **Scope and Objectives**
- **National Related programmers (NRP)**
- **Why Pharmacovigilance**
- **Methods in Pharmacovigilance**
- **Spontaneous reporting**
- **Mission**
- **Vision**



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Introduction :-

- **Pharmaco - Vigilance**
- ❖ Pharmakon = Medicine
- ❖ Vigilance = To keep watch
- ❖ Alter of watchfulness
- ❖ In respect of danger ; care ; caution
- ❖ **Introduction :-**
- ❖ Pharmacovigilance is a system to monitor the safety and effective of medicines and other pharmaceutical products.
- ❖ **As per WHO :-**
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Why Pharmacovigilance

- Incomplete information collected during the pre- marketing phase of drug.
- ADRs are leading cause of morbidity and mortality in both developing and developed world.
- 4th leading cause of death in USA.

- 30 – 70 % of all ADRs are Preventable .

They increase cost of patient care and loss of patient confidence in health care system.

Methods in Pharmacovigilance

- Passive surveillance
- Spontaneous reporting
- Case series Study
- Stimulated reporting
- Active surveillance
- Comparative observational studies
- Cross sectional , case control and cohort studies
- Targeted clinical investigations
- Descriptive studies.

Spontaneous reporting :-

- Health care professional describes his/ her own observation of a suspected ADR with marketed drug.
- USA - Med watch program
- UK - yellow card system

Impact of yellow card scheme :-

Year	Medicine	Adverse reaction
2014	Voriconazole	Liver and photo toxicity, squamous cell carcinoma
2014	TNF alpha inhibitor	Risk of TB
2013	Risperidone and paliperidone	Intraoperative floppy iris syndrome during cataract surgery
2012	Statins	Hyperglycemia and diabetes
2011	Citalopram and escitalopram	QT interval prolongation
2009	Finasteride	Potential risk male breast cancer
2003	Aspirin	Reyes syndrome in children's under 16 years

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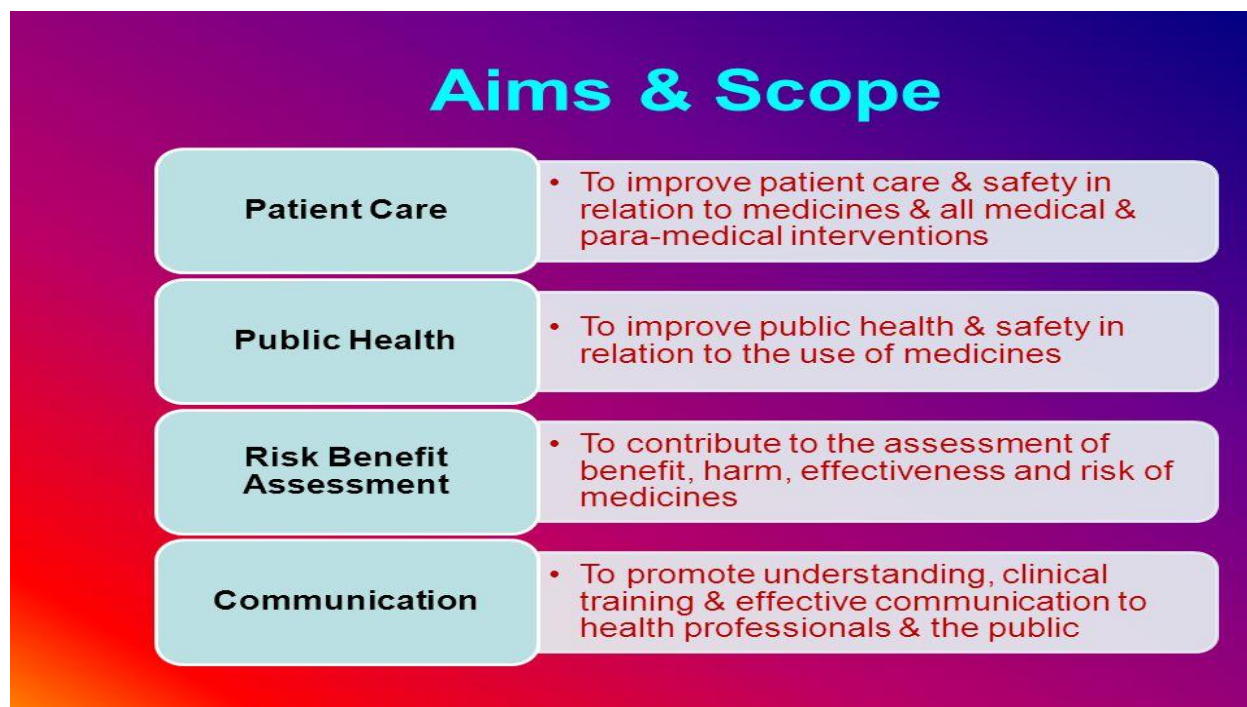
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Why do need Pharmacovigilance In India ?

- India is a vast country with a population of over 1 – 2 billion with
- Vast ethnic variability
- Different disease prevalence patterns
- Practice of different system of medicines
- Different socioeconomic status .

Pharmacovigilance in India :-

- Background :-
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National Pharmacovigilance program (NPP) :-

- The National Pharmacovigilance Program (NPP) officially inaugurated by the Central Health Minister at New Delhi
- **Established in 1968, the WHO Programme for International Drug Monitoring (PIDM)** provides a global platform for Member States to exchange safety and regulatory information on all medicines and vaccines.

National Pharmacovigilance program (NPP) :-

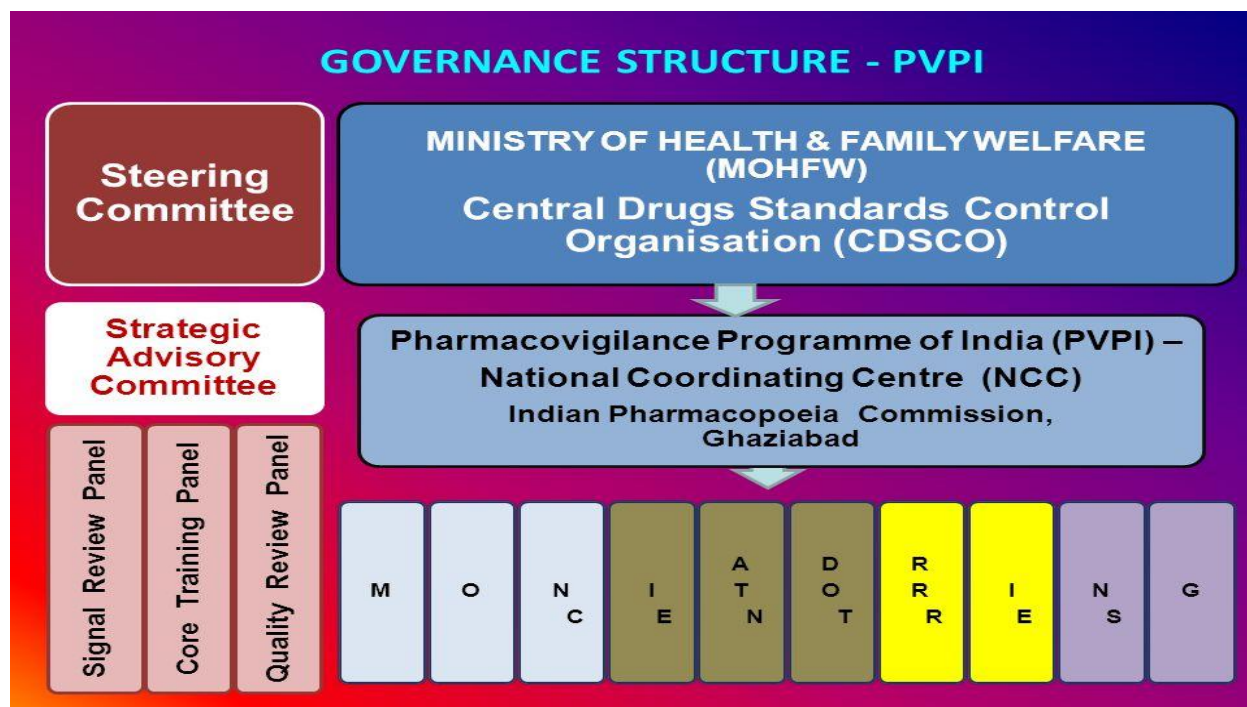
- **Pharmacovigilance is the science of monitoring and assessing the safety, efficacy, and quality of drugs through pre-marketing clinical trials and post-marketing surveillance.** Its main objective is to detect adverse effects that may arise from using various pharmaceutical products.

The Uppsala Monitoring Centre (UMC, WHO), Sweden is maintaining the international database of adverse drug reaction (ADR) reports received from several National Centre's. In September 2005, the database had 3.5 million adverse drug reaction reports and 78 countries were participating in this programme. Vigibase online (web based) system is used for submission of ADR reports.

Who to Report ?

- Use the 'Suspected Adverse Drug Reaction Reporting form' which is available on the official website of IPC (www.ipc.gov.in) as well as CDSCO (www.cdsc.nic.in) to report any ADR. A

reporter who is not a part of AMC can submit the ICSR to the nearest AMC or directly to the NCC.



National Coordinating Center :-

- Preparation of SOPs, guidance documents & training manuals
- Cross check completeness, causality assessment as per SOPs.
- Reporting to CDSCO headquarters
- Conduct training workshop of all enrolled centers.
- Publications of medicine safety newsletters.

Personnel at zonal/ sub – zonal CDSCO :-

- Provide procurement , financial and administrative support to ADR monitoring centers.
- Report to CDSCO HQ
- **Personnel at CDSCO HQ :-**
- Take appropriate regulatory decision & action on the basis of recommendation of PvPI NCC at IPC Ghaziabad.
- Propagation of medicine safety related decision to stakeholders.

- Collaboration with WHO- Uppsala Monitoring Centre – Sweden.
- Provide for budgetary provisions & administrative support to run PvPI

Which is the National Pharmacovigilance Centre?

- All India Institute of Ayurveda, New Delhi is the National Pharmacovigilance Co-ordination Centre (NPvCC) for implementation of the Pharmacovigilance program for ASU & H Drugs.

Regional Centers Under PvPI :-

- These regional centers are recognized as regional Resource Center.
- Eastern Region : IPGMER , Kolkata
- Western Region : KEM Hospital , Mumbai
- Northern Region : PGIMER- Chandigarh
- Southern Region : JSS Hospital , Mysore.

What is the importance of Pharmacovigilance for industry?

- The Pharmacovigilance team in WHO aims to **assure the safety of medicines and vaccines by ensuring reliable and timely exchange of information on safety issues**, promoting Pharmacovigilance activities throughout the Organization and encouraging participation in the WHO Programme for International Drug Monitoring.

What is the scope of Pharmacovigilance in pharmaceutical industry :-

- **Pharmacovigilance involves activities related to understanding assessment, detection and prevention of adverse effects or any other drug-related problems**
- The aims of Pharmacovigilance within the industry are essentially the same as those of regulatory agencies; that is to protect patients from unnecessary harm **by identifying previously unrecognized drug hazards, elucidating pre-disposing factors, refuting false safety signals and quantifying risk in relation to benefit.**
- Although the perspectives of companies and the regulatory agencies may be different they now work more and more closely together and share information.

SUSPECTED ADVERSE DRUG REACTION REPORTING FORM
 For VOLUNTARY reporting of Adverse Drug Reactions by Healthcare Professionals

INDIAN PHARMACOPOEIA COMMISSION <small>(National Co-ordination Centre, Pharmacovigilance, Programme of India) Ministry of Health & Family Welfare, Government of India Section-23, Ring Road, Okhla, New Delhi-110025 www.ipc.nic.in</small>					FOR AMC/NCC USE ONLY						
A. PATIENT INFORMATION					AMC Report No. _____						
1. Patient Initials _____					Worldwide Unique No. _____						
2. Age at time of Event or Date of Birth _____					12. Relevant test/laboratory data with dates _____						
3. M <input type="checkbox"/> F <input type="checkbox"/> Other <input type="checkbox"/>					13. Relevant medical/ medication history (e.g. allergies, race, pregnancy, smoking, alcohol use, hepatic/renal dysfunction etc.) _____						
4. Weight _____ Kgs					14. Seriousness of the reaction (Yes <input type="checkbox"/> No <input type="checkbox"/>)						
B. SUSPECTED ADVERSE REACTION					<input type="checkbox"/> Death (dd/mm/yyyy) <input type="checkbox"/> Congenital anomaly <input type="checkbox"/> Life threatening <input type="checkbox"/> Required intervention to prevent permanent impairment/damage <input type="checkbox"/> Hospitalization/Prolonged <input type="checkbox"/> Disability <input type="checkbox"/> Disability <input type="checkbox"/> Other (specify) _____						
5. Date of reaction started (dd/mm/yyyy) _____					15. Outcomes						
6. Date of recovery (dd/mm/yyyy) _____					<input type="checkbox"/> Recovered <input type="checkbox"/> Recovering <input type="checkbox"/> Not recovered <input type="checkbox"/> Fatal <input type="checkbox"/> Recovered with sequelae <input type="checkbox"/> Unknown						
7. Describe reaction or problem _____											
C. SUSPECTED MEDICATION(S)											
S.No	Name (Brand/Generic)	Manufacturer (if known)	Batch No. / Lot No.	Exp. Date (if known)	Dose used	Route used	Frequency (OD, BD etc.)	Therapy dates		Indication	
I								Date started	Date stopped		
II											
III											
IV											
8. Action Taken								10. Reaction reappeared after reintroduction			
S.No	Dose withdrawn	Dose increased	Dose reduced	Dose not changed	Not applicable	Unknown	Yes	No	Effect unknown	Dose (if reintroduced)	
I											
II											
III											
IV											
9. Concomitant medical product including self medication and herbal remedies with therapy dates (Exclude those used to treat reaction)								D. REPORTER DETAILS			
17. Causality Assessment: Additional Information: _____								16. Name and Professional Address: _____ Pin: _____ E-mail: _____ Tel. No. (with STD code): _____ Signature: _____ Occupation: _____			
18. Date of this report (dd/mm/yyyy): _____											
Confidentiality: The patient's identity is held in confidence to the fullest extent practicable and will not disclose the reporter's identity in a form accessible to the public. Submission of a report does not constitute an admission that medical personnel or manufacturer or the product caused or contributed to the reaction.											

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