Clinical Pharmacy Services

Patient Medication History Interview

Definition

- Patient medication history interview is the systematic collection of complete and accurate information about a patient's current and past medication use.
- Information is obtained from the patient, caregiver, and other reliable sources.
- It is an essential component of clinical pharmacy practice.

Objectives of Patient Medication History Interview

- To obtain accurate medication information.
- To identify medication-related problems.
- To prevent medication errors.
- To improve patient safety.
- To assist in treatment planning.

Sources of Medication History

1. **Patient**
   - The patient is the primary source of medication information.
   - Information about medicines currently being used can be obtained.
2. **Caregiver or Family Member**
   - Information may be obtained from family members when the patient is unable to communicate.
3. **Medical Records**
   - Previous prescriptions and treatment records can be reviewed.
4. **Community Pharmacy Records**
   - Dispensing records may provide useful information.
5. **Medication Containers**
   - Medicine strips, bottles, and packages can help identify medications.

Information Collected

1. **Prescription Medications**: All prescribed medicines currently or previously used.
2. **Over-the-Counter (OTC) Medications**: Non-prescription medicines.
3. **Herbal Products**: Herbal and traditional remedies.

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4. **Dietary Supplements**: Vitamins and nutritional supplements.
5. **Allergy History**: Drug allergies and previous allergic reactions.
6. **Medication Adherence**: Compliance with prescribed therapy.

Steps in Conducting the Interview



1. **Introduce Yourself**
   - Explain your role and the purpose of the interview.
2. **Collect Information**
   - Gather complete details about all medications used.
3. **Verify Information**
   - Cross-check information with available records and sources.
4. **Document Findings**
   - Record all relevant information accurately.

Importance

- Improves medication safety.
- Prevents duplication of therapy.
- Identifies drug interactions.
- Supports appropriate treatment planning.
- Reduces medication errors.

Basic Concept of Medicine and Poison Information Services

Definition

- Medicine information service provides information about drugs and their use.
- Poison information service provides information regarding poisoning and its management.
- These services support safe and rational use of medicines.

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Objectives

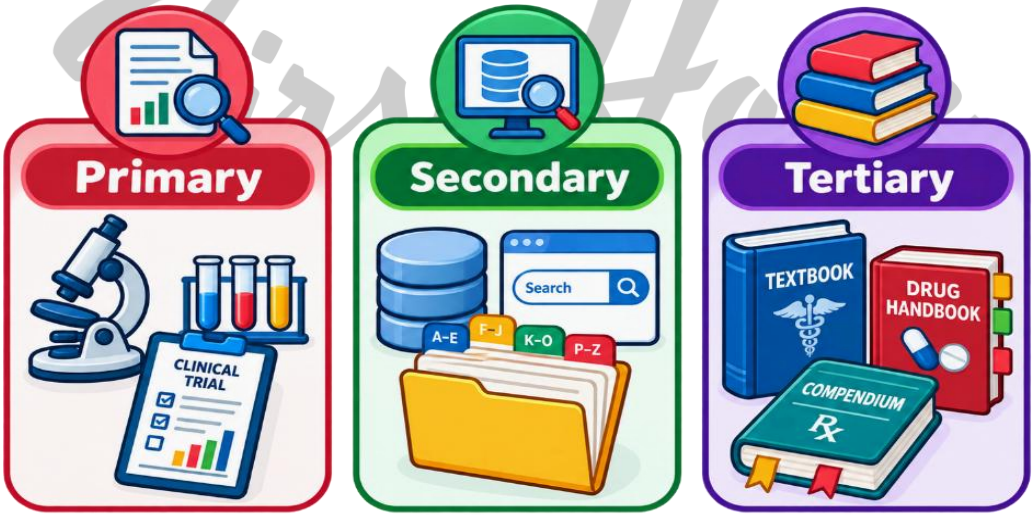
- To provide accurate drug information.
- To promote rational use of medicines.
- To prevent medication errors.
- To assist in poison management.
- To improve patient safety.

Medicine Information Service

Functions

- Providing information on drug indications.
- Providing information on dosage and administration.
- Providing information on adverse drug reactions.
- Providing information on drug interactions.
- Providing information on contraindications and precautions.

Sources of Drug Information



A. **Primary Sources**
   - Original research articles.
   - Clinical trial reports.

B. **Secondary Sources**
   - Indexing and abstracting services.

C. **Tertiary Sources**
   - Textbooks.
   - Drug compendia.
   - Reference books.

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Poison Information Service

Functions

- Providing information regarding toxic substances.
- Assisting in poisoning emergencies.
- Recommending appropriate management measures.
- Providing information on antidotes.

Common Poisoning Agents

- Drugs and medications.
- Household chemicals.
- Pesticides.
- Industrial chemicals.
- Animal and plant toxins.

Basic Concept of Pharmacovigilance

Definition

- Pharmacovigilance focuses on monitoring the safety of medicines.
- It aims to identify and prevent adverse drug reactions.
- It contributes to safe medication use.

Objectives

- To detect adverse drug reactions.
- To improve patient safety.
- To assess risks associated with medicines.
- To promote safe use of medications.
- To provide information for regulatory decisions.

Adverse Drug Reaction (ADR)

- An adverse drug reaction is a harmful and unintended response to a medicine used at normal doses.

Functions of Pharmacovigilance

1. **Detection of ADRs**
   - New and unexpected reactions are identified.
2. **Assessment of ADRs**

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- The relationship between the medicine and reaction is evaluated.

3. **Monitoring Drug Safety**
   - Safety information is continuously collected.
4. **Risk Management**
   - Measures are implemented to minimize risks.

Pharmacovigilance Programme of India (PvPI)

- PvPI was launched to monitor medicine safety in India.
- It collects and evaluates reports of adverse drug reactions.
- It helps improve patient safety across the country.

Importance of Pharmacovigilance

- Enhances drug safety.
- Protects public health.
- Supports regulatory decisions.
- Promotes rational medicine use.

Hemovigilance

Definition

- Hemovigilance is a surveillance system that monitors the entire blood transfusion process to improve transfusion safety and prevent adverse events.
- It includes monitoring blood donation, processing, storage, and transfusion.

Objectives

- To improve blood transfusion safety.
- To identify transfusion reactions.
- To reduce transfusion-related risks.
- To improve quality of blood services.

Scope of Hemovigilance

1. **Blood Donation**: Monitoring donor safety.
2. **Blood Collection and Processing**: Ensuring proper handling of blood products.
3. **Blood Storage**: Maintaining appropriate storage conditions.
4. **Blood Transfusion**: Monitoring recipient safety during and after transfusion.

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