

# DRUG INFORMATION SERVICE



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# INTRODUCTION

- Growth of medical information at an alarming rate.
- Vast data by FDA & from clinical investigations.
- Decision to choosing the best information.
- WHO → developed DIC to promote rational use of drugs\*

*\*Promoting rational use of medicines: core components. WHO Policy Perspectives on Medicines, September 2002.*

# **DRUG INFORMATION**

*The Provision Of Written And/Or Verbal  
Information About Drugs And Drug  
Therapy In Response To A Request From  
Other Healthcare Providing Organizations,  
Committees, Patients, And Public  
Community*

# **Drug information center(DIC)**

**Provides in-depth, unbiased source of crucial drug information to meet needs of the practicing physicians, pharmacists and other health care professionals**

# MISSION

**To increase the community knowledge & awareness about drug & drug usage**



## **HISTORY:**

- **First DIC at University of Kentucky in 1960.**
- **In US- 80% of the Hospitals have DIC.**

# INDIAN SCENARIO\*

- WHO India country office + KSPC (Karnataka State Pharmacy Council)



5 DIC in India

**Haryana (Sirsa)**

**Chhattisgarh(Raipur)**

**Rajasthan (Jaipur)**

**Assam (Dibrugarh)**

**Goa(Panaji)**

*\*Chauhan N:Indian aspects of drug information resources & impact of DIC on community, J. Adv. Pharm. Tech. Res*

# **Ideal DIC service**

- **Gear to the need of its users.**
- **Information- dependable, timely & standard.**
- **Expertise should be readily accesible.**
- **SOPs for categorising enquiries & maintaining search pattern.**



**OPTIMAL USAGE OF DRUG  
INFORMATION**



# STAFFING

- **Pharmacy team:**  
**Pharmacist**  
**Pharmacy Technicians & Students**
- **Medical team:**  
**Toxicologists**  
**Clinical pharmacologist**
- **Supporting team:**  
**People trained in library science with  
computer knowledge**

# OBJECTIVES OF DIC

1. Promote **evidence based practice**.



2. Meet the **patient's needs** while providing pharmaceutical care



**3. Improve the patient adherence**

**4. To provide accurate and unbiased information.**

**5. To provide an organized database.**



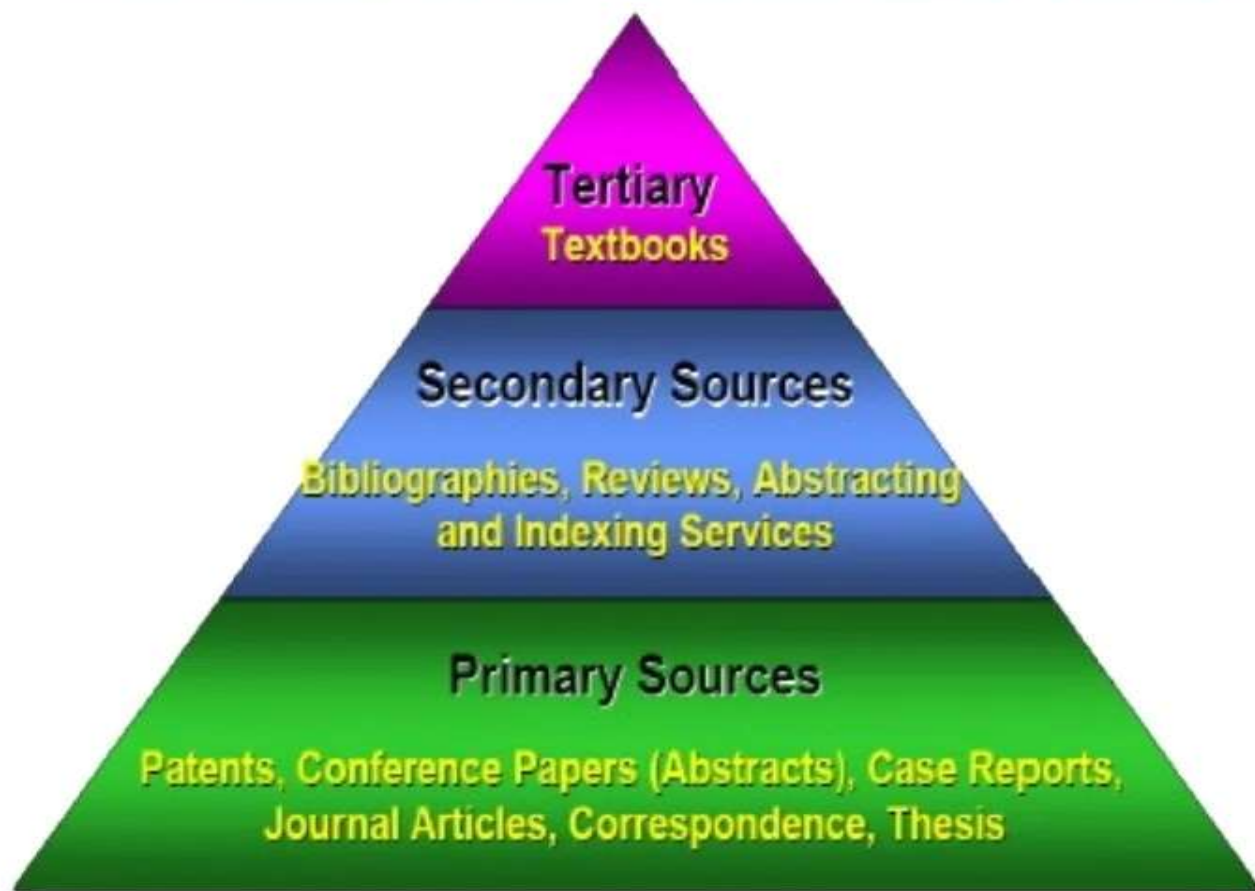
## **AVAILABLE INFORMATION IN DIC**

- ✓ **General**
- ✓ **Pharmacological**
- ✓ **Toxicity**
- ✓ **Formulation**
- ✓ **Pharmacokinetics**
- ✓ **Adverse effects**

# SOURCES OF INFORMATION



# Classification of Scientific Literature



## 1. PRIMARY SOURCE:

- **Original information**
- **Scientific Journals**
- **Thesis**
- **Proceedings of conferences**



The image shows a screenshot of the American Association of Pharmaceutical Scientists (AAPS) website. At the top, the AAPS logo is displayed with the tagline "DEVELOPING SCIENCE. IMPACTING HEALTH." Below the logo is a navigation menu with links for "About AAPS", "Membership", "Sections & Groups", "Meetings", "Learning", "Career Center", and "Publications". A prominent banner for "AAPS Biotechnology 101" is featured, advertising a "SUMMER SAVINGS!" offer of 15% off by entering the code "SAVE15SUMMER" before August 31, 2013. The banner includes the URL "www.aaps.org/BI10115" and a "Save 15% on BI 101! Read More >" link. Below the banner are sections for "News" and "Featured Events".

## 2. SECONDARY SOURCE:

- Database(pubmed,embase, scopus, toxline,National Library of Medicine Gateway)
- Low drug information services[<http://www.uiowa.edu/~idin/>]
- Review articles.

**The Cochrane Collaboration**  
Working together to provide the best evidence for health care

1993-2013 COCHRANE 20 years  
GO TO THE 20<sup>th</sup> ANNIVERSARY SITE  
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**Cochrane Reviews**

*“How do you know if one treatment will work better than another, or if it will do more harm than good?”*

Cochrane Reviews are systematic reviews of primary research in human health care and health policy, and are internationally recognised as the highest standard in evidence-based health care. They investigate the effects of interventions for prevention, treatment and rehabilitation. They also assess the accuracy of a diagnostic test for a given condition in a specific patient group and setting. They are published online in *The Cochrane Library*.

Each systematic review addresses a clearly fo

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*“Every day someone, somewhere searches The Cochrane Library every second, reads an abstract every two seconds and downloads a full-text article every three seconds.”*  
- The Cochrane Library usage data 2009

We support AllTrials.net



### **3. TERTIARY SOURCE:**

- **Textbooks on drug or disease topics**
- **Pharmacopeias - IP, BP, USP, BNF etc.,**
- **Encyclopedia**
- **Dictionaries**
- **Guides**

## **Other Sources::**

- **Public and hospitals about the AE of any drug.**
- **Local drug lists**
- **National formularies, Hospital formularies**
- **Internet**
- **Phone calls to manufacturers, government and non-government organizations & to other DIC.**

## **SERVICES OFFERED:**

- **Information about drugs.**
- **Poison management information.**
- **Patient education service.**
- **Assistance on drug usage in patients.**
- **Professional assistance for investigations in drug usage.**
- **Drug related information to hospital staff.**
- **Reporting and investigating ADR.**

# Steps in Answering

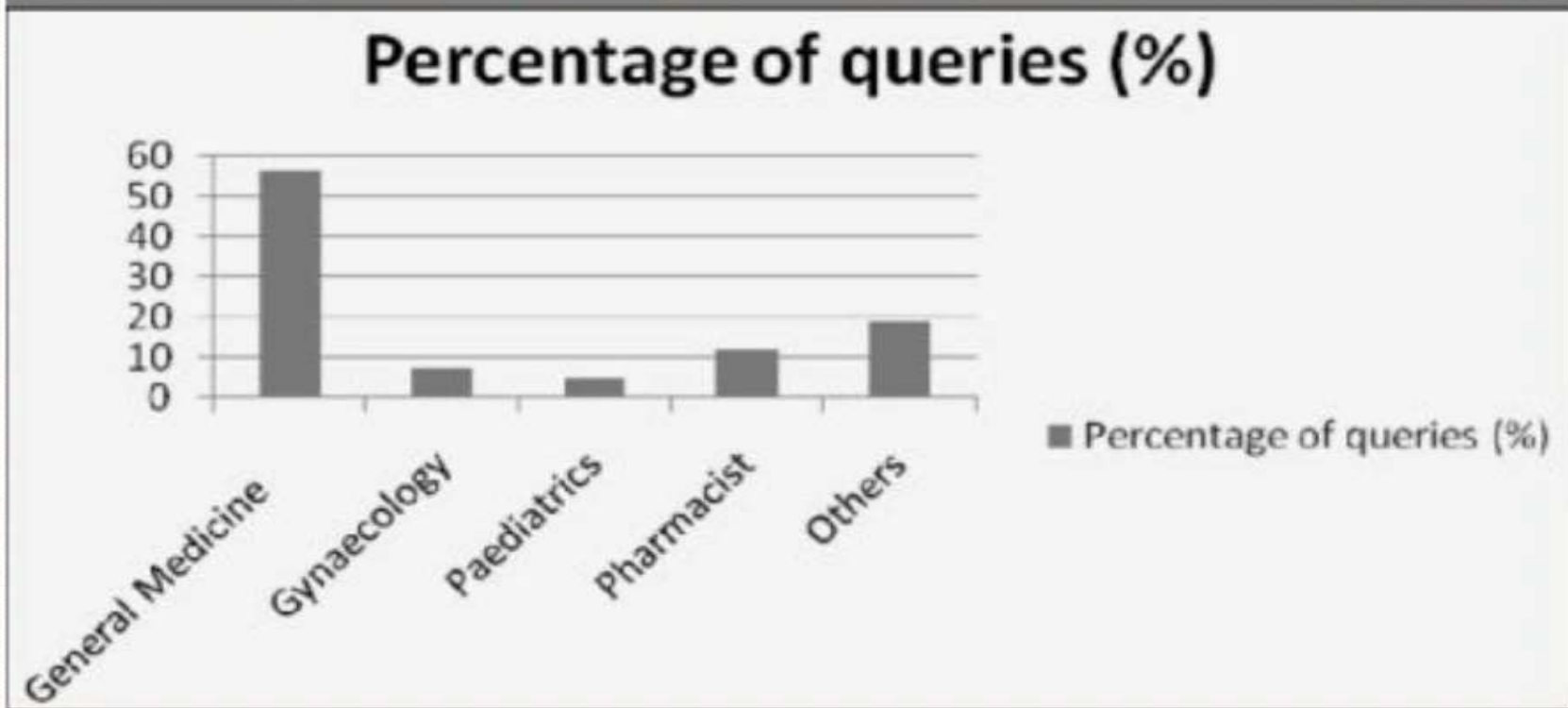
**Classification of question**

**Background Information**

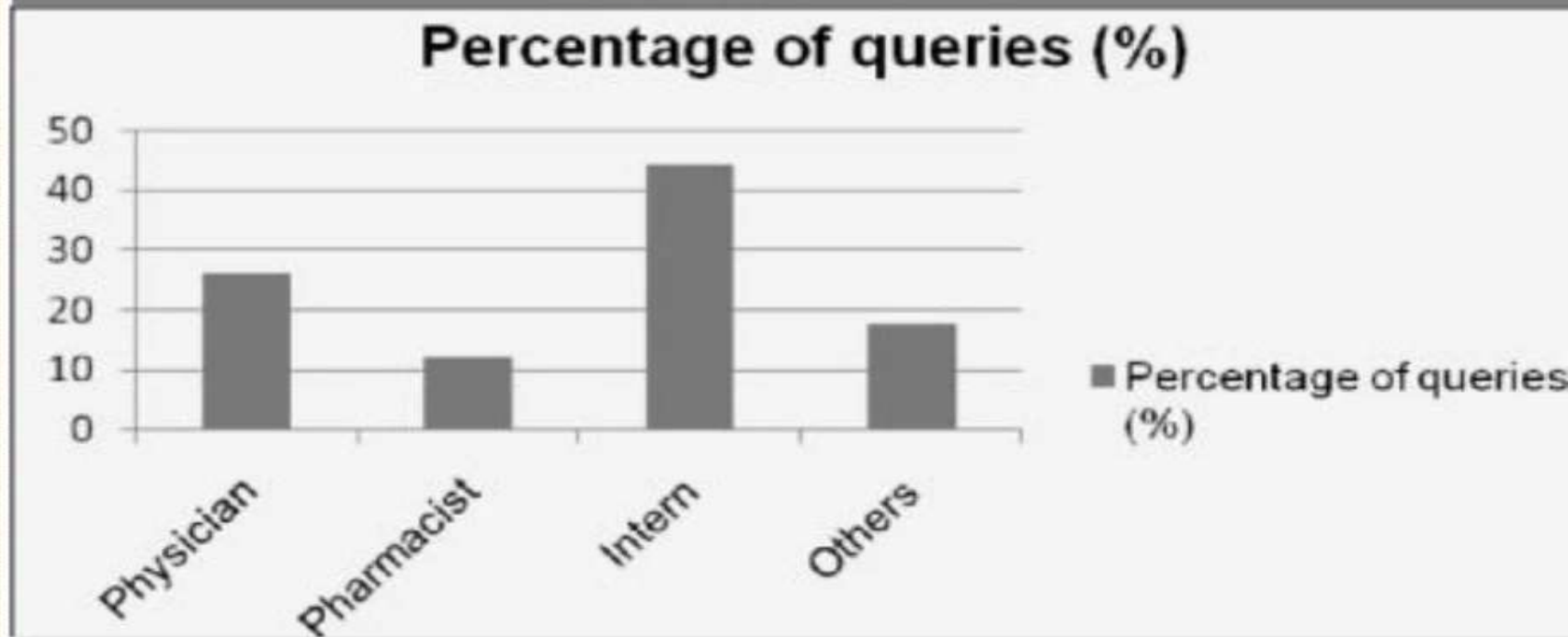
**Search of literature**

**Preparation of Response  
or answer**

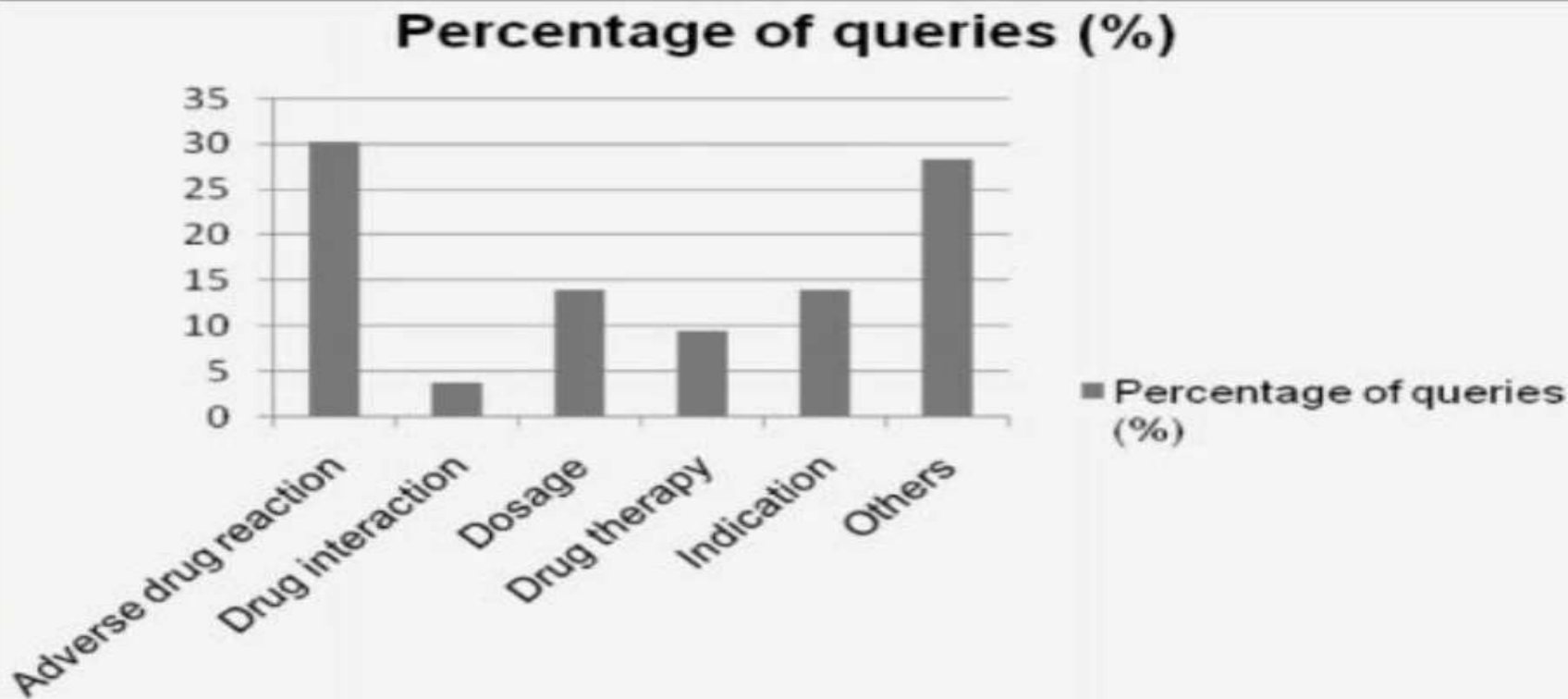
**Fig. 1: Categorization of drug information queries based on speciality**



**Fig. 2: Categorization of drug information queries based on status of the enquirer**

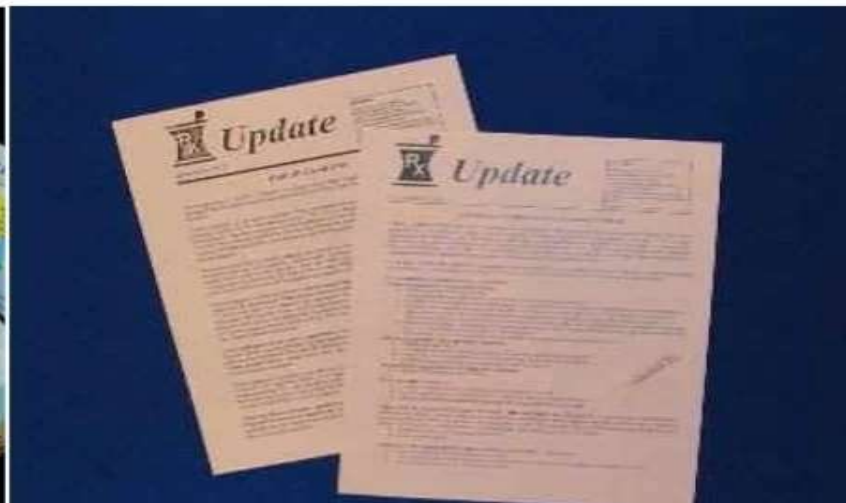


**Fig. 3: Categorization of drug information queries based on type of query**



# DRUG INFORMATION BULLETIN

- For transmission of information to the members of health care team.
- Regular publication is needed on the latest developments.





## Illegal DIC\*

- Report the abused drugs for victimizing some innocent.
- Illinois State Police has started this to report such cases of drug abuse & spread awareness in both public & US officials to ban such drugs OTC selling.
- Governed by DEA (Drug Enforcement Administration)

*\*Available from: <http://www.justice.gov/dea/pubs/abuse/index.htm>  
[Last accessed on 2012 Oct 7].*

## Summary

- DICs are regarded as a gateway of drug information.
- They have responsibility to provide highest possible std information.
- Sources of information.
- DICs aim at rational use of drugs.
- A proper working DIC is necessary to make best use of its services.

**THANK YOU**