

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES



Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai

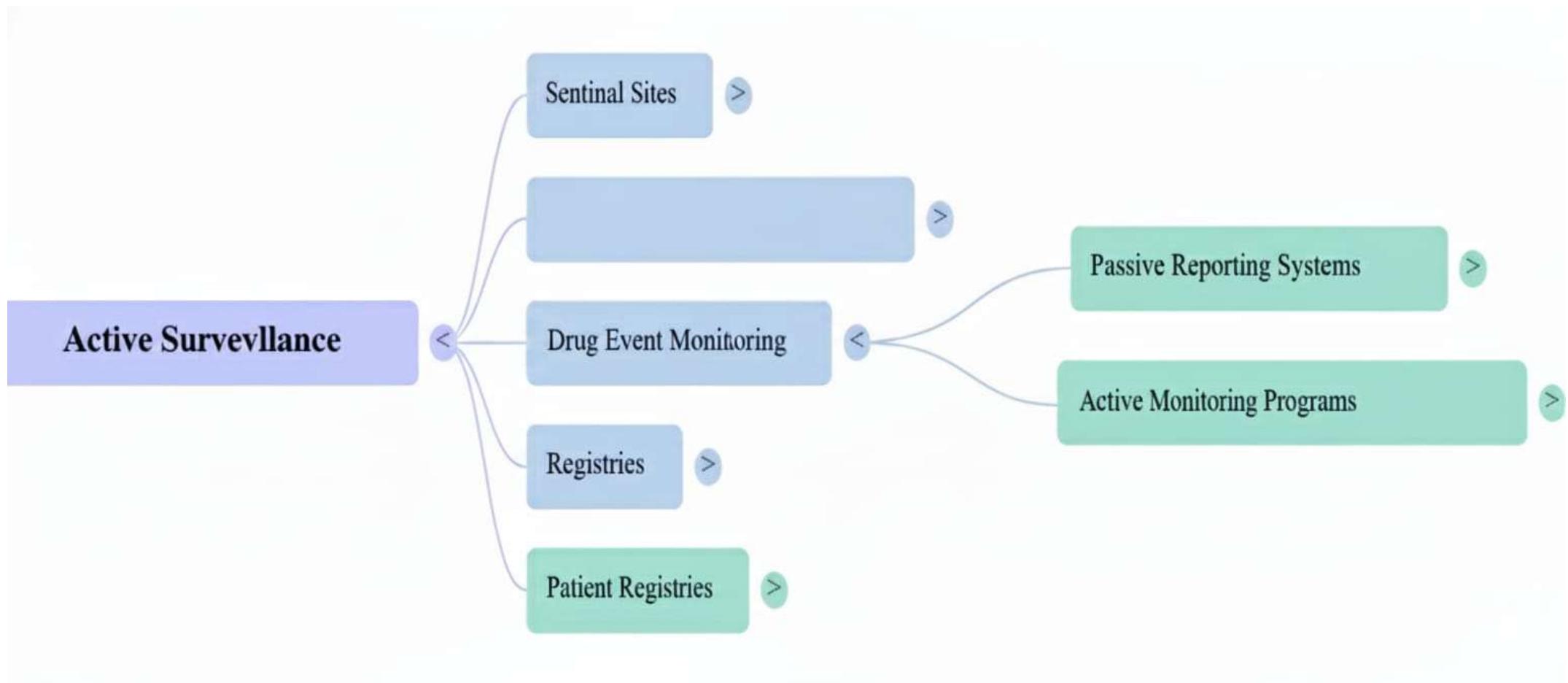
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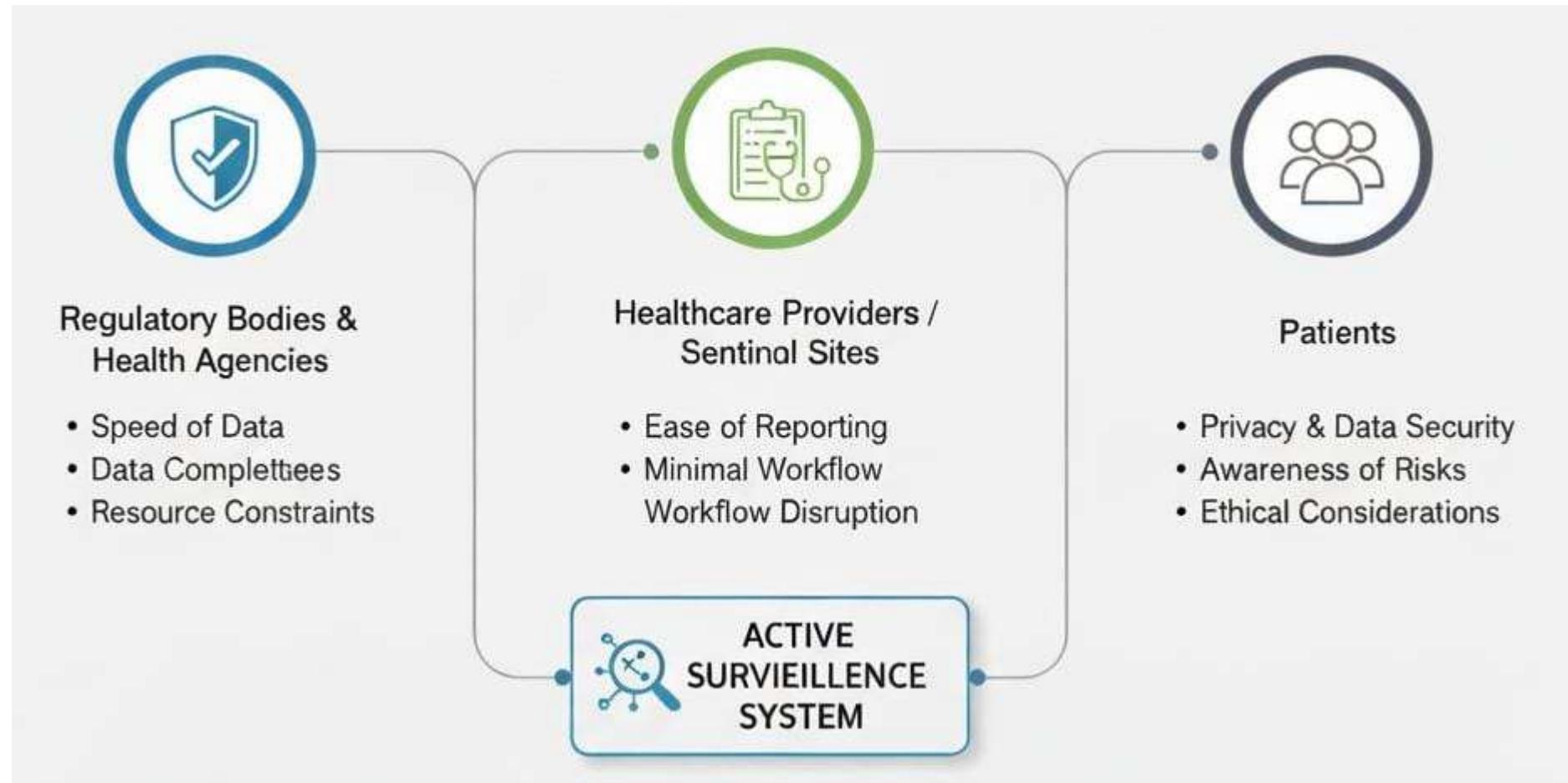
COURSE NAME : PHARMACOVIGILANCE (BP805ET)

VIII SEM / IV YEAR

TOPIC 2 : ACTIVE SURVEILLANCE



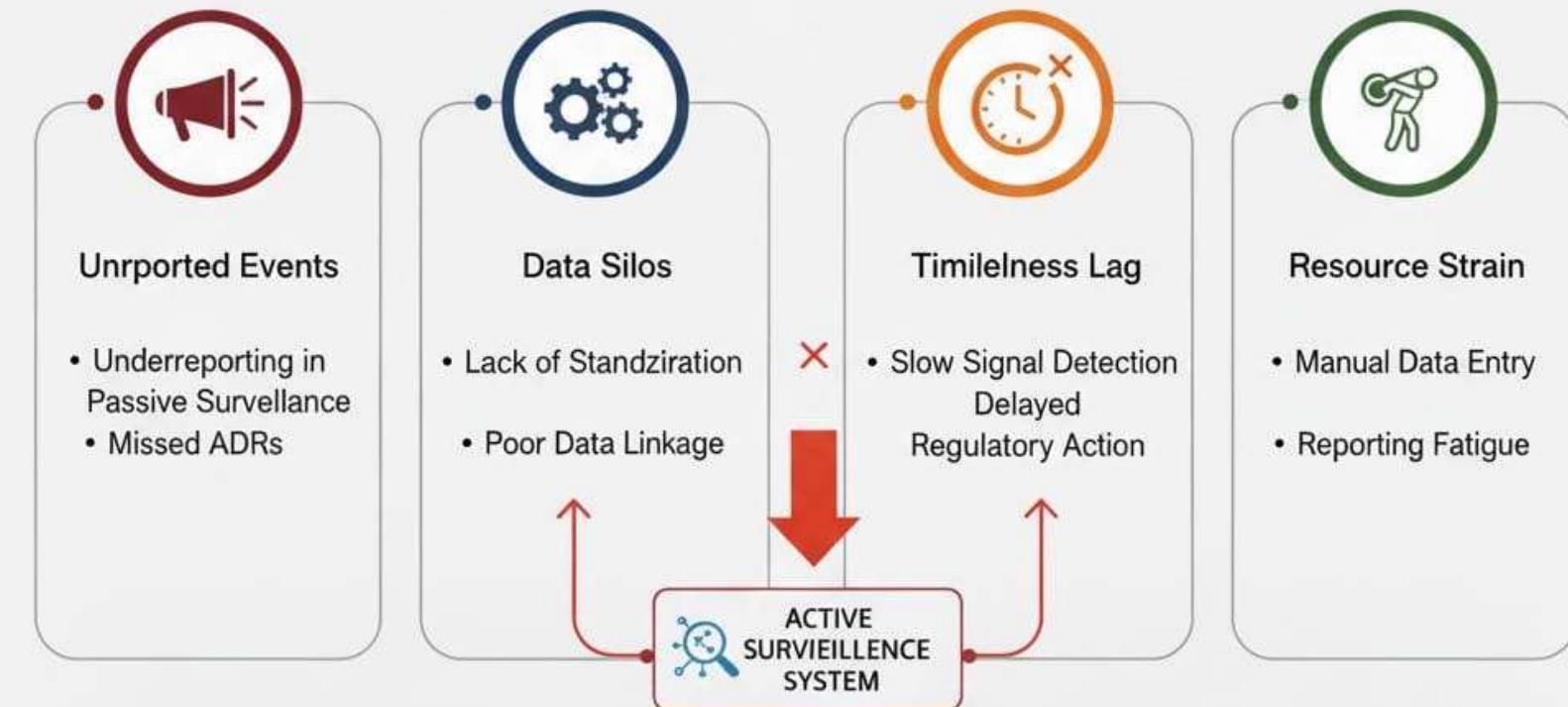
MINDMAP



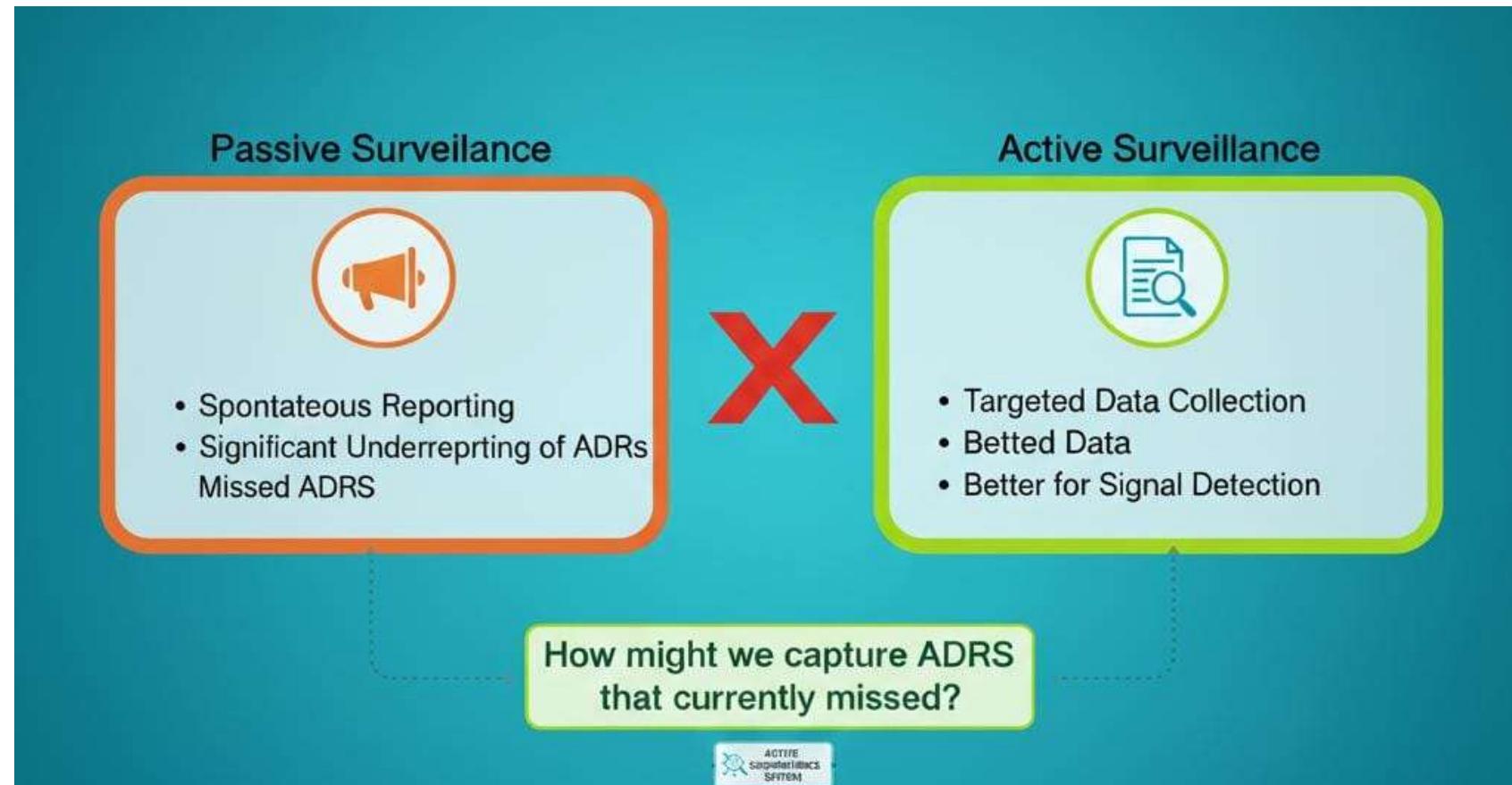
Empathize

INTRODUCTION

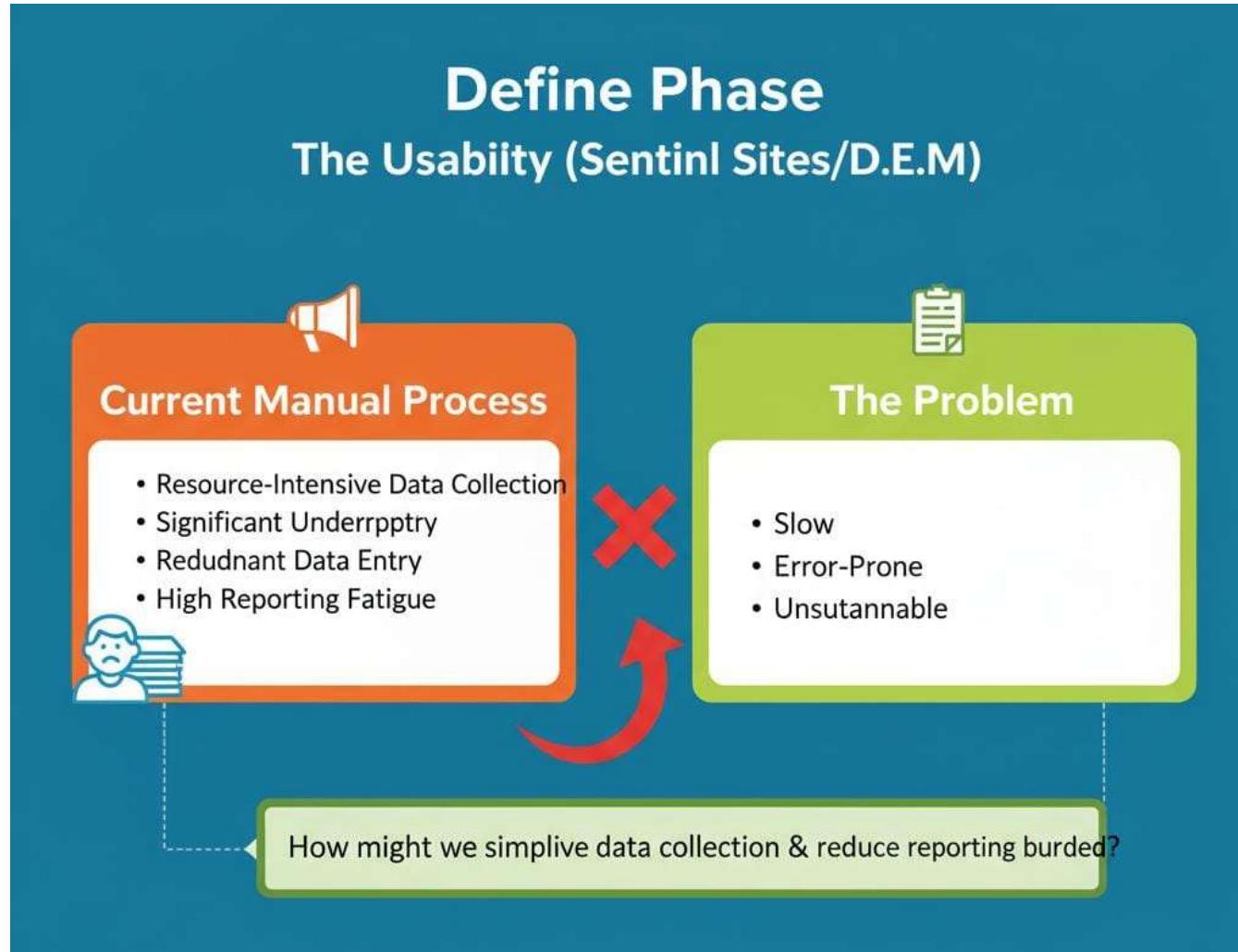
Current System Challenges



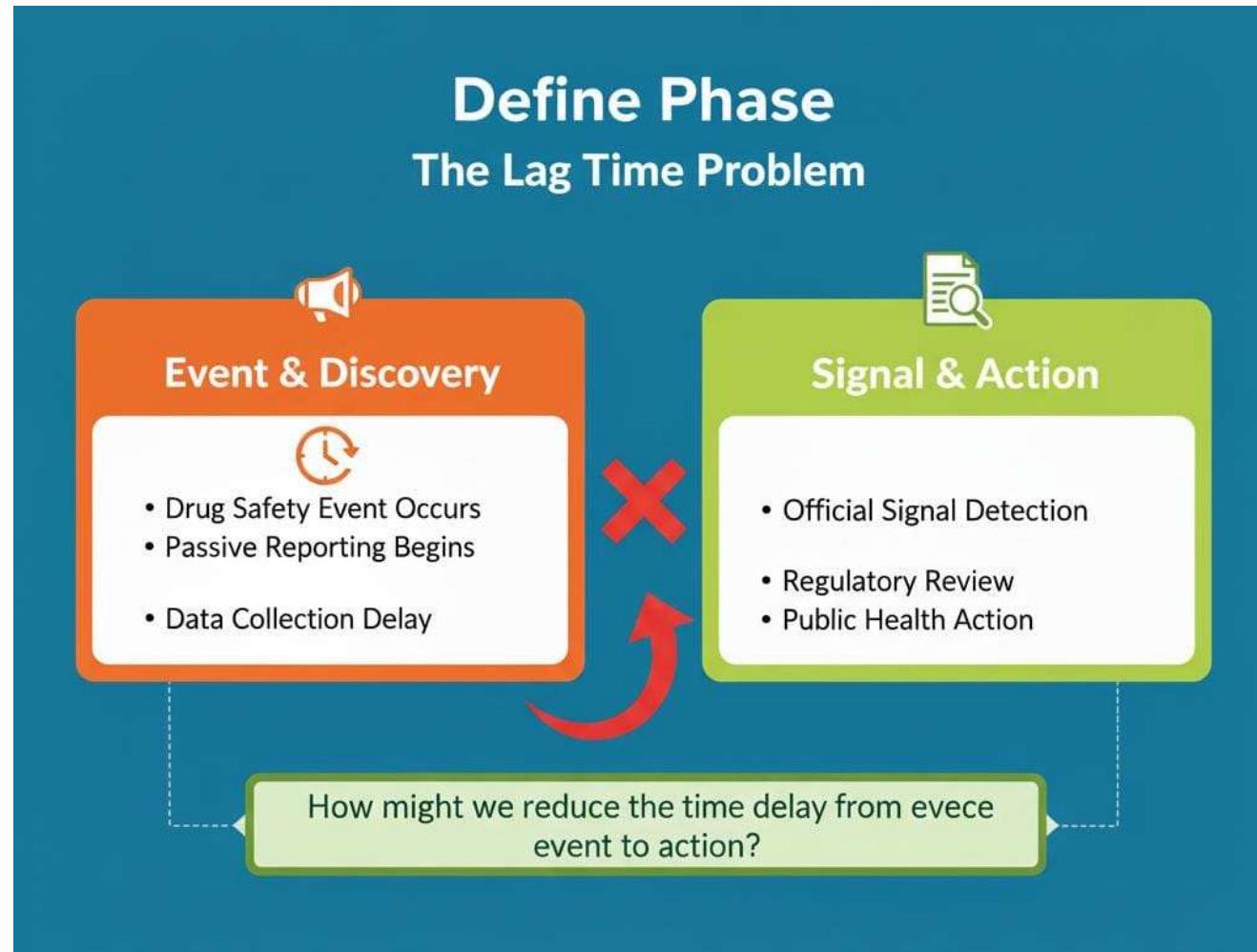
Empathize



Empathize



Empathize



Define

Ideate Phase Sentinel Site Innovations



Standardized Data

- Developing minimum data sets
- Ensuring consistency



Incentive Models

- Financial rewards for quality data
- Non-financial recognition / gamification

How might we empower sentinel sites & improve data quality?



Define

Ideate Phase

Drug Event Monitoring (D.EM) Automation

Automated Extraction



- Using Natural Language Processing (NLP)
- Extracting data from EHRs

Smart Alerts



- Clinical system notifications
- Prompting focused data collection

How might we automate D.E.M
& enhance signal detection?

Ideate

Ideate Phase

Registry Enhancement

Unified Data Model



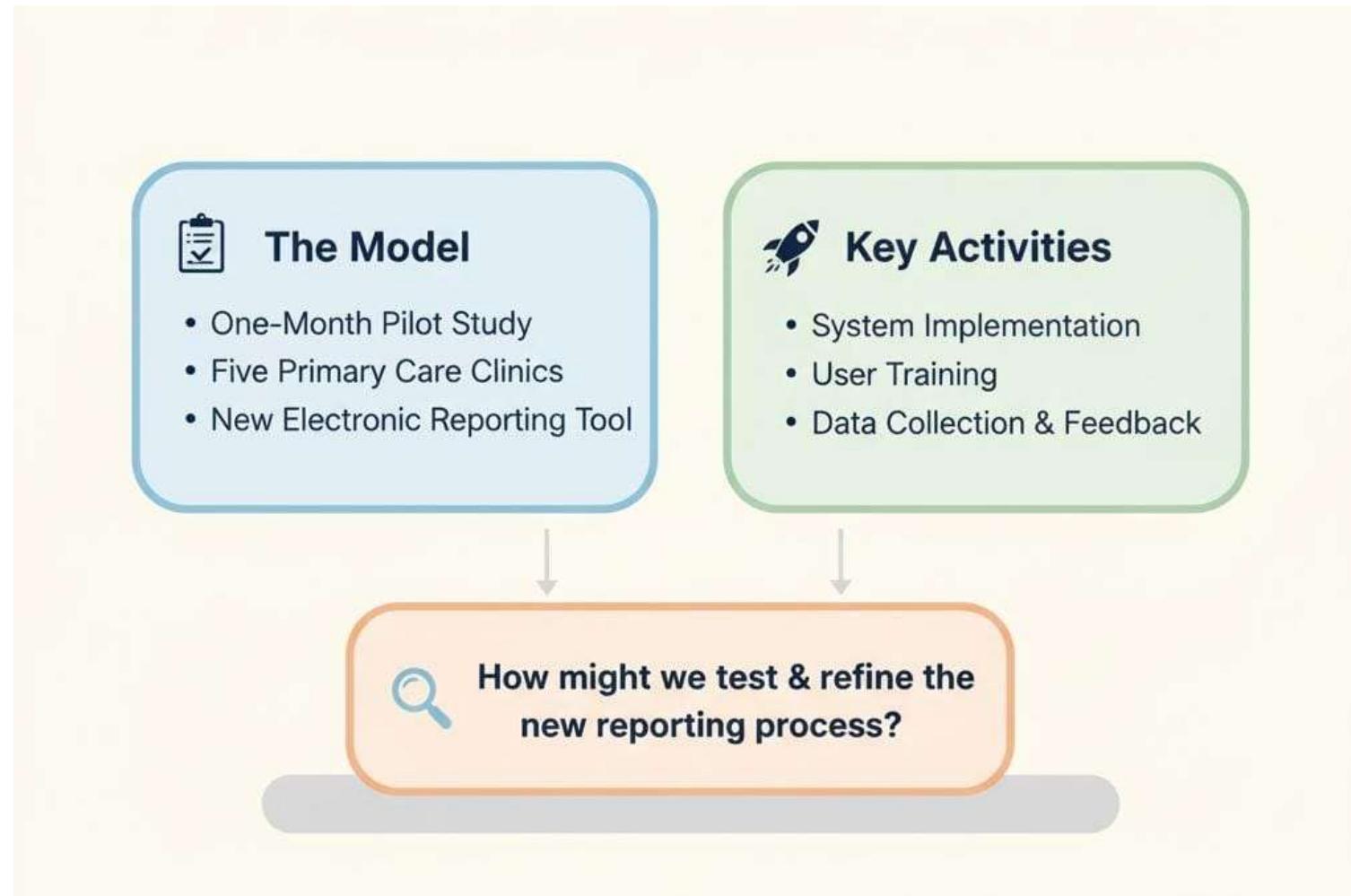
- Creating a common data standard
- Enabling national/international registries

Record Linkage



- Securely connecting databases
- Linking registries with patient outcomes

How might we unify data & improve
enhrove comprehensive analysis?



Prototype

Sentinel Sites



- Doctors
- Nurses
- Pharmacists
- Reporting

Drug Event Monitoring (DEM)

- Data Analysts
- Informaticists
- PV Specialists
- Signal Detection



Active Surveillance System

Registries



- Researchers
- Biotastisistsins
- Data Curators
- Long-term Tracking



1

💡 When there's "too much data, too little clarity"...

What objective should we focus on?

A) 🎯 Enhance Clarity

B) ⚡ Ensure Timeliness

2

🐌 Safety alerts are moving slower than a snail!

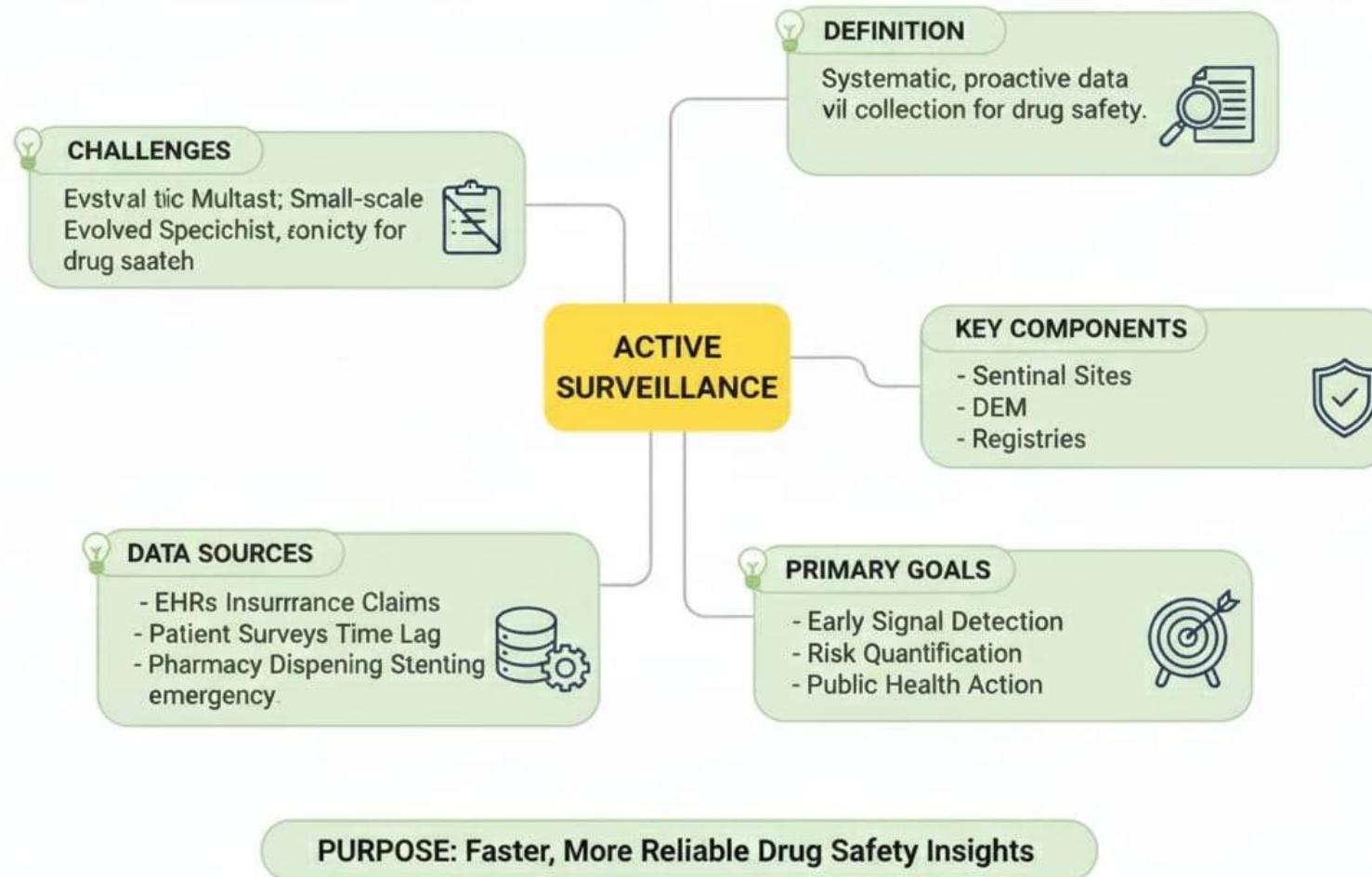
Which challenge does this represent?

A) 📊 Information Overload

B) 🕒 Delayed Dissemination

SUMMARY

ACTIVE SURVEILLANCE





CLASS ASSESSMENTS

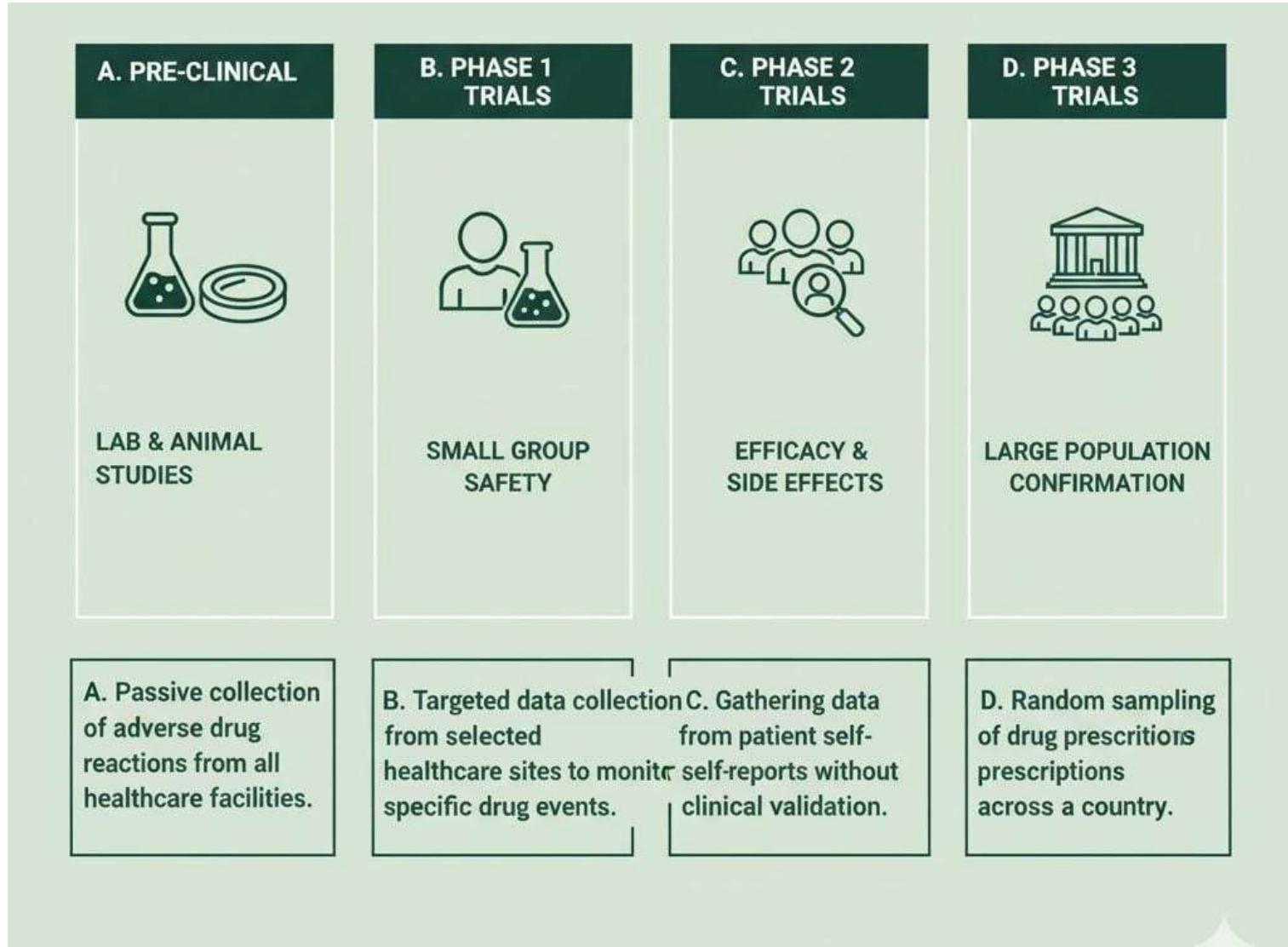
- 1. Which of the following best describes sentinel surveillance in the context of active drug safety monitoring?**

 - a. Passive collection of adverse drug reactions from all healthcare facilities
 - b. Targeted data collection from selected healthcare sites to monitor specific drug events
 - c. Gathering data from patient self-reports without clinical validation
 - d. Random sampling of drug prescriptions across a country





CLASS ASSESSMENTS





CLASS ASSESSMENTS

What is the primary purpose of drug event monitoring in active surveillance systems?

- a. To conduct clinical trials for new drugs
- b. To systematically detect and evaluate adverse drug reactions during routine use
- c. To register all patients prescribed with a particular drug for marketing purposes
- d. To monitor only over-the-counter medication usage





CLASS ASSESSMENTS

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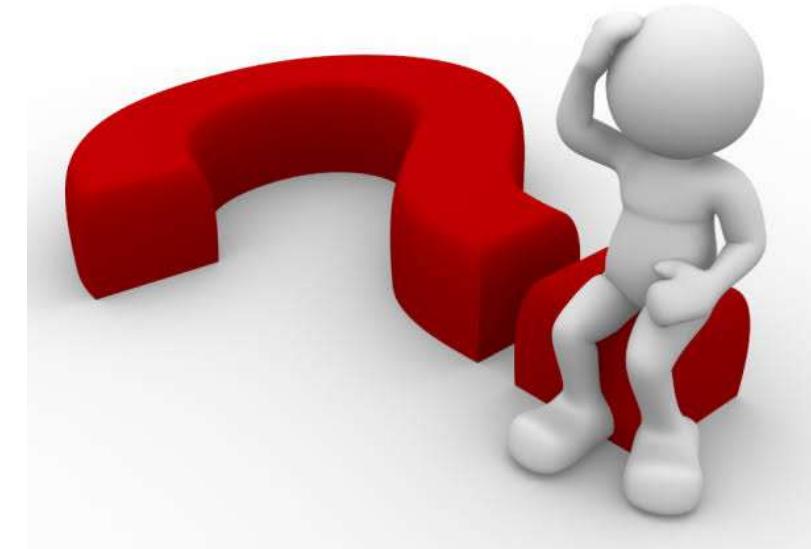
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CLASS ASSESSMENTS

3. In the context of active surveillance, what role do patient registries primarily serve?

- a. To provide anonymized data for general healthcare research
- b. To continuously collect detailed information on patients exposed to specific drugs or conditions
- c. To track sales data of pharmaceutical products
- d. To monitor hospital admissions unrelated to medications





CLASS ASSESSMENTS

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REFERENCES

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2. Parthasarathi G, Karin Nyfort-Hansen, Milap C Nahata. A textbook of Clinical Pharmacy Practice- essential concepts and skills, 1st ed. Chennai: Orient Longman Private Limited; 2004.
3. William E. Hassan. Hospital pharmacy, 5th ed. Philadelphia: Lea & Febiger; 1986.
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5. Scott LT. Basic skills in interpreting laboratory data, 4th. American Society of Health System Pharmacists Inc; 2009.

Thank
you!