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Pramil Tiwari

Editor PPT

- Prof. Pramil Tiwari, M.Pharm., Ph.D., heads the department of Pharmacy Practice at the National Institute of Pharmaceutical Education and Research {NIPER}, Mohali since its inception in 2002. Having completed his education from the Banaras Hindu University, he has a work experience in pharmaceutical academia and industry over the last 25 years.
- His most significant contribution is the establishment of the department of pharmacy practice at NIPER, in accordance with the policies of the institute. This has involved engaging with the various stakeholders including the clinicians, students, hospital administrators and collaborators abroad. In ten years of time, he has successfully supervised over 90 students for the M.Pharm. & doctoral degrees. In 2011, the department was entrusted to offer the course leading to M.Pharm. in Clinical Research.
- With over 55 peer reviewed papers, 120 abstracts and several book chapters, his research team is very active in emerging areas of pharmacy. His research interests are in clinical pharmacy, understanding drug utilization with especial emphasis on antimicrobials, pharmacotherapy, vaccines, Pharmacoeconomics, and Pharmacovigilance.

Biography

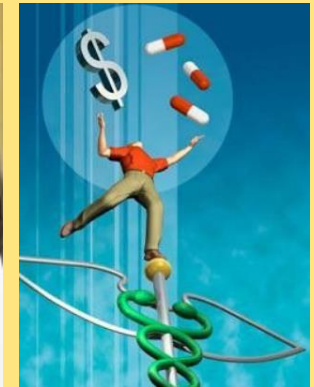
Rational use of drugs with special emphasis on antimicrobials.

Pharmaceutical care issues.

Pharmacovigilance and Pharmacoeconomics

Research Interests

Pharmaceutical Care





**Hospital Pharmacists move
closer to Patient Care**

**Changes in Pharmacy
Practice**

**What is Pharmaceutical
Care?**

**The Pharmacist becomes more
specialised as a therapeutic
advisor**



Pharmaceutical Care

Quality Assurance of Drug Therapy



Need
Outcome

Goal

Process



Pharmaceutical care

“ Pharmaceutical care is the provision of medication-related care for the purpose of achieving definite outcomes that improve a patient's quality of life.”

- Cure of the disease
- Elimination or reduction of symptoms
- Arrest or slowing of a disease process
- Prevention of disease or symptoms

Hepler CD and Strand LM (1990)

**Clinical Pharmacist
serves 60 beds**

**Clinical Pharmacist
medical specialties**

**Pharmacist as
services to
beds**



*Emergence
of the
Teacher-
Practitioner*



**Variety of
models**



**Community Pharmacy
Patient
Medication Records**



**Pharmacy Patient
Computer Records
and Services to
Elderly Nursing
Homes**

**Primary Care
Pharmacy
Targeted Services**



Innovations in Pharmacy Services

1970s

1980s

1990s

2000s

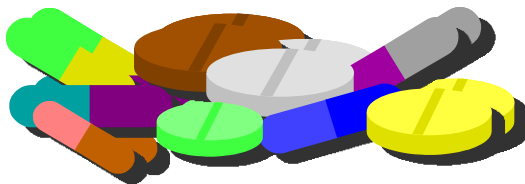
Clinical Management Plan



**Verifying
Treatment**

**Monitoring
Treatment**

**Confirming Outcomes
of Treatment**



Transferring care



Verification

**Profile of Patient's Characteristics
Patient Comprehension/Participation
Confirmation of Need**

**Drug History
Contra-indications/Interactions
Treatment Plan
Conformity to Guidelines**



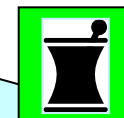
**Confirmation of
outcomes**

**Achievement of
Treatment Goals**

Confirmation of Safety

Unwanted Symptoms

**Recorded
Adverse Reaction**



Monitoring

**Individualised Dose,
Dose Frequency,
Means of Administration**

**Clinical Monitoring
Laboratory Markers**

**Adherence
to Treatment**

Documentation



Laboratory tests

Patient Profile



Medication

Pharmaceutical care plan

Responsibility

History

- 1940~1960 Era of Expansion period
- 1970~1980 Era of Cost containment
- 1990~ Era of Assessment and Accountability for Health Outcome



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