

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LM 978]

MAY 2018

Sub. Code: 2978

**M.PHARM. DEGREE EXAMINATION  
(PCI New regulations 2016)  
SEMESTER-II  
BRANCH-V – PHARMACY PRACTICE – MPP  
PAPER IV – PHARMACOEPIDEMIOLOGY AND  
PHARMACOECONOMICS**

*Q.P. Code : 262978*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Pharmacoeconomics and discuss the cost categorization and resources for cost estimation. Explain about measurement of outcomes in Pharmacoeconomics.
2. Explain post marketing surveillance and record linkage study methods in detecting Drug effects in populations.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Discuss the outcome measures in Pharmacoepidemiology.
2. Write a note on cost effectiveness analysis.
3. Discuss the significance and steps in drug utilization review.
4. Write a note on Time-risk relationship and odds ratio.
5. Define Pharmacoepidemiology and its application.
6. Write a note on Quality Adjusted Life Years and Disability Adjusted Life Years.
7. Differentiate between Cost Minimization and Cost Benefit analysis.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LN 978]

NOVEMBER 2018

Sub. Code: 2978

**M.PHARM. DEGREE EXAMINATION**  
**(PCI New regulations 2016)**  
**SEMESTER-II**  
**BRANCH-V – PHARMACY PRACTICE – MPP**  
**PAPER IV – PHARMACOEPIDEMIOLOGY AND**  
**PHARMACOECONOMICS**

*Q.P. Code : 262978*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Pharmacoepidemiology, its scope and need. Explain about measurement of outcomes in Pharmacoepidemiology.
2. Define the term Pharmacoeconomics and the need of Pharmacoeconomics in Indian scenario. Discuss the various Pharmacoeconomic evaluation methods.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Use of software's in Pharmacoeconomics.
2. Write a note on cost utility analysis.
3. Brief on concept of risk in Pharmacoepidemiology.
4. Brief on the role of Pharmacoeconomics in formulary management decision.
5. Write a note on prescription event monitoring.
6. Medication adherence measurements.
7. Discuss the types of outcomes in Pharmacoeconomics and its measurement.

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*Q.P. Code : 262978*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. (a) Define the term Pharmacoeconomics and the issues in Pharmacoeconomic evaluation.  
(b) Define Health related quality of life, its need and common measures for HRQOL.
2. Define the term “Pharmacoepidemiology”. Discuss in detail the various methods in conducting Pharmacoepidemiology studies.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Scope, need and applications of pharmacoepidemiology.
2. Time – risk relationship & odds ratio.
3. Need of pharmacoeconomic studies in Indian health care system.
4. Explain the Markov modeling.
5. Note on Record linkage system.
6. Define Time Trade off and Discounting.
7. Explain Spontaneous reporting method.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LP 978]

NOVEMBER 2019

Sub. Code: 2978

**M.PHARM. DEGREE EXAMINATION**  
**(PCI New regulations 2016)**  
**SEMESTER-II**  
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**PAPER IV – PHARMACOEPIDEMIOLOGY AND**  
**PHARMACOECONOMICS**

*Q.P. Code : 262978*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define the term Pharmacoeconomics. Discuss the softwares used in Pharmacoeconomics.
2. Define the term Drug utilization Review. Discuss the steps and significance of DUR.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Define cross-sectional and cohort studies with an example.
2. Benefits of post marketing surveillance.
3. Applications of pharmacoepidemiology.
4. Types of outcomes in Pharmacoeconomics.
5. Differentiate prevalence, incidence and incidence rate.
6. Explain Meta analysis models.
7. Various Pharmacoeconomics evaluation methods.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[LQ 0121]**

**JANUARY 2021**

**Sub. Code: 2978**

**(APRIL 2020 EXAM SESSION)**

**M.PHARMACY DEGREE EXAMINATION**

**SEMESTER-II (PCI New regulations 2016)**

**PHARMACY PRACTICE – MPP**

**PAPER IV – PHARMACOEPIDEMIOLOGY AND PHARMACOECONOMICS**

***Q.P. Code : 262978***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Elaborate on the aims and applications of pharmacoepidemiology with suitable example.
2. Define the term Pharmacoeconomics and the need of Pharmacoeconomics in Indian scenario. Discuss the various Pharmacoeconomic evaluation methods.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Define cross-sectional and cohort studies with an example.
2. Write about time-risk relationship of pharmacoepidemiology.
3. Differentiate prevalence, incidence and incidence rate.
4. Write a note on Time-risk relationship and odds ratio.
5. Outcome measure in pharmacoepidemiology.
6. Software's in Pharmacoeconomics.
7. Write a detailed note on Spontaneous reporting system.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MPHARM 0921]**

**SEPTEMBER 2021  
(OCTOBER 2020 EXAM SESSION)**

**Sub. Code: 2978**

**M.PHARMACY DEGREE EXAMINATION  
SEMESTER-II (PCI New regulations 2016)  
PHARMACY PRACTICE - MPP  
PAPER IV – PHARMACOEPIDEMOLOGY AND PHARMACOECONOMICS  
*Q.P. Code : 262978***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Elaborate on various quantitative methods used in pharmacoepidemiological studies.
2. Discuss in detail about need, significance and applications of conducting various pharmaco-economic analysis.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Enumerate the steps involved in drug utilization review.
2. Describe the significance of decision analysis and decision tree. .
3. Write a note on prevalence and incidence risk.
4. Describe the applications of pharmacoepidemiology studies.
5. Write a note on post marketing surveillance with its limitations.
6. Describe the advantages and disadvantages of cost benefit analysis.
7. Write a note on methods used to measure medication adherence.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MPHARM 0122]**

**JANUARY 2022  
(APRIL 2021 EXAM SESSION)**

**Sub. Code: 2978**

**M.PHARMACY DEGREE EXAMINATION  
SEMESTER-II (PCI New regulations 2016)  
PHARMACY PRACTICE - MPP  
PAPER IV – PHARMACOEPIDEMOLOGY AND PHARMACOECONOMICS  
*Q.P. Code : 262978***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain in detail on various drug use measures and outcome measures used in pharmacoepidemiology.
2. Describe cost minimisation analysis and cost effective analysis with its merits and demerits.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Write a note on prescription event monitoring and record linkage system.
2. Describe the role of pharmacist in drug utilization review.
3. Write a note on odds ratio and calculation of odds ratio.
4. Describe the methods to estimate indirect cost.
5. Write a brief note on significance of Pharmacoeconomic studies.
6. Define relative risk and attributable risk with suitable example.
7. Write in brief on sensitivity analysis and Markov modeling.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[M.PHARM 0922]**

**SEPTEMBER 2022  
(APRIL 2022 EXAM SESSION)**

**Sub. Code: 2978**

**M.PHARMACY DEGREE EXAMINATION  
SEMESTER - II (PCI New regulations 2016)  
PHARMACY PRACTICE - MPP  
PAPER IV – PHARMACOEPIDEMIOLOGY AND PHARMACOECONOMICS**

*Q.P. Code : 262978*

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the descriptive and analytical studies in pharmacoepidemiologic studies.
2. Discuss cost-benefit and cost-effectiveness analysis with its advantages and disadvantages.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Describe briefly on rating scale and standard gamble methods.
2. Explain observational study design in pharmacoepidemiology.
3. Compare and contrast case control and cohort studies.
4. Explain the drug use measures in pharmacoepidemiology.
5. Write note on Human Capital (HC) method and Willingness to Pay (WTP) method
6. Explain Markov Modeling.
7. Define cross-sectional and meta-analysis studies.

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