# Course Report

# Ph.D Courses

## Pharmacy

## Practice Department

# Course Report

# Course title: Advanced pharmacotherapy

# Course code: (CPsp4)

# Course Report of advanced pharmacotherapy

**University:** Zagazig **Faculty:** Pharmacy **Department:** pharmacy practice

**A- Basic Information**:

**1. Title and code: advanced pharmacotherapy** (CPsp4)

**2. Programme(s) on which this course is given:** PhD of Pharmacy Practice

**3. Year/ Level of programme:** 3-5 years

**4. Units/Credit hours:** 4 hrs/week

| Lectures | 92% | Tutorial/Practical | 8% | Total | 100% |
|---|---|---|---|---|---|

**5. Names of lecturers contributing to the delivery of the course:**

Assis Prof. Gehan Balata

Dr. ahmad Amin – Clinical pharmacy department – Kafr ElSheikh University

**6. Course coordinator:** Dr. ahmad Amin

**7. External evaluator: Prof. Gamal ElMagharbi**

**B- Statistical Information:**

| | | | | |
|---|---|---|---|---|
| No. of students attending the course: | No. | 1 | % | 100 |
| No. of students completing the course: | No. | 1 | % | 100 |

Results:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Passed: **1** | No. | 100 | % | Failed: **0** | No. | 0 | % | 0 |

Grading of successful students:

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Excellent: | **1**No. | 100 | % | | Very Good: | No. | % | |
| Good : | No. | | % | | Pass: | No. | % | |

## C- Professional Information:

### 1 - Course teaching:

| Topics actually taught | No. of hours | Lecturer |
|---|---|---|
| ACUTE KIDNEY INJURY (AKI) OR ACUTE RENAL FAILURE:<br>Common definitions<br>Stratification of AKI<br>Risk Factors Associated with AKI | 3 | Dr. Ahmad Amin |
| ACUTE KIDNEY INJURY (AKI) OR ACUTE RENAL FAILURE:<br>Classifications of AKI<br>Prevention of AKI<br>Treatment and Management of Established AKI | 4 | |
| • DRUG-INDUCED KIDNEY DAMAGE:<br>• Aminoglycoside nephrotoxicity<br>• Radiographic contrast media nephrotoxicity related to intravenous contrast use<br>• Cisplatin and carboplatin nephrotoxicity<br>• Amphotericin B nephrotoxicity<br>• Nonsteroidal anti-inflammatory drugs<br>Cyclosporine and tacrolimus | 4 | |
| Tubulointerstitial Disease<br>Chronic interstitial nephritis<br>Papillary necrosis | 3.5 | Dr. Gehan Balata |
| CHRONIC KIDNEY DISEASE:<br>Stages in CKD<br>etiology and risk factors | 3.5 | |
| Albuminuria or Proteinuria<br>Assessment of Kidney Function | 4 | |
| • Diabetic Nephropathy | 3.5 | |

| | | |
|---|---|---|
| • Non Diabetic Nephropathy | | |
| Assessment and treatment of Hyperlipidemia | 3.5 | |
| RENAL REPLACEMENT THERAPY:<br>Hemodialysis<br>Peritoneal Dialysis | 3.5 | |
| MANAGING THE COMPLICATIONS OF CHRONIC KIDNEY DISEASE:<br>Anemia | 3.5 | |
| MANAGING THE COMPLICATIONS OF CHRONIC KIDNEY DISEASE:<br>Mineral Bone Disorder and Renal Osteodystrophy | 4 | |
| Dosage adjustment in kidney disease<br>Pharmacokinetic Principles Guiding Therapy Adjustments | | |
| Tutorial | 4 | |

**Topics taught as a percentage of the content specified:**

>90% [√] 70-90% [ ] <70% [ ]

**Reasons in detail for not teaching any topic:**

**If any topics were taught which are not specified, give reasons in detail:**

## 2- Teaching and learning methods:

| | |
|---|---|
| Lectures: | √ |
| Practical training/ laboratory: | |
| Seminar/Workshop: | √ |
| Class activity: | |
| Case Study: | √ |

Other assignments/homework: √

If teaching and learning methods were used other than those specified, list and give reasons:

The student prepared a presentation about management of renal failure and it was evaluated using Rubric

## 3- Course learning outcome assessment:

| Code # | List Course Learning Outcomes | List methods of assessment for each LO | Summary analysis of assessment results |
|---|---|---|---|
| **A** | **Knowledge and Understanding:** | | |
| a1 | Define some terminologies related to ACUTE KIDNEY INJURY | Written exam<br>oral exam<br>Case study | 96%<br>100%<br>98% |
| a2 | Explain DRUG-INDUCED KIDNEY DAMAGE | | |
| a3 | Describe Tubulointerstitial Disease & Postrenal (Obstructive) Nephropathy and Papillary necrosis | | |
| a4 | Identify different stages in chronic kidney disease | | |
| a5 | Differentiate between Hemodialysis and Peritoneal dialysis | | |
| a6 | Outline different complications of chronic kidney disease | | |
| **B** | **Intellectual skills:** | | |
| b1 | Differentiate between different classes of acute kidney injury | Written exam<br>oral exam | 96%<br>100% |
| b2 | Identify Risk Factors Associated with AKI | | |

| | | | |
|---|---|---|---|
| b3 | identify risk factors of chronic kidney disease | Case study | 98% |
| b4 | recommend proper treatment for Hyperlipidemia | | |
| b5 | Develop a care plan to manage the common complications observed in patients with chronic kidney disease (e.g., anemia, secondary hyperthyroidism). | | |
| **C** | **Professional and Practical skills:** | | |
| c1 | Develop a Treatment plan for acute kidney injury | Case study | 100% |
| c2 | Control drug-induced kidney damage | | |
| c3 | Assess Kidney Function properly | | |
| c4 | monitor and manage Diabetic and nondiabetic Nephropathy | | |
| c5 | Adjust drug dosage in kidney disease based on pharmacokinetic parameters | | |
| c6 | Assess for the presence of common complications of chronic kidney disease | | |
| **D** | **General and transferable skills:** | | |
| d1 | Use information technology to collect and present information | Presentation assessed according to Rubric | 100% |
| d2 | Communicate effectively in a verbal manner | Oral exam | 100% |
| **d3** | Promote critical thinking، problem-solving، decision-making، and time managing capabilities | | |

**Members of examination committee:**

Assis Prof. Gehan Balata
Dr. Ahmad Amin

**Role of external evaluator:**

The course spec was evaluated by Prof. Gamal El-Maghrabi (Faculty of Pharmacy – Tanta University)

**Evaluation of course content and final exam: (under processing)**

## 4- Facilities and teaching materials:

| | |
|---|---|
| Totally adequate | |
| Adequate to some extent | √ |
| Inadequate | |
| List any inadequacies: | |

## 5- Administrative constraints:

List any difficulties encountered:

No difficulties were encountered

## 6- Student evaluation of the course: (under processing)

| List any criticism | Response of course team |
|---|---|
| | |

## 7- Comments from external evaluator(s):

| Comments | Response of course team |
|---|---|
| No comments<br>Course ILOs are consistent with program ILOs | |

## 8- Course enhancement: (It is the first time that the course was taught)

| 1. Progress on actions proposed for improving the course in previous course reports (if any). | | | |
|---|---|---|---|
| Actions recommended from the most recent course report(s) | Actions Taken | Action Results | Action Analysis |
| a. | | | |

| 2. Action Plan for Next Semester/Year | | | | |
|---|---|---|---|---|
| Actions Recommended for Further Improvement | Intended Action Points (should be measurable) | Start Date | Completion Date | Person Responsible |
| Application of field visit | 1- Contact Zagazig University Hospital for visit arrangement<br>2- Review different nephrology cases (10 cases)<br>3- Appraise the treatment plan in each case<br>4- Write a report about the cases<br>5- Asses the report using Rubric | beginning of the course | end of the course | Course instructors |
| Application of problem based learning | 1- Prepare five problems<br>2- Implement problem based learning<br>3- The problem solution was evaluated using Rubric | beginning of the course | end of the course | Course instructors |

Signature: Gehan Balata

Date: 2018

# Course Report

## Course title: Clinical Oncology

## Course code: (CPsp5)

## Course Report of Clinical Oncology

**University:** Zagazig **Faculty:** Pharmacy **Department:** pharmacy practice

**A- Basic Information**:

**1. Title and code: advanced pharmacotherapy** (CPsp5)

**2. Programme(s) on which this course is given:** PhD of Pharmacy Practice

**3. Year/ Level of programme:** 3-5 years

**4. Units/Credit hours:** 4 hrs/week

| Lectures | 92% | Tutorial/Practical | 8% | Total | 100% |
|---|---|---|---|---|---|

**5. Names of lecturers contributing to the delivery of the course:**

Assis Prof. Gehan Balata

Dr. ahmad Amin

**6. Course coordinator:** Dr. ahmad Amin

**7. External evaluator: Prof.Gamal ElMaghrabi**

**B- Statistical Information:**

| | | | | |
|---|---|---|---|---|
| No. of students attending the course: | No. | 1 | % | 100 |
| No. of students completing the course: | No. | 1 | % | 100 |

Results:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Passed: **1** | No. | 100 | % | Failed: **0** | No. | 0 | % | 0 |

Grading of successful students:

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Excellent: | **1**No. | 100 | % | | Very Good: | No. | % | |
| Good : | No. | | % | | Pass: | No. | % | |

## C- Professional Information:

### 1 - Course teaching:

| Topics actually taught | No. of hours | Lecturer |
|---|---|---|
| **ANTIEMETICS:**<br>• Important Definitions Pertaining to Chemotherapy-Induced Nausea and Vomiting (CINV)<br>• Risk Factors for CINV<br>General Principles for Managing CINV and Radiation-Induced Nausea and Vomiting | 3 | Dr. Ahmad Amin |
| **ANTIEMETICS:**<br>• Emetogenic Potential of Intravenous Chemotherapy Agents<br>• Emetogenic Potential of Oral Chemotherapy Agents<br>• Antiemetics<br>• Emesis Prevention Algorithm | 4 | |
| **PAIN MANAGEMENT:**<br>• Principles of Cancer Pain Management<br>• Diagnosis and Assessment of Pain<br>• Pain Rating Scales<br>• Treatment of Pain | 4 | |
| **TREATMENT OF FEBRILE NEUTROPENIA:**<br>• Principles of Chemotherapy-Induced Bone Marrow Suppression<br>• Neutropenia and Febrile Neutropenia<br>• Use of colony-stimulating factors in neutropenia and febrile neutropenia | 3.5 | Dr. Gehan Balata |
| **THROMBOCYTOPENIA:** | 3.5 | |

| | | |
|---|---|---|
| **ANEMIA AND FATIGUE:**<br>• Causes of Anemia and Fatigue in Adult Patients with Cancer<br>• Principles of Anemia and Fatigue | 4 | |
| **ANEMIA AND FATIGUE:**<br>• Erythropoiesis-stimulating agents | 3.5 | |
| **CHEMOPROTECTANTS:** | 3.5 | |
| **ONCOLOGIC EMERGENCIES:**<br>A. Hypercalcemia Spinal Cord Compression | 3.5 | |
| **ONCOLOGIC EMERGENCIES:**<br>Tumor Lysis Syndrome | 3.5 | |
| **MISCELLANEOUS ANTINEOPLASTIC PHARMACOTHERAPY:** | 4 | |
| Tutorial | 4 | |
| Tutorial | 4 | |

**Topics taught as a percentage of the content specified:**

>90% [√] 70-90% [ ] <70% [ ]

**Reasons in detail for not teaching any topic:**

**If any topics were taught which are not specified, give reasons in detail:**

## 2- Teaching and learning methods:

| | |
|---|---|
| Lectures: | √ |
| Practical training/ laboratory: | |
| Seminar/Workshop: | √ |
| Class activity: | |
| Case Study: | √ |

Other assignments/homework: √

If teaching and learning methods were used other than those specified, list and give reasons:

The student prepared a presentation about management of different complications encountered during cancer therapy and it was evaluated using Rubric

## 3- Course learning outcome assessment:

| Code # | List Course Learning Outcomes | List methods of assessment for each LO | Summary analysis of assessment results |
|---|---|---|---|
| **A** | **Knowledge and Understanding:** | | |
| a1 | Enumerate the risk factors of Chemotherapy-Induced Nausea and Vomiting | Written exam<br>oral exam<br>Case study | 99%<br>100%<br>98% |
| a2 | Outline the principles of cancer pain management | | |
| a3 | Explain the principles of chemotherapy-induced bone marrow suppression | | |
| a4 | List the causes of anemia and fatigue in adult patients with cancer | | |
| a5 | Describe different chemoprotectants | | |
| a6 | Identify the causes of chemotherapy induced hypercalcemia | | |
| a7 | Describe Tumor Lysis Syndrome | | |
| a8 | Describe the management of extravasation | | |

| | | | |
|---|---|---|---|
| **B** | **Intellectual skills:** | | |
| b1 | Recommend the proper therapy for managing Chemotherapy-Induced Nausea and Vomiting | Written exam<br>oral exam | 96%<br>100% |
| b2 | Design pain management plan | Case study | 98% |
| b3 | Recommend treatment therapy for chemotherapy induced anemia and fatigue | | |
| b4 | Design hypercalcemia management plan based on the estimation of degree of hypercalcemia | | |
| **C** | **Professional and Practical skills:** | | |
| c1 | Appraise critically treatment options for managing different chemotherapy induced complications | Case study | 100% |
| c2 | Assess the degree of pain using pain rating scales | | |
| **D** | **General and transferable skills:** | | |
| d1 | Use information technology to collect and present information | Presentation assessed according to Rubric | 100% |
| d2 | Communicate effectively in a verbal manner | Oral exam | 100% |
| **d3** | Promote critical thinking، problem-solving، decision-making، and time managing capabilities | | |

**Members of examination committee:**

Assis Prof. Gehan Balata
Dr. Ahmad Amin

**Role of external evaluator:**

The course spec was evaluated by Prof. Gamal El-Maghrabi (Faculty of Pharmacy – Tanta University)

**Evaluation of course content and final exam: (under processing)**

## 4- Facilities and teaching materials:

| | |
|---|---|
| Totally adequate | |
| Adequate to some extent | √ |
| Inadequate | |
| List any inadequacies: | |

## 5- Administrative constraints:

List any difficulties encountered:

No difficulties were encountered

## 6- Student evaluation of the course: (under processing)

| List any criticism | Response of course team |
|---|---|
| | |

## 7- Comments from external evaluator(s):

| Comments | Response of course team |
|---|---|
| No comments<br>Course ILOs are consistent with program ILOs | |

## 8- Course enhancement: (It is the first time that the course was taught)

1. Progress on actions proposed for improving the course in previous course reports (if any).

| Actions recommended from the most recent course report(s) | Actions Taken | Action Results | Action Analysis |
|---|---|---|---|
| a. | | | |

2. Action Plan for Next Semester/Year

| Actions Recommended for Further Improvement | Intended Action Points (should be measurable) | Start Date | Completion Date | Person Responsible |
|---|---|---|---|---|
| Application of field visit | 6- Contact Zagazig University Hospital for visit arrangement<br>7- Review different oncology cases (10 cases)<br>8- Appraise the treatment plan in each case<br>9- Write a report about the cases<br>10-Asses the report using Rubric | beginning of the course | end of the course | Course instructors |
| Application of problem based learning | 4- Prepare five problems<br>5- Implement problem based learning<br>6- The problem solution was evaluated using Rubric | beginning of the course | end of the course | Course instructors |

Signature: Gehan Balata

Date: 2018

# Course Report

# Pharmacy practice

## Course code: (CPsp6)

## Course Report of Pharmacy Practice

**University:** Zagazig **Faculty:** Pharmacy **Department:** pharmacy practice

**A- Basic Information**:

**1. Title and code: advanced pharmacotherapy** (CPsp6)

**2. Programme(s) on which this course is given:** PhD of Pharmacy Practice

**3. Year/ Level of programme:** 3-5 years

**4. Units/Credit hours:** 4 hrs/week

| Lectures | 92% | Tutorial/Practical | 8% | Total | 100% |
|---|---|---|---|---|---|

**5. Names of lecturers contributing to the delivery of the course:**

Assis Prof. Gehan Balata

Dr. ahmad Amin

**6. Course coordinator:** Dr. ahmad Amin

**7. External evaluator: Prof. Gamal elMaghrabi**

**B- Statistical Information:**

| | | | | |
|---|---|---|---|---|
| No. of students attending the course: | No. | 1 | % | 100 |
| No. of students completing the course: | No. | 1 | % | 100 |

Results:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Passed: **1** | No. | 100 | % | Failed: **0** | No. | 0 | % | 0 |

Grading of successful students:

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Excellent: | **1**No. | 100 | % | | Very Good: | No. | % | |
| Good : | No. | | % | | Pass: | No. | % | |

## C- Professional Information:

### 1 - Course teaching:

| Topics actually taught | No. of hours | Lecturer |
|---|---|---|
| Interpretation of hemodynamic parameters:<br>A. Hemodynamics<br>B. Indicators of Oxygen Delivery | 3 | Dr. Ahmad Amin |
| Treatment of shock:<br>• Diagnosis of Shock Based on Hemodynamic Parameters<br>• Treatment of Hypovolemic Shock<br>• Treatment of Obstructive Shock<br>• Classification of Sepsis Syndromes | 4 | |
| TREATMENT OF SHOCK:<br>• Treatment of Vasodilatory and Distributive Shock | 4 | |
| INTERPRETATION OF ACID-BASE DISTURBANCES:<br>• Predicted Degrees of Compensation in Acid-Base Disturbances<br>• Steps to Evaluate Acid-Base Disorders<br>• Causes of Acid-Base Disturbances | 3.5 | Dr. Gehan Balata |
| ACUTE RESPIRATORY FAILURE | 3.5 | |
| CARDIAC ARREST:<br>• 2010 American Heart Association (AHA) Guidelines<br>• Post–Cardiac Arrest Care | 4 | |
| PAIN, AGITATION, DELIRIUM, AND NEUROMUSCULAR BLOCKADE<br>• The Behavioral Pain Scale | 3.5 | |

| | | |
|---|---|---|
| • Critical Care Pain Observation Tool<br>• Richmond Agitation-Sedation Scale (RASS)<br>• Sedation-Agitation Scale (SAS)<br>• Dosing strategies for analgesics and sedatives<br>• Assessment and Management of Delirium<br>• Neuromuscular Blockade in ICU Patients | | |
| GLUCOSE CONTROL<br>Treatment Strategies to Achieve Glycemic Control in Critically Ill Patients<br>Monitoring Blood Glucose | 3.5 | |
| PREVENTING STRESS ULCERS:<br>Prophylactic therapy for stress ulcers | 3.5 | |
| PHARMACOLOGIC THERAPY FOR PREVENTING VENOUS THROMBOEMBOLISM (VTE):<br>Nonpharmacologic Prevention of VTE<br>Pharmacologic Prophylaxis | 3.5 | |
| PREVENTING VENTILATOR-ASSOCIATED PNEUMONIA: | 4 | |
| NUTRITION SUPPORT IN CRITICALLY ILL PATIENTS:<br>Estimating Nutrition Needs<br>Enteral Nutrition<br>Parenteral Nutrition | | |
| Tutorial | 4 | |
| Presentation | 4 | |

**Topics taught as a percentage of the content specified:**

| >90% | √ | 70-90% | | <70% | |
|---|---|---|---|---|---|

**Reasons in detail for not teaching any topic:**

**If any topics were taught which are not specified, give reasons in detail:**

**2- Teaching and learning methods:**

| | |
|---|---|
| Lectures: | √ |
| Practical training/ laboratory: | |
| Seminar/Workshop: | √ |
| Class activity: | |
| Case Study: | √ |

Other assignments/homework: √

If teaching and learning methods were used other than those specified, list and give reasons:

The student prepared a presentation about patient management in ICU and it was evaluated using Rubric

**3- Course learning outcome assessment:**

| Code # | List Course Learning Outcomes | List methods of assessment for each LO | Summary analysis of assessment results |
|---|---|---|---|
| **A** | **Knowledge and Understanding:** | | |
| a1 | Define Arterial blood pressure, central venous pressure, pulmonary capillary wedge pressure, pulmonary artery occlusion pressure | Written exam<br>oral exam<br>Case study | 98%<br>100%<br>98% |
| a2 | Outline Indicators of Oxygen Delivery | | |
| a3 | Describe different types of shocks | | |

| | | | |
|---|---|---|---|
| a4 | Describe sepsis syndrome | | |
| a5 | Outline steps to evaluate acid-base disorders | | |
| a6 | List 2010 American Heart Association (AHA) Guidelines | | |
| a7 | Describe causes of Respiratory Failure and complications Associated with Mechanical Ventilation | | |
| a8 | Outline different strategies for PREVENTING VENTILATOR-ASSOCIATED PNEUMONIA | | |
| **B** | **Intellectual skills:** | | |
| b1 | Differentiate between different types of shocks | Written exam<br>oral exam<br>Case study | 96%<br>100%<br>98% |
| b2 | Identify Causes of Acid-Base Disturbances, Respiratory Failure | | |
| b3 | Design a proper care for Post–Cardiac Arrest | | |
| b4 | suggest a proper management of PAIN, AGITATION, DELIRIUM, AND NEUROMUSCULAR BLOCKADE | | |
| b5 | Recommend Treatment Strategies to Achieve Glycemic Control in Critically Ill Patients | | |
| b6 | Recommend a proper Prophylactic therapy for stress ulcers and VENOUS THROMBOEMBOLISM | | |
| **C** | **Professional and Practical skills:** | | |
| c1 | Interpret different hemodynamic parameters | Case study | 100% |
| c2 | Recommend the optimum treatment for each type of shock | | |
| c3 | Predict different Organs Dysfunction | | |
| c4 | Interpret acid-base disturbances | | |
| c5 | assess pain , sedation and delirium for ICU patients | | |
| c6 | Monitor the patient during administration of Neuromuscular blockers | | |
| c7 | Monitor blood glucose level for ICU patients | | |
| c8 | Estimating Nutrition Needs for ICU patients | | |

| | | | |
|---|---|---|---|
| **D** | **General and transferable skills:** | | |
| d1 | Use information technology to collect and present information | Presentation assessed according to Rubric | 100% |
| d2 | Use information technology to collect and present information | Oral exam | 100% |
| **d3** | Promote critical thinking، problem-solving، decision-making، and time managing capabilities | | |

**Members of examination committee:**

Assis Prof. Gehan Balata
Dr. Ahmad Amin

**Role of external evaluator: (under processing)**

The course spec was evaluated by Prof. Gamal El-Maghrabi (Faculty of Pharmacy – Tanta University)

**Evaluation of course content and final exam: (under processing)**

**4- Facilities and teaching materials:**

| | |
|---|---|
| Totally adequate | |
| Adequate to some extent | √ |
| Inadequate | |
| List any inadequacies: | |

**5- Administrative constraints:**

List any difficulties encountered:

No difficulties were encountered

**6- Student evaluation of the course: (under processing)**

| List any criticism | Response of course team |
|---|---|
| | |

## 7- Comments from external evaluator(s):

| Comments | Response of course team |
|---|---|
| No comments<br>Course ILOs are consistent with program ILOs | |

## 8- Course enhancement: (It is the first time that the course was taught)

| 1. Progress on actions proposed for improving the course in previous course reports (if any). | | | |
|---|---|---|---|
| Actions recommended from the most recent course report(s) | Actions Taken | Action Results | Action Analysis |
| a. | | | |

| 2. Action Plan for Next Semester/Year | | | | |
|---|---|---|---|---|
| Actions Recommended for Further Improvement | Intended Action Points (should be measurable) | Start Date | Completion Date | Person Responsible |
| Application of field visit | 11-Contact Zagazig University Hospital for visit arrangement<br>12-Review different critical care cases (10 cases)<br>13- Appraise the treatment plan in each case<br>14-Write a report about the cases<br>15-Asses the report using Rubric | beginning of the course | end of the course | Course instructors |
| Application of problem based learning | 7- Prepare five problems<br>8- Implement problem based learning<br>9- The problem solution was evaluated using Rubric | beginning of the course | end of the course | Course instructors |

Signature: Gehan Balata

Date: 2018