



JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

(Approved by Tamil Nadu Govt. & Pharmacy Council of India - New Delhi, Affiliated to The Tamil Nadu Dr. M.G.R Medical University, Chennai)
Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

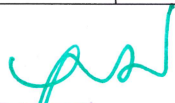
1.2.1 NUMBER OF ADD ON / CERTIFICATES / VALUE ADDED PROGRAM OFFERED DURING THE LAST FIVE YEARS.

ACADEMIC YEAR 2018-2019

Total Number of Courses: 04

S.No	Name of ADD ON / Certificates Programs offered	Course code (If any)	Duration of Course (Hrs)	No of Students Enrolled in the Year
1	IMMUNOTHERAPY AND IMMUNO-ONCOLOGY: EMERGING APPROACHES	IIO1801	30	25
2	RADIOPHARMACY: THE USE OF RADIOACTIVE MATERIALS IN DIAGNOSTIC IMAGING AND THERAPY	RPD1802	31	48
3	NEUROPHARMACOLOGY: EXPLORING BRAIN-DRUG INTERACTION	NPV1803	33	46
4	CLINICAL PHARMACY SKILLS: ENHANCING PATIENT CARE THROUGH MEDICATION MANAGEMENT	CPS1804	32	49




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ADD-ON COURSE - SYLLABUS

Course Code : IIO1801
Course Name : IMMUNOTHERAPY AND IMMUNO-ONCOLOGY:
EMERGING APPROACHES
Date : 09.06.2018 to 28.07.2018 (All Saturday)
Course & Year : B. Pharm Final Year


Course objective : To objective of these emerging approaches is to leverage the power of the immune system to recognize and destroy cancer cells more effectively than traditional treatments.

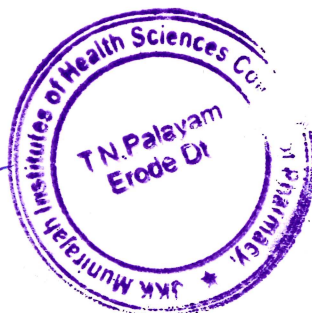
S. No	Topic	Hours
1	Module-I: IMMUNOTHERAPY AND IMMUNO-ONCOLOGY – Introduction, Check point inhibitors, cancer vaccines, Bispecific antibodies, Cytokine therapy, Microbiome modulation, Tumor microenvironment, Small Molecule Immunomodulators, Combination Therapies	10
2	Module-II: INTRODUCTION: Immunotherapy, Immuno oncology, Importance of these approaches in revolutionizing cancer treatment, Check point Inhibitors, Examples of check point inhibitors, Limitations	5
3	Module-III: CAR-T Cell Therapy: personalized vaccines, Challenges, Potential advantages and ongoing research, Ongoing Research and Developments	9
4	Module-IV: SMALL MOLECULE IMMUNOMODULATORS: Immunotherapy Combinations, Future Directions and Challenge	6


Course Outcome:

After the successful completion of this course, the student shall be able to:

1. Acquire high knowledge about the "immunotherapy and immuno-oncology: emerging approaches".
2. Have a critical way of thinking based on current health care development.


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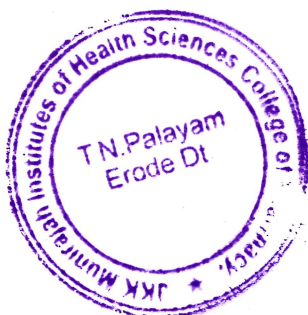
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ADD-ON COURSE - SCHEDULE

Course Code : IIO1801
Course Name : IMMUNOTHERAPY AND IMMUNO-ONCOLOGY:
EMERGING APPROACHES
Date : 09.06.2018 to 28.07.2018 (All Saturday)
Course & Year : B. Pharm Final Year

S. No	Topic	Hours
1	UNIT-I: IMMUNOTHERAPY AND IMMUNO-ONCOLOGY – Introduction, Check point inhibitors, cancer vaccines, Bispecific antibodies, Cytokine therapy, Microbiome modulation, Tumor microenvironment, Small Molecule Immunomodulators, Combination Therapies	09.06.2018 Mr. G. M. Sivakumar & Mrs. K. Abhenaya
2	UNIT-II: INTRODUCTION: Immunotherapy, Immuno oncology, Importance of these approaches in revolutionizing cancer treatment, Check point Inhibitors, Examples of check point inhibitors, Limitations	23.06.2018 Mr. G. M. Sivakumar & Mrs. K. Abhenaya
3	UNIT-III: CAR-T Cell Therapy: personalized vaccines, Challenges, Potential advantages and ongoing research,	14.07.2018 Mr. G. M. Sivakumar & Mrs. K. Abhenaya
4	Ongoing Research and Developments	21.07.2018 Mr. G. M. Sivakumar & Mrs. K. Abhenaya
5	UNIT- IV: SMALL MOLECULE IMMUNOMODULATORS: Immunotherapy Combinations, Future Directions and Challenge	28.07.2018 Mr. G. M. Sivakumar & Mrs. K. Abhenaya


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ADD-ON COURSE NAME: IMMUNOTHERAPY AND IMMUNO-ONCOLOGY:

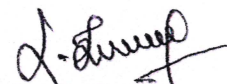
EMERGING APPROACHES

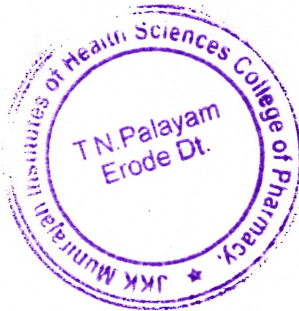
Course Code: IIO1801

RESOURCE PERSON



Name : Mr. G. M. SIVAKUMAR
Qualification : M. Pharm.,
Designation : Assistant Professor
Department : Pharmacology
Organization : JKK Munirajah Institute of Health Sciences College of Pharmacy,
Erode, Tamilnadu.
Area of Specialization : Pharmacology, Pharmacovigilance, Clinical Trail, Medical Coding,
Pharmacotherapeutics, Human Anatomy and Physiology.
Phone number : +91 99421 43001
Mail-ID : sivakumar@jkkmihscep.org
Experience : 02 Years 11 Months


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ADD-ON COURSE NAME: IMMUNOTHERAPY AND IMMUNO-ONCOLOGY:

EMERGING APPROACHES

Course Code: IIO1801

RESOURCE PERSON

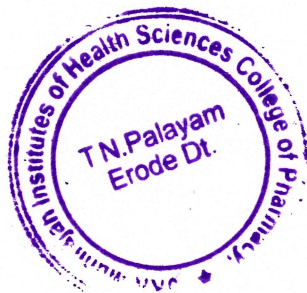


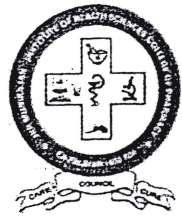
Name : Mrs. K. ABHENAYA
Qualification : M. Pharm.,
Designation : Assistant Professor
Department : Pharmaceutical Chemistry
Organization : JKK Munirajah Institute of Health Sciences College of Pharmacy,
Erode, Tamilnadu.
Area of Specialization : Pharmaceutical Organic Chemistry, Pharmaceutical Inorganic Chemistry,
Medicinal Chemistry, Natural Products, Process Chemistry.
Phone number : +91 99445 87328
Mail-ID : abhenaya@jkkmihsdp.org
Experience : 03 Years 01 Months

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IMMUNOTHERAPY AND IMMUNO-ONCOLOGY: EMERGING APPROACHES (IIO1801)

Name of Student: DEVA .P

Course & Year: B.Pharm Final Year

Registration No: 561594002.

Semester:

Date: 28/7/18

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of immunotherapy in cancer treatment?

- A) To replace traditional chemotherapy
- B) To stimulate the immune system to fight cancer cells
- C) To directly kill cancer cells
- D) To manage cancer symptoms

27
30

2. Which type of immunotherapy involves using synthetic molecules to boost the body's immune response against cancer?

- A) Checkpoint inhibitors
- B) Monoclonal antibodies
- C) CAR-T cell therapy
- D) Cytokine therapy

3. The immune checkpoint protein PD-1 (programmed cell death protein 1) is targeted by which class of immunotherapy drugs?

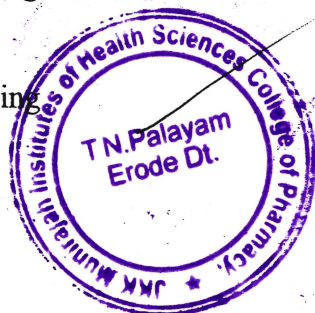
- A) Monoclonal antibodies
- B) CAR-T cell therapy
- C) Oncolytic viruses
- D) Vaccines

4. What is the main purpose of CAR-T cell therapy in cancer treatment?

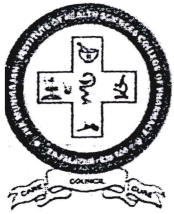
- A) Enhancing the production of red blood cells
- B) Boosting the patient's appetite
- C) Modifying T cells to target cancer cells
- D) Delivering chemotherapy directly to tumors

5. Which of the following is a common side effect of immunotherapy treatment?

- A) Hair loss
- B) Nausea and vomiting
- C) Fatigue
- D) Rash and itching



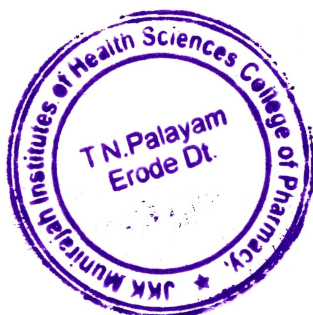
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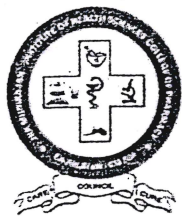
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6. In immuno-oncology, what is the role of a tumor microenvironment?
- A) Protecting the tumor from the immune system
 - B) Enhancing the effectiveness of chemotherapy
 - C) Decreasing the need for surgery
 - D) Promoting tumor cell division
7. Which type of immunotherapy aims to use viruses to selectively infect and kill cancer cells?
- A) CAR-T cell therapy
 - B) Monoclonal antibodies
 - C) Oncolytic virus therapy
 - D) Checkpoint inhibitors
8. What is the primary mechanism of action of checkpoint inhibitors in cancer immunotherapy?
- A) Inhibiting the immune system's response
 - B) Enhancing the immune system's response against cancer
 - C) Killing cancer cells directly
 - D) Promoting angiogenesis in tumors
9. Which of the following cancers has shown significant responses to immunotherapy, particularly checkpoint inhibitors?
- A) Breast cancer
 - B) Leukemia
 - C) Lung cancer
 - D) Skin cancer (melanoma)
10. What is the significance of neoantigens in cancer immunotherapy?
- A) They are antigens found in healthy cells.
 - B) They are antigens found on the surface of red blood cells.
 - C) They are antigens unique to cancer cells and can be targeted by the immune system.
 - D) They are antigens that trigger allergies in cancer patients.



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IMMUNOTHERAPY AND IMMUNO-ONCOLOGY: EMERGING APPROACHES (HIO1801)

Name of Student: KATHIRESAN, M

Course & Year: B.Pharm final year

Registration No: 561594 005

Semester:

Date: 28/7/18

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of immunotherapy in cancer treatment?

- A) To replace traditional chemotherapy
- B) To stimulate the immune system to fight cancer cells
- C) To directly kill cancer cells
- D) To manage cancer symptoms

2. Which type of immunotherapy involves using synthetic molecules to boost the body's immune response against cancer?

- A) Checkpoint inhibitors
- B) Monoclonal antibodies
- C) CAR-T cell therapy
- D) Cytokine therapy

3. The immune checkpoint protein PD-1 (programmed cell death protein 1) is targeted by which class of immunotherapy drugs?

- A) Monoclonal antibodies
- B) CAR-T cell therapy
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- D) Vaccines

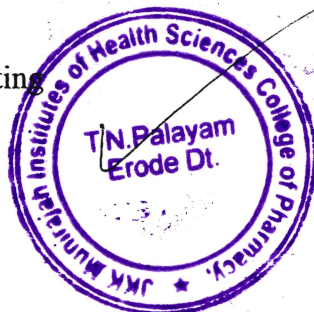
4. What is the main purpose of CAR-T cell therapy in cancer treatment?

- A) Enhancing the production of red blood cells
- B) Boosting the patient's appetite
- C) Modifying T cells to target cancer cells
- D) Delivering chemotherapy directly to tumors

5. Which of the following is a common side effect of immunotherapy treatment?

- A) Hair loss
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- C) Fatigue
- D) Rash and itching

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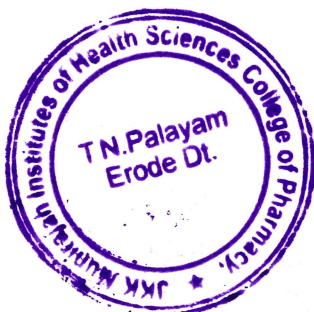
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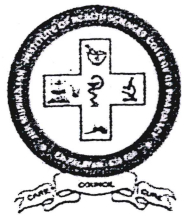
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IMMUNOTHERAPY AND IMMUNO-ONCOLOGY: EMERGING APPROACHES (HO1801)

Name of Student: SENTHAMILVANI . V

Course & Year: B. Pharm final Year

Registration No: 561594 017

Semester:

Date: 28.07.18

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of immunotherapy in cancer treatment?

- A) To replace traditional chemotherapy
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2. Which type of immunotherapy involves using synthetic molecules to boost the body's immune response against cancer?

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- A) Monoclonal antibodies
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- D) Vaccines

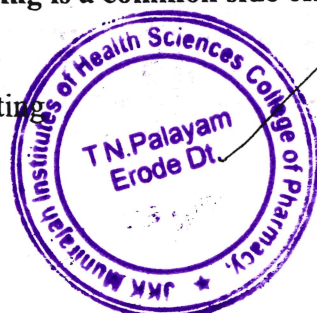
4. What is the main purpose of CAR-T cell therapy in cancer treatment?

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5. Which of the following is a common side effect of immunotherapy treatment?

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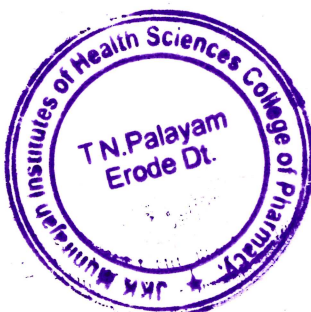
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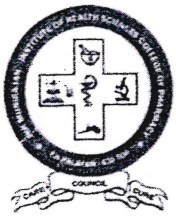
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IMMUNOTHERAPY AND IMMUNO-ONCOLOGY: EMERGING APPROACHES (IIO1801)

Name of Student: *Suresh . A*

Course & Year: *B. Pharm Final year.*

Registration No: *561594019*

Semester:

Date: *28.07.18*

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of immunotherapy in cancer treatment?

- A) To replace traditional chemotherapy
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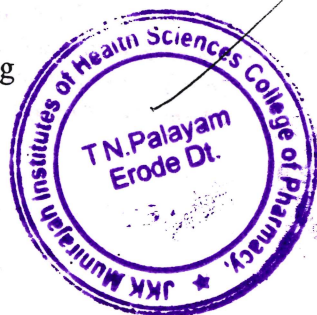
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- D) Rash and itching

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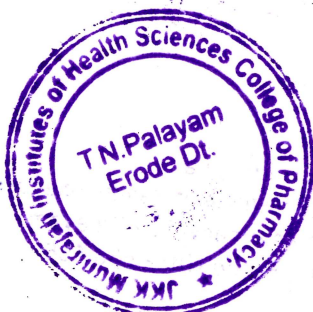
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IMMUNOTHERAPY AND IMMUNO-ONCOLOGY: EMERGING APPROACHES (II01801)

Name of Student: POON GODI'S

Course & Year: B. Pharm Final Year

Registration No: 561594026

Semester:

Date: 28.7.18

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of immunotherapy in cancer treatment?

- A) To replace traditional chemotherapy
- B) To stimulate the immune system to fight cancer cells
- C) To directly kill cancer cells
- D) To manage cancer symptoms

2. Which type of immunotherapy involves using synthetic molecules to boost the body's immune response against cancer?

- A) Checkpoint inhibitors
- B) Monoclonal antibodies
- C) CAR-T cell therapy
- D) Cytokine therapy

3. The immune checkpoint protein PD-1 (programmed cell death protein 1) is targeted by which class of immunotherapy drugs?

- A) Monoclonal antibodies
- B) CAR-T cell therapy
- C) Oncolytic viruses
- D) Vaccines

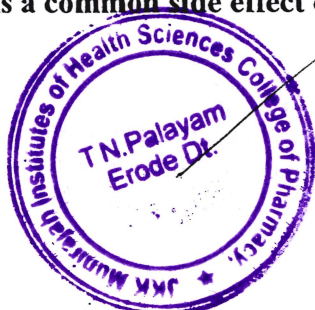
4. What is the main purpose of CAR-T cell therapy in cancer treatment?

- A) Enhancing the production of red blood cells
- B) Boosting the patient's appetite
- C) Modifying T cells to target cancer cells
- D) Delivering chemotherapy directly to tumors

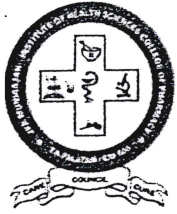
5. Which of the following is a common side effect of immunotherapy treatment?

- A) Hair loss
- B) Nausea and vomiting
- C) Fatigue
- D) Rash and itching

30
30



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6. In immuno-oncology, what is the role of a tumor microenvironment?
- A) Protecting the tumor from the immune system
 - B) Enhancing the effectiveness of chemotherapy
 - C) Decreasing the need for surgery
 - D) Promoting tumor cell division
7. Which type of immunotherapy aims to use viruses to selectively infect and kill cancer cells?
- A) CAR-T cell therapy
 - B) Monoclonal antibodies
 - C) Oncolytic virus therapy
 - D) Checkpoint inhibitors
8. What is the primary mechanism of action of checkpoint inhibitors in cancer immunotherapy?
- A) Inhibiting the immune system's response
 - B) Enhancing the immune system's response against cancer
 - C) Killing cancer cells directly
 - D) Promoting angiogenesis in tumors
9. Which of the following cancers has shown significant responses to immunotherapy, particularly checkpoint inhibitors?
- A) Breast cancer
 - B) Leukemia
 - C) Lung cancer
 - D) Skin cancer (melanoma)
10. What is the significance of neoantigens in cancer immunotherapy?
- A) They are antigens found in healthy cells.
 - B) They are antigens found on the surface of red blood cells.
 - C) They are antigens unique to cancer cells and can be targeted by the immune system.
 - D) They are antigens that trigger allergies in cancer patients.




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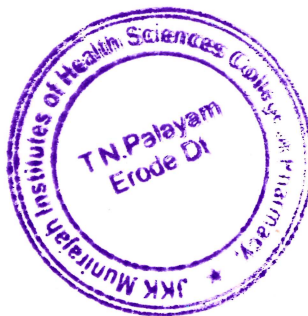
ADD-ON COURSE: ANSWER KEY


Course Code : IIO1801
Course Name : IMMUNOTHERAPY AND IMMUNO-ONCOLOGY: EMERGING APPROACHES
Date : 09.06.2018 to 28.07.2018 (All Saturday)
Course & Year : B. Pharm Final Year

ANSWER KEY

1. B) To stimulate the immune system to fight cancer cells
2. D) Cytokine therapy
3. A) Monoclonal antibodies
4. C) Modifying T cells to target cancer cells
5. D) Rash and itching
6. A) Protecting the tumor from the immune system
7. C) Oncolytic virus therapy
8. B) Enhancing the immune system's response against cancer
9. D) Skin cancer (melanoma)
10. C) They are antigens unique to cancer cells and can be targeted by the immune system.


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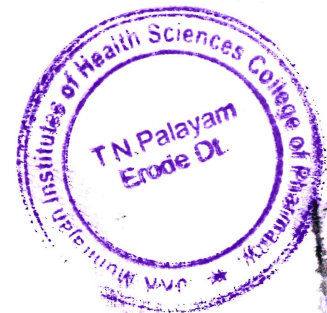
MARK STATEMENT

Course Code : IIO1801
Course Name : IMMUNOTHERAPY AND IMMUNO-ONCOLOGY:
EMERGING APPROACHES
Date : 09.06.2018 to 28.07.2018 (All Saturday)
Course & Year : B. Pharm Final Year

S.No	Student Name	Registration Number	Mark Secured
1	ABARNA A	561594001	24
2	DEVA P	561594002	27
3	KARVENTHAN S	561594004	24
4	KATHIRESAN M	561594005	24
5	MANIKANDAN S	561594007	21
6	NANDHAKUMAR D	561594009	27
7	PAVITHRA K	561594011	24
8	PRABAKARAN M	561594012	21
9	PRADEEPPRAJ K	561594014	27
10	RAGAVI T	561594015	30
11	RANJITH KUMAR A	561594016	24
12	SENTHAMILVANI V	561594017	27
13	SURESH A	561594019	27
14	TAMILALAGAN J M	561594020	24
15	YUVARAJ R	561594021	21
16	AFZAL SHARIEFF S	561594022	27
17	ASWIN C	561594023	24
18	POONGODI S	561594026	30
19	SA YID MUHSIN K P	561594027	24
20	SELVARANI V	561594028	24
21	YUVARAJA G	561594029	27
22	BALAKRISHANAN L	561694062	24
23	GOPALAKRISHNAN S	561694063	21
24	IJAS N	561694064	24
25	MOHAMED AZEEM M	561694066	27


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ADD ON COURSE FEEDBACK FORM

Name of the student: KARTHIRESAN . S

Course & Year: B. Pharm final year.

Registration No: 561594004

Date: 28.07.2018

Name of the Course: IMMUNOTHERAPY AND IMMUNO-ONCOLOGY EMERGING
APPROACHES

Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

5. The subject matter was presented effectively

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

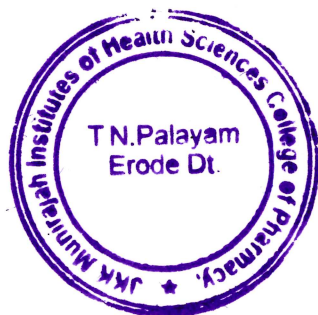
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

7. The resource person provided information I can use to be successful in my career

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

8. Overall how do you rate the Training Program?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree





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ADD ON COURSE FEEDBACK FORM

Name of the student: Deva . P

Course & Year: ~~BS Pharmacy~~ final year

Registration No: 561594002

Date: 28.07.2018

Name of the Course: Immunotherapy and immuno-oncology: Emerging Approaches

Evaluating the Following Questions

1. This Course was interesting

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

5. The subject matter was presented effectively

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

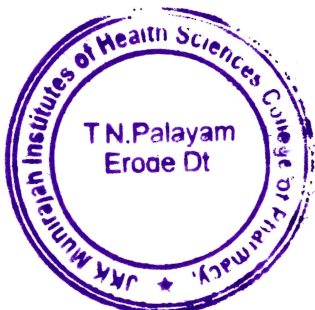
- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

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- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

8. Overall how do you rate the Training Program?

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree



[Signature]
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Deva.
Student Signature

2.

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ADD ON COURSE FEEDBACK FORM

Name of the student: MANIKANDAN. S. Course & Year: B. PHARM FINAL YEAR

Registration No: 561594007 Date: 28.07.2018.

Name of the Course: IMMUNOTHERAPY AND IMMUNO-ONCOLOGY EMERGING APPROACHES.

Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

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5. The subject matter was presented effectively

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

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7. The resource person provided information I can use to be successful in my career

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8. Overall how do you rate the Training Program?

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ADD ON COURSE FEEDBACK FORM

Name of the student: **KARVENTHAN.S**

Course & Year: **B. Pharm final year**

Registration No: **561594004**

Date: **28.07.2018**

Name of the Course: **IMMUNOTHERAPY AND IMMUNO-ONCOLOGY:
EMERGING APPROACHES**
Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

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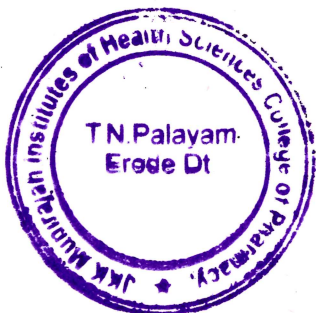
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

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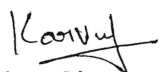
8. Overall how do you rate the Training Program?

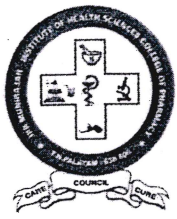
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree




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ADD ON COURSE FEEDBACK FORM

Name of the student: ABARNA Course & Year: B pharm, final year
Registration No: 561594001 Date: 28.07.2018
Name of the Course: IMMUNOTHERAPY AND IMMUNO-ONCOLOGY EMERGING APPROACHES
Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

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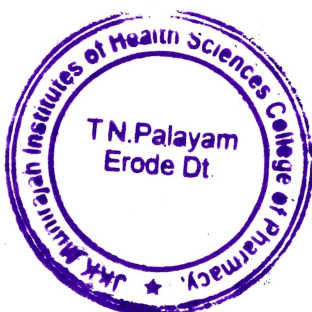
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

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ADD-ON COURSE - SYLLABUS

Course Code : RPD1802
Course Name : **RADIOPHARMACY: THE USE OF RADIOACTIVE MATERIALS IN DIAGNOSTIC IMAGING AND THERAPY**
Date : 13.10.2018 to 24.11.2018 (All Saturday)
Course & Year : B. Pharm Third Year


Course objective : To objectives of radiopharmacy are centered around leveraging the unique properties of radioactive isotopes to achieve precise diagnostic information and targeted therapeutic effects. The overall goal of radiopharmacy is to contribute to more precise and effective medical interventions by harnessing the power of radioactive materials for both diagnostic imaging and therapeutic applications.

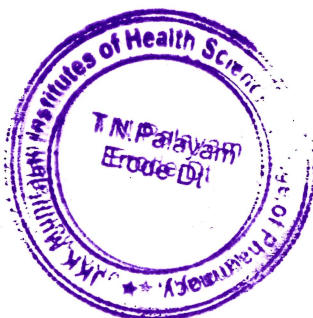
S.No	Topic	Hours
1	Module-I: INTRODUCTION: Understanding Radio Pharmacy, Personalized Medicine, Therapeutic Applications, Research and Advancements, Ethical and Safety Considerations, Basics of Radio pharmacy, Radioactivity and Isotopes, Radio pharmacy Facilities, radiation safety and handling	10
2	Module-II: RADIOPHARMACEUTICALS: Radiopharmaceutical Composition, Radiopharmaceutical Production, Applications of Radiopharmaceuticals	10
3	Module-III: DIAGNOSTIC IMAGING WITH RADIOPHARMACEUTICALS: Emission Tomography (PET), Single Photon Emission Computed Tomography (SPECT), Gamma Camera Imaging, Radiopharmaceutical Administration and Patient Safety, Radiation Physics and Dosimetry, Therapeutic Applications in Radio pharmacy	11


Course Outcome:

After the successful completion of this course, the student shall be able to:

1. Acquire high knowledge about “radiopharmacy: the use of radioactive materials in diagnostic imaging and therapy”
2. Have a critical way of thinking based on current health care development.


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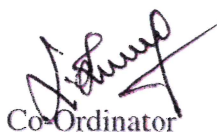
ADD-ON COURSE NAME: RADIOPHARMACY: THE USE OF RADIOACTIVE MATERIALS IN DIAGNOSTIC IMAGING AND THERAPY

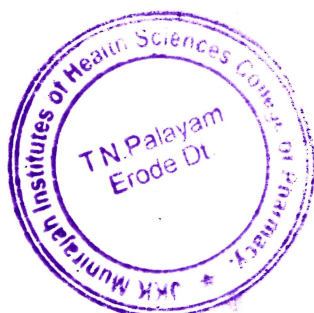
Course Code: RPD1802

RESOURCE PERSON



Name : Mrs. J. PRIYA
Qualification : M. Pharm.,
Designation : Associate Professor
Department : Pharmaceutical Chemistry
Organization : JKK Munirajah Institute of Health Sciences College of Pharmacy,
Erode, Tamilnadu.
Area of Specialization : Medicinal Chemistry, Pharmaceutical Organic Chemistry, Molecular
Docking, Drug design, CADD, QSAR, Researcher.
Phone number : +91 90802 06848
Mail-ID : priya@jkkmihscep.org
Experience : 08 Year 02 Months


Co-Ordinator





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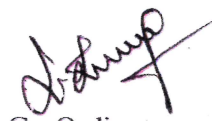
ADD-ON COURSE NAME: RADIOPHARMACY: THE USE OF RADIOACTIVE MATERIALS IN DIAGNOSTIC IMAGING AND THERAPY

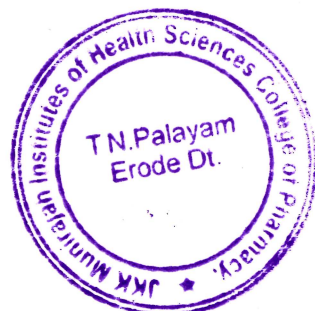
Course Code: RPD1802


RESOURCE PERSON



Name : Mr. K. K. SENTHILKUMAR
Qualification : M. Pharm.,
Designation : Associate Professor
Department : Pharmaceutical Analysis
Organization : JKK Munirajah Institute of Health Sciences College of Pharmacy,
Erode, Tamilnadu.
Area of Specialization : Pharmaceutical Analysis, Physical Chemistry, Modern Instrumental Analysis,
Quality Assurance
Phone number : +91 80725 84790
Mail-ID : senthilkumar@jkkmihscep.org
Experience : 09 Year 11 Months


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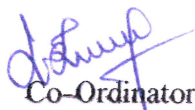
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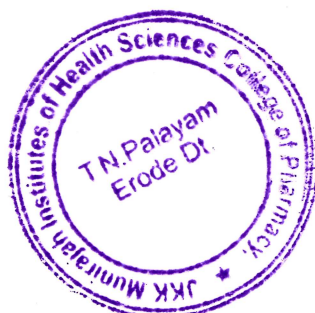
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ADD-ON COURSE - SCHEDULE

Course Code : RPD1802
Course Name : RADIOPHARMACY: THE USE OF RADIOACTIVE MATERIALS IN DIAGNOSTIC IMAGING AND THERAPY
Date : 13.10.2018 to 24.11.2018 (All Saturday)
Course & Year : B. Pharm Third Year

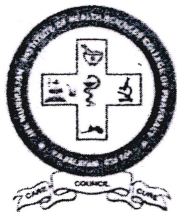
S. No	Topic	Hours
1	UNIT-I: INTRODUCTION: Understanding Radio Pharmacy, Personalized Medicine, Therapeutic Applications, Research and Advancements, Ethical and Safety Considerations, Basics of Radiopharmacy, Radioactivity and Isotopes, Radiopharmacy Facilities, radiation safety and handling	13.10.2018 Mrs. J. Priya & Mr. K. K. Senthilkumar
2	UNIT-II: RADIOPHARMACEUTICALS: Radiopharmaceutical Composition, Radiopharmaceutical Production, Applications of Radiopharmaceuticals	27.10.2018 Mrs. J. Priya & Mr. K. K. Senthilkumar
3	UNIT-III: DIAGNOSTIC IMAGING WITH RADIOPHARMACEUTICALS: Emission Tomography (PET),	10.11.2018 Mrs. J. Priya & Mr. K. K. Senthilkumar
4	Single Photon Emission Computed Tomography (SPECT), Gamma Camera Imaging	17.11.2018 Mrs. J. Priya & Mr. K. K. Senthilkumar
5	Radiopharmaceutical Administration and Patient Safety, Radiation Physics and Dosimetry, Therapeutic Applications in Radiopharmacy	24.11.2018 Mrs. J. Priya & Mr. K. K. Senthilkumar


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Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

RADIOPHARMACY: THE USE OF RADIOACTIVE MATERIALS IN DIAGNOSTIC IMAGING AND THERAPY (RPD1802)

Name of Student: HARI BASKAR . P

Registration No: 561694010

Date: 24.11.18

Answer All Multiple-Choice Questions (10 × 3 = 30)

Course & Year: B. Pharm IIIrd year.

Semester:

Marks Secured:

27
30

1. Which of the following is a key component of radiopharmaceuticals?

- a) Magnetic field
- b) Antibiotics
- c) Radionuclide
- d) X-ray tube

2. What is the primary purpose of radiopharmaceuticals in nuclear medicine?

- a) To create colorful images
- b) To provide pain relief
- c) To deliver chemotherapy
- d) To diagnose and treat medical conditions

3. Which imaging technique uses radiopharmaceuticals to visualize metabolic and physiological processes within the body?

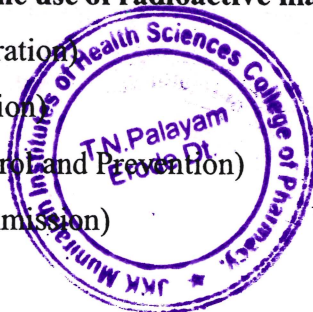
- a) Ultrasound
- b) CT scan
- c) MRI
- d) PET scan

4. What is the role of radio labeling in radiopharmaceutical production?

- a) Ensuring the pharmaceutical agent is colorful
- b) Attaching the radionuclide to the pharmaceutical agent
- c) Making the radiopharmaceutical taste better
- d) Reducing radiation emissions

5. Which regulatory body oversees the use of radioactive materials in medicine in the United States?

- a) FDA (Food and Drug Administration)
- b) WHO (World Health Organization)
- c) CDC (Centers for Disease Control and Prevention)
- d) NRC (Nuclear Regulatory Commission)



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6. In theranostics, what is the main concept?

- a) Treating patients without diagnosis
- b) Using a single radiopharmaceutical for both diagnosis and therapy
- c) Focusing only on radiation therapy
- d) Using multiple radiopharmaceuticals for diagnosis

7. What is the ALARA principle in radiation safety?

- a) Always Leave All Radiation Alone
- b) Always Limit Access to Radiation Areas
- c) As Low As Reasonably Achievable
- d) All Light is Absorbed in Radiation Areas

8. Which of the following is a common radionuclide used in radioimmunotherapy?

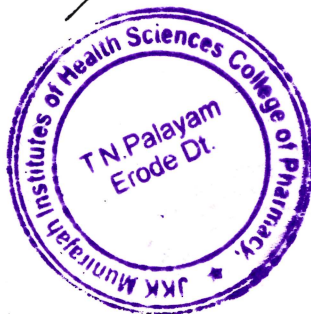
- a) Carbon-14 (C-14)
- b) Iodine-131 (I-131)
- c) Oxygen-16 (O-16)
- d) Hydrogen-2 (H-2)


9. What is the primary purpose of radiation shielding in radiopharmacy facilities?

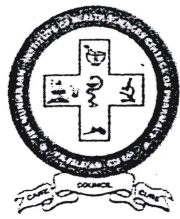
- a) To create a warm atmosphere
- b) To enhance the visibility of radiopharmaceuticals
- c) To protect personnel and the public from radiation exposure
- d) To reduce the temperature inside the facility

10. Which imaging modality combines PET or SPECT with CT or MRI for comprehensive diagnostic information?

- a) Hybrid Imaging
- b) Ultrasound
- c) Fluoroscopy
- d) Mammography




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RADIOPHARMACY: THE USE OF RADIOACTIVE MATERIALS IN DIAGNOSTIC IMAGING AND THERAPY (RPD1802)

Name of Student: AISHWARYA.M

Course & Year: B.Pharm third year

Registration No: 561694001

Semester:

Date: 24.11.2018

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. Which of the following is a key component of radiopharmaceuticals?

- a) Magnetic field
- b) Antibiotics
- c) Radionuclide
- d) X-ray tube

24
30

2. What is the primary purpose of radiopharmaceuticals in nuclear medicine?

- a) To create colorful images
- b) To provide pain relief
- c) To deliver chemotherapy
- d) To diagnose and treat medical conditions

3. Which imaging technique uses radiopharmaceuticals to visualize metabolic and physiological processes within the body?

- a) Ultrasound
- b) CT scan
- c) MRI
- d) PET scan

4. What is the role of radio labeling in radiopharmaceutical production?

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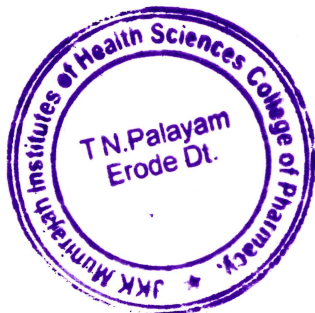
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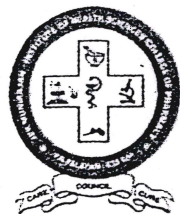
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RADIOPHARMACY: THE USE OF RADIOACTIVE MATERIALS IN DIAGNOSTIC IMAGING AND THERAPY (RPD1802)

Name of Student: AKILA . M

Course & Year: B.pharm Third year

Registration No: 56169 4004

Semester:

Date: 24/11/18

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. Which of the following is a key component of radiopharmaceuticals?

- a) Magnetic field
- b) Antibiotics
- c) Radionuclide
- d) X-ray tube

30
30

2. What is the primary purpose of radiopharmaceuticals in nuclear medicine?

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- b) CT scan
- c) MRI
- d) PET scan

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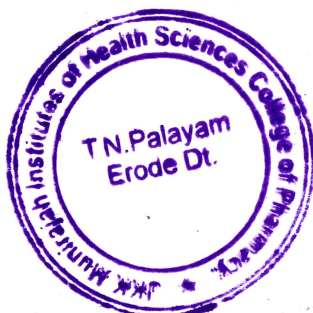
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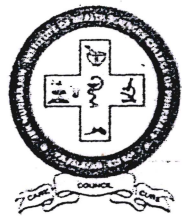
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RADIOPHARMACY: THE USE OF RADIOACTIVE MATERIALS IN DIAGNOSTIC IMAGING AND THERAPY (RPD1802)

Name of Student: POOVARASAN A

Course & Year: B.Pharm IIIrd year.

Registration No: 561694033

Semester:

Date: 24.11.18

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. Which of the following is a key component of radiopharmaceuticals?

30
30

- a) Magnetic field
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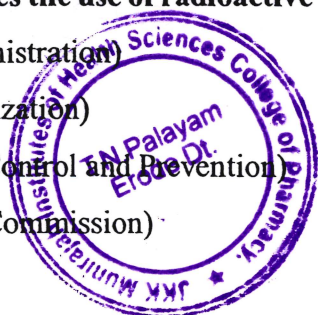
- a) Ultrasound
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- c) MRI
- d) PET scan


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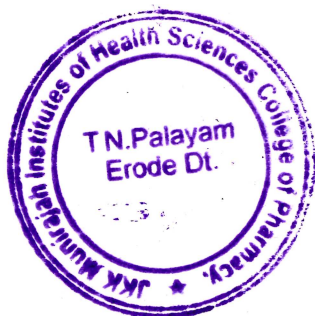
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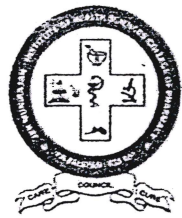
- a) To create a warm atmosphere
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RADIOPHARMACY: THE USE OF RADIOACTIVE MATERIALS IN DIAGNOSTIC IMAGING AND THERAPY (RPD1802)

Name of Student: SARANYA.J

Course & Year: B. Pharm third year

Registration No: 561694 043

Semester:

Date: 24.11.18

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

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27
30

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X

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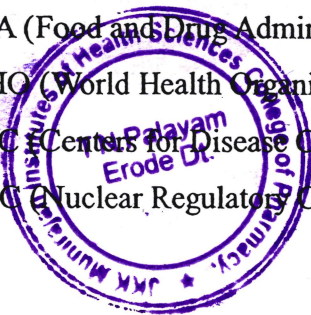
- a) Ultrasound
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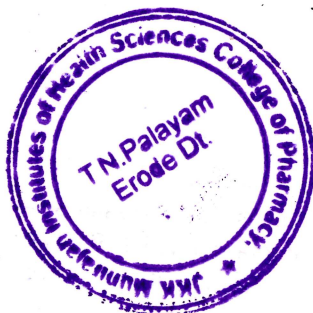
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ADD-ON COURSE: ANSWER KEY

Course Code : RPD1802

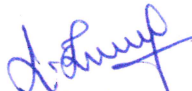
Course Name : RADIOPHARMACY: THE USE OF RADIOACTIVE MATERIALS IN
DIAGNOSTIC IMAGING AND THERAPY

Date : 13.10.2018 to 24.11.2018 (All Saturday)

Course & Year : B. Pharm Third Year

ANSWER KEY

1. c) Radionuclide
2. d) To diagnose and treat medical conditions
3. d) PET scan
4. b) Attaching the radionuclide to the pharmaceutical agent
5. d) NRC (Nuclear Regulatory Commission)
6. b) Using a single radiopharmaceutical for both diagnosis and therapy
7. c) As Low As Reasonably Achievable
8. b) Iodine-131 (I-131)
9. c) To protect personnel and the public from radiation exposure
10. a) Hybrid Imaging


Co-Ordinator





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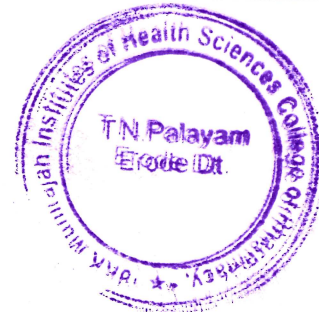
MARK STATEMENT

Course Code : RPD1802
Course Name : RADIOPHARMACY: THE USE OF RADIOACTIVE MATERIALS IN DIAGNOSTIC IMAGING AND THERAPY
Date : 13.10.2018 to 24.11.2018 (All Saturday)
Course & Year : B. Pharm Third Year

S.No	Student Name	Registration Number	Mark Secured
1	AISHWARYA M	561694001	24
2	AJITHKUMAR D	561694003	27
3	AKILA M	561694004	30
4	ARULRAJ K	561694005	24
5	ARUNKUMAR M	561694006	24
6	HARI BASKAR P	561694010	27
7	HARIPRASANNA G	561694011	27
8	HEMALATHA K	561694012	21
9	JAFIR KHAN J	561694013	24
10	JEEVITHA G	561694015	21
11	JEGAN T	561694016	27
12	JOTHIMANI S	561694017	21
13	MAALINI M D R	561694019	21
14	MANIMOZHI S K	561694020	27
15	MATHIYALAGAN S	561694021	24
16	MOHANAMUKILAN T	561694023	27
17	MONICA PRIYA H	561694024	24
18	MUKILAN RANJITH P	561694025	21
19	MUNIVENKATESAN P	561694026	27
20	PANDEESWARAN A	561694028	24
21	PARAMESHWARI L	561694029	27
22	PARTHIBAN N	561694030	24
23	PARTHIBAN V	561694031	21
24	POOVARASAN A	561694033	30
25	PRAVEENKUMAR M	561694035	24

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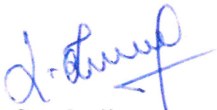





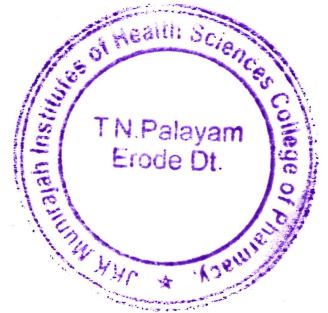
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S.No	Student Name	Registration Number	Mark Secured
26	RAJA SHOBA S	561694036	24
27	RAJAMANIKKAM D	561694037	27
28	RANJITH R	561694038	24
29	SANJAYKUMAR K	561694041	27
30	SANTHOSKUMAR G	561694042	24
31	SARANYA J	561694043	27
32	SASMITHA B	561694044	27
33	SILAMBARASAN K	561694045	24
34	SONA K	561694046	27
35	SRIDHAR V	561694048	24
36	SUGANTH M	561694049	21
37	SURESH KUMAR S	561694050	24
38	VARSHA K	561694052	27
39	VELMURUGAN.M	561694053	21
40	VENKADESH S	561694054	24
41	VIGNESH S	561694056	27
42	VIJAY R	561694057	24
43	VIJAY R	561694058	30
44	YASMEEN A	561694059	24
45	BOOPATHI M	561794061	21
46	KASTHURI K	561794062	27
47	KEERTHIKUMAR V	561794063	24
48	TAMILSELVAN M	561794065	21


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ADD ON COURSE FEEDBACK FORM

Name of the student: VIJAY . R

Course & Year: B. Pharm Third year

Registration No: 56169 4058

Date: 24.11.2018

Name of the Course: RADIO PHARMACY: THE USE OF RADIOACTIVE MATERIALS
IN DIAGNOSTIC IMAGING AND THERAPY

Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

5. The subject matter was presented effectively

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

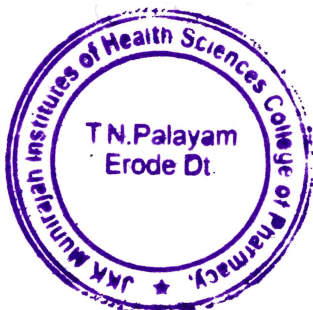
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree


7. The resource person provided information I can use to be successful in my career

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

8. Overall how do you rate the Training Program?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree




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ADD ON COURSE FEEDBACK FORM

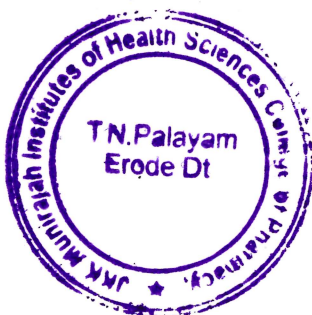
Name of the student: PARTHIBAN.V Course & Year: B.Pharm third year.

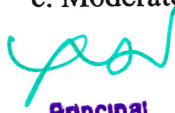
Registration No: 561694031 Date: 24.11.2018

Name of the Course: Radiopharmacy: The use of Radioactive Materials
Evaluating the Following Questions in diagnostic imaging and therapy.

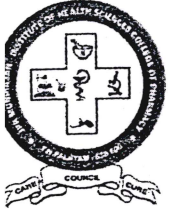
[RPD 1802]

1. This Course was interesting
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree
2. Was this course useful
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree
3. During the course did you find any technical difficulties?
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree
4. Did the resource person delivered the information, you didn't know already?
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree
5. The subject matter was presented effectively
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree
6. The resource person helped me learn about how the course works in the real world
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree
7. The resource person provided information I can use to be successful in my career
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree
8. Overall how do you rate the Training Program?
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree




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V. Parthiban
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ADD ON COURSE FEEDBACK FORM

Name of the student: SANJAYKUMAR .K

Course & Year: B. Pharm Third year

Registration No: 561694041

Date: 22.11.2018

Name of the Course: Radiopharmacy: The use of Radioactive materials in diagnostic imaging and Therapy. [RPD 1802]

Evaluating the Following Questions

1. This Course was interesting

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

5. The subject matter was presented effectively

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

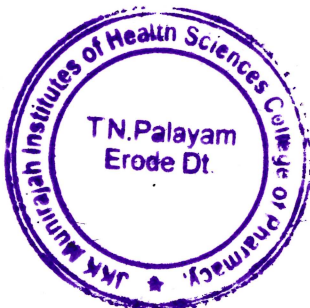
- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

7. The resource person provided information I can use to be successful in my career

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

8. Overall how do you rate the Training Program?

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree



[Signature]
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[Signature]
Student Signature

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ADD ON COURSE FEEDBACK FORM

Name of the student: JEGAN . T .

Course & Year: B. Pharm. third year.

Registration No: 561694016 .

Date: 24. 11. 2018

Name of the Course: Radiopharmacy: the use of radiopharmacy materials in diagnostic, imaging and therapy.
[RPD1802]

Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

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5. The subject matter was presented effectively

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

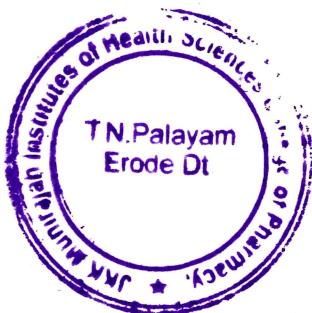
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

7. The resource person provided information I can use to be successful in my career

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

8. Overall how do you rate the Training Program?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree



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T. Jegan
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ADD ON COURSE FEEDBACK FORM

Name of the student: VIGNESH . S

Course & Year: B. Pharm Third year

Registration No: 561694056

Date: 24.11.2018

Name of the Course: RADIO PHARMACY: THE USE OF RADIO ACTIVE MATERIAL IN
Evaluating the Following Questions DIAGNOSTIC IMAGING AND THERAPY

1. This Course was interesting

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

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4. Did the resource person delivered the information, you didn't know already?

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

5. The subject matter was presented effectively

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6. The resource person helped me learn about how the course works in the real world

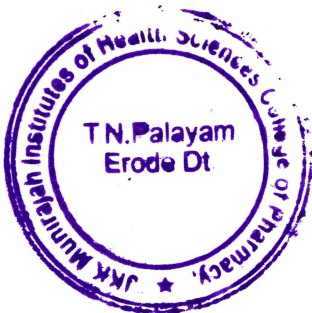
- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree


7. The resource person provided information I can use to be successful in my career

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

8. Overall how do you rate the Training Program?

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ADD-ON COURSE - SYLLABUS

Course Code : NPB1803
Course Name : NEUROPHARMACOLOGY: EXPLORING BRAIN-DRUG INTERACTION
Date : 13.10.2018 to 24.11.2018 (All Saturday)
Course & Year : B. Pharm Second Year


Course objective : To objectives of neuropharmacology are aimed at deepening our understanding of the complex interactions between drugs and the nervous system, with the ultimate goal of improving the treatment of neurological and psychiatric disorders. Neuropharmacology in exploring the interaction between the brain and drugs are multifaceted, encompassing both scientific research and clinical applications.

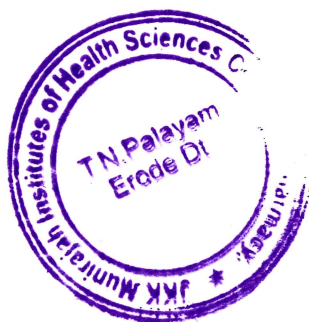
S. No	Topic	Hours
1	Module-I: NEUROPHARMACOLOGY: Neurotransmitter systems, Receptor Pharmacology, Neurological disorder, Psychotic drugs, Neuro production, Neurotransmitter modulation, Neuroinflammation, Targeted therapy	11
2	Module-II: BLOOD BRAIN BARRIER: Pharmacogenomics, Neuro pharmacovigilance, Emerging Technologies, Cross talk between system, Combination therapy, Natural components, Long term effects, Neuro pharmacogenetics, Neurotoxicity	11
3	Module-III: BRAIN DRUG INTERACTION: Effects of Drugs on The Brain & Neurotransmitters	11


Course Outcome:

After the successful completion of this course, the student shall be able to:

1. Acquire high knowledge about the neuropharmacology: exploring brain-drug interaction.
2. Have a critical way of thinking based on current health care development.


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ADD-ON COURSE NAME: NEUROPHARMACOLOGY: EXPLORING BRAIN-

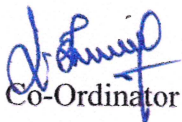
DRUG INTERACTION

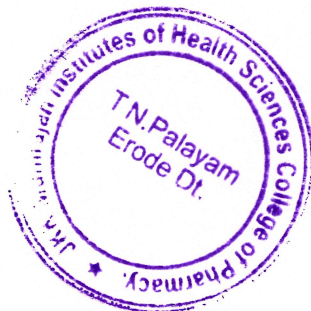
Course Code: NPB1803


RESOURCE PERSON



Name : Mrs. V. LALITHA
Qualification : M. Pharm.,
Designation : Associate Professor
Department : Pharmaceutical Chemistry
Organization : JKK Munirajah Institute of Health Sciences College of Pharmacy,
Erode, Tamilnadu.
Area of Specialization : Medicinal Chemistry, Pharmaceutical Organic Chemistry, Molecular
Docking, Drug design, CADD, QSAR, Researcher.
Phone number : +91 97899 48682
Mail-ID : lalithacology@gmail.com
Experience : 10 Year 04 Months


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ADD-ON COURSE NAME: NEUROPHARMACOLOGY: EXPLORING BRAIN-

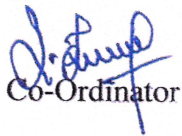
DRUG INTERACTION

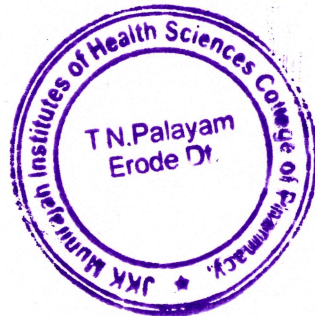
Course Code: NPB1803


RESOURCE PERSON



Name : DR. M. PERIASAMY
Qualification : M. Pharm., Ph.D.,
Designation : Professor
Department : Pharmacology
Organization : JKK Munirajah Institute of Health Sciences College of Pharmacy,
Erode, Tamilnadu.
Area of Specialization : General Pharmacology, Drug discovery, ADR monitoring, Toxicology.
Phone number : +91 94432 30618
Mail-ID : periasamy@jkkmihsdp.org
Experience : 11 Years 10 Months


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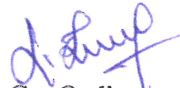
JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

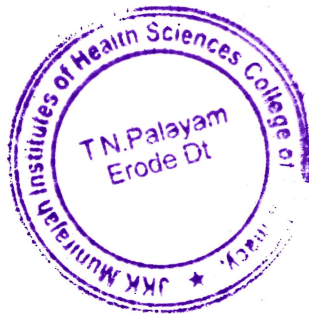
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ADD-ON COURSE - SCHEDULE

Course Code : NPB1803
Course Name : NEUROPHARMACOLOGY: EXPLORING BRAIN-DRUG INTERACTION
Date : 13.10.2018 to 24.11.2018 (All Saturday)
Course & Year : B. Pharm Second Year

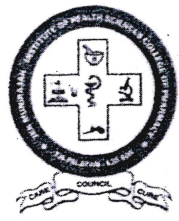
S. No	Topic	Hours
1	UNIT-I: NEUROPHARMACOLOGY: Neurotransmitter systems, Receptor Pharmacology, Neurological disorder, Psychotic drugs, Neuro production, Neurotransmitter modulation, Neuroinflammation, Targeted therapy	13.10.2018 Mrs. V. Lalitha & DR. M. Periasamy
2	UNIT-II: BLOOD BRAIN BARRIER: Pharmacogenomics, Neuropharmacovigilance, Emerging Technologies, Cross talk between system	27.10.2018 Mrs. V. Lalitha & DR. M. Periasamy
3	Combination therapy, Natural components, Long term effects	10.11.2018 Mrs. V. Lalitha & DR. M. Periasamy
4	Neuropharmacogenetics, Neurotoxicity	17.11.2018 Mrs. V. Lalitha & DR. M. Periasamy
5	UNIT-III: BRAIN DRUG INTERACTION: Effects of Drugs on The Brain & Neurotransmitters	24.11.2018 Mrs. V. Lalitha & DR. M. Periasamy


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NEUROPHARMACOLOGY: EXPLORING BRAIN-DRUG INTERACTION (NPB1803)

Name of Student: BALAJI, R.

Course & Year: B. Pharm 1st year

Registration No: 561794006

Semester:

Date: 24.11.2018

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

24
30

1. What is the primary focus of neuropharmacology?

- A) Studying the effects of exercise on brain health
- B) Investigating the molecular mechanisms of neurological diseases ✓
- C) Developing new surgical techniques for brain disorders
- D) Analyzing the geological features of the brain

2. Which neurotransmitter is often associated with feelings of pleasure and reward and is implicated in addiction?

- A) Serotonin
- B) GABA (Gamma-Aminobutyric Acid) ✓
- C) Dopamine
- D) Acetylcholine

3. What type of drugs are commonly prescribed to alleviate symptoms of anxiety and panic disorders by enhancing the effects of GABA?

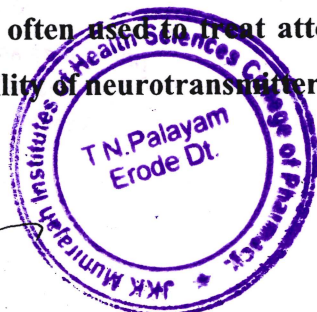
- A) Selective serotonin reuptake inhibitors (SSRIs)
- B) Dopamine agonists ✓
- C) Benzodiazepines
- D) Opioids

4. Which neurotransmitter is primarily responsible for muscle contraction and is targeted by drugs used to treat neuromuscular disorders like myasthenia gravis?

- A) Serotonin
- B) Dopamine
- C) Acetylcholine ✓
- D) Norepinephrine

5. What class of drugs is often used to treat attention deficit hyperactivity disorder (ADHD) by increasing the availability of neurotransmitters like dopamine and norepinephrine in the brain?

- A) Antidepressants
- B) Benzodiazepines
- C) Stimulants ✓
- D) Antipsychotics



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6. Which part of the neuron is responsible for transmitting electrical signals away from the cell body and is the target of some medications used to treat mood disorders?

- A) Dendrite
- B) Axon
- C) Synapse
- D) Myelin sheath

7. In neuropharmacology, what does the term "agonist" refer to?

- A) A drug that blocks the effects of neurotransmitters
- B) A drug that enhances the effects of neurotransmitters
- C) A drug that induces seizures
- D) A drug that suppresses the immune system

8. Which neurotransmitter is implicated in mood regulation and is targeted by drugs commonly used to treat depression?

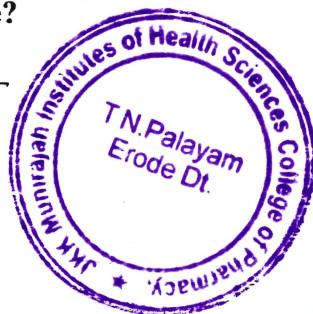
- A) Acetylcholine
- B) Norepinephrine
- C) Glutamate
- D) GABA


9. What is the primary mode of action of selective serotonin reuptake inhibitors (SSRIs) in treating depression and anxiety disorders?

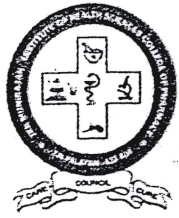
- A) Increasing the release of serotonin
- B) Blocking the reuptake of serotonin by neurons
- C) Enhancing the effects of dopamine
- D) Reducing the levels of norepinephrine

10. Which brain region is associated with learning and memory and is the target of drugs used to treat Alzheimer's disease?

- A) Cerebellum
- B) Hippocampus
- C) Amygdala
- D) Medulla oblongata




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NEUROPHARMACOLOGY: EXPLORING BRAIN-DRUG INTERACTION (NPB1803)

Name of Student: AFREEN . N

Course & Year: B. Pharm 2nd year

Registration No: 561794001

Semester:

Date: 24.11.2018

Marks Secured:

27
30

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary focus of neuropharmacology?

- A) Studying the effects of exercise on brain health
- B) Investigating the molecular mechanisms of neurological diseases
- C) Developing new surgical techniques for brain disorders
- D) Analyzing the geological features of the brain

2. Which neurotransmitter is often associated with feelings of pleasure and reward and is implicated in addiction?

- A) Serotonin
- B) GABA (Gamma-Aminobutyric Acid)
- C) Dopamine
- D) Acetylcholine

3. What type of drugs are commonly prescribed to alleviate symptoms of anxiety and panic disorders by enhancing the effects of GABA?

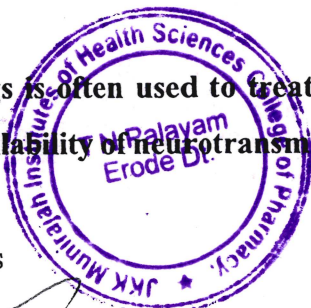
- A) Selective serotonin reuptake inhibitors (SSRIs)
- B) Dopamine agonists
- C) Benzodiazepines
- D) Opioids

4. Which neurotransmitter is primarily responsible for muscle contraction and is targeted by drugs used to treat neuromuscular disorders like myasthenia gravis?

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- D) Norepinephrine

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- A) Antidepressants
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- C) Stimulants
- D) Antipsychotics



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6. Which part of the neuron is responsible for transmitting electrical signals away from the cell body and is the target of some medications used to treat mood disorders?

- A) Dendrite
- B) Axon
- C) Synapse
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- A) A drug that blocks the effects of neurotransmitters
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- C) A drug that induces seizures
- D) A drug that suppresses the immune system

8. Which neurotransmitter is implicated in mood regulation and is targeted by drugs commonly used to treat depression?

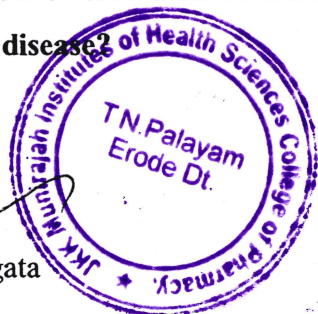
- A) Acetylcholine
- B) Norepinephrine
- C) Glutamate
- D) GABA

9. What is the primary mode of action of selective serotonin reuptake inhibitors (SSRIs) in treating depression and anxiety disorders?

- A) Increasing the release of serotonin
- B) Blocking the reuptake of serotonin by neurons
- C) Enhancing the effects of dopamine
- D) Reducing the levels of norepinephrine

10. Which brain region is associated with learning and memory and is the target of drugs used to treat Alzheimer's disease?

- A) Cerebellum
- B) Hippocampus
- C) Amygdala
- D) Medulla oblongata



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Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

NEUROPHARMACOLOGY: EXPLORING BRAIN-DRUG INTERACTION (NPB1803)

Name of Student: BHARATHI P

Course & Year: Pharm second year

Registration No: 561794009

Semester:

Date: 24.11.2018

Marks Secured:

Answer All Multiple-Choice Questions ($10 \times 3 = 30$)

27
30

1. What is the primary focus of neuropharmacology?

- A) Studying the effects of exercise on brain health
- B) Investigating the molecular mechanisms of neurological diseases
- C) Developing new surgical techniques for brain disorders
- D) Analyzing the geological features of the brain

2. Which neurotransmitter is often associated with feelings of pleasure and reward and is implicated in addiction?

- A) Serotonin
- B) GABA (Gamma-Aminobutyric Acid)
- C) Dopamine
- D) Acetylcholine

3. What type of drugs are commonly prescribed to alleviate symptoms of anxiety and panic disorders by enhancing the effects of GABA?

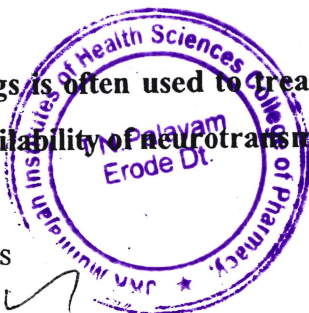
- A) Selective serotonin reuptake inhibitors (SSRIs)
- B) Dopamine agonists
- C) Benzodiazepines
- D) Opioids

4. Which neurotransmitter is primarily responsible for muscle contraction and is targeted by drugs used to treat neuromuscular disorders like myasthenia gravis?

- A) Serotonin
- B) Dopamine
- C) Acetylcholine
- D) Norepinephrine

5. What class of drugs is often used to treat attention deficit hyperactivity disorder (ADHD) by increasing the availability of neurotransmitters like dopamine and norepinephrine in the brain?

- A) Antidepressants
- B) Benzodiazepines
- C) Stimulants
- D) Antipsychotics



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6. Which part of the neuron is responsible for transmitting electrical signals away from the cell body and is the target of some medications used to treat mood disorders?

- A) Dendrite
- B) Axon
- C) Synapse
- D) Myelin sheath

7. In neuropharmacology, what does the term "agonist" refer to?

- A) A drug that blocks the effects of neurotransmitters
- B) A drug that enhances the effects of neurotransmitters
- C) A drug that induces seizures
- D) A drug that suppresses the immune system

8. Which neurotransmitter is implicated in mood regulation and is targeted by drugs commonly used to treat depression?

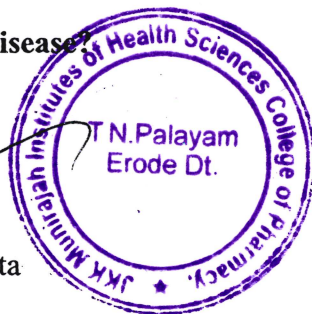
- A) Acetylcholine
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NEUROPHARMACOLOGY: EXPLORING BRAIN-DRUG INTERACTION (NPB1803)

Name of Student: DINESH - D

Course & Year: B.Pharm IInd year

Registration No: 561794015

Semester:

Date: 24/11/18

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

30
30

1. What is the primary focus of neuropharmacology?

- A) Studying the effects of exercise on brain health
- B) Investigating the molecular mechanisms of neurological diseases
- C) Developing new surgical techniques for brain disorders
- D) Analyzing the geological features of the brain

2. Which neurotransmitter is often associated with feelings of pleasure and reward and is implicated in addiction?

- A) Serotonin
- B) GABA (Gamma-Aminobutyric Acid)
- C) Dopamine
- D) Acetylcholine

3. What type of drugs are commonly prescribed to alleviate symptoms of anxiety and panic disorders by enhancing the effects of GABA?

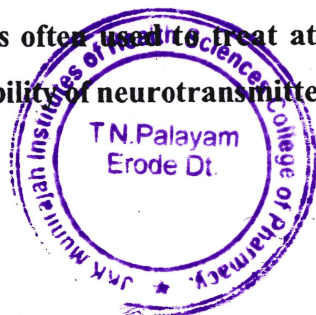
- A) Selective serotonin reuptake inhibitors (SSRIs)
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- D) Opioids

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- C) Acetylcholine
- D) Norepinephrine

5. What class of drugs is often used to treat attention deficit hyperactivity disorder (ADHD) by increasing the availability of neurotransmitters like dopamine and norepinephrine in the brain?

- A) Antidepressants
- B) Benzodiazepines
- C) Stimulants
- D) Antipsychotics



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6. Which part of the neuron is responsible for transmitting electrical signals away from the cell body and is the target of some medications used to treat mood disorders?

- A) Dendrite
- B) Axon
- C) Synapse
- D) Myelin sheath

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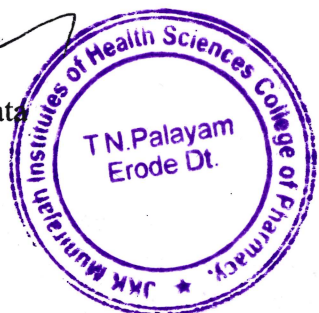
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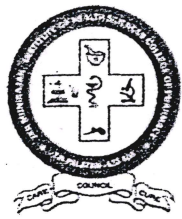
- A) Increasing the release of serotonin
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NEUROPHARMACOLOGY: EXPLORING BRAIN-DRUG INTERACTION (NPB1803)

Name of Student: DEVI.E

Course & Year: B.Pharm second year

Registration No: 561794012

Semester:

Date: 24.11.18

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary focus of neuropharmacology?

24
30

- A) Studying the effects of exercise on brain health
- B) Investigating the molecular mechanisms of neurological diseases ✓
- C) Developing new surgical techniques for brain disorders
- D) Analyzing the geological features of the brain

2. Which neurotransmitter is often associated with feelings of pleasure and reward and is implicated in addiction?

- A) Serotonin
- B) GABA (Gamma-Aminobutyric Acid)
- C) Dopamine ✓
- D) Acetylcholine

3. What type of drugs are commonly prescribed to alleviate symptoms of anxiety and panic disorders by enhancing the effects of GABA?

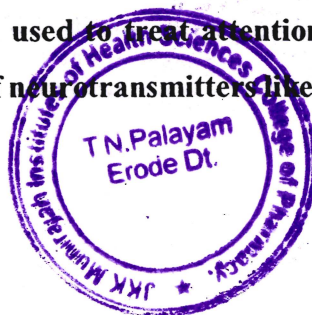
- A) Selective serotonin reuptake inhibitors (SSRIs)
- B) Dopamine agonists
- C) Benzodiazepines ✓
- D) Opioids

4. Which neurotransmitter is primarily responsible for muscle contraction and is targeted by drugs used to treat neuromuscular disorders like myasthenia gravis?

- A) Serotonin
- B) Dopamine ✗
- C) Acetylcholine
- D) Norepinephrine

5. What class of drugs is often used to treat attention deficit hyperactivity disorder (ADHD) by increasing the availability of neurotransmitters like dopamine and norepinephrine in the brain?

- A) Antidepressants
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- C) Stimulants
- D) Antipsychotics ✓



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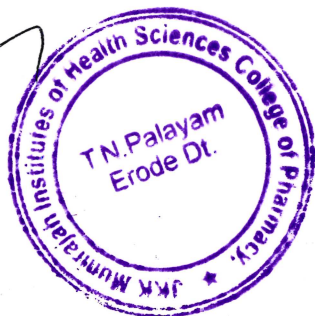
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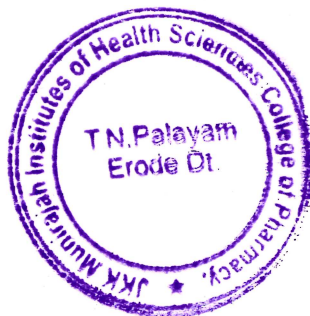
ADD-ON COURSE: ANSWER KEY


Course Code : NPB1803
Course Name : NEUROPHARMACOLOGY: EXPLORING BRAIN-DRUG INTERACTION
Date : 13.10.2018 to 24.11.2018 (All Saturday)
Course & Year : B. Pharm Second Year

ANSWER KEY

1. B) Investigating the molecular mechanisms of neurological diseases
2. C) Dopamine
3. C) Benzodiazepines
4. C) Acetylcholine
5. C) Stimulants
6. B) Axon
7. B) A drug that enhances the effects of neurotransmitters
8. B) Norepinephrine
9. B) Blocking the reuptake of serotonin by neurons
10. B) Hippocampus


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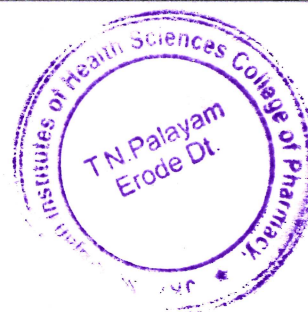
MARK STATEMENT

Course Code : NPB1803
Course Name : NEUROPHARMACOLOGY: EXPLORING BRAIN-DRUG INTERACTION
Date : 13.10.2018 to 24.11.2018 (All Saturday)
Course & Year : B. Pharm Second Year

S.No	Student Name	Registration Number	Mark Secured
1	AFREEN N	561794001	27
2	AISHWARYA J	561794002	24
3	AJITHKUMAR E	561794003	24
4	ARUNRAJA R	561794005	27
5	BALAJI R	561794006	24
6	BARMARAMANI M	561794007	21
7	BAVADARINI V	561794008	24
8	BHARATHI P	561794009	27
9	BHARATHKUMAR S	561794010	24
10	BHAVATHARANI S	561794011	27
11	DEVI E	561794012	24
12	DINESH C	561794014	21
13	DINESH D	561794015	30
14	GAYATHRI B	561794016	27
15	GOPI V	561794018	24
16	GOWRI SANKARI K	561794019	24
17	HARIPRAKASH B	561794021	27
18	HARISH G	561794022	24
19	IMAMDEEN N	561794023	27
20	KAMALRAJ T	561794024	24
21	KAVIYA K	561794026	27
22	KAVIYARASAN J	561794027	24
23	KOHILA M	561794028	27
24	KRISHNA PRIYA R	561794029	27
25	MOHANRAJ S	561794031	21

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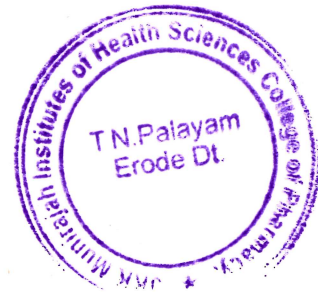






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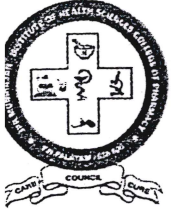
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Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

S.No	Student Name	Registration Number	Mark Secured
26	MONISHA B	561794032	24
27	NAVEEN A	561794033	21
28	PANDEESWARAN P	561794035	24
29	PARTHIBAN M	561794036	27
30	POONGODI S	561794038	24
31	PRITHIVIRAJAN S	561794039	21
32	RAJESHWARI M K	561794041	24
33	RAVIKUMAR S	561794042	21
34	SABARISH M	561794044	24
35	SATHIYADHARANI N	561794046	27
36	SIVABHARATHI S P	561794047	24
37	SRIDHAR K	561794049	21
38	TAMILARASAN K	561794051	27
39	THAMARAI KANNAN K	561794052	24
40	VAIDEESH S	561794054	27
41	VASANTHAKUMAR G	561794055	24
42	VASUDEVAN G	561794057	21
43	VIGNESH KUMAR B	561794058	24
44	VIGNESH P	561794059	24
45	RAMESH S	561894061	27
46	SHALIK U	561894062	24




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ADD ON COURSE FEEDBACK FORM

Name of the student: BHARATHI.P

Course & Year: B.Pharm Second Year

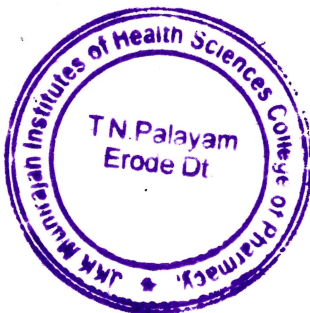
Registration No: 561794009


Date: 24.11.2018

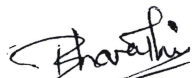
Name of the Course: NEUROPHARMACOLOGY; EXPLORING BRAIN-DRUG INTERACTION

Evaluating the Following Questions

- This Course was interesting
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- Was this course useful
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- During the course did you find any technical difficulties?
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- Did the resource person delivered the information, you didn't know already?
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- The subject matter was presented effectively
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- The resource person helped me learn about how the course works in the real world
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- The resource person provided information I can use to be successful in my career
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- Overall how do you rate the Training Program?
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree




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ADD ON COURSE FEEDBACK FORM

Name of the student: SATHIYADHARANI.N Course & Year: B. Pharm., 2nd year

Registration No: 561794046 Date: 24.11.2018

Name of the Course: NEUROPHARMACOLOGY : EXPLORING BRAIN-DRUG INTERACTION

Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

5. The subject matter was presented effectively

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

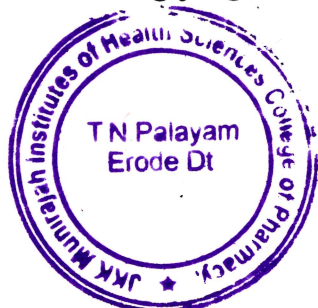
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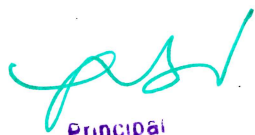
7. The resource person provided information I can use to be successful in my career

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

8. Overall how do you rate the Training Program?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree




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ADD ON COURSE FEEDBACK FORM

Name of the student: MONISHA . B Course & Year: B.Pharm, 2nd Year

Registration No: 561794032 Date: 24.11.2018

Name of the Course: NEUROPHARMACOLOGY: EXPLORING BRAIN-DRUG INTERACTION

Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

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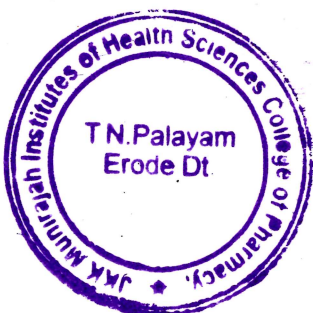
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a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

8. Overall how do you rate the Training Program?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree




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Gobi (Tk), Erode (Dt) - 638 506


Student Signature



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Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

ADD ON COURSE FEEDBACK FORM

Name of the student: **AFREEN · N**

Course & Year: **B. Pharm Second Year**

Registration No: **56 1794001**

Date: **24.11.2018**

Name of the Course: **NEUROPHARMACOLOGY : EXPLORING BRAIN- DRUG**

Evaluating the Following Questions

INTERACTION

1. This Course was interesting

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

5. The subject matter was presented effectively

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

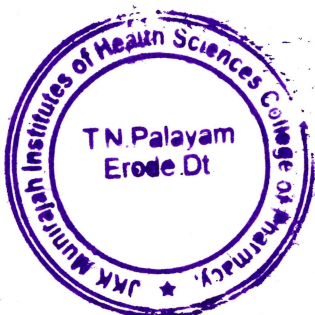
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree


7. The resource person provided information I can use to be successful in my career

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

8. Overall how do you rate the Training Program?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree




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ADD ON COURSE FEEDBACK FORM

Name of the student: ARUN RAJA . R

Course & Year: B.Pharm second year

Registration No: 561794005

Date: 24.11.2018

Name of the Course: NEUROPHARMACOLOGY : EXPLORING Brain-drug Interaction

Evaluating the Following Questions

Interaction

1. This Course was interesting

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

5. The subject matter was presented effectively

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

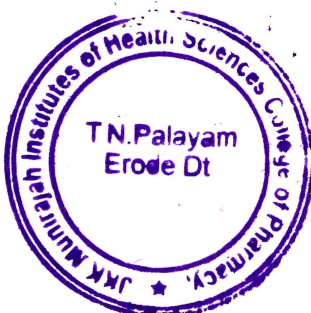
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a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

8. Overall how do you rate the Training Program?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree




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ADD-ON COURSE - SYLLABUS

Course Code : CPS1804
Course Name : CLINICAL PHARMACY SKILLS: ENHANCING PATIENT CARE THROUGH MEDICATION MANAGEMENT
Date : 15.12.2018 to 12.01.2019 (All Saturday)
Course & Year : B. Pharm First Year


Course objective : To objectives of clinical pharmacy, in this context, revolve around optimizing medication therapy to improve patient outcomes, ensure safety, and promote overall well-being. By focusing on these objectives, clinical pharmacists can significantly contribute to the optimization of medication therapy, improve patient outcomes, and enhance the overall quality of healthcare delivery.

S. No	Topic	Hours
1	Module-I: INTRODUCTION: Discussion, Enhancing Patient Care through Medication Management	10
2	Module-II: ROLE OF PHARMACIST: Expanding Pharmacist Care Services to Support Patient Safety, Use of Pharmacists to Address Limitations of Technology, Pharmacists' Role in Error Reporting and Feedback, Advancing Medication Stewardship, Providing Daily Patient Care	11
3	Module-III: OPTIMIZING HEALTH TECHNOLOGY: Component of Medication Therapy Management, Justifying the Need For Medication Reconciliation, The Role of the Pharmacist in Medication Reconciliation, Performing A Medication Therapy Review, Research and Quality Improvement, Conclusion	11


Course Outcome:

After the successful completion of this course, the student shall be able to:

1. Acquire high knowledge about the clinical pharmacy skills – enhancing patient care through medication therapy.
2. Have a critical way of thinking based on current health care development.


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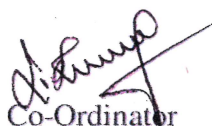
ADD-ON COURSE NAME: CLINICAL PHARMACY SKILLS: ENHANCING PATIENT CARE THROUGH MEDICATION MANAGEMENT

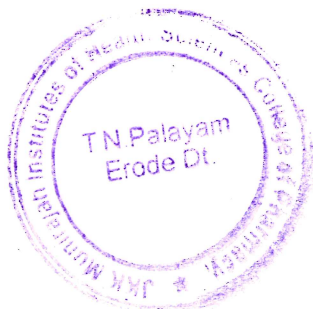
Course Code: CPS1804

RESOURCE PERSON



Name : DR. T. ETHIRAJ
Qualification : M. Pharm., Ph.D.,
Designation : Professor
Department : Pharmaceutics
Organization : Pannai College of Pharmacy, Dindigul, Tamilnadu.
Area of Specialization : Pharmaceutics, Physical Pharmacy, Industrial Pharmacy, Novel Drug Delivery System, Novel Drug Delivery System
Phone number : +91 80765 39788
Mail-ID : ethiraj79@gmail.com
Experience : 22 Year 02 Months


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ADD-ON COURSE NAME: CLINICAL PHARMACY SKILLS: ENHANCING PATIENT CARE THROUGH MEDICATION MANAGEMENT

Course Code: CPS1804

RESOURCE PERSON

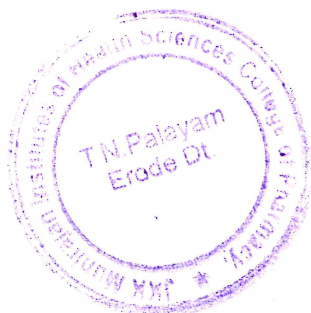


Name : Mr. K. RAJA
Qualification : M. Pharm.,
Designation : Professor
Department : Pharmaceutics
Organization : JKK Munirajah Institute of Health Sciences College of Pharmacy,
Erode, Tailnadu.
Area of Specialization : Physical Pharmaceutics, Pharmaceutical Formulation, Pharmaceutical
Engineering, Nanotechnology, Novel Drug Delivery System,
Biopharmaceutics, Cosmetic Science.
Phone number : +91 94439 67634
Mail-ID : raja@jkkmihscep.org
Experience : 16 Years 06 Months

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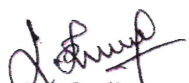
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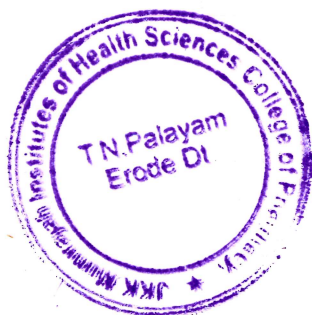
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ADD-ON COURSE - SCHEDULE

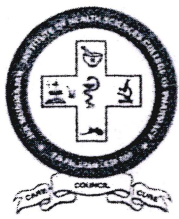
Course Code : CPS1804
Course Name : CLINICAL PHARMACY SKILLS: ENHANCING PATIENT CARE THROUGH MEDICATION MANAGEMENT
Date : 15.12.2018 to 12.01.2019 (All Saturday)
Course & Year : B. Pharm First Year

S. No	Topic	Hours
1	UNIT-I: INTRODUCTION: Discussion, Enhancing Patient Care through Medication Management	15.12.2018 Mr. K. Raja & DR. T. Ethiraj
2	UNIT-II: ROLE OF PHARMACIST: Expanding Pharmacist Care Services to Support Patient Safety, Use of Pharmacists to Address Limitations of Technology, Pharmacists' Role in Error Reporting and Feedback	22.12.2018 Mr. K. Raja & DR. T. Ethiraj
3	Advancing Medication Stewardship, Providing Daily Patient Care	29.12.2018 Mr. K. Raja & DR. T. Ethiraj
4	UNIT-III: OPTIMIZING HEALTH TECHNOLOGY: Component of Medication Therapy Management, Justifying the Need For Medication Reconciliation, The Role of the Pharmacist in Medication Reconciliation	05.01.2019 Mr. K. Raja & DR. T. Ethiraj
5	Performing a Medication Therapy Review, Research and Quality Improvement, Conclusion	12.01.2019 Mr. K. Raja & DR. T. Ethiraj


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CLINICAL PHARMACY SKILLS: ENHANCING PATIENT CARE THROUGH MEDICATION MANAGEMENT (CPS1804)

Name of Student: RAGHUL M

Registration No: 561894040

Date: 12.1.19

Course & Year: B. Pharm 1st year

Semester:

Marks Secured: $\frac{27}{30}$

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of medication therapy management (MTM)?

- A) Reducing medication costs
- B) Enhancing patient adherence
- C) Increasing the number of prescribed medications
- D) Minimizing patient contact with healthcare providers

2. Which of the following is NOT typically considered a part of a comprehensive medication review?

- A) Medication reconciliation
- B) Medication therapy assessment
- C) Medication dispensing
- D) Medication regimen optimization

3. In clinical pharmacy practice, what does the term "polypharmacy" refer to?

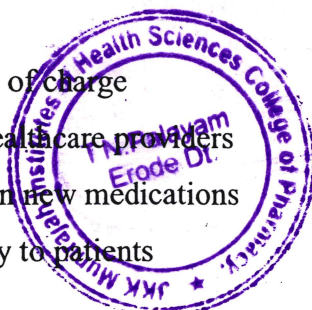
- A) The use of multiple pharmacies by a single patient
- B) The use of multiple medications by a single patient
- C) The use of over-the-counter medications only
- D) The use of medications by healthcare providers

4. What is the Beers Criteria primarily used for in clinical pharmacy?

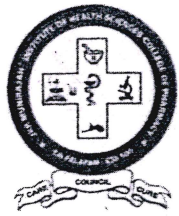
- A) Assessing medication costs
- B) Evaluating medication side effects
- C) Identifying potentially inappropriate medications in older adults
- D) Recommending brand-name medications over generic options

5. Which of the following is an essential component of medication therapy management (MTM) services?

- A) Providing medications free of charge
- B) Collaborating with other healthcare providers
- C) Conducting clinical trials on new medications
- D) Selling medications directly to patients



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6. What is the primary purpose of a medication counselling session with a patient?

- A) To encourage patients to stop taking their medications ✓
- B) To educate patients about the proper use of their medications
- C) To promote the sale of over-the-counter drugs
- D) To discourage patients from asking questions about their medications

7. Which statement best describes the concept of medication adherence?

- A) Patients taking medications exactly as prescribed ✓
- B) Patients never missing a dose of their medications
- C) Patients taking medications only when they feel like it
- D) Patients taking medications with any food or drink

8. In a hospital setting, what is the primary role of a clinical pharmacist on the healthcare team?

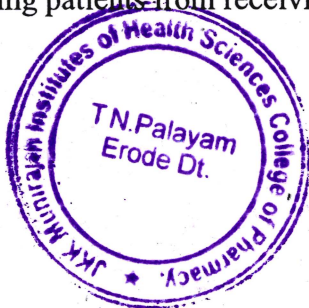
- A) Ordering diagnostic tests ✓
- B) Performing surgery
- C) Dispensing medications to patients
- D) Ensuring safe and effective medication use

9. Which of the following factors can affect a patient's response to medication therapy?

- A) Hair color ✓
- B) Blood type
- C) Age, weight, and genetics
- D) Shoe size

10. What is the primary goal of therapeutic drug monitoring (TDM)?

- A) Assessing patient satisfaction with medication therapy ✓
- B) Monitoring the levels of medication in the hospital pharmacy
- C) Personalizing medication dosages to achieve optimal therapeutic outcomes
- D) Preventing patients from receiving any medication.



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CLINICAL PHARMACY SKILLS: ENHANCING PATIENT CARE THROUGH MEDICATION MANAGEMENT (CPS1804)

Name of Student: RAJESH. T

Course & Year: B. pharma First Year

Registration No: 561294046

Semester:

Date: 12.1.19

Marks Secured: $\frac{24}{30}$

Answer All Multiple-Choice Questions ($10 \times 3 = 30$)

1. What is the primary goal of medication therapy management (MTM)?

(24)

- A) Reducing medication costs ✓
- B) Enhancing patient adherence
- C) Increasing the number of prescribed medications
- D) Minimizing patient contact with healthcare providers

2. Which of the following is NOT typically considered a part of a comprehensive medication review?

- A) Medication reconciliation ✓
- B) Medication therapy assessment
- C) Medication dispensing
- D) Medication regimen optimization

3. In clinical pharmacy practice, what does the term "polypharmacy" refer to?

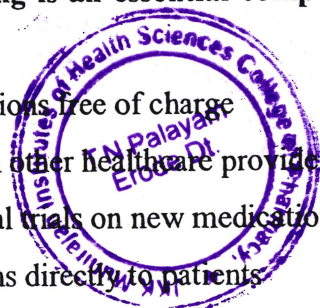
- A) The use of multiple pharmacies by a single patient
- B) The use of multiple medications by a single patient
- C) The use of over-the-counter medications only
- D) The use of medications by healthcare providers

4. What is the Beers Criteria primarily used for in clinical pharmacy?

- A) Assessing medication costs
- B) Evaluating medication side effects
- C) Identifying potentially inappropriate medications in older adults
- D) Recommending brand-name medications over generic options

5. Which of the following is an essential component of medication therapy management (MTM) services?

- A) Providing medications free of charge
- B) Collaborating with other healthcare providers
- C) Conducting clinical trials on new medications
- D) Selling medications directly to patients



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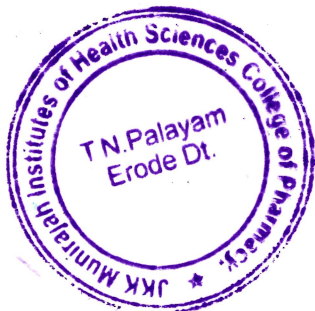
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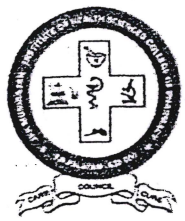
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- A) Assessing patient satisfaction with medication therapy
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CLINICAL PHARMACY SKILLS: ENHANCING PATIENT CARE THROUGH MEDICATION MANAGEMENT (CPS1804)

Name of Student: Dinesh . V

Course & Year: B.Pharm Ist year.

Registration No: 561894006.

Semester:

Date: 12.01.2019

Marks Secured: $\frac{30}{30}$

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of medication therapy management (MTM)?

30

- A) Reducing medication costs
- B) Enhancing patient adherence
- C) Increasing the number of prescribed medications
- D) Minimizing patient contact with healthcare providers

2. Which of the following is NOT typically considered a part of a comprehensive medication review?

- A) Medication reconciliation
- B) Medication therapy assessment
- C) Medication dispensing
- D) Medication regimen optimization

3. In clinical pharmacy practice, what does the term "polypharmacy" refer to?

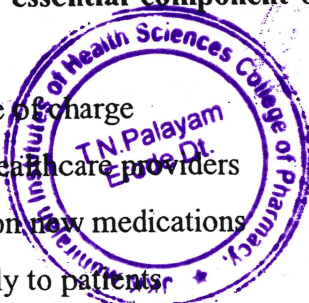
- A) The use of multiple pharmacies by a single patient
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4. What is the Beers Criteria primarily used for in clinical pharmacy?

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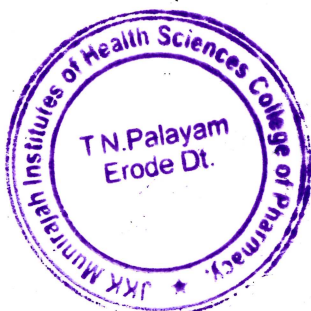
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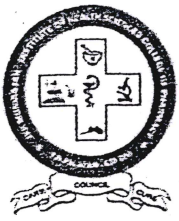
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CLINICAL PHARMACY SKILLS: ENHANCING PATIENT CARE THROUGH MEDICATION MANAGEMENT (CPS1804)

Name of Student: JAGAN.S

Course & Year: B Pharm 1st year

Registration No: 561894018

Semester:

Date: 12.1.2019

Marks Secured: $\frac{27}{30}$

Answer All Multiple-Choice Questions ($10 \times 3 = 30$)

1. What is the primary goal of medication therapy management (MTM)?

(27)

- A) Reducing medication costs
- B) Enhancing patient adherence
- C) Increasing the number of prescribed medications
- D) Minimizing patient contact with healthcare providers

2. Which of the following is NOT typically considered a part of a comprehensive medication review?

- A) Medication reconciliation
- B) Medication therapy assessment
- C) Medication dispensing
- D) Medication regimen optimization

3. In clinical pharmacy practice, what does the term "polypharmacy" refer to?

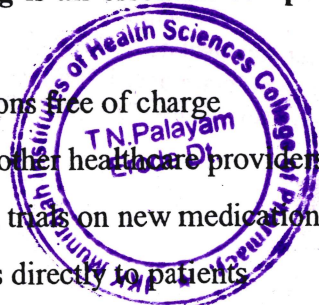
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- D) Recommending brand-name medications over generic options

5. Which of the following is an essential component of medication therapy management (MTM) services?

- A) Providing medications free of charge
- B) Collaborating with other healthcare providers
- C) Conducting clinical trials on new medications
- D) Selling medications directly to patients



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6. What is the primary purpose of a medication counselling session with a patient?

- A) To encourage patients to stop taking their medications
- B) To educate patients about the proper use of their medications
- C) To promote the sale of over-the-counter drugs
- D) To discourage patients from asking questions about their medications

7. Which statement best describes the concept of medication adherence?

- A) Patients taking medications exactly as prescribed
- B) Patients never missing a dose of their medications
- C) Patients taking medications only when they feel like it
- D) Patients taking medications with any food or drink

8. In a hospital setting, what is the primary role of a clinical pharmacist on the healthcare team?

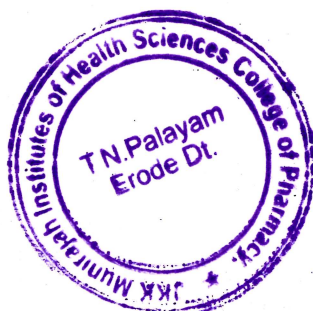
- A) Ordering diagnostic tests
- B) Performing surgery
- C) Dispensing medications to patients
- D) Ensuring safe and effective medication use


9. Which of the following factors can affect a patient's response to medication therapy?

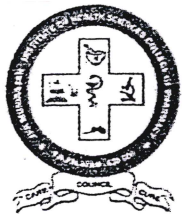
- A) Hair color
- B) Blood type
- C) Age, weight, and genetics
- D) Shoe size

10. What is the primary goal of therapeutic drug monitoring (TDM)?

- A) Assessing patient satisfaction with medication therapy
- B) Monitoring the levels of medication in the hospital pharmacy
- C) Personalizing medication dosages to achieve optimal therapeutic outcomes
- D) Preventing patients from receiving any medication.




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CLINICAL PHARMACY SKILLS: ENHANCING PATIENT CARE THROUGH MEDICATION MANAGEMENT (CPS1804)

Name of Student: *Gopi G*

Course & Year: *B-pharm First year*

Registration No: *561894010*

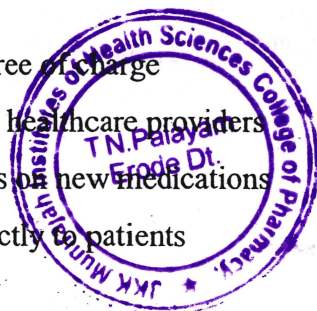
Semester:

Date: *12.01.2019*

Marks Secured: $\frac{24}{30}$

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of medication therapy management (MTM)? (24)
- A) Reducing medication costs X
 - B) Enhancing patient adherence
 - × C) Increasing the number of prescribed medications
 - D) Minimizing patient contact with healthcare providers
2. Which of the following is NOT typically considered a part of a comprehensive medication review?
- A) Medication reconciliation
 - B) Medication therapy assessment X
 - C) Medication dispensing
 - D) Medication regimen optimization
3. In clinical pharmacy practice, what does the term "polypharmacy" refer to? ✓
- A) The use of multiple pharmacies by a single patient
 - B) The use of multiple medications by a single patient
 - C) The use of over-the-counter medications only
 - D) The use of medications by healthcare providers
4. What is the Beers Criteria primarily used for in clinical pharmacy? ✓
- A) Assessing medication costs
 - B) Evaluating medication side effects
 - × C) Identifying potentially inappropriate medications in older adults
 - D) Recommending brand-name medications over generic options
5. Which of the following is an essential component of medication therapy management (MTM) services? ✓
- A) Providing medications free of charge
 - B) Collaborating with other healthcare providers ✓
 - C) Conducting clinical trials on new medications
 - D) Selling medications directly to patients



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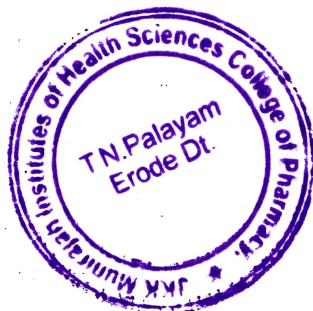
- A) Ordering diagnostic tests
- B) Performing surgery
- C) Dispensing medications to patients
- D) Ensuring safe and effective medication use

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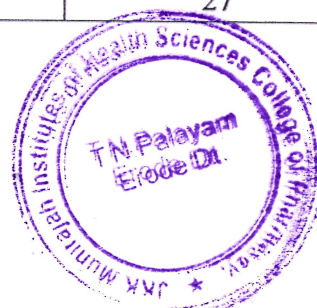
MARK STATEMENT

Course Code : CPS1804
Course Name : CLINICAL PHARMACY SKILLS: ENHANCING PATIENT CARE THROUGH MEDICATION MANAGEMENT
Date : 15.12.2018 to 12.01.2019 (All Saturday)
Course & Year : B. Pharm First Year

S. No	Student Name	Registration Number	Mark Secured
1	ABARNA A	561894001	24
2	ADINATHAN R	561894002	21
3	ARUN SURYA M	561894004	24
4	BARATH M	561894005	27
5	DINESH V	561894006	30
6	GOKUL G	561894008	24
7	GOKUL J	561894009	21
8	GOPI G	561894010	24
9	GOPINATH S	561894011	27
10	GUNASEKARAN M	561894014	24
11	HARIPRASATH D	561894015	27
12	HARISH KUMAR E	561894016	24
13	JAGAN S	561894018	27
14	JEEVA C	561894019	24
15	JIGNESH G	561894020	21
16	KALYANKUMAR H	561894021	21
17	KARTHICK N	561894022	24
18	LALILKUMAR M	561894023	27
19	LOKESWARAN M	561894024	24
20	MANOJ KUMAR S	561894026	27
21	MARAN S	561894027	24
22	MOHAMED SABEEL V	561894028	27
23	NAGARAJ M	561894029	24
24	NAKKEERAN S	561894031	27
25	NAVEENKUMAR V	561894032	27

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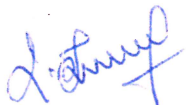





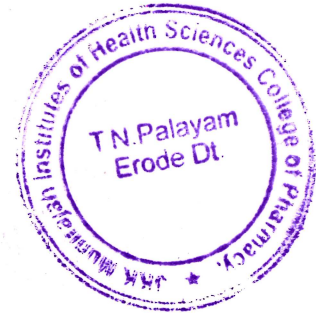
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S. No	Student Name	Registration Number	Mark Secured
26	PRADEEP RAJ V	561894033	27
27	PRAKASH A	561894034	24
28	PRAKASH M	561894035	24
29	PRAVEEN A	561894038	27
30	RAGHUL M	561894040	27
31	RAGUL KANNAN R	561894041	21
32	RAJASEKAR V	561894042	21
33	RAJESH T	561894043	24
34	SANGEETHA B	561894044	24
35	SATHISKUMAR M	561894046	24
36	SELVAMANI R	561894047	21
37	SELVI R	561894048	27
38	SIVA K	561894049	24
39	SIVASRITHARAN M	561894050	24
40	SURYA R	561894052	27
41	TAMILAMUTHAN V	561894053	24
42	THILAGAVARMAN S	561894054	21
43	UDHAYANITHI K	561894055	24
44	UMAMAHESWARI S	561894056	24
45	VIJAY R	561894058	27
46	KAMALAKANNAN K	561894059	24
47	KARTHIKEYAN S	561894060	21
48	LOSHINI M	561894063	24
49	PRAVEEN KUMAR R	561894064	27


Co-Ordinator


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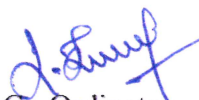
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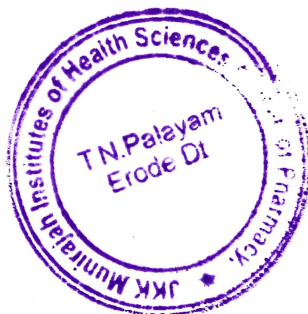
ADD-ON COURSE: ANSWER KEY


Course Code : CPS1804
Course Name : CLINICAL PHARMACY SKILLS: ENHANCING PATIENT CARE THROUGH MEDICATION MANAGEMENT
Date : 15.12.2018 to 12.01.2019 (All Saturday)
Course & Year : B. Pharm First Year

ANSWER KEY

1. B) Enhancing patient adherence
2. C) Medication dispensing
3. B) The use of multiple medications by a single patient
4. C) Identifying potentially inappropriate medications in older adults
5. B) Collaborating with other healthcare providers
6. B) To educate patients about the proper use of their medications
7. A) Patients taking medications exactly as prescribed
8. D) Ensuring safe and effective medication use
9. C) Age, weight, and genetics
10. C) Personalizing medication dosages to achieve optimal therapeutic outcomes


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ADD ON COURSE FEEDBACK FORM

Name of the student: HARISHKUMAR.E

Course & Year: B. pharm final year

Registration No: 561894016

Date: 12.01.2019

Name of the Course: Clinical Pharmacy skills
Management enhancing patient care through Medical

Evaluating the Following Questions

- This Course was interesting
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- Was this course useful
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- During the course did you find any technical difficulties?
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- Did the resource person delivered the information, you didn't know already?
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- The subject matter was presented effectively
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- The resource person helped me learn about how the course works in the real world
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- The resource person provided information I can use to be successful in my career
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- Overall how do you rate the Training Program?
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree



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Harishkumar
Student Signature

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ADD ON COURSE FEEDBACK FORM

Name of the student: *DINESH.V*

Course & Year: *BPHARM FINAL YEAR*

Registration No: *561894006*

Date: *12.01.2019*

Name of the Course: *CLINICAL PHARMACY SKILLS: ENHANCING PATIENT CARE THROUGH MEDICAL MANAGEMENT (CPS1804)*

Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

5. The subject matter was presented effectively

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

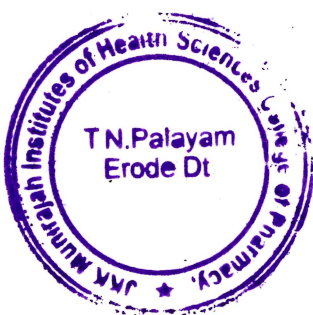
a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

7. The resource person provided information I can use to be successful in my career

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

8. Overall how do you rate the Training Program?

a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree



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ADD ON COURSE FEEDBACK FORM

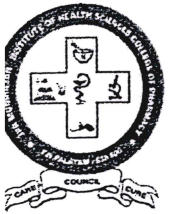
Name of the student: Vijay . R Course & Year: B. pharam Final year
Registration No: 5 61894058 Date: 12/01/2019
Name of the Course: Clinical pharmacy Skills : Enhancing patient care
Through Medication Management [CPS1804]
Evaluating the Following Questions

- This Course was interesting
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- Was this course useful
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- During the course did you find any technical difficulties?
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- Did the resource person delivered the information, you didn't know already?
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 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- The subject matter was presented effectively
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 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- The resource person helped me learn about how the course works in the real world
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- The resource person provided information I can use to be successful in my career
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree
- Overall how do you rate the Training Program?
 - Strongly Agree
 - Agree
 - Moderate
 - Disagree
 - Strongly Disagree




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ADD ON COURSE FEEDBACK FORM

Name of the student: SURYA R.

Course & Year: B.Pharm final year

Registration No: 561894082

Date: 12/01/2019

Name of the Course: Clinical Pharmacy skills enhancing patient care through medication management [LPS/804]

Evaluating the Following Questions

1. This Course was interesting

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

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- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

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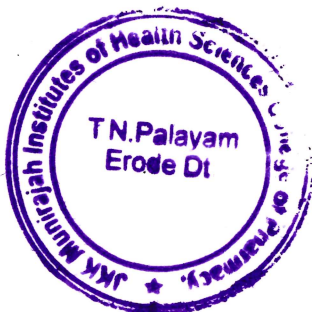
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7. The resource person provided information I can use to be successful in my career

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

8. Overall how do you rate the Training Program?

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree



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ADD ON COURSE FEEDBACK FORM

Name of the student: BARATHM.

Course & Year: Final Year B. Pharm

Registration No: 561819005

Date: 12.01.2019

Name of the Course: CLINICAL PHARMACY SKILLS : ENHANCING PATIENT CARE THROUGH MEDICATION MANAGEMENT [CPS 1804]

Evaluating the Following Questions

1. This Course was interesting

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

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5. The subject matter was presented effectively

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6. The resource person helped me learn about how the course works in the real world

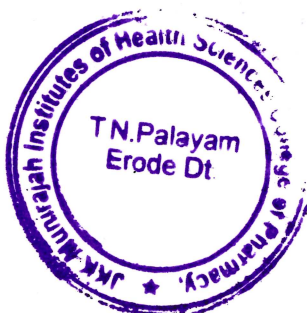
- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

7. The resource person provided information I can use to be successful in my career

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

8. Overall how do you rate the Training Program?

- a. Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree



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M. Banu
Student Signature