



# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmediu, **B.Komarapalayam** – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.  
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) |E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

VALUE ADDED COURSE	CURRENT SCENARIO OF NEUROPHARMACOLOGY RESEARCH
DEPARTMENT	PHARMACOLOGY
ACEDAMIC YEAR	2018-2019
DATE	08.07.2019 to 20.07.2019
VENUE	SEMINAR HALL

## REPORT

### VALUE ADDED COURSE - CURRENT SCENARIO OF NEUROPHARMACOLOGY RESEARCH

VENUE: SEMINAR HALL DATED: 08.07.2019 to 20.07.2019

#### RESOURCE PERSONS:

1. **Mr. G. Muthukumaran, M.PHARM, (Ph.D).,**  
ASSOCIATE PROFESSOR,  
JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL  
COLLEGE OF PHARMACY, KOMARAPALAYAM.
2. **Mr. R. Kannan, M.PHARM.,**  
ASSISTANT PROFESSOR,  
JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL  
COLLEGE OF PHARMACY, KOMARAPALAYAM.

No. of students enrolled: 65

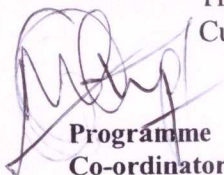
No.of students certified: 61

#### Objective:

The objective of this value added Current Scenario Of Neuropharmacology Research program provides the information about Current Scenario Of Neuropharmacology Research. It provides vast knowledge on methods and their application on Neuropharmacology Research. These value added program provides additional knowledge to the students other than their academic knowledge.

#### Learning outcomes:

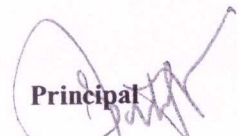
- Provides knowledge on Neuropharmacology Research
  - Develops practical skills on Neuropharmacological Research Methods
- The students were actively participated in these course and gained knowledge on Current Scenario Of Neuropharmacology Research.

  
Programme  
Co-ordinator

  
HOD

  
**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU, INDIA.**

  
Principal

**Dr. N. SENTHILKUMAR,**  
PRINCIPAL,

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
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Contact No. : +919789456750, +919943069944, +919943066944

REF.NO: JKKM/PH-COLOGY /REQ/2018/003

Date: 06.09.2018

From,  
Department of Pharmacology,  
JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy,  
Komarapalayam, Namakkal [Dist],  
Tamil Nadu, PIN: 638183.

To,  
The Principal,  
JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy,  
Komarapalayam, Namakkal [Dist],  
Tamil Nadu, PIN:638183.

**Subject:** Requesting Permission to conduct seminar (**CURRENT SCENARIO OF NEUROPHARMACOLOGY RESEARCH**)-regarding.

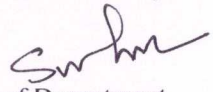
Respected Sir,

With due respect, we humbly request you to grand permission to conduct a seminar in the (Seminar Hall) during (10.09.2018 to 29.09.18) on **CURRENT SCENARIO OF NEUROPHARMACOLOGY RESEARCH**. It will be a very informative course for our students.

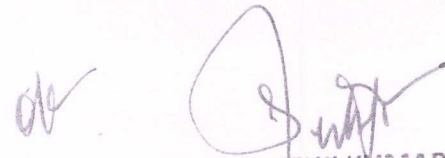
Kindly do the needful. We will be grateful to you sir.


Thank you

Yours sincerely,

  
HOD of Department.



  
Dr. N.SENTHILKUMAR,  
PRINCIPAL  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU, INDIA.

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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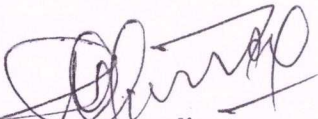
## CIRCULAR

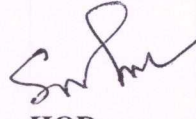
This is inform to the B.PHARM I SEM and II,III and IV Year Students that the following value added course can be conducted by the Department of Pharmacology, JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM and it will be commenced as per the schedule:

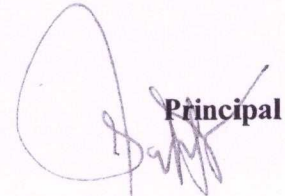
Course Name	Schedule	Duration	Venue	Resource Person
CURRENT SCENARIO OF NEUROPHARMACOLOGY RESEARCH	10.09.2018 to 29.09.18	30 HRS	SEMINAR HALL	Mr.R. Kannan & Mr.G.Muthukumar

All the above mentioned students must enrol and actively participate in the course without fail.

**NOTE: Certificates should be issued to all the students after completion of the course and examination.**

  
Program coordinator

  
HOD

  
Principal

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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Dr. N. SENTHILKUMAR,  
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## SYLLABUS

S.no	TOPIC	TIME	DURATION	RESOURCE PERSON
1.	Introduction- Current scenario of Neuro-Pharmacology	9.00 -10.30AM	1Hr & 30 mins	<b>Mr. R. Kannan</b>
		10.45-12.15 PM	1Hr & 30 mins	
	<i>in vitro</i> AchE inhibition assay	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	
2.	SH-SY5Y Cell line study	9.00 -10.30AM	1Hr & 30 mins	
		10.45-12.15 PM	1Hr & 30 mins	
	Locomotor activity screening	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	
3.	Anticonvulsant activity screening	9.00 -10.30AM	1Hr & 30 mins	
		10.45-12.15 PM	1Hr & 30 mins	
	Antianxiety activity screening	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	
4.	Skeletal muscle relaxant activity	9.00 -10.30AM	1Hr & 30 mins	
		10.45-12.15 PM	1Hr & 30 mins	
	Antidepressant screening	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	
5.	Stereotaxic surgery (ICV injection)	9.00 -10.30AM	1Hr & 30 mins	
		10.45-12.15 PM	1Hr & 30 mins	
	Brain homogenate preparation	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	

**Dr. N.SENTHILKUMAR,**  
**PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
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DEPARTMENT	PHARMACOLOGY
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VENUE	SEMINAR HALL

## Brochure

### Resource person:



Mr. G. Muthukumar, M.PHARM,  
ASSOCIATE PROFESSOR  
Department of Pharmacology  
JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF  
PHARMACY, KOMARAPALAYAM



Mr. R. Kannan, M.PHARM,  
ASSISTANT PROFESSOR,  
Department of Pharmacology  
JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF  
PHARMACY, KOMARAPALAYAM

### Topics

1. Introduction- Current scenario of Neuro-Pharmacology
2. *in vitro* AchE inhibition assay
3. SH-SY5Y Cell line study
4. Locomotor activity screening
5. Anticonvulsant activity screening
6. Antianxiety activity screening
7. Skeletal muscle relaxant activity
8. Antidepressant screening
9. Stereotaxic surgery (ICV injection)
10. Brain homogenate preparation

VENUE: JKKMMRF - COLLEGE OF PHARMACY SEMINAR HALL



JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL  
COLLEGE OF PHARMACY,  
KOMARAPALAYAM

Organized by:



Year: 2018 - 2019

Department of Pharmacology,  
JKKMMRF'S AnnaiJkk - SampoorniAmmal  
College of Pharmacy, Komarapalayam.

TITLE:

CURRENT SCENARIO OF NEUROPHARMACOLOGY  
RESEARCH

DATE: 10.09.2018 to 29.09.18

Dr. N.SENTHILKUMAR,  
PRINCIPAL

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## STUDENTS ENROLLMENT LIST

S.NO	Register No	Students Name	Year
1.	381710423	AMRUTHA M.K	II
2.	381710424	CHANDNA THERASA MATHEW	II
3.	381710425	DEBORAH ROSE	II
4.	381710426	HELANNA M	II
5.	381710427	MUNEER T	II
6.	381710428	NISSY ESTHER JOHN	II
7.	381710429	SAMUEL BABU	II
8.	381710430	NAIVIN D ALMEDA	II
9.	381510328	RAVEENA A	II
10.	381610401	AARTHY P	III
11.	381610402	AKSHARA RAJU	III
12.	381610403	ALFIYA S KHAN	III
13.	381610404	ASHLY STANLEY	III
14.	381610405	BALAMURUGAN V	III
15.	381610406	BHARATH K	III
16.	381610407	BITTY R	III
17.	381610408	DEEPAK K	III
18.	381610409	FEBE SHAJI	III
19.	381610410	HARIHARAN V	III
20.	381610412	KRIPA VARGHESE	III
21.	381610413	LINSHA BABU	III
22.	381610414	MANOJ S	III
23.	381610415	MONITTA ROBINSON D	III
24.	381710423	ATHIRA RAJKUMAR	IV
25.	381710424	DILEEP.R	IV
26.	381710425	HEERA.V	IV
27.	381710426	HIMAJA.G	IV



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28.	381710427	SILPA GOPINATH.M	IV
29.	381710428	SILVANIA MARTIN	IV
30.	381710429	THESNI PASHA.S	IV
31.	381710430	THIRU ARUL.S	IV
32.	381510328	THIRUGNANAM.T.S	IV
33.	381610401	YOGA KRISHNAN.S	IV
34.	381610402	ALEENA S	V
35.	381610403	ARIYA MOL R	V
36.	381610404	SOMU P	SEM-I
37.	381510405	SOUNDARYA S	SEM-I
38.	381510406	SRI KANNAN N	SEM-I
39.	381510424	SRIDHAR B	SEM-I
40.	381510425	SRIDHAR C	SEM-I
41.	381510427	SRIDHAR S	SEM-I
42.	381510428	SRIMATHI T	SEM-I
43.	381510429	SRINIVASAN D	SEM-I
44.	381510430	SRINIVASAN R	SEM-I
45.	381410401	SUBASH M	SEM-I
46.	381410402	SUBASH S	SEM-I
47.	561858067	SUBASHKARAN G	SEM-I
48.	561858068	SUGANTH S	SEM-I
49.	561858069	SURYAPRAKASH E	SEM-I
50.	561858070	THARANESH S	SEM-I
51.	561858071	VALLAL E	SEM-I
52.	561858072	VENKATESH K	SEM-I
53.	561858073	VIGNESH I	SEM-I
54.	561858074	VIGNESH S	SEM-I
55.	561858075	VIJAY A	SEM-I
56.	561858076	VIJAYANAGARAJ S	SEM-I
57.	561858077	VINITHA S	SEM-I
58.	561858078	YUVARAJ C P	SEM-I
59.	561858079	ZACHARIAH CHRISTOPHER M	SEM-I
60.	561858080	AAKASH S	SEM-III
61.	561858081	ABINAYA V	SEM-III
62.	561858082	AJAY KUMAR M	SEM-III
63.	561858083	AKILANDESWARAN S	SEM-III
64.	561858084	AMARNATH A	SEM-III
65.	561858085	ANANTH R	SEM-III

*Senthil*

*Senthil*

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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*Senthil*

**Dr. N. SENTHILKUMAR,  
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## Student Attendance list

S.NO	Register No	Students Name	Year	Course	Signature				
					10/09/2018	13/09/2018	18/09/2018	20/09/2018	28/09/2018
1.	381710423	AMRUTHA M.K	II	PHARM D	/	/	/	/	/
2.	381710424	CHANDNA THERASA MATHEW	II	PHARM D	/	/	/	/	/
3.	381710425	DEBORAH ROSE	II	PHARM D	A	A	A	A	A
4.	381710426	HELANNA M	II	PHARM D	/	/	/	/	/
5.	381710427	MUNEER T	II	PHARM D	/	/	/	/	/
6.	381710428	NISSY ESTHER JOHN	II	PHARM D	/	/	/	/	/
7.	381710429	SAMUEL BABU	II	PHARM D	/	/	/	/	/
8.	381710430	NAIVIN D ALMEDA	II	PHARM D	/	/	/	/	/
9.	381510328	RAVEENA A	II	PHARM D	/	/	/	/	/
10.	381610401	AARTHY P	III	PHARM D	/	/	/	/	/
11.	381610402	AKSHARA RAJU	III	PHARM D	/	/	/	/	/
12.	381610403	ALFIYA S KHAN	III	PHARM D	/	/	/	/	/
13.	381610404	ASHLY STANLEY	III	PHARM D	/	/	/	/	/
14.	381610405	BALAMURUGAN V	III	PHARM D	/	/	/	/	/
15.	381610406	BHARATH K	III	PHARM D	A	A	A	A	A
16.	381610407	BITTY R	III	PHARM D	/	/	/	/	/
17.	381610408	DEEPAK K	III	PHARM D	/	/	/	/	/
18.	381610409	FEBE SHAJI	III	PHARM D	/	/	/	/	/
19.	381610410	HARIHARAN V	III	PHARM D	/	/	/	/	/
20.	381610412	KRIPA VARGHESE	III	PHARM D	/	/	/	/	/
21.	381610413	LINSHA BABU	III	PHARM D	/	/	/	/	/
22.	381610414	MANOJ S	III	PHARM D	A	A	A	A	A
23.	381610415	MONITTA	III	PHARM D	/	/	/	/	/

**Dr. N.SENTHILKUMAR,**  
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## MULTIPLE CHOICE QUESTION

ANSWER ALL THE QUESTION

Date: 20.07.2019

Choose the correct answers:

Total Marks: 10×1= 20

- Regarding antipsychotics as a group
  - Metabolites are important to the action of these drugs
  - Haloperidol has a higher systemic availability than thioridazine or chlorpromazine
  - Elimination half lives of these drugs range between 3 – 6 hours
  - This group of drugs generally has short clinical duration of action
  - Clozapine is a member of the dihydroindolone group
- Which of the following antipsychotics (in excess dose) is responsible for cardiac arrhythmias?
  - Chlorpromazine
  - Clozapine
  - Thioridazine
  - Haloperidol
  - Thiothixene
- Plasma lithium levels (assuming no change in daily lithium dose) may become toxic in the presence of all of the following EXCEPT
  - Pregnancy
  - Use of thiazides
  - Dehydration
  - Use of some non-steroidal anti-inflammatory drugs
  - Post partum state



  
Dr. N. SENTHILKUMAR,  
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ETHIRMEDU; KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.



4. Regarding pharmacokinetics of antidepressants
- Most are highly protein bound
  - Fluoxetine is poorly absorbed
  - Tricyclics are predominantly excreted unchanged in the urine
  - Plasma half lives of antidepressants are mostly less than 10 hours
  - The half life of the older MAOIs is helpful in governing doses
5. Which of the following drugs is potentially dangerous in a single drug overdose
- Moclobemide
  - Paroxetine
  - Sertraline
  - Trazodone
  - Amoxapine
6. Which of the following drugs is 99% protein bound in plasma
- Gentamicin
  - Theophylline
  - Carbamazepine
  - Atenolol
  - Diazepam
7. Which of the following drugs is contraindicated (absolutely) in a patient with porphyria
- Zolpidem
  - Chloral hydrate
  - Buspirone
  - Phenobarbitone
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8. Regarding local anaesthetic agents
- Lignocaine is also an antiarrhythmic of the Vaughan Williams classification group IA
  - At normal pH the larger fraction of local anaesthetic in the body fluids will be in the unchanged form
  - Bupivacaine may cause an apparent cyanosis in some patients
  - The duration of action of procaine will be increased in the presence of liver disease
  - Local anaesthetic agents block conduction in small myelinated axons prior to blockade of other axons
9. Regarding IV anaesthetic agents



  
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- a. Ketamine is the induction agent of choice in a head injured patient  
b. Propofol has a slow offset of action  
c. Etomidate causes hypotension more commonly than thiopentone  
d. Ideal agents for neuroleptanalgesia are fentanyl and droperidol  
e. Thiopentone is metabolised at a rate of 40-50% per hour in humans following a single dose
10. Suxamethonium
- a. Is a non-depolarising neuromuscular blocking agent  
b. Is contraindicated in all eye operations  
c. Stimulates cardiac muscarinic receptors and autonomic ganglia  
d. Its action is directly terminated by the action of plasma cholinesterase  
e. Should not be administered to patients with burns >24 hours old because of its hypercalcaemic effect
11. Inhalational anaesthetics
- a. Enflurane is proconvulsant  
b. Isoflurane is the inhalational agent of choice in patients with active IHD  
c. Nitrous oxide is a useful adjunct to volatile anaesthetic use in women in the first trimester of pregnancy  
d. Halothane has a MAC value of 75% making it less potent than desflurane  
e. Desflurane is extensively metabolised via the liver
12. Phenytoin
- a. Is 20-30% bound to albumin  
b. Is the drug treatment of choice in absence seizures  
c. Undergoes flow limited elimination  
d. Steady state mean plasma concentrations varies disproportionately with the dose  
e. Preferentially binds to activated state sodium channels
13. Drugs of abuse can be extremely dangerous in the wrong hands! Which of the following is correct
- a. Ketamine is structurally related to psilocybin  
b. LSD acts on various 5 HT receptor subtypes to produce its mindaltering effects  
c. Marijuana causes mydriasis and conjunctival infection  
d. Cocaine has a long plasma half life  
e. Amphetamine like drugs cause marked stimulation of appetite
14. Flumazenil



  
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- a. Is cleared renally
  - b. Predictably reverses benzodiazepine induced respiratory depression
  - c. Antagonises CNS effects of opioids
  - d. Can precipitate seizures in mixed overdose
  - e. Has a half life of around 10 hours
15. Regarding non-depolarising muscle relaxants
- a. Pancuronium is eliminated via the kidney
  - b. Roacuronium is an isoquinolone derivative
  - c. Roacuronium undergoes Hoffman elimination
  - d. Vecuronium is eliminated predominantly via the kidney
  - e. Atracurium is eliminated via plasma pseudocholinesterase
16. Which of the following is a direct serotonin agonist
- a. Fluoxetine
  - b. Amitriptylline
  - c. Moclobemide
  - d. Ondansetron
  - e. Sumatriptan
17. The opiate associated with seizures when given in high doses to patients with renal failure is
- a. Morphine
  - b. Pethidine
  - c. Methadone
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18. Ethanol
- a. Is lipid soluble
  - b. Is metabolised by the MEOS system at blood concentrations below 100mg/dl
  - c. Is a vasodilator
  - d. The most frequent neurological abnormality in chronic alcoholism is asymmetrical peripheral nerve injury specific to hands and feet
  - e. Alcohol is estimated to be responsible for approximately 10% of cases of hypertension



  
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**ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**  
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19. Which of the following local anaesthetic agents is an ester

- a. Bupivacaine
- b. Ropivacaine
- c. Prilocaine
- d. Procaine
- e. Lignocaine

20. Regarding temazepam – all of the following are true EXCEPT

- a. It produces inactive metabolites
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- c. It causes less hangover than nitrazepam
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# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedi, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.  
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) |E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

VALUE ADDED COURSE	CURRENT SCENARIO OF NEUROPHARMACOLOGY RESEARCH
DEPARTMENT	PHARMACOLOGY
ACEDAMIC YEAR	2018-2019
DATE	08.07.2019 to 20.07.2019
VENUE	SEMINAR HALL

## MULTIPLE CHOICE QUESTION

ANSWER ALL THE QUESTION

Date: 20.07.2019

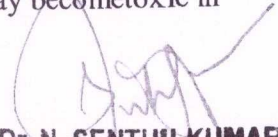
Choose the correct answers:

Total Marks: 10×1= 20

- Regarding antipsychotics as a group
  - Metabolites are important to the action of these drugs
  - Haloperidol has a higher systemic availability than thioridazine or chlorpromazine
  - Elimination half lives of these drugs range between 3 – 6 hours
  - This group of drugs generally has short clinical duration of action
  - Clozapine is a member of the dihydroindolone group
- Which of the following antipsychotics (in excess dose) is responsible for cardiac arrhythmias?
  - Chlorpromazine
  - Clozapine
  - Thioridazine
  - Haloperidol
  - Thiothixene
- Plasma lithium levels (assuming no change in daily lithium dose) may become toxic in the presence of all of the following EXCEPT

  
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ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU, INDIA.

  
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- a. Pregnancy
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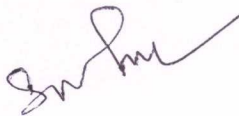
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Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.

Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) |E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)

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VALUE ADDED COURSE	CURRENT SCENARIO OF NEUROPHARMACOLOGY RESEARCH
DEPARTMENT	PHARMACOLOGY
ACEDAMIC YEAR	2018-2019
DATE	08.07.2019 to 20.07.2019
VENUE	SEMINAR HALL

## STUDENT MARK LIST

S.NO	Register No	Students Name	Year	Mark obtained	Mark %
1.	381710423	AMRUTHA M.K	II	17	85
2.	381710424	CHANDNA THERASA MATHEW	II	16	80
3.	381710425	DEBORAH ROSE	II	A	A
4.	381710426	HELANNA M	II	18	90
5.	381710427	MUNEER T	II	18	90
6.	381710428	NISSY ESTHER JOHN	II	18	90
7.	381710429	SAMUEL BABU	II	20	100
8.	381710430	NAIVIN D ALMEDA	II	20	100
9.	381510328	RAVEENA A	II	18	90
10.	381610401	AARTHY P	III	19	95
11.	381610402	AKSHARA RAJU	III	18	90
12.	381610403	ALFIYA S KHAN	III	17	85
13.	381610404	ASHLY STANLEY	III	16	80
14.	381610405	BALAMURUGAN V	III	18	90
15.	381610406	BHARATH K	III	A	A
16.	381610407	BITTY R	III	18	90
17.	381610408	DEEPAK K	III	20	100
18.	381610409	FEBA SHAJI	III	20	100
19.	381610410	HARIHARAN V	III	18	90
20.	381610412	KRIPA VARGHESE	III	19	95
21.	381610413	LINSHA BABU	III	18	90
22.	381610414	MANOJ S	III	A	A
23.	381610415	MONITTA ROBINSON D	III	19	95
24.	381710423	ATHIRA RAJKUMAR	IV	18	90

**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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25.	381710424	DILEEP.R	IV	19	95
26.	381710425	HEERA.V	IV	18	90
27.	381710426	HIMAJA.G	IV	20	100
28.	381710427	SILPA GOPINATH.M	IV	A	A
29.	381710428	SILVANIA MARTIN	IV	18	90
30.	381710429	THESNI PASHA.S	IV	19	95
31.	381710430	THIRU ARUL.S	IV	18	90
32.	381510328	THIRUGNANAM.T.S	IV	16	80
33.	381610401	YOGA KRISHNAN.S	IV	19	95
34.	381610402	ALEENA S	V	18	90
35.	381610403	ARIYA MOL R	V	19	95
36.	381610404	SOMU P	SEM-I	18	90
37.	381510405	SOUNDARYA S	SEM-I	20	100
38.	381510406	SRI KANNAN N	SEM-I	A	A
39.	381510424	SRIDHAR B	SEM-I	18	90
40.	381510425	SRIDHAR C	SEM-I	19	95
41.	381510427	SRIDHAR S	SEM-I	18	90
42.	381510428	SRIMATHI T	SEM-I	16	80
43.	381510429	SRINIVASAN D	SEM-I	19	95
44.	381510430	SRINIVASAN R	SEM-I	18	90
45.	381410401	SUBASH M	SEM-I	19	95
46.	381410402	SUBASH S	SEM-I	18	90
47.	561858067	SUBASHKARAN G	SEM-I	20	100
48.	561858068	SUGANTH S	SEM-I	20	100
49.	561858069	SURYAPRAKASH E	SEM-I	18	90
50.	561858070	THARANESH S	SEM-I	19	95
51.	561858071	VALLAL E	SEM-I	18	90
52.	561858072	VENKATESH K	SEM-I	16	80
53.	561858073	VIGNESH I	SEM-I	19	95
54.	561858074	VIGNESH S	SEM-I	18	90
55.	561858075	VIJAY A	SEM-I	19	95
56.	561858076	VIJAYANAGARAJ S	SEM-I	18	90
57.	561858077	VINITHA S	SEM-I	20	100
58.	561858078	YUVARAJ C P	SEM-I	20	100
59.	561858079	ZACHARIAH CHRISTOPHER M	SEM-I	18	90
60.	561858080	AAKASH S	SEM-III	19	95
61.	561858081	ABINAYA V	SEM-III	18	90
62.	561858082	AJAY KUMAR M	SEM-III	19	95
63.	561858083	AKILANDESWARAN S	SEM-III	16	80
64.	561858084	AMARNATH A	SEM-III	18	90
65.	561858085	ANANTH R	SEM-III	16	80

*[Handwritten Signature]*

*[Handwritten Signature]*  
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*[Handwritten Signature]*

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## VALUE ADDED COURSE

### FEEDBACK FORM

STUDENTNAME: *Deepak.K* DATE: *20.07.2019*  
YEAR/ COURSE: *Pharm.D*  
NAME OF THE VALUE ADDED COURSE: *Current Scenario of Neuropharmacology Research*  
COURSECODE: \_\_\_\_\_ DURATION: *6 years*  
EVALUATE HONESTLY:

Questions	Excellent	Good	Fair	Poor
The objectives of the training were	✓			
The instructor's contribution to the course was:	✓			
The presentation materials were relevant	✓			
The instructor's effectiveness in teaching the subject matter was:		✓		
Answers to the students questions by the instructor		✓		
The venue was appropriate for the event		✓		
Course organisation was:		✓		
Level of course was		✓		
Course content was:	✓			

### Student Participation

- On average, how many hours a week did you spend on this course (in and out of class)?  
A) 0-2 B) 2-5 C) 6-10 D) 11-14 E) 15UP
- What grade do you expect in this course?  
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%

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ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.**

**SIGNATURE**





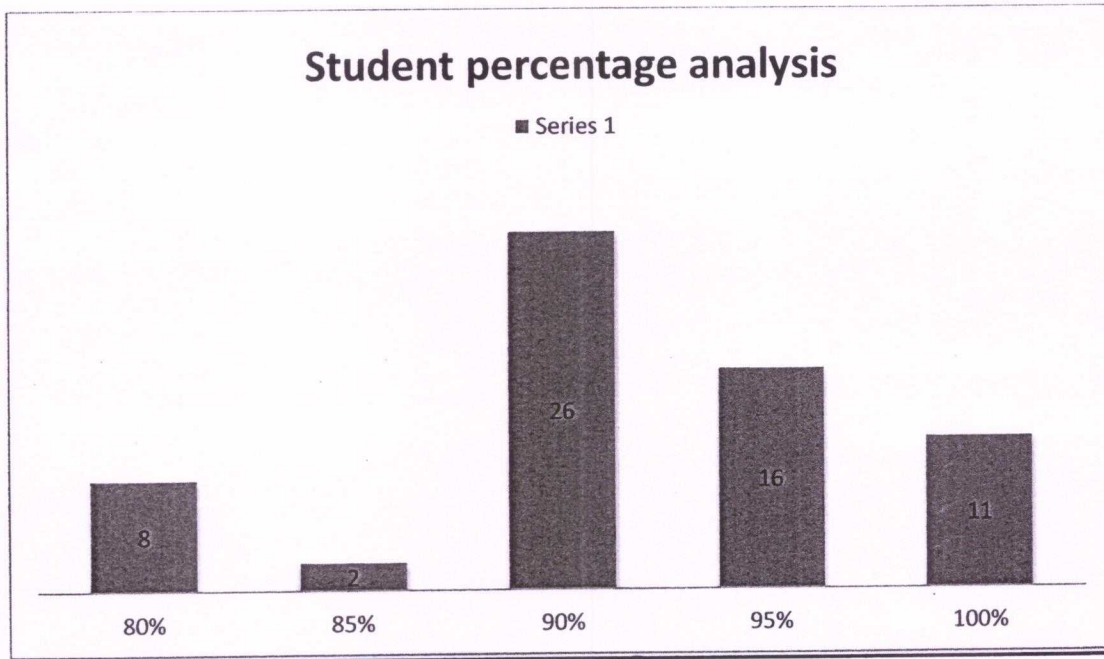


# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.  
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) |E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

VALUE ADDED COURSE	CURRENT SCENARIO OF NEUROPHARMACOLOGY RESEARCH
DEPARTMENT	PHARMACOLOGY
ACEDAMIC YEAR	2018-2019
DATE	08.07.2019 to 20.07.2019
VENUE	SEMINAR HALL

## % Analysis



*Signature*

Dr. N. SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.

Dr. N.SENTHILKUMAR,  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT. TAMILNADU. INDIA.





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OF PHARMACY, KOMARAPALAYAM.



VALUE ADDED COURSE

Organized by,  
Department of Pharmacology,



Certificate of Participant

**BALAMURUGAN V**

Has appreciated for his / her participation in the VALUE ADDED COURSE on  
CURRENT SCENARIO OF NEUROPHARMACOLOGY RESEARCH organized by the  
Department of Pharmacology on (10.09.2018 to 28.09.2018).

ORGANIZING  
SECRETARY



CONVENER  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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ETHIRMEDU, KOMARAPALAYAM - 638 183.  
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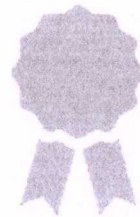
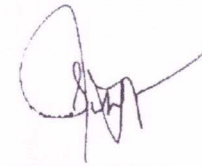
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**DEEPAK K**

Has appreciated for his / her participation in the VALUE ADDED COURSE on  
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Department of Pharmacology on (10.09.2018 to 28.09.2018).



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