



DOCTOR OF MEDICINE
M. D. GENERAL MEDICINE : WINTER : 2023
SUBJECT : RECENT ADVANCES IN THE SUBJECT : PAPER - IV

Day : Tuesday
Date : 9/1/2024

W-725-2023

Time : 01:30 PM-04:30 PM
Max. Marks : 100

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

- Q. 1** Types of Osteoporosis and recent advances in management of Osteoporosis. (15)
- Q. 2** Describe Artificial Intelligence and its role in Medicine. (15)
- Q. 3** Write short notes on **ANY SEVEN** of the following: (70)
- a) Bone marrow transplantation
 - b) Current concept in etiopathogenesis and management of obesity
 - c) Polypharmacy
 - d) Newer Antifungal drugs
 - e) Role of Nuclear cardiology in medicine
 - f) Targeted Chemotherapy
 - g) Telemedicine
 - h) Cytokine storm

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DOCTOR OF MEDICINE
M. D. GENERAL MEDICINE : WINTER : 2023

SUBJECT : SYSTEMIC MEDICINE OF ALL ORGAN SYSTEMS : PAPER - III

Day : Saturday

Time : 01:30 PM-04:30 PM

Date : 6/1/2024

W-724-2023

Max. Marks : 100

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

- Q. 1 Describe etiology, clinical features, investigations and treatment of chronic Diarrhoea. (15)
- Q. 2 Approach to evaluation and management of Stroke in young. (15)
- Q. 3 Write short notes on **ANY SEVEN** of the following: (70)
- a) Pituitary adenoma
 - b) Investigations and treatment of Non-Hodgkin's disease
 - c) Dermatomyositis
 - d) Pulsus paradoxus
 - e) Addison's disease
 - f) Renal tubular acidosis
 - g) Pulmonary embolism
 - h) Ventilator associated pneumonia

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DOCTOR OF MEDICINE
M. D. GENERAL MEDICINE : WINTER : 2023

SUBJECT : THERAPEUTICS AND TROPICAL MEDICINE : PAPER - II

Day : Thursday

Date : 4/1/2024

W-723-2023

Time : 01:30 PM-04:30 PM

Max. Marks : 100

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

- Q. 1 A 26 year old labourer just returned from native Orissa, was brought to EMD (15)
with complaint of drowsiness and high grade fever of 3 weeks duration. On
examination he was delirious, temperature 103⁰ F, Pulse 138/min, RR 19/min,
BP 88/68 mm of Hg. He had pallor, icterus, dehydration, no
lymphadenopathy. His spleen was palpable 7 cm below costal margin, other
systems were normal, no neck stiffness. Discuss differential diagnosis,
probable diagnosis, investigations and management.
- Q. 2 Discuss evaluation and management of pulmonary infections in Retrovirus (15)
infected patients.
- Q. 3 Write short notes on ANY SEVEN of the following: (70)
- a) Brucellosis
 - b) HLH (Hemophagocytic Lymphohistiocytosis)
 - c) Treatment of Drug resistant. Tuberculosis
 - d) Vaccinations in Elderly
 - e) Antibiotic stewardship
 - f) Lepra Reaction
 - g) Non typhoidal Salmonellosis
 - h) Regimens for eradication of Helicobacter pylori

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DOCTOR OF MEDICINE
M. D. GENERAL MEDICINE : WINTER : 2023
SUBJECT : BASIC MEDICAL SCIENCES : PAPER - I

Day : Tuesday

Time : 01:30 PM-04:30 PM

Date : 2/1/2024

W-722-2023

Max. Marks : 100

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

Q. 1 Describe pathophysiology of Hypertension. Enumerate causes of secondary hypertension. Discuss approach to a case of secondary hypertension with target organ damage. (15)

Q. 2 Describe venous drainage system in the brain. Discuss aetiology and clinical features of Cerebral venous sinus thrombosis. (15)

Q. 3 Write short notes on **ANY SEVEN** of the following: (70)

- a) Applied anatomy of mediastinum
- b) Pathophysiology of atherosclerosis and mechanism of atheroma progression
- c) Discuss role of vitamin B12 erythropoiesis and approach to a case of Megaloblastic anemia
- d) Potassium homeostasis and approach to a case of Hyperkalemia
- e) Mechanism of proteinuria and effects on human body
- f) Physiology of respiration system and describe method of evaluating respiratory function
- g) Complement pathways in relation to disease
- h) Pathophysiology of Diabetic ketoacidosis and management

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BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE- 30
DOCTOR OF MEDICINE
M. D. GENERAL MEDICINE : SUMMER : 2023
SUBJECT : PAPER-IV



Day : Monday

Date : 24-07-2023

S-725-2023

Time : 01:30 PM-04:30 PM

Max. Marks : 100

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

- Q. 1** Discuss current concepts of management of Dyslipidaemia. (15)
- Q. 2** Interventional therapies in Neurology. (15)
- Q. 3** Write short notes on **ANY SEVEN** of the following: (70)
- a) Role of Interleukins in clinical practice
 - b) Ketogenic diet
 - c) Smart phone use in clinical practice
 - d) Re-emerging infection in India
 - e) Artificial Intelligence in Medicine
 - f) Organ harvesting and criteria for Brain death
 - g) Oncological emergencies
 - h) Pramlintide

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BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE- 30
DOCTOR OF MEDICINE
M. D. GENERAL MEDICINE : SUMMER : 2023
SUBJECT : PAPER-III



Day : Friday

Date : 21-07-2023

S-724-2023

Time : 01:30 PM-04:30 PM

Max. Marks : 100

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

Q. 1 Describe etiopathogenesis, clinical features, investigations and treatment of Multiple Sclerosis. **(15)**

Q. 2 Define Acute Kidney Injury. Describe the renal causes, pathophysiology and management of AKI. **(15)**

Q. 3 Write short notes on **ANY SEVEN** of the following: **(70)**

- a) Refractory Asthma
- b) Hyperglycaemic Hyperosmolar State
- c) Inflammatory bowel disease
- d) Chronic Hepatitis C
- e) Recurrent pleural effusions
- f) Alcohol withdrawal clinical features and management
- g) Management of heart failure
- h) Approach to a case of polyarthritis

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BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE
DOCTOR OF MEDICINE
M. D. GENERAL MEDICINE : SUMMER : 2023
SUBJECT : PAPER-II



Day : Wednesday

Time : 01:30 PM-04:30 PM

Date : 19-07-2023

S-723-2023

Max. Marks : 100

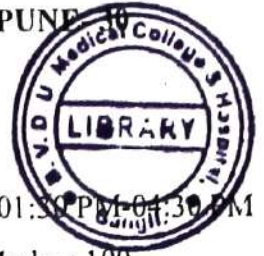
N.B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
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- Q. 1** A 45 year old patient known case of Diabetes Mellitus and Hypertension (15)
comes to the cardiology unit with complaint of chest pain since early morning.
His ECG shows STEMI changes. Discuss the role of thrombolysis, primary
PTCA and surgery in managing this case.
- Q. 2** Enumerate various parasites that affect liver and describe life cycle and (15)
management of any one in detail.
- Q. 3** Write short notes on **ANY SEVEN** of the following: (70)
- a) Management of variceal bleed
 - b) Active and passive immunisation to prevent rabies
 - c) Treatment of mucormycosis
 - d) Tropical splenomegaly syndrome
 - e) HAART
 - f) Inhalational pharmacotherapy for stable COPD
 - g) Traveller's diarrhoea
 - h) Visceral leishmaniasis

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BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE
DOCTOR OF MEDICINE
M. D. GENERAL MEDICINE : SUMMER : 2023
SUBJECT : PAPER-I



Day : Monday

Date : 17-07-2023

S-722-2023

Time : 01:30 PM to 04:30 PM

Max. Marks : 100

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

- Q. 1** Describe pathophysiology of Hypertension. Define white coat hypertension (15)
and mask hypertension. Enumerate complications of hypertension with
management.
- Q. 2** Describe the anatomy of posterior circulation in the brain. Discuss (15)
localization of lesions in posterior circulation stroke.
- Q. 3** Write short notes on **ANY SEVEN** of the following: (70)
- a) Vitamin D in health and disease
 - b) Pathophysiology of inflammation. Enumerate inflammatory markers and role
in inflammation
 - c) Pathophysiology of Cardio Renal Syndrome
 - d) Pathogenesis and approach to a case of Hepatic encephalopathy
 - e) Micturition reflex and pathways. Describe various bladder dysfunctions
 - f) Pathophysiology of Sleep apnea syndrome and describe diagnostic approach
 - g) Describe anatomy and function of Glomerulus. Classification and clinical
features of Glomerular diseases
 - h) Describe pathophysiology of hemolysis. Approach to a case of Acquired
haemolytic anemia

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BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE- INDIA
DOCTOR OF MEDICINE
M. D. GENERAL MEDICINE : SUMMER- 2022
SUBJECT : PAPER-I

Day : Friday
Date : 1/7/2022

S-722-2022

Time : 01:30 PM-04:30 PM
Max. Marks : 100

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.

Q.1 Discuss the clinical features, pathogenesis, diagnosis and management of (15)
Rheumatoid Arthritis.

Q.2 Write a note on blood supply of the Heart. Discuss investigations and (15)
complications of Acute Myocardial Infarction.

Q.3 Write short notes on **ANY SEVEN** of the following: (70)

- a) Systemic Mastocytosis
- b) Role of Hb Electrophoresis in diagnosis of various Anemias.
- c) Hypertrophic obstructive cardiomyopathy.
- d) Indications of splenectomy and preoperative care of a patient.
- e) Tumor lysis syndrome
- f) Intra - aortic balloon counter pulsation
- g) APLA syndrome
- h) Hyperuricemia

BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY, PUNE-INDIA)
DOCTOR OF MEDICINE
M. D. GENERAL MEDICINE :SUMMER- 2022
SUBJECT : PAPER-II

Day : Monday
Date : 4/7/2022

S-723-2022

Time : 01:30 PM-04:30 PM
Max. Marks : 100

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.

Q.1 Discuss in detail clinical features, diagnosis and treatment of Acute (15)
Respiratory Failure.

Q.2 Describe the risk factors, stages, clinical features and management of Ghronic (15)
kidney disease including indications for dialysis.

Q.3 Write short notes on ANY SEVEN of the following: (70)

- a) Bronchogenic Carcinoma
- b) Idiopathic interstitial pneumonia.
- c) Management of graft versus host reaction.
- d) Conn's Syndrome
- e) Renal osteodystrophy
- f) XDR Tuberculosis
- g) Non invasive ventilation
- h) IgA nephropathy

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M.D. (GENERAL MEDICINE): SUMMER 2022
SUBJECT: PAPER - III

Day: Wednesday
Date: 06-07-2022

Time: 1:30 PM TO 4:30 PM
Max Marks: 100

S-724-2022

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.

Q.1 Describe pathophysiology, clinical features & management of Hepatic Encephalopathy. (15)

Q.2 Discuss approach to a case of Malabsorption. (15)

Q.3 Write short notes on **ANY SEVEN** of the following: (70)

- a) Non Alcoholic Steato Hepatitis
- b) Addison's Disease
- c) Dapagliflozin
- d) Non - Ketotic Hyperosmolar Hyperglycemia
- e) Thiamine Deficiency
- f) Hypercalcemia
- g) Complications of Total Parenteral Nutrition.
- h) Lipid Lowering Agents

M.D. (GENERAL MEDICINE): SUMMER 2022
SUBJECT: PAPER - IV

Day : Friday
Date : 8/7/2022

S-765-2022

Time : 01:30 PM-04:30 PM
Max. Marks : 100

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labelled diagram **WHEREVER** necessary.
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Q.1 Enumerate causes of non-compressive myelopathies , clinical features and (15)
management of Neuro Myelitis Optica.

Q.2 Discuss approach to a case of fever with rash. (15)

Q.3 Write short notes on **ANY SEVEN** of the following: (70)

- a) Pellagra
- b) Complications of P. Falciparum Malaria infection
- c) Entrapment Neuropathies
- d) Depression
- e) Clinical features of Brucellosis
- f) COVID Vaccines
- g) Dermatopolymyositis
- h) Interventional Therapies in Neurological Disorders

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M.D. (GENERAL MEDICINE): SUMMER - 2021
SUBJECT: PAPER - IV



Day: Wednesday
Date: 07/07/2021

Time: 1:30 P.M. TO 4:30 P.M.
Max. Marks: 100

S-2021- 725

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Semi Long Questions:

1. Outline the approach to a case of Primary Muscle disorder. Classify myopathies (15)
and describe the diagnostic approach and management.
2. Outline the clinical presentation, diagnosis, complications and Management of a (15)
case of Dengue fever.

Short Answers:

(70)

(Answer any Seven, Each Question carries 10 marks)

1. Chronic Kala Azar.
2. Management of Seizures.
3. Diagnosis and management of leptospirosis.
4. Cauda- Equine syndrome.
5. Neuro- Diagnostic modalities.
6. Approach to a case of raised intra Cranial tension.
7. Deep brain stimulation. (DBS)
8. Evolving post COVID-19 complication.

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M.D. (GENERAL MEDICINE): SUMMER 2021
SUBJECT: PAPER – III

Day: Monday
Date: 05/07/2021

Time: 1:30 P.M. TO 4:30 P.M.
Max. Marks: 100

S-2021- 724

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Semi Long Questions:

1. Outline the aetiopathogenesis of Ascites. Write briefly about the clinical presentation diagnosis and management of case of Ascites. **(15)**
2. Outline the physiology of Anterior Pituitary hormones. Write briefly about clinical manifestation and management of a case of Acromegaly. **(15)**

Short Answers:

(70)

(Answer any Seven, Each Question carries 10 marks)

1. Management of Upper GI Bleed.
2. Multiple Endocrine Neoplasia.
3. Metabolic syndrome.
4. Irritable Bowel syndrome.
5. NASH
6. Vitamin D deficiency states.
7. Management of Chronic hepatitis B
8. Liver transplantation.

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M.D. (GENERAL MEDICINE): SUMMER - 2021
SUBJECT: PAPER - II

Day: Saturday
Date: 03/07/2021

Time: 1:30 P.M. TO 4:30 P.M.
Max. Marks: 100

S-2021- 723

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Semi Long Questions:

1. Describe the aetiopathogenesis and causes of Pleural Effusion. Outline the approach to diagnosis and management of a case of pleural effusion. (15)
2. Outline the aetiopathogenesis and Risk factors of Chronic Kidney Disease (CKD). Briefly write about diagnosis and management of a case of CKD. (15)

Short Answers:

(70)

(Answer any Seven, Each Question carries 10 marks)

1. Approach to a case of Urinary tract obstruction.
2. Management of Chronic Bronchial Asthma.
3. Diagnostic approach to a case of Tuberculosis.
4. Cystic Fibrosis.
5. Acute Nephritic Syndrome.
6. Sleep Apnea.
7. Diagnostic procedures in Respiratory disorders.
8. Role of Stem Cells in Medical Management.

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M.D. (GENERAL MEDICINE): SUMMER - 2021
SUBJECT: PAPER - I

Day: Thursday
Date: 01/07/2021

Time: 1:30 P.M. TO 4:30 P.M.
Max. Marks: 100

S-2021-722

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Semi Long Questions:

1. Describe aetiopathogenesis of Acute Rheumatic Fever. Describe the clinical findings, diagnostic criteria and management of a case of Acute Rheumatic Fever. (15)
2. Describe the immunopathology and clinical features of Acute Myeloid Leukemia. Outline the classification diagnosis and management strategies of a case of Acute Myeloid Leukemia. (15)

Short Answers:

(70)

(Answer any Seven, Each Question carries 10 marks)

1. Paraneoplastic Syndromes.
2. Thymoma.
3. Amyloidosis.
4. Sjogren's Syndrome.
5. Systemic Mastocytosis.
6. Management of Tachyarrhythmias.
7. Bone Marrow Transplantation.
8. Dilated Cardiomyopathy.

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M.D. (General Medicine): SUMMER – 2020
SUBJECT : PAPER – IV



Day & Date: Wednesday 08/07/2020
Time: 1:30. P.M. TO 4.30 P.M.

S-725-2020
Max. Marks: 100

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

- Q.1 Describe clinical diagnosis and treatment of Myasthenia Gravis. [15]
- Q.2 Discuss aetiology, clinical features and management of Cerebral Venous Sinus Thrombosis. [15]
- Q.3 Write short notes on **ANY SEVEN** of the following: [70]
- a) Malaria in pregnancy
 - b) Circle of Willis – Basic and applied anatomy
 - c) Allergic drug reactions
 - d) Adult immunization
 - e) Neurotoxic snake bite
 - f) Paraneoplastic syndromes of nervous system
 - g) Health advise for international traveler
 - h) Narcolepsy

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M.D. (General Medicine): SUMMER – 2020
SUBJECT : PAPER – III



Day & Date: Monday 06/07/2020
Time: 1:30. P.M. TO 4.30 P.M.

S-724-2020
Max. Marks: 100

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labeled diagrams **WHEREVER** necessary.
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- Q.1** Describe clinical features of Acute fulminant Hepatic failure. Describe [15]
advances in management with emphasis on liver transplant.
- Q.2** Discuss clinical features, diagnosis and treatment of pheochromocytoma. [15]
- Q.3** Write short notes on ANY SEVEN of the following: [70]
- a) Viral markers for Hepatitis B and their role in treatment decision making
 - b) H. Pylori infection
 - c) Incretin based therapy
 - d) Medical Nutrition Therapy in Diabetes Mellitus
 - e) Vitamin D deficiency
 - f) Subclinical hypothyroidism
 - g) Insulin resistance syndromes
 - h) Treatment of ulcerative colitis

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M.D. (General Medicine): SUMMER – 2020
SUBJECT : PAPER – II



Day & Date: Friday 03/07/2020
Time: 1:30 P.M. TO 4.30 P.M.

S-723-2020
Max. Marks: 100

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

- Q.1** Discuss the diagnosis and management of interstitial Lung Disease. [15]
- Q.2** Classify Tubulo-interstitial Diseases. Outline the clinical feature, diagnosis and management of Allergic interstitial Nephritis. [15]
- Q.3** Write short notes on **ANY SEVEN** of the following: [70]
- a) Extracorporeal membrane oxygenation (ECMO) indications and contraindication
 - b) Complications of Mechanical Ventilation
 - c) AKT induced Hepatitis
 - d) Pharmacovigilance
 - e) Antimicrobial resistance and antibiotic stewardship program
 - f) Pleural Fluid analysis
 - g) Contrast induced Nephropathy
 - h) Imaging Techniques in Renal Disorders

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Day & Date: Wednesday 01/07/2020
Time: 1:30. P.M. TO 4.30 P.M.

S-722-2020
Max. Marks: 100

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

Q.1 Describe Physiology of Conducting system, mechanisms of SVT and [15]
management of the same.

Q.2 Discuss the clinical features, pathogenesis, diagnosis and management of [15]
Rheumatoid Arthritis.

Q.3 Write short notes on **ANY SEVEN** of the following: [70]

- a) Recent advances in treatment of Heart Failure
- b) Surgical interventions for Coronary Artery Diseases
- c) Diagnostic importance of peripheral smear
- d) Target Specific Oral Anticoagulants (TSOACs)
- e) Renal manifestations of SLE
- f) Hypertensive emergencies
- g) Sickle cell crisis
- h) Recent modifications in RNTCP program

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