SECOND B.PHARM. EXAM
Paper V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY
Q.P. Code : 564260

Time : Three hours   **Maximum: 100 Marks**
(180 Min)   Answer ALL questions in the same order.
Answer Section A and B in SEPARATE Answer Book.
SECTION A
(PHARMACY PRACTICE)

I. Elaborate on:

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Define incompatibility. Explain all the types of physical incompatibilities with one example for each.	19	33	20

II. Write notes on:

1. Write a model prescription and mention its parts.	3	8	5
2. Define Emulsions. Write any one method to determine the type of Emulsions.	3	8	5
3. Write a short note on lotions.	3	8	5
4. What is herapathite reaction?	3	8	5

III. Short Answers:

1. What is Young's formula?	1	5	2
2. What is 1 % w/v – explain.	1	5	2
3. Define isotonicity.	1	5	2
4. Define pills.	1	5	2
5. Define Posology.	1	5	2

SECTION B
(PATHOPHYSIOLOGY)

IV. Elaborate on:

1. Define Inflammation. Explain in detail the process of Inflammation.	19	33	20

V. Write notes on:

1. Write a note on reversible cell injury.	3	8	5
2. Write a note on Parkinson's disease.	3	8	5
3. What is myocardial infarction?	3	8	5
4. Explain about epilepsy.	3	8	5

VI. Short Answers:

1. Define apoptosis.	1	5	2
2. Define diapedesis.	1	5	2
3. Define atrophy.	1	5	2
4. Define hypertrophy.	1	5	2
5. What causes syphilis?	1	5	2

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SECOND YEAR B.PHARM. EXAM
Paper V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY
Q.P. Code : 564260

Time: Three hours   Maximum: 100 Marks
     (180 Min)

Answer Section A and B in SEPARATE Answer Book.
SECTION A
(PHARMACY PRACTICE)

I. Elaborate on: (1X20=20)

1. a)Citing an example, identify the important components of an ideal prescription and indicate their importance.

   b)What are the legal requirements to be followed and complied with for establishing and maintaining retail medical store?

II. Write notes on: (4X5=20)

1. How do you distinguish gargles from mouthwash?
2. Explain how children doses are calculated?
3. Barriers in Patient counseling.
4. Role of pharmacist in community health care and education.

III. Short Answers: (5X2=10)

1. Types of emulsion with suitable example.
2. Define vitallium.
3. Antagonism.
4. Double wrapping method.
5. Liniments.

SECTION B
(PATHOPHYSIOLOGY)

IV. Elaborate on: (1X20=20)

1. a) Define AIDS. Explain the mode of transmission and management of HIV/AIDS.

   b) What are the contributory factors for peptic ulcer.

V. Write notes on: (4X5=20)

1. Urinary Tract Infections.
2. Management of Asthma.
3. Pathophysiology of ulcerative colitis.
4. Mediators of inflammation.

VI. Short Answers   (5X2=10)

1. Lewis triple response.
2. DOT therapy.
3. Atheroma.
4. Angina.
5. Myocardial infarction.

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(LD 4260)   **AUGUST 2013**   **Sub. Code: 4260**

SECOND YEAR B.PHARM. EXAM
PAPER V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY
Q.P. Code: 564260

Time: Three Hours   **Maximum: 100 marks**
Answer Section A and B in SEPARATE Answer Book.
SECTION A
(PHARMACY PRACTICE)

I. Elaborate on: (1X20=20)

1. (a).Define prescription. Explain the parts of prescription with a model prescription.
   (b) Define posology. Explain the various factors which determine the dose(s) of drugs(s).

II. Write notes on: (4X5=20)

1. Handling of prescription.
2. How will you prepare 200ml of 60 percent alcohol from 90 percent and 50 percent alcohols.
3. Convert 18° UP and 20° OP into percentage of alcohol.
4. Add a note on various child dose calculation formulas.

III. Short Answers on: (5X2=10)

1. Supra-addition.
2. Agonist.
3. Absolute alcohol
4. Proof spirit
5. Lotions

SECTION B
(PATHOPHYSIOLOGY)

I. Elaborate on: (1X20=20)

1. Define diabetes. Discuss in detail the etiology, pathophysiology and management of diabetes.

II. Write notes on: (4X5=20)
1. Differentiate acute and chronic renal failure.
2. Types of congestive heart failure.
3. Types of urinary tract infections.
4. Pathophysiology of gout.

III. Short answers: (5X2=10)
1. Azotemia.
2. Suppuration.
3. Urolithiasis
4. Ejection fraction.
5. Podagra.

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SECOND YEAR B.PHARM. EXAM
PAPER V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY
Q.P. Code: 564260

Time: Three Hours   **Maximum: 100 marks**

Answer Section A and B in SEPARATE Answer Book.
SECTION A
(PHARMACY PRACTICE)

I. Elaborate on: **(1X20=20)**

1. a. Discuss the formulation of mixtures with examples?

   b. Classify different types of bandage materials with their application

II. Write notes on: **(4X5=20)**
1. Mention the factors to be determined during dose calculation.
2. Write a note on therapeutic incompatibility with example.
3. Outline the design of drug store?
4. Mention the records to be retained in the drug store.

III. Short Answers on: **(5X2=10)**

1. Define Emulsion
2. Give two examples for over the counter medication.
3. Differentiate the mode of application in liniment & lotion
4. Define hypertonic solution.
5. Mention two examples for adhesive tapes

SECTION B
(PATHOPHYSIOLOGY)

I. Elaborate on: **(1X20=20)**
1. a) Discuss the pathophysiology of cell injury.

   b) Enumerate the management of diabetes

II. Write notes on: **(4X5=20)**
1. Differentiate atropy & hypertrophy
2. Mechanism of cell repair
3. Pathophysiology of hypertension.
4. Contributing factors for asthma.

III. Short answers on: **(5X2=10)**
1. Gout
2. Therapy for treating rheumatoid arthritis
3. Importance of thyroid stimulating hormone
4. Treatment for peptic ulcer
5. Any two causes of cell injury.

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SECOND YEAR B.PHARM. DEGREE EXAMINATION

Paper V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY

Q. P. Code: 564260

Time: Three Hours   **Maximum: 100 Marks**

Answer All Questions
Answer Section-A and B in separate Answer Book
SECTION-A
(PHARMACY PRACTICE)

I. Essay: **(1 x 20 = 20)**

1. a) Define and classify the different type of mixtures with suitable examples.

   b) What are lotions and liniments? Add a note on calamine lotion and turpentine liniment.

II. Short Notes: **(4 x 5 = 20)**

1. Legal requirements to establish a drug store.
2. Source of errors in prescription.
3. What is inscription? What are adjuvant and corrigens? Give an example for each.
4. What are emulsions? Explain the method of preparation of emulsion.

III. Short Answers: **(5 x 2 = 10)**

1. Isotonic solution
2. Posology
3. Absorbents.
4. Antagonism.
5. Barriers in patient counseling.

SECTION-B
(PATHOPHYSIOLOGY)

I. Essay: **(1 x 20 = 40)**

1. a) Define Angina pectoris. Explain the causes, pathophysiology, diagnosis and symptoms of Angina pectoris.

II. Short Notes: **(4 x 5 = 20)**

1. Risk factors for atherosclerosis.
2. Pathophysiology of peptic ulcer.
3. Pathophysiology of hepatitis A and B.
4. Different types of epilepsy.

III. Short Answers: **(5 x 2 = 10)**

1. Proctitis
2. Thrombosis
3. Sigmoidoscopy
4. Tophi
5. DOT

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SECOND YEAR B.PHARM. EXAMINATION
PAPER V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY

Q.P. Code: 564260

Time: Three hours   **Maximum: 100 marks**

Answer Section A and B in SEPARATE Answer Book.
SECTION A
(PHARMACY PRACTICE)

I. Essay: **(1 x 20 = 20)**

1. a) Discuss the classification of powders. Explain each type with an example.
   b) Explain the code of ethics in community pharmacy.

II. Short notes: **(4 x 5 = 20)**

1. Absorbents with example
2. Physical incompatibility with example
3. Solutions used in the oral cavity with example
4. Organisational set up of whole sale and retail drug store

III. Short answers: **(5 x 2 = 10)**

1. Meaning of pulvis and unguentum
2. Calculate the dose for an infant of 9 months age when the adult dose is 100 mg using Fried's formula.
3. Define proof spirit
4. Types of drug store
5. Posology

SECTION B
(PATHOPHYSIOLOGY)

I. Essay: **(1 x 20 = 20)**

1. a) Discuss the pathophysiology causes and symptoms of congestive heart disease.
   b) Explain the contributory factors for Atherosclerosis.

II. Short notes: **(4 x 5 = 20)**

1. Mechanism of inflammation
2. Management of hypertension
3. Pathogenesis of cell injury
4. Contributory factors in diabetes

III. Short answers: **(5 x 2 = 10)**

1. Define cellular adaptation
2. Treatment for H.Pylori
3. Importance of serum creatinine in renal failure
4. Define vascular permeability
5. Any two antibiotics for treating urinary tract infection

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SECOND YEAR B.PHARM. EXAMINATION
PAPER V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY

Q.P. Code: 564260

Time: Three hours   **Maximum: 100 Marks**

SECTION A
(PHARMACY PRACTICE)

I. Essay: **(1 x 20 = 20)**

1. a) Classify the Emulsifying agents and add a note on HLB.
    b) Discuss the role of Community Pharmacist in health care and patient education.

II. Short notes: **(4 x 5 = 20)**

1. Discuss the factors determining doses of drug.
2. Explain Therapeutic incompatibility with examples.
3. Give the types of sutures with suitable examples.
4. Discuss health screening.

III. Short answers: **(5 x 2 = 10)**

1. Define Gargles. Give an example.
2. Give Dilling's and Fried's formula.
3. What are Crepe bandages?
4. Give the Meaning of coch.mag., and s.o.s.,
5. What are Pastilles?

SECTION B
(PATHOPHYSIOLOGY)

I. Essay: **(1 x 20 = 20)**

1. Define and classify Diabetes Mellitus. Discuss the symptoms, pathophysiology and complications of Diabetes Mellitus.

II. Short notes: **(4 x 5 = 20)**

1. Discuss the causes of cell injury.
2. Explain the cellular response in the inflammation process.
3. Give the causes and pathophysiology of acute renal failure.
4. Discuss the different types of viral hepatitis.

III. Short answers: **(5 x 2 = 10)**

1. What is prinzmetals angina?
2. What is Epilepsy? Give any two causes Epilepsy.
3. What is extrinsic Asthma?
4. What are chemical mediators? Give example.
5. What is Osteoporosis?

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SECOND YEAR B.PHARM. EXAMINATION
PAPER V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY

Q.P. Code: 564260

Time: Three hours   **Maximum: 100 Marks**

SECTION A
(PHARMACY PRACTICE)

I. Essay: **(1 x 20 = 20)**

1. a) Define Posology. Write in detail the various factors that determining the doses of drugs.
   b) What are Inhalations? Give its types. Give an example with the method of preparation.

II. Short notes: **(4 x 5 = 20)**

1. Explain in detail about the legal requirements for establishment and maintenance of drug store.
2. Explain the parts of the prescription.
3. Discuss OTC medication.
4. Write a note on physical incompatibility with examples.

III. Short answers: **(5 x 2 = 10)**

1. Differentiate between lotions and liniments.
2. Define proof spirit.
3. What is a primary wound dressing?
4. What is Tachyphylaxis?
5. What is Supra-addition?

SECTION B
(PATHOPHYSIOLOGY)

I. Essay: **(1 x 20 = 20)**

1. a) Define cell injury. Write in detail about various cellular adaptations & causes of cell injury.
   b) Give the pathogenesis of hypoxic cell injury.

II. Short notes: **(4 x 5 = 20)**

1. Discuss the symptoms and pathophysiology of Gout.
2. Discuss the process of repair.
3. Give the types and management of Diabetes Mellitus.
4. Explain the pathophysiology of Peptic ulcer.

III. Short answers: **(5 x 2 = 10)**

1. What is Reperfusion?
2. Define Homeostasis.
3. Define Ischaemia & Hypoxia.
4. Give the causative organism for syphilis and Gonnorhoea.
5. Give two symptoms of hypothyroidism.

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B.PHARM. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY

Q.P. Code: 564260

Time: Three hours   **Maximum: 100 Marks**

SECTION A
(PHARMACY PRACTICE)

I. Elaborate on: **(1 x 20 = 20)**

1. Define Powders. Discuss the classification of powders. Explain each type with an example.

II. Write notes on: **(4 x 5 = 20)**

1. Explain the chemical incompatibility of alkaloidal salts.
2. Explain Handling of prescription.
3. What are the various types and design of drug stores?
4. Discuss the ideal characteristics of surgical dressings.

III. Short answers on: **(5 x 2 = 10)**

1. Define isotonic solutions.
2. Calculate the dose for a 9 years old child when the adult dose is 250mg.
3. Give the English meaning of Haustus and Statim.
4. What are secondary dressings? Give examples.
5. What is true tolerance?

SECTION B
(PATHOPHYSIOLOGY)

I. Elaborate on: **(1 x 20 = 20)**

1. a) What is Rheumatoid Arthritis? Give its causes, symptoms and pathophysiology.
   b) Explain the pathophysiology of Acute renal failure.

II. Write notes on: **(4 x 5 = 20)**

1. Give the symptoms and pathophysiology of Congestive heart failure.
2. Explain the pathophysiology of Asthma.
3. Give the risk factors for Atherosclerosis.
4. Discuss the cellular events in Acute inflammation.

III. Short answers on: **(5 x 2 = 10)**

1. Define Metaplasia.
2. Give the treatment for H. Pylori.
3. What is diapedesis?
4. Give the symptoms for urinary tract infection.
5. What is primary gout?

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

(LM 4260)   **FEBRUARY 2018**   Sub. Code: 4260

B.PHARM. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY

Q.P. Code: 564260

Time: Three hours   Maximum: 100 Marks

SECTION A
(PHARMACY PRACTICE)

I. Elaborate on: (1 x 20 = 20)

1. a) What are sutures and ligatures? Give its types with example. Write a note on catgut.
   b) Explain briefly self-adhesive plasters.

II. Write notes on: (4 x 5 = 20)

1. Explain the various methods of preparation of an emulsion.
2. What are the sources of errors in prescription?
3. What is chemical incompatibility? Explain the incompatibility of soluble salicylates with alkaline substances.
4. Write a note on tablet triturates.

III. Short answers on: (5 x 2 = 10)

1. What are Corrigens? Give an example.
2. Give the English meaning of Cremor and Infricandus.
3. What is Synergism? Give an example.
4. What is contra-indication?
5. Give the types of dusting powders.

SECTION B
(PATHOPHYSIOLOGY)

I. Elaborate on: (1 x 20 = 20)

1. a) Discuss the pathophysiology, causes, symptoms and management of Atherosclerosis.
   b) Explain the contributory factors for cell injury.

II. Write notes on: (4 x 5 = 20)

1. Discuss the management of Hypertension.
2. Explain the pathogenesis of Tuberculosis.
3. What are the different types of cellular adaptation?
4. What are chemical mediators? Give their types and functions.

III. Short answers on: (5 x 2 = 10)

1. Give the types of Ulcer.
2. Give the treatment for Hepatitis B.
3. What is Myocardial Infarction?
4. Write the symptoms of Diabetes mellitus.
5. Give the risk factors for Chronic Renal failure.

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

(LN 4260)　　　　　　　　**AUGUST 2018**　　　　　　Sub. Code: 4260

B.PHARM. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY

Q.P. Code: 564260

Time: Three hours　　　　　　　　　　　　　　　Maximum: 100 Marks

SECTION A
(PHARMACY PRACTICE)

I. Elaborate on:　　　　　　　　　　　　　　　　　　(1 x 20 = 20)

1. Classify incompatibilities. Elaborate on chemical incompatibility with suitable examples.

II. Write notes on:　　　　　　　　　　　　　　　　　(4 x 5 = 20)

1. Discuss the role of Pharmacist in community and health education.
2. Write the various formulae to calculate child dose.
3. Describe about the stability problems involved in preparing and storing emulsion.
4. Write a note on dusting powders.

III. Short answers on:　　　　　　　　　　　　　　　(5 x 2 = 10)

1. What is an absorbable suture? Give example.
2. Define pastilles.
3. Write the direction for the use of liniment and lotion.
4. Define proof spirit.
5. What are the disadvantages of OTC medications?

SECTION B
(PATHOPHYSIOLOGY)

I. Elaborate on:　　　　　　　　　　　　　　　　　　(1 x 20 = 20)

1. Elaborate on various types, etiology, pathogenesis and symptoms of Asthma.

II. Write notes on:　　　　　　　　　　　　　　　　　(4 x 5 = 20)

1. Classify angina. Write the etiology and pathogenesis of angina pectoris.
2. Explain the steps involved in wound healing process.
3. Describe the pathophysiology and symptoms of Parkinson's disease.
4. Write a note on different types of gout.

III. Short answers on:　　　　　　　　　　　　　　　(5 x 2 = 10)

1. Define autoimmune disorder with suitable example.
2. Write the etiology of peptic ulcers.
3. Define insulin resistance.
4. Write the types of syphilis.
5. What is caseous necrosis?

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B.PHARM. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY

Q.P. Code: 564260

Time: Three hours   Maximum: 100 Marks

SECTION A
(PHARMACY PRACTICE)

I. Elaborate on: **(1 x 20 = 20)**

1. a) Write in detail about legal requirements for establishing a retail pharmacy store in Tamil Nadu.
   b) Give a diagrammatic representation of organization of a retail drug store.

II. Write notes on: **(4 x 5 = 20)**

1. Write about primary wound dressings.
2. Write about physical incompatibility with examples.
3. What are mixtures? Classify with examples.
4. Define posology. How pediatric dose may be calculated?

III. Short answers on: **(5 x 2 = 10)**

1. Define Prescription.
2. Give the method of administration of douches.
3. Define Powders.
4. Give the types of sutures with examples.
5. Define Liniment.

SECTION B
(PATHOPHYSIOLOGY)

I. Elaborate on: **(1 x 20 = 20)**

1. Write in detail about Pathogenesis of Acute Inflammation.

II. Write notes on: **(4 x 5 = 20)**

1. Give the causes and pathophysiology of Acute Hepatitis.
2. Give the symptoms and complications of Diabetes Mellitus.
3. Discuss the pathophysiology of Tuberculosis.
4. Write the pathophysiology and types of Myocardial Infarction.

III. Short answers on: **(5 x 2 = 10)**

1. Define proctitis and colitis.
2. Define apoptosis and necrosis.
3. What are tophi?
4. What is hypertension?
5. Give the causative organism for gonorrhea and UTI.

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

(LP 4260)　　　　　　　　**AUGUST 2019**　　　　　　Sub. Code: 4260

B.PHARM. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY

Q.P. Code: 564260

Time: Three hours　　　　　　　　　　　　　**Maximum: 100 Marks**

SECTION A
(PHARMACY PRACTICE)

I. Elaborate on:　　　　　　　　　　　　　　　　　**(1 x 20 = 20)**

　　1. Discuss various factors those influence the doses of drugs.

II. Write notes on:　　　　　　　　　　　　　　　　**(4 x 5 = 20)**

　　1. Explain the organization and structure of wholesale drug store.
　　2. Write the role of Pharmacist in prescription handling.
　　3. Classify powders. Write advantages and disadvantages of powders.
　　4. Explain the various types of therapeutic incompatibility.

III. Short answers on:　　　　　　　　　　　　　　　**(5 x 2 = 10)**

　　1. What is immiscibility? Write a method to overcome immiscibility.
　　2. Define rational drug therapy.
　　3. Write the direction for the use of mouth wash and gargle.
　　4. Write the English meaning of h.s., and s.o.s.,
　　5. Define lozenges.

SECTION B
(PATHOPHYSIOLOGY)

I. Elaborate on:　　　　　　　　　　　　　　　　　**(1 x 20 = 20)**

　　1. Describe the types, causes, symptoms, pathogenesis and life style management of Diabetes Mellitus.

II. Write notes on:　　　　　　　　　　　　　　　　**(4 x 5 = 20)**

　　1. Explain the various vascular events associated with Acute Inflammation.
　　2. Write the etiology and pathogenesis of Chronic Renal failure.
　　3. Explain the pathophysiology and management of Epilepsy.
　　4. Write a note on pathogenesis and risk factors for ulcerative colitis.

III. Short answers on:　　　　　　　　　　　　　　　**(5 x 2 = 10)**

　　1. Define cytokines and their function.
　　2. Write the causes for Myocardial Infarction.
　　3. What is Opsonization?
　　4. Classify hypertension based on blood pressure.
　　5. What are the different types of Asthma?

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B.PHARM. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PHARMACY PRACTICE AND PATHOPHYSIOLOGY

Q.P. Code: 564260

Time: Three hours   **Maximum: 100 Marks**

SECTION A
(PHARMACY PRACTICE)

I. Elaborate on: **(1 x 20 = 20)**

1. a) Define and classify the different type of mixtures with suitable examples.
    b) What are emulsions? Explain the method of preparation of emulsion.

II. Write notes on: **(4 x 5 = 20)**

1. Explain the factors affecting the dose(s) of drugs.
2. Write a note on sources of errors in prescription.
3. Mention various formulae used to calculate child dose.
4. What are the roles of pharmacist in community and health education?

III. Short answers on: **(5 x 2 = 10)**

1. Mention the uses of liniment.
2. Name the types of physical incompatibilities.
3. What is superscription?
4. Define lozenges.
5. What is tachyphylaxis?

SECTION B
(PATHOPHYSIOLOGY)

I. Elaborate on: **(1 x 20 = 20)**

1. Define inflammation. Explain the various process of inflammation.

II. Write notes on: **(4 x 5 = 20)**

1. Management of hypertension.
2. Write about the risk factors for atherosclerosis.
3. Pathophysiology of hepatitis A and B.
4. Explain the pathophysiology of urinary tract infection.

III. Short answers on: **(5 x 2 = 10)**

1. Define Hyperplasia.
2. Symptoms of Diabetes Mellitus.
3. What is Gout?
4. Any two causes of cell injury.
5. Give the treatment for syphilis.

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