

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



FINAL | Lecture

# Past Papers

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﴿ وَإِنْ تَوَلَّوْا يَسْتَبَدِلْ قَوْمًا غَيْرَكُمْ ثُمَّ لَا يَكُونُوا أَمْثَلَكُمْ ﴾  
اللهم استعملنا ولا تستبدلنا

اللَّهُ لَا إِلَهَ إِلَّا هُوَ الْحَيُّ الْقَيُّومُ  
لَا تَأْخُذُهُ سِنَّةٌ وَلَا نَوْمٌ لَهُ مَا فِي السَّمَوَاتِ وَمَا فِي الْأَرْضِ  
مَنْ ذَا الَّذِي يَشْفَعُ عِنْدَهُ إِلَّا بِإِذْنِهِ يَعْلَمُ مَا بَيْنَ أَيْدِيهِمْ  
وَمَا خَلْفَهُمْ وَلَا يُحِيطُونَ بِشَيْءٍ مِّنْ عِلْمِهِ إِلَّا بِمَا شَاءَ  
وَسِعَ كُرْسِيُّهُ السَّمَوَاتِ وَالْأَرْضَ وَلَا يَئُودُهُ حِفْظُهُمَا  
وَهُوَ الْعَلِيُّ الْعَظِيمُ ﴿٢٥٥﴾



PHARMACOLOGY



# Past papers

Always remember that past exam questions are only for practice.

Bismillah, let's go!

Which topical antibacterial agent targets gram-negative bacteria :

- A) Gentamicin
- B) Bacitracin
- C) Mupirocin
- D) Retapamulin

Ans: A

All is true about BACTIRACIN EXCEPT:

- A) Can cause allergic contact
- B) Systemic use can cause nephrotoxicity
- C) It is highly absorbed through the skin, so systemic toxicity quiet frequent
- D) It interferes with cell wall and peptidoglycan synthesis
- E) Usually administered in combination with neomycin, polymyxin B, or both

Which of the following is wrong about tizanidine :

- A) It can decrease blood pressure
- B) Alpha 2 agonist
- C) It can increase heart rate
- D) Inhibits norepinephrine

Ans: C

A female is put on isotretinoin she decides to stop the medicine after how much time can she conceive :

- A) 2 months
- B) 1 year
- C) 3 years
- D) 1 month
- E) 3 months or more

Given through an intralesional injection for the treatment of keloids:

Ans: triamcinolone

The treatment of melasma, which is characterized by excessive melanin production, is :

Ans: hydroquinone



All of the following drugs are considered teratogenic and women shouldn't become pregnant for a period of time after using them EXCEPT:

- A) Isotretinoin
- B) Acitretin
- C) Tazarotene
- D) Miltefosine
- E) Permethrin

Ans: E (not required)

Which of the following can be used to treat psoriasis:

- A) Acitretin
- B) Tacrolimus
- C) Synthesis of vitamin D derivative
- D) All of the above

Which of the following is not an anti-fungal:

- A) Clotrimazole
- B) Metronidazole
- C) Amphotericin B
- D) Ketoconazole

Which is true about topical application of Clindamycin:

- A) There is no risk of pseudomembranous colitis since it's topically applied
- B) It works by inhibiting the transcription process
- C) Allergic dermatitis is very common
- D) Can be used to treat acne
- E) All of the above

All of the following are side effects of retinoic acid derivatives except:

- A) Teratogenic
- B) Hepatotoxicity
- C) Depression
- D) Bleaching

Which of the following is wrong about bacitracin:

- A) It is frequently used in combination with polymyxin B and neomycin
- B) It is greatly absorbed to the systemic circulation
- C) It can cause contact dermatitis
- D) It works by inhibiting cell wall and peptidoglycan synthesis

Which of the following drugs doesn't treat acne vulgaris:

- A) Erythromycin
- B) Benzoyl peroxide
- C) Clindamycin
- D) Neomycin

Which of the following is correct regarding trichogenic agents:

- A) Minoxidil is known to decrease the microcirculation surrounding the follicle, thus decreasing cutaneous blood flow
- B) A frequent adverse effect of topical minoxidil is orthostatic hypotension
- C) Finasteride inhibits the 5- $\alpha$  reductase enzyme that controls the production of DHT from testosterone
- D) An adverse effect associated with finasteride is increased libido
- E) Only 6 months of finasteride is necessary for a lifelong benefit



Which of the following is correct regarding the use of isotretinoin in the treatment of acne:

- A) Isotretinoin is given intravenously in the treatment of acne
- B) Isotretinoin acts primarily on the membrane receptors
- C) If given in high dosages, isotretinoin can indirectly increase the concentration of *Propionibacterium acnes* bacteria
- D) Isotretinoin activates prostaglandin E2 and collagenase, which causes the adverse effect of inflammation
- E) Isotretinoin is contraindicated in Pregnancy due to its high risk of birth defects

Which of the following disease-treatment match is true:

- A) Acne - Minoxidil
- B) Alopecia - Calcipotriene
- C) Impetigo - Isotretinoin
- D) Rosacea- Azelaic acid
- E) Psoriasis – Hydroquinone

Which is correct regarding the use of isotretinoin in the treatment of acne:

- A) It is used topically in the treatment of acne
- B) It acts primarily on the corticosteroid receptors
- C) It is used for milder forms of acne
- D) It is contraindicated in pregnancy

Which drug is topically applied antibiotic that is thought to work through anti-inflammatory effects to treat rosacea:

- A) Brimonidine
- B) Doxycycline
- C) Metronidazole
- D) Benzoyl peroxide

One of the following is wrong about corticosteroids:

- A) Absorption of topical corticosteroids is increased with inflammation.
- B) Topical formulation has no side effects generally
- C) Triamcinolone is used as an intralesional injection for acne scars
- D) They cannot be stopped suddenly

One of these is used with oral antibiotics for acne treatment:

Ans: Topical benzoyl peroxide or topical retinoids

Which of the following is the mechanism of elformithine?

- A) Inhibition of polyamine synthesis
- B) Inhibition of tyrosine kinase
- C) Activation of alpha 5 reductase
- D) Inhibition of phosphodiesterase

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**Drug Therapy of Gout**



Which of the following drugs could be used to decrease rate of production of uric acid:

- A) Naproxin
- B) Aspirin
- C) Colchicine
- D) Febuksostat
- E) Ibuprofen

Which of the following agents bind to tubulin leading to depolymerization and disrupting neutrophils mobility:

- A) Colchicine
- B) Febuxostat
- C) Sarilumab
- D) Abatacept
- E) Probenecid

Which of the following drugs used in the treatment of gout has as its primary effect the reduction of uric acid synthesis:

- A) Allopurinol
- B) Naproxen
- C) Colchicine
- D) Indomethacin

How does probenecid decrease serum uric acid?

Ans: inhibiting tubular reabsorption of uric acid

Allopurinol decreases the plasma concentration of:

- A) Hypoxanthine
- B) Xanthine
- C) Uric acid
- D) Purine bases
- E) All of the above

Strong nonsteroidal anti-inflammatory drugs are more commonly used than colchicine in acute gout because:

- A) They are more effective.
- B) They are better tolerated.
- C) They act more rapidly.
- D) They have additional uricosuric action.
- E) All of the above

Colchicine is best described as it:

- A) Causes cellular proliferation.
- B) Enhances uric acid excretion.
- C) Is an effective analgesic in osteoarthritis.
- D) Is used for treatment and prevention of acute gouty arthritis.
- E) All of the above

All the following drugs will be useful in the treatment of an acute attack of gout, except?

- A) Allopurinol
- B) Prednisone
- C) Colchicine
- D) Diclofenac sodium
- E) Indomethacin



Which of the following drugs is not used for acute gouty arthritis?

- A) Probenecid
- B) Steroids
- C) Ibuprofen
- D) Colchicine

To lower uric acid levels in blood and urine you should use:

- A) Colchicine
- B) Indomethacin
- C) Allopurinol
- D) Corticosteroids

How does Probenecid decrease serum uric acid:

Ans: By inhibiting tubular reabsorption

Which of the following is false according to probenecid?

- A) It is contraindicated in people with renal failure
- B) It is used for treating elevated Uric acid level in urine
- C) It is contraindicated with people with kidney stones
- D) Probenecid should not be started during a sudden/severe gout attack
- E) Probenecid is less efficient in elderly people

Which drug is used for acute gout attack?

- A) Allopurinol
- B) Probenecid
- C) Februxostat
- D) Ibuprofen

Which of the following drugs is contraindicated in patients with Gout?

- A) Acetaminophen
- B) Aspirin
- C) Allopurinol
- D) Febuxostat
- E) Pegloticase

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All of the following about Acyclovir is true except:

- A) Acyclovir is used for the treatment of influenza
- B) Acyclovir is used for the treatment of herpes viruses



Which of the following is false about Foscarnet?

Ans: Not indicated in acyclovir resistant HSV

What makes the acyclovir specific:

Ans: Its conversion to MP derivative by viral thymidine kinase

Which of the following is incorrect about Foscarnet?

- A) Can be used in the treatment of CMV
- B) Can be administered orally and IV
- C) Eliminated by the kidneys
- D) Can cause hypocalcemia
- E) Seizures have been reported in some patients

All the following are indications for the usage of acyclovir except?

- A) HSV
- B) VZV
- C) CMV
- D) HPV
- E) None of the above

# For any feedback, scan the code or click on it.



Corrections from previous versions:

Versions	Slide # and Place of Error	Before Correction	After Correction
V0 → V1			
V1 → V2			

# Additional Resources:

# رسالة من الفريق العلمي:

سبحانك اللهم وبحمدك، أشهد أن لا إله إلا أنت أستغفرك وأتوب إليك

اللَّهُمَّ صَلِّ عَلَى إِمَامِ الْمُجَاهِدِينَ وَ قَائِدِ سَرَايَا الْمُقَاتِلِينَ مِنْ بَدْرِ إِلَى يَوْمِ الدِّينِ،  
مَنْ أَعَزَّ بِ الْجِهَادِ قَوْمَ مُؤْمِنِينَ وَ أَذَلَّ بِ حَدِّ سَيْفِهِ مِلَّةَ الْكَافِرِينَ وَ عَلَى آلِ بَيْتِهِ  
الطَّاهِرِينَ وَ صَحْبِهِ الْغُرِّ الْمَيَامِينِ وَمَنْ قَاتَلَ وَ جَاهَدَ تَحْتَ لَوَائِهِ إِلَى يَوْمِ الدِّينِ.  
أَكْثَرُوا مِنَ الصَّلَاةِ عَلَى نَبِيِّنَا مُحَمَّدٍ.



أَنْفِرُوا خِفَافًا وَثِقَالًا وَجَاهِدُوا بِأَمْوَالِكُمْ وَأَنْفُسِكُمْ  
فِي سَبِيلِ اللَّهِ ذَٰلِكُمْ خَيْرٌ لَّكُمْ إِنْ كُنْتُمْ تَعْلَمُونَ