

قائمة الاسئلة 06:24 06-25-2025

أنظمة توصيل دواء متقدم - صيدلة - الرابع - عام - درجة الاختبار (70)

- 1) 1-Drug delivery refers to the method of administering a pharmaceutical compound to :
 - 1) Achieve a therapeutic effect in humans
 - 2) Achieve a therapeutic effect in animals
 - 3) + Achieve a therapeutic effect in humans or animals
 - 4) Involves the movement of a drug from the bloodstream to the site of administration.
- 2) 2- Some drugs may be formulated as a prodrug such as:
 - 1) Nitrofurantion
 - 2) + Chloramphenicol Palmitate
 - 3) Bisacodyl
 - 4) Asprin
- 3) 3-Drug targeting aims to:
 - 1) Increase systemic side effects
 - 2) + Deliver drugs specifically to diseased tissues
 - 3) Enhance first-pass metabolism
 - 4) Reduce drug stability
- 4) 4-A polymeric coating of pH 7 is unsuitable for:
 - 1) + Gastric delivery drug
 - 2) Intestinal delivery drug
 - 3) Colonic delivery drug
 - 4) Entric delivery drug
- 5) 5- To improve the DDS of drug, if a drug is not irritating to the gastric mucosal it should be administered:
 - 1) + On empty stomach
 - 2) Immediately after fatty food
 - 3) With food
 - 4) With milk
- 6) 6- Certain drugs are more absorbed from the stomach region such as:
 - 1) Weak acidic drugs which are in ionized form.
 - 2) + Weak acidic drugs which are in unionized form.
 - 3) Weak basic drugs which are in unionized form.
 - 4) Weak basic drugs which are in ionized form.
- 7) 7-Sulphasalazine more absorbed in the :
 - 1) Stomach
 - 2) Small intestine
 - 3) + Large intestine
 - 4) Colon
- 8) 8 Active targeting involves:
 - 1) + Using ligands to bind to specific receptors
 - 2) Relying only on passive diffusion
 - 3) Increasing renal excretion
 - 4) Reducing drug absorption
- 9) 9- GIT absorption of tetracycline is reduced by the formation of:
 - 1) Absorbable complex with calcium
 - 2) Absorbable complex with gastrin in the stomach.
 - 3) Non-absorbable complex with gastric Hcl.
 - 4) + Non-absorbable complex with calcium.



- Which drug is delivered via transdermal patches for smoking cessation?
 - Fentanyl 1)
 - 2) Nicotine
 - 3) Scopolamine
 - Estrogen
- 11) 11- Nitrofurantoin absorption is optimal when administered:
 - On an empty stomach
 - With antacids 2)
 - 3) With a fatty meal.
 - In enteric-coated form
- 12-Administration of antacid with Aspirin may leading to: 12)
 - Ionized, no ppt, and increase absorption of aspirin 1)
 - Ionized, no ppt, and decrease absorption of aspirin 2)
 - Unionized, no ppt, and decrease absorption of aspirin 3)
 - Unionized, no ppt, and increase absorption of aspirin 4)
- 13-Administration of antacid with enteric coated tablets may lead to: 13)
 - Increase gastric disintegration 1)
 - Decrease gastric disintegration 2)
 - Increase intestinal disintegration 3)
 - 4) No effect
- 14-Isoprenaline (used for bronchial asthma) best formulated as DDS and adminesterd as: 14)
 - Plain tablets orally, beause not affeted by enzymes located in the intestinal mucosa 1)
 - 2) Enteri coating tablets orally, to prevent digridation in the stomach
 - Sugar coating tablets orally, to mask it's bitter taste 3)
 - 4) Intravenous, Inhaler, or Sublingual tab.
- 15- Griseofulvin should be best administered: 15)
 - On empty stomach stomach which contain high Hcl inreases solubility 1)
 - 2) Far a way from the food to inrease solubility.
 - With food, which decrease secretion of Hcl. 3)
 - With fatty food, which enhanced secretion of bile juice.
- 16-Bile salts in small intestine form: 16)
 - Soluble; non-absorbable complexes with Neomycin. 1)
 - Insoluble; non-absorbable complexes with Neomycin. 2)
 - 3) Soluble; absorbable complexes with Neomycin.
 - Insoluble; absorbable complexes with Neomycin. 4)
- 17-L- dopa for Parkinson's disease, best administered:
- 17)
 - As Dopamine injection. 1)
 - In combination dpsage form as Carbidopa/Levodopa 2)
 - With food, which contains protiens. 3)
 - With antacid which increae absorption of L.dopa.
- 18- What is the primary advantage of transdermal DDS: 18)
 - 1) Rapid drug absorption
 - Slow and sustained drug release 2)
 - Direct lung delivery 3)
 - Localized skin treatment
- 19) 19-Weak acidic drug (pKa of 3, gastric pH 2) and anti log of (1 = 10, 2 = 100, -1 = 0.1, -2 = 0.01) the ratio is:
 - + Fi : Fu = 0.1 : 1 1)
 - Fu : Fi = 0.1 : 12)
 - Fi : Fu = 1 : 1003)

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- 4) Fi : Fu = 0.01 : 1
- 20) 20- The absorption of drugs deferent from free acids or acids that :
 - 1) Calcium salt of Novobiocin absorbed twice that of the Sodium salt and 50 times that of the free acid
 - 2) Sodium salt of Novobiocin absorbed less than of the calcium salt and 50 times that of the free acid
 - 3) + Sodium salt of Novobiocin absorbed twice that of the calcium salt and 50 times that of the free acid
 - 4) The free acid of Novobiocin absorbed more than sodium salt or calcium salt
- 21) 21- Micronization of spironolactone reduced its dose from 500 mg to :
 - 1) + 25 mg
 - 2) 50 mg
 - 3) 100 mg
 - 4) 250 mg
- 22) 22-Theophylline can effected by cigarette smoking as the following:
 - 1) + Cigarette smoking can cause increased elimination of theophylline
 - 2) Cigarette smoking can cause decreased elimination of theophylline
 - 3) Cigarette smoking don't show any effect on elimination of theophylline
 - 4) Cigarette smoking can cause increase followed by decrease in elimination of theophylline
- 23) 23-The metabolic activity of enzyme are inhibited by the following drugs:
 - 1) + Omeprazole, metronidazole and ciprofloxacin.
 - 2) Phenobarbitone, Alcohol,
 - 3) Antiepileptic agents
 - 4) Glucocorticoide and cigarette smoking,
- 24) 24-The following are from the advantages of Intranasal Drug Delivery System except:
 - 1) Easily administered to the unconscious patients
 - 2) + Slower delivery to the blood stream and higher blood levels compared to oral medications.
 - 3) No destruction by stomach acid and intestinal enzymes
 - 4) No destruction by hepatic first pass metabolism
- 25) 25- Nasal delivery of insulin follows a transport mechanism involving:
 - 1) + Passive diffusion mechanism
 - 2) Active –carrier transport mechanism
 - 3) Diffussion through aqueous pores
 - 4) Ion-pair transport mechanism
- 26) 26- One of the following factors affecting Nasal Absorption is not true:
 - 1) Absorption of drugs decreases as the molecular weight of drug molecules increases
 - 2) + Absorption increases as concentration of drug decreases.
 - 3) Particle size 10-50 microns adheres best to the nasal mucosa.
 - 4) Absorption of drugs increases as the molecular weight of drug molecules decreases
- 27. One of the following applications of drug targeting is not true:
 - 1) Deliver chemotherapeutic agents directly to tumor cells in cancer therapy.
 - 2) Delivery of drugs to the site of arterial within the cardiovascular system in cardiovascular diseases.
 - 3) Deliver drugs to the brain for treating conditions like Alzheimer's or Parkinson's disease in neurological disorders.
 - 4) + Deliver chemotherapeutic agents directly to blood stream in cancer therapy.
- 28) 28- One of the following Routes of Drug Delivery is not suitable:
 - 1) Implantable Devices: Devices implanted under the skin for long-term release.
 - 2) + Ocular: Administered drugs to the eyes for local and systemic effect.
 - 3) Rectal: Suppositories inserted into the rectum for local and systemic effect
 - 4) Vaginal: Medications inserted into the vaginal canal for local effect
- 29) 29- The following are from the advantages of SRT except:
 - 1) Patient compliance is improved

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- 2) Effect throughout the night, so that the patient need not be awakened until morning.
- 3) Decrease in the number of doses administered can result in a time saving for nurses.
- 4) + The cost of prolonged action tablets is more per unit dose than conventional dosage forms.
- 30) 30-The following are examples of transdermal DDS except:
 - 1) + Nicotine Patches: Used as alternative for smoking improvement.
 - 2) Hormone Patches: used in hormone replacement therapy to deliver estrogen or progesterone.
 - 3) Pain Relief Patches: Delivering analgesics like fentanyl for chronic pain management.
 - 4) Scopolamine Patches: Used to prevent motion sickness.
- 31) 31- The following are from the advantages of transdermal DDS except:
 - 1) Reduction of dosing frequency and enhancement of patient compliance.
 - 2) Provides controlled plasma levels of very potent drugs
 - 3) Provides suitability of self medication
 - 4) + Provides rapid drug input.
- 32) 32- The following are from the advantages of Parenteral DDS except:
 - 1) Rapid Onset: Immediate effects for emergency situations.
 - 2) Suitability for Unconscious Patients: Can be used when oral administration is not possible.
 - 3) + Requires needles and can cause pain or discomfort.
 - 4) High Bioavailability: Direct delivery into the bloodstream or target area, avoiding first-pass metabolism.
- 33) 33- The following are from the advantages of Implantable drug-delivery system except:
 - 1) Very effective with low side effects.
 - 2) + Difficulty in shutting off release if necessary
 - 3) Plasma drug levels are continuously maintained in a therapeutically desirable range
 - 4) This method is relatively less expensive and less wasteful of the drug.
- 34) 34-Naproxen sodium is absorbed faster than naproxen free acid due to:
 - 1) Higher molecular weight
 - 2) + Improved solubility by formation of Na salt.
 - 3) Reduced permeability
 - 4) Lower pKa
- 35) 35- Intramuscular (IM) Injection is:
 - 1) Injection into muscle tissue (intravscular)
 - 2) + Injection into muscle tissue (extravscular)
 - 3) Injection into blood vessels (extravscular)
 - 4) Injection into blood vessels (intravscular)