Cheatography

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nature of the drug		inhalation	
- appropriate size		Advantages D	isadvantages
- electrical charge		Rapid absorption area) O	nly few drugs can be used
-shape		Rapid effects as IV bolus	
-atomic composition		Provide local action	
		Minor systemic effect	
pharmacokinetics (ADME)		low bioavailability	
Absorption		Less side effects.	
Distribution		No first pass effect	
Metabolism		Dosage form: Aerosol, Nebulizer	
Excretion			
oral route		rectal administration	
	disadvantagas	Advantages	Disadvantages
advantages**	disadvantages slow effect	Vomiting & children. &unconsciou-	
easy		sness	ilability
safe	destruction by GIT	irritant and bad tasting drugs	Irritation of rectal mucosa
self use	first pass effect	less first pass metabolism	Not a well accepted route
convenient	food-drug interaction	dosage form: suppository or enema	
cheap no need for sterilization	drug-drug interaction	transdermal administration	
no need for sternization	not suitable for uncurious, emergency		Disadvantagoa
sublingual administration		Advantages bypass first pass effect	Disadvantages allergy to patches
advantages	disadvantages	convenient and painless	drugs must be highly
rapid effect	not for irritant drugs	convenient and painless	lipophilic
no first pass metabolism		ideal for drugs that are lipophilic ar	
high bioavailability		have poor oral bioavailability	
no GIT destruction			limited to drugs taken in
bo food-drug interaction			small daily dosages
		topical application	
parental administration			
Advantages	Disadvantages	rate of absorption depends on: physical characteristics of skin at site of application and lipid solubility of the drug	
high bioavailability	infectious		
rapid action	sterilization	mechanisms of drug absoption	
no first pass metabolism	pain	simple diffusion= passive diffusion	
no food-drug interactions	need skill	active transport	
no gastric interaction	anaphylaxis	facilitated diffusion	
quitable for emergences			

suitable for emergency

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pinocytosis (endocytosis)

expensive

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simple or passive diffusion characters

common

occurs along conc gradient

non selective

not saturable

low structural specificity

no energy

no carrier is needed

depends on lipid solubility

depends on pKa of drug- pH medium

active transport characters

unusual

occurs against conc gradient

selective

saturable

require energy

carrier is needed (protein)

iron absorption

uptake of levodopa by brain

facilitated diffusion characters

occurs along conc gradient

selective

saturable

no energy is required

carrier is needed (protein)

factors influencing aborption

1. Effect of pH on drug absorption

2. Blood flow to the absorption site

3. Total surface area available for absorption 4. Contact time at the absorption surface

5. Expression of P-glycoprotein; transmembrane transporter protein. transport drugs from tissue to blood

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