# Drugs work on sympathetic Nervous system



Works on X, X, B, B2B3 receptors Are caned Advennings Are called Anti Advennings Orings



Orneys produce action to block me sympathatic menory system

Blockers & < < receptors B receptors Ganglia neuron

work as Anti adremantic Drugs centrally

Are called Anti Adrenergic Drugs

excond: Ganglion Blocker

Orugs work on that method: IV Infusion

Adrenezic neuron blocker

Ongs work on that method:

SymPatholytic Drugs

Centarly Acting on Agonist :

it stimulate contrar or advenovecetturs

it reduce the sympothetic outflow from the CUS

Decreus Me hand pale reduce the vaso constriction reduction of Peripherd vaso construction reduction f

condiac alfut

Reduce The BloodPressur

Adreningic Receptors Blockers

Alph adrematic Bet adreningic Blockers Blocker

Tokely the opposite of advenymyic reciptory

Drugs work on that mechanism:

used in coses of Hypertension

Receptor	Location	G Protein	Second Messenger	Major Functions
α	Effector tissues: smooth muscle, glands	G <sub>q</sub>	↑ IP <sub>3</sub> , DAG	<sup>↑</sup> Ca <sup>2</sup> , causes contraction secretion
α2	Nerve endings, some smooth muscle	G,	↓cAMP	↓ Transmitter release, causes contraction
β,	Cardiac muscle, juxtaglo- merular apparatus	G,	↑ cAMP	↑ Heart rate, ↑ force; ↑ renin release
β <sub>2</sub>	Smooth muscle, cardiac muscle	G <sub>e</sub>	1 camp	Relax smooth muscle; † glycogenolysis; † heart rate, force
β.,	Adipose cells	G,	TCAMP	1 Lipolysis

AlPha	Adrer	neraic	Bloc	Kers
		n s		

# E Beta Adrenergic Blockers

			Selectivity Mon Sclectiv:	Generation: 1st generation	ISA no ISA
Selective Ry blacker	Non Selective	Selective of a blocker	Carclio Selective:	2 <sup>nd</sup> generation	have ISA
	or blocker		Block & & B raceflor	3rd Jenerchion	Intrinsic symposite
			5		Activity
			§ () selectivity: The more	re selective. Ne less side effets	
work on Gy Protein receptors:	Inhibit Phospha lipasec		Non Sclectiv: Block B1,B2		
	↓ IP3 , DAG		Carclio Selective: Block B,		
	1 Inhracellula Cat		S Block of & B raceptor topelator		
			Z Z (2) Generation :		
			<b>₹</b>		
Action	Therapeutic uses 1	Side effect	{ 1 <sup>st</sup> generation; non selection	U. 15 blocker	
VD of veins (+ venous return	Hypertension	Orthostolic Hypokension	S 2 <sup>nd</sup> Jeneration : Carclio Sele S 3rd Jeneration : VD B blue		
vD of orteries [+ TPR& Congesion]	Benign Prototic	[1 <sup>st</sup> close]			
- relax the sphincher of UB	Hypertrophy (BPH)	Dry mouth, GIT upset	B2 agonistic direct VO and a	blackin ellect. Convedice	
no reflex Tachy cardia	Periphral vuscular	(Jostontatiul discus)		Vive in the second s	
	Disers (PVD)	Hearlach & drowsinces	ζ		
	Heart failure	Oedma Pash & Pruritis	ξ B ISA : Interinsic Sym	Puthulic Activily	They act as and yours, but
			<pre>&lt; r ISA [Portial agonist]: </pre>		when the dose theorems
			X ISA [Anta jonist] : Phot		slet
			3		
Selective ory Blocker in Certain h	<u>su</u>		<u>ξ</u>               <u> </u>		
used in treatment & : Benign Pros			E Non selective Beta blackers: Pm		

#### Pranalal: The Goelfuther Cardio Selective Betu blockers (B1) non selective Beta, backs [B12 B2] no ISA Kinetics: well absorped anally [ highly lifothilic]. extensivly metabolized in the liver. (90-95) × bound to PP metabolites excreded in 14 write Action on: There Peubic Uses 2. IHD : Angina - MI Decreas oxygen domand by decreasing cardine work 1. Hypertension I sympothetic flow I adrendine release - antianxiety CN2 3. Partol hypertension as A adventine land case articly 4. Glucoma Increas oxygen supply by: RS 5. Hyper thyroidism . Increasing diastolic corney Broncho constriction G An riely and essential tremuns Prefusion Hme Prevat glycogenolysis - hypo glycemia Metabolism 7. ProPhylaxis in migrain headache . Shifting Subepicardial blood flow 3. Pheochromo cytoma with alpha blockers to subendo cardial flow 6yr \_ 10P due to 1 agenos human synthesis 3. Ventricular and super ventricular arrhythming . Inhibition of Platelot appregation has no effect on Pupil sec Increas K release [ hyperKolemia] The Side effect: CVS Precautions & Contraindications -ve instropte, -ve dromotropie, Heart bronchoconstriction. -ve Chronotropic [ & C. D. P+& Conside work+ & Oz consumption arthy Mmia -1 blood flow to HISSUE branchid asthing Sexual imperment. BL.V Blood Pressure & BP, through: fattyue - dizzyness - vivid alleams - night mers. Portial heart block and A.V block 1 C.O.P cold hand and allergic reactions. Varient angina Periphral vescular chiseas Inhibition & renin velean Prolonged hypogingcense, and mask ne resulting of Lourovecellor hjpoglycemic symptoms. Used with cautions in DM Presymullic B2 Blockade decreases NE release INCREAS VLDL, Trigg corde, and low HOL Cannot be stoped subderly as cannol inhibition I symperiate flow 00110 - euro - Cutaneous syndrome with abrupt discontinution increasive risk of modulation of Pastaglandin synthesis in favore of the (HD KPrezulation of B receiptor Vagodilutor ones as Prostacychin

# Drugs work on paragymperhalik nervous system

# Parasympathomimetics [Chulinomimetics]

Drugs that facilitate or mirrie someor all the action of parasymposition revues system

. They one drugs work on Cholinergic receptors

Muscarinic receptors

Parasympotholytic [Anticholineryic]

Orngs that inhibit or reduce some or all the action of paresympthate nervous system

Druge that works on Oholinerry ic receptors Muscorinic receptors antagonist

Nicolinic receptors antegen of

9mglionic neuromusculor Bloching Ongs Bloching Ongs (Un) (Nm)

## Review ><

Drugs that facilitate or minic some or all Ne action I poresymputatic nervous system [PNS]

also cholinergic drugs

They are drugs work on Chalinergic

receptors Muscarinic receptors

Receptor type Molecular transcluction mechanism M1 2 M3 2 MS Increas + [inasital triphosphat IP3 and Diacylyincent DAG] M2 2 MM Ocreates + [ CAMP] Nn nicothuc muscular Increas intre cellular Southum [depolarization] Nm Increas Intre cellular Southum [depolarization] Nicotinic mueral

Coupling of M2 to adangle Cyclose, through Me inhabition of G Prolein

Coupling of musicarine receptor directly to Potossium Channels in the heart and elsewhen muscarine agonist facilitate oppening of these channels

# Parasympathomimetic Drugs

Cholinergic receptors are receptors that respond to Acetyl Choline and it analogues [nicotine]

Cholinergic Receptors

Muscarinic Receiptors They respond to Ach Found in the surface of the effector cetty [ heavit - Endo thelium of the blood vessies -Smooth muscles - presynoptic nerve terminds-Exocrine gland]

The muscourine receptors have several subtypes M1 M2 M3 M4 M5

blocked by Altrophy

block he action

Mechanism of action of Muscarine Receptors

GProtein Coupling of [MI-M3] to Phospho lipere C

Release I second messeger [ IPS and DAG]

evokes in release of (cat) from intercellular site . resulting in contraction of muscles

Nicotinic Receptors

The respond to nicotive They one found in [CNS advend medullaautonomic ganglia - Skeletal muscles

The nicotinic veceptor has 2 subtyps Nm: found in motor end place skeledd muscle blocked by Currane

> Nn : found in autonomic ganglia and actrend medulla blocked by gangtime brakers

> > modulele the action of proton Kinese [ Important is Secretian]

Ach : Acetyl Choline

## What is the action of Paragraphomimetic Drugs?

2. decrees & blood Pressure : as it cans vasadilution. by indirect mechanism of action in as accept chaline Activity. M3 receptors found in endothelium smooth muscle in blood vessile. This result in the production of Nitric Oxide, which diffuses to Vascular smooth muscle calls to stimulate protein Kinose G Production, leading to

hyperpeterization and smooth muscle relaxation.

Eyes

Stimulating cilling muscle contraction for near vision.

Constriction of Pupillae Sphilter Muscle Carry Missis [Munited Muscle Contraction of Pupill Stimulate tears Reduction of IntraOcular Pressure 10Pt

Branchi GIT Branchaconstriction Increas solver scretion and stimulate intestind scretion matality

Genilouring tract increase the tone causing expulsion of the wrine

Cholinergic agent adverse effect:

Bradycardia & Hypotansian

miosis - lacrimation - Sullivition - sweathing
 ungency and spontanous micharition
 Branchaspean and t branchied secretion.
 Colic - vanilying - cliarrhed - hyperacidity & Peptic ulcer

General contraindiction of Pora sympothe mimetics:

Brady Carclia - heart builuz - Heart block Bronchid asthma Parthinson Peptic ulcer mechanical ubstruction of GIT and wrining blodder

Remider 7

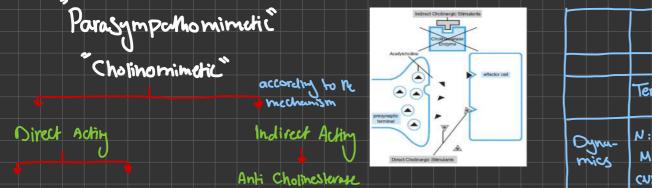
found in lec15

	Sympathatic	Parasympathatic
	action	action
CVS Heart	Increase all cardiac properities	Decrease all cardiac properities except atrial conduction
Blood vessels	VC of skin and mm VD of skeletal and coronary blood vessels	Non innervated
Blood pressure	Hypertension	Hypotension
SMF	Active mydriasis	Miosis
Bronchi	Bronchodilatation	Bronchoenstriction
GIT	Inhibit motility of wall Contract sphincter	Contract wall Relax sphincter
Urinary tract	Inhibit motility of wall Contract sphincter	Contract wall Relax sphincter
Sex organ	Ejaculation in males Relax uterine wall in female	Erection in male
Exocrine glands		
Salivary glands Sweet glands	Thick viscid secretion Increase	Profuse watery secretion No effect

#### Action related to stimulation nicotinic receptors:

Nm: Skelet muscle twitches

Nn : in Autonomic ganglia and adrend gland so increase E and NE [adrendim or noraclinen dire ]. so types tension in atrophinized cloge.



Muscarinic Nicolinic receptor receptor agonist azonist

Le Cholines caters - Alkaloid Stimulute musicirinic receptor directly

Infi	Choline	sterase	
Rei	versidele	Inrei	jursd

They inhibit Challnestense enzyme, leading to accumulation I enclogeness Ach at both musicamic and nicotinic receptors.

scaps)

	Acetyl Cholin	methacholine	Bethanicol	Carbuchol
nicollnic	+	-	-	+
muscurinic	t	+	+	+
N.B. ne Ac	ver given Ch neven	iv or M Jiven Ored		

	Reversible	Irrevursible
binding to enzyme	loose	frim
enzyme octivity	Can be regained	can not
Action Juration	Short	1000
	Physiostigmin	Organo Phosphons Compo
	neostigmin	Ecothio Pele (anti glucona)
	Edro Phonuim	Mula thion - Parathion (arti MCHTi Phontak (arti helminthi

nv	vevs	ible	An	hich	olire	. K	We.	K :	
		o Pl							
01	J		- J			10			

have the capacet to bind covalently to Acetychatin esterage.

The result is long histing increas acted choline of all sike where it is releated.

many of these drugs one toxic : ?

Brady Cordia 2 hypotension
 Constricted Pupill (Missis)

Tightness in the chest with elysphea

nauser - vomitting - abdomind colic - diamtrea

Increas in Sullicition and Sweating. muscle twitch

convulsion

	Physiostigmine	Newstigmine
	Natura	Synthatic
	Terticing amin not charged can Poss the BBB	Quaternury amine cannot Bus BBB
Oyna- mics	N: majory on eye M: muscle twitch, no direct action CUS: Stimustion	N : GTT- Uninary M : Muscle twitch, direct stimulation CNS · no
USES	Ht of alzheiner cliseuse Glucoma Counteract action of mycliatic Alernative with mycliatic to Cut recent activesion iris & less	Mythenia gravies Autolat ha Curare taxicity Paralytic iles Post-operative wrine rehablan

Moneyment of organophosphorus poisoning: endotrached whubshion with ortifical respiration Atrophic (2mg W) with the signes 1 obsphildion appear ( dry mouth - dilated pupill - Tachycandiu). Frontationale to check convulsion. Fresh blood transfusion.

Skimes [PAM 2 Practimes]

The treatment with onlines should be within hours [2gm with \$35 Destroye IV drip]

Illing Produce their effect through: Direct reaction with inhibited enzymes. Reactivation with inhibited enzyme.

### NICOTIN AND SMOKING:

Mechanism of action ;

- Stimulate sympathetic gonglin and adrend medulla. Releas catacholumines from nerve end and chromoffin cells.

CVS ... The conditionescular effect of nicotine is due to increase releas of adventuin from Suprarend gland as a result of stimulation of nicolinic receptor in Suprarend gland.

Tachy Cordia -> Due to Increas Cardiac out Put Increas excitability \_ extrasystok Angina \_ One to makes he cardine work without commy dilution vosso constriction of all blood vessles, leading to: Hypertension, due to construction of systemic orterioles

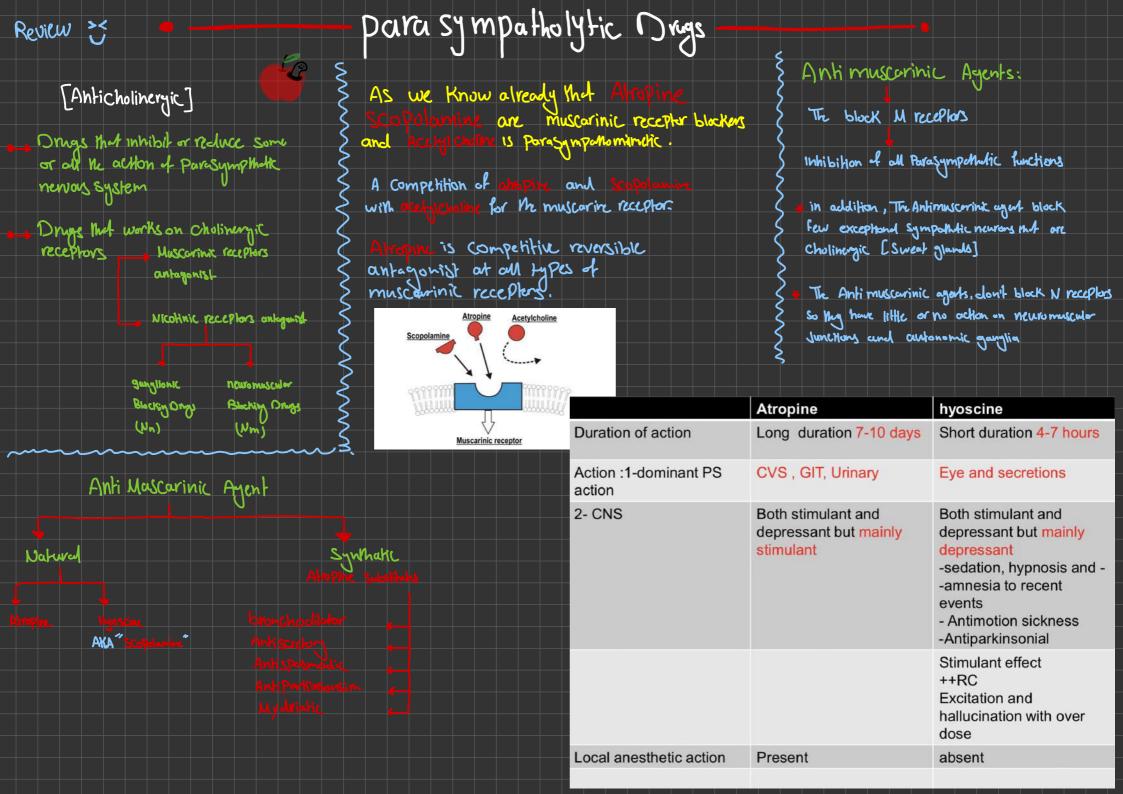
Refinal ischemia and scotomula [ localized loss of vision due to constriction of retind contenioles] Periphrid Ischemia due to Peripheral vascular disease. Terratogenicity due to constriction of uteritive tolood vessles in programment woman

Free Faty acid : Platelet Stickiness - ownerssclerosis - Thromposis.

nicotine lozycenzes are used in freetenet for addiction Uses: of cyarette Smoking.

> They maintain long standing minimal concentration of nicotione in plasma not prevent symptos & nicotine with drawd

now replaced by



## First ATROPINE

Mechanism of action. is competitive antegonist to Ach of N1 M2 M3 receptors

Has Parasymputhtic effect on;

Heart: low close \_ mitral brady carelia larger close \_ The careliae M2 receptor 13 blocked Man increas in the heart role

Circulation: Therespectic use - no effect due to lack of Parasympatholic innervation to Vasscular beds blood ressiles.

nopline : revers hypotensive effect of Ach - Combacol neostymine (M-N) action

> It abolish hypotensice effect of Methacholine Bethanccol - Pilocarbine (M) action only.

Possive myddiosis Cycloplezia [inability to Powed For near vision].

- + 10P & 1055 -f 11ynt reflex 2 & Incrimation

Bronchioles GIT

SMF

type.

Bronchodilation & tomochind Secretion Used as antisposmodic to reduce the activity of GTT. I gostric motality Halis not produced to not very affective in heating of Peptic ulcer is M1 mascarinic antagonist, is effective in reducing gostric act d screetton

## Urinam System:

recluce hypermotolity stole in the wrincy bladder Occasionally in environs in Children

Eme Provisium is before than Altropine

Secretion In hibit all body Secretion [ bronchid - Saliva - lacrimol - sweat] G almying effect on membrane [ xerotsomia] \* Except in [ Milk - Bile - Unine] sacution.

CNS Stimulant 2/3 and Depress out Stimulant: Therapeutic dose stimulat C.IC leading to mitted bready cordia If it is given W

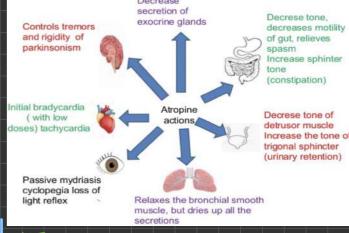
large close Stimulate R.S. leading to tachypnea

Toxic closes causes: resticss ness hallucination delirium followed by depression and coma.

Depression: Muscle tone [Parkinsonian effect = treatment f Ngjiclity and tremar in Porthinsonism]

Vomitting center [ antiemetic effect]

it has local Anesmetic effect



#### Therapeutic uses:

Preanesthetic medication:

Counteract excess in veget tone during operations

Solivon Secretion [Prevent broncho pneumonia.

↓ bronchin secretion [Prevent lung collaps].

Treatment of physic stigmine and organophosphory toxicity.

Parasympotholytic (systems):

CVS: heart block due to [ infraction and digitalis toxicity]
 sever bracky carella.
 Ege: fundus examination [ clerivatives is better]
 clue to long duration & action.

Respiration: bronchild osthima Lipratropium is better]

GIT : Intestind colic - antidiarrhed - antiemetric - Peptic war

hring: renal colic-nocturnal enurchis [Emoproniuan is better] Secretion : hyperhydrosis [excess sweeting]

CNS : centi Ponkinsond

#### Side effect of Atroping

Dryness of the mouth, blurred vision , sinus teichy Caratice releasion of urme especially in ald Perfiet with enlarged prostate. Acute glaucoma: old Patient on more Susceptible Increase tempretue in Children.

#### Contra indication of Atropin

Tochycordia or arrthmia. Gloucesma. Constipotion or powalzhic ileus. Senile enlogment of prestok.

#### Acute Atropine Poisoning:

Parasympowholic depressant symptoms:

- Drymarth Terety couldid My drivers 1055 of accommodution - decurres sweety [four]
- Skin: hot-Dry-Flushed [compensation superficial Cutaneous vassadilation to Increase hear loss]
- CNS : restless excitment hallucination mania delirium - depression - deuth

#### Treatment of Altropine Poisoning

- Gastric lavage orally\_Arrificial respiration-Ice bages\_Alcohol => Decrease fever
- Pavasympathomimetics [ newstigmine, is specietic and clot]. & Sectotive.

### 190 Scine [ScoPolamin

Precurethetic medication Preferred to atropine bcuz it produce more CUS depression. it is potent annesic, stronger andisecrity and antiemetic

#### Any spes modic

Prophylaxis for motion sickness Sedetive in mania Antiparkihsionian aged.

		Atropine	nyoscine
	Duration of action	Long duration 7-10 days	Short duration 4-7 hours
	Action :1-dominant PS action	CVS, GIT, Urinary	Eye and secretions
bs ahropine ion. robum and	2- CNS	Both stimulant and depressant but mainly stimulant	Both stimulant and depressant but mainly depressant -sedation, hypnosis and - -amnesia to recent events - Antimotion sickness - Antiparkinsonial
			Stimulant effect ++RC Excitation and hallucination with over dose
	Local anesthetic action	Present	absent

#### Main alinical use of muscarinic antragonist

CVS: treatment of sinns broudycandia (after M): Atreptine ophthalmic: to dilate the Pupil: trapicanned eye drop or agele pentrolate eye drop (longer acting) neurological: prevention of motion sickness. Mussione orally or Transdormany. Parkinsonism especially to conteract movement disorder caused by antipsychotic drugs benzhopine

RCSPiraton: asthma pratopium by inhabition.

Anasthetic Premedication: To dy secretion: e.g. Alugine - Hyssine [However, current anosthetics relatively non-writing less important]

GIT: to facilitate endoscopy and gastro intestind radiology by relatedian of GI smooth muscle Antisposmodic action Hyperine

as antisposmodic stritable bower syndrome or Colonic cliverticular disease

To treat peptic ulcer diseas by suppressing gastric acid secretion Michzepin [MI scleatice antigonist] now less used

Inhe duction of Misterine H2 antigonist and Proton Pumb Inhibitors.

# Eicosanoids —

### Eicosa [Grek] = 20

5

			Eicoso	inoicls			Unsaturated		Soturoled
They are compound	. Nut one slived form								
	yacid with 18220222								
Combon Skeleton.		Prastaglandins Pr	estacycling	Thrompokanes	Leukotrienes	Lipoxans	Monounsuturted	Poly unschwarded	
That needs reces	tors either plasma membron		GIL	TX	<u> </u>	LX			
or bindry Protei	w.								
	Stimuli [ligeard: Physiological e	sr Pethologice]					Arachidonic acid	linolenic acid	lindeic oer-
							U clouble bond	3 chamble banks	2 double bourds
ମମ୍ଭର୍ନ୍ନନ୍ନନ୍ନ	oppopp Arachilonic a	دیک				5 00			
<u>ዋቀቀ ምምያዋ</u>	3000000 esterified in	membrure					- TX A2 - LTby :		
Corticoslerati _ P	hesphelipole Az Phospholipid	LPGE 1	- PGE2	- PGI2]:		3 <b></b> vc	- [ LJ Produce Inflamm '	ไสน	
CorHsu]						Z 🛶 lung	: broncho spalm [sever]		
Arachidonic	Acid	Bio	ological e	ffect:			: mucus production	<b>\</b>	
┝╴┢╾┥╾┥┺┿						S- uteri	n: : contraction of pregn	ent when s (in labor)	
		VC	) (Physiol	gicly]•		S- Kidh	ezz : RBF . promot	write borndian	
Lox	CUX1 COX2						V and wrine out Put	(mg) cause read fuiled]	
- Zilenton	Inducible - Aspirih irreversible - USAND reversible		- Brow	cho dilution		STX A2	Pictetal aggregation		
	Chilo methacin Pheny briege	GП	++ 1	mucus Production	•		Cheme taxis		
leukotriens(LT)	Prostanoids:					≥USES: P	СЕ1:		
	Prostaglandin PG	Uterin	Cont	raction of Pregna	white there (m labo	n S to Pro	cluce controlled hypotens	sion	
	Prostucyclin PGIz		relay	iotion of non P	regnot whereas	S intrace	vernous in coses of imp	Solance Cerechile objes for	verken]
	Thrompokane TXA2	Kidne	<b>∖</b> ++	Rend Blood flow	(RBF).Promot	Fried o	4 U-Sodilchar in Periphred	vosculor diseases	x blockez]
			urin	ne formulion, an	I wrime out Put	ξ TGV :	. Tronsposition of Grat ve	ssels [switch between	Pulmonary and Aarha]
Prostaglanis are	more produce in time of	heit	> removing	y waste out of	the bady.	< MisoP	roshil (Cyloke) PGE1 an	alogue used orally in Pe	Phic wheen
Fever - Pain - No	ousea and voniting-Inflammatic			<b>5</b>		Epopresi	enol [PG12] anti Ploteid	- aggreg Hen	
			: Plote	t aggregesion (	(no thromposis)		1. Used In bronchiel on		Josef
						2	2. Used in organ trans	plantition to revers	rejection
						ZPGE18	PGF20: For induction of	abortion and labor	
						} PGF24 :	(latanoprost) used topic	lly in treatment of C	laucoma
						FGs:+	+ Rend Blood flow (RBF).	Promot urine formed	ion, and wrine
							t Puto help removing w		

Fatty acids

### Prostacyclins (PGI2]

Are type of eicoscanoids / Prestaglanding Principlly found in Vascular endothelinin They prevet platelet aggrezation [Inhibitar fultors] Biosynthesized by engine: Prostucyclin synthyse

#### The role of [PGI2]

They are vesselictor They inhibit Platelet appreption They prevent thrompus / clar formation

#### Thrompoxane

They are produced by Thrompocytes (Plotelet) They are an formation of blood clot (Plotelet anyregotion) Reduction of blood flow to the site of blood clot by UCSO construction of

They increase lymphocyte Prolification They morease branchoconstriction

## Lipoxins

Ductor Said 18 Jun Went to Kinon it anly .

are Eicosand, Produced in leukocztes in humm bulg. are essential in maintaining tissue homeostatis and resolve influencition

#### Lipoxins one:

Vossoachie (v-sa-tildar Anti Inflammakay Anti Prolif-rathe C

Pro-resolving Inmunoregulating Chemotochic substance

#### Leukotriens (LT) [ITEn-ITCN-ITON-ITEN]

#### mechanism of action

Kinin act by Stimulation 2 types of Gq Coupled receptors, Mut increases intracellular (Cat), Mircuigh increasing IP3 and DAG

#### Effect of Leukorriences:

LT are biologicly active compand of slow reacting substances [SRS-R], causes fluid leakye form blood vessels to influenced area.

1] are 100-1000 mure potent than historium in allengic reactions. [SRS-A] one released during Allergic/Anaphylactic Shock.

LTBy is Potent chemotactic agent: Chemical substance which medide movement of cells.

Leukotriens action: Broncheconstriction Versoconstriction

The levels of LT is increased in : Allergics Allergic rhibitis Asthma over production of LT is in Anaphylactic shock

Drug affecting; an antiasthmatic day. Preclaisone mhibits LT biosymphois.

lun liluored - Zariviluzozh : block receptors Illulen : inhibits IlPosxeyenore crzynes

## Role of Drug:

induce preduction of the preduction

Occures up in hildrif the activity of Inflammatery the synthesis of the phospholipose Az respons kentlobriers 2 Prosta Jandius

#### Pharmcoligic pplicetions on Eicosanotes

Carchio Voscular: Pulmonory arteriol hyperborlion-Penpherl voscular discos, for Keeping the chuckus cirkeriosus open untill surgery in neon the correcting certain condice malformation and Plateletanti ajgregition agent

Dijestive: inclicates in the treatment of grattic doublend when and for the Prevention of NSAID - induced wheer.

Gynecolog & Abstrical: They induce cerical dilartition and uterine contraction, Particulary in late Pregnancy used for medical terminition of Pregnancy and Maduchian of water

AphMulmologic : 4 IDP (lowering)

Anti Inflummeton: Inhibitors of cyclooxygenge that have anti inflummetog proparties including non steroidal anti inflummatog drug USAID

The useful effect of Neverpentic use one: Anti inflummetory effect Analgesic effect Inhibilition of Plotelet oggregation and sheareds Narombuembolic VISK [ well known with oggivin with low doge]