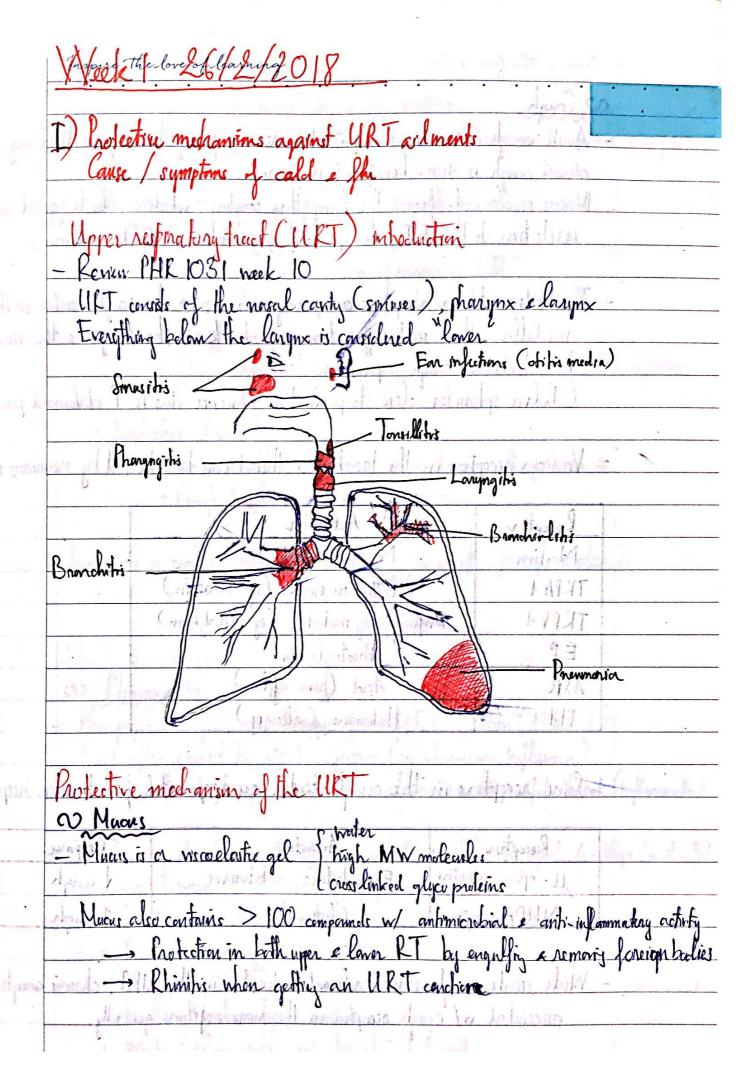
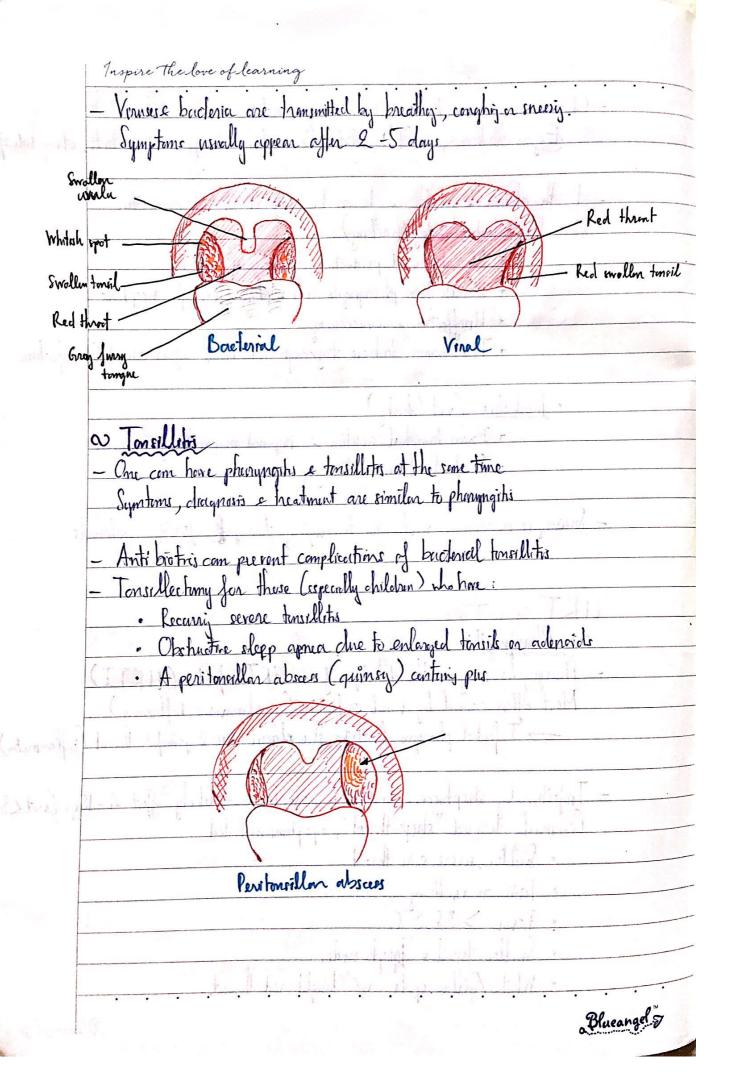


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| Inspire the love | oflearning | | | 1 |
|--|---|--|-----------------|----------------|
| w Cough | | Company of the compan | | • • • • |
| | s considered importan | t m remony loneium | balies from | the ling, bu |
| chronic comph i | is non-beneficial i | ngeneral. | | 0 - |
| - Mucus is clean | ed from the ling the RT, due to | thru coughing, n) | hich can be fr | 'ggered or |
| probation to | the RT due to | allergie reaction. | COPD ash | ma, |
| | | J Jay 18 1 | | _ |
| - Instembs acti | rales acceptors on se | nsory newors to | the cough con | ter in the |
| medulla | rales acceptors on se than sends effectent a | nersage back to | the larynx & | the muscle |
| TO MITHING | CC (CILCIN ALSDWIJE | | | |
| (Pelvie sph | incles close to previ | ent montmence d | ne to 1 absor | mind presence) |
| ¥ | to district in | - manage is | | |
| - Varions recept | Fors in the Irochea | a throat can be | cichivated by r | umeron stimuli |
| Say feely | N Park | And the same | | |
| Receptor | Activat | A STATE OF THE STA | | |
| Nicotinie | | smirke) | |] |
| TRPAI | J v v v | vke (eg. acrolein) | | |
| TRPV1 | Inflommatory media | or (eg. brankykinn |) | |
| EP. | Prostrigla | | | |
| ASIC | Aciel Chor | refflix) | | |
| HA | Historine (| allergy) | | |
| | | | | |
| Sime receptor | s in the cough co | nder are desponsit | ble for tursi | ve response: |
| T 0 + | Activo | der dela | Respons | e 1 |
| Receptor | 20-32-15 AV 1W | | 1 congl | |
| | 100 | | 1 cough | |
| NMDA reagi | rus Charles | #1 - + / | i della. | |
| 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | | L | TIRT classic | couch is more |
| While acute con | ugh is more relevant | 10 Acceptors in the | LINI, WWW | COMPLE 13 HAD |
| aurociated w | I caugh receptor in | the nonon system | generary. | |
| | | | | |
| | | | B | lueangel 5 |

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|--|--|
| - Chronie cough can be consed by various conditions Eg. Asthma, COPD, GORD, consistent exposure t | wak s |
| Eg Ashma COID GORD consistent exposure t | o pristante drum side elle |
| () () () () () () () () () () | and and and |
| - Both channe a cute cough can be improductive or produ | re tree |
| · Umproductive (day/hackery): | |
| | |
| + Results from phenyngitis or instalan of cough re | certais |
| + Marth the e unrecessary | ford pel |
| + Uneffective & unnecessary. + Itis common to have dry cough for liver after | an URT julection |
| This common to revie or in contract agree | Mariet |
| · Productive (wet/cheshy) | |
| + Exces branchial secretion & impaired mucocillary of | learance |
| + (augh to loosen a bring up excess mucus | Wind To |
| in many of adjust use toutered a comment work | |
| - Sneezy is a similar mohemien to coughing to expell Joreign | malerials |
| the it have bushed for embudges there was noted | tiA - |
| 110 T I had Capital March and make make the | |
| URT symptoms | 9 |
| ~ Phanyngihis | 9 |
| - Phonomathe may be the 1st some of an UKT mechin CH | RTI) |
| - Phenyngihs may be the 1st sign of on UKT infection CU Most often caused by viral infection Cig rhinorisms, influen - Infected phanges leads to the classic some a painful | 77.4 |
| Tolested pharmy leads to the dassie some a painful | throat (inllamon tu) |
| Typerse priviles survey source side a pringip | |
| - Infection by streptucocus bucteria is musual, most likely affect | + 4-1540 (not (3) |
| Commonly termed "strep throat", rymptons included: | |
| · Snolden, severe some thront | |
| Pain on syallary | 422 |
| · Fever > 38.3°C | a gradina jako ka ika |
| . Swollen tonsil e lumph nodes | |
| · Smollen tonsil e Jamph nodes · White/yellow spots m/ bright red throat. | |
| | Blueangel 5 |
| the state of the s | O. T. S. |

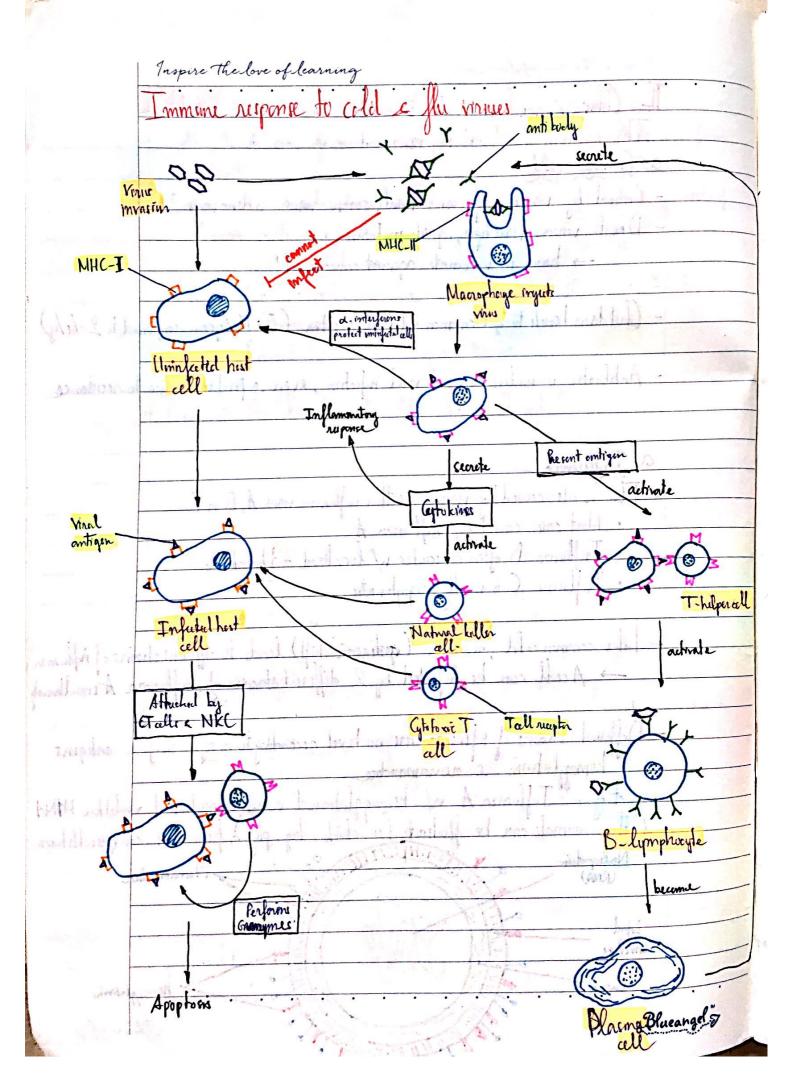


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|--|
| N Langartri |
| - Lorengitis is inflammation of the largers & produces symtoms eg. a house voice |
| This is due to the abolination of the rocal couls |
| White will be both from the first both is the color |
| Headache, Jever e cough mong be associate |
| alacable Vicence |
| - These symptomy stant and donly a worsen in 2-3 days, but usually improve within 7 days w/o treatment |
| Florida / France monitor & Adde w |
| - Largnaitri, pharipagitis a tonorllihi are coinsed by same viruses that cause common cold on influenza |
| La di sa la a la la dita la |
| Laryngihi com be comed by shorty alot. |
| |
| Monagement of sore throat Non-phum & phumalogical aphons: |
| - Non-phirm & phirmalogical ophins: |
| · Gargle w norm sally notes on suck on an icecuse |
| · Drink het mater n/ lemon a hong (shertlashig) |
| |
| · Suck on a thront lozenge (some confum NSATDs) |
| |
| · Garale w/ a some throat garde on me throat some |
| · Grangle m/ a sore throat gargle or use throat spray + Same gengles contrain local analgeri (eg. benzoccurse) + Others contrain povidone - rodine (contribucterial & antisinal) |
| + (There contain midone - radine (confebrational & ambrical) |
| CITATO CONTINUE - 10001114 COMPRECIONALE CONTINUENCE |
| - Restry is always and distale elentred water a non alch li thirty |
| Tan reliere mus e leves marginal NCAD and and |
| Antibiolis may not be useful assent les of the the by |
| - Restry is always good, chikk plenty of water a non-alcoholic fluids - For relieve pour a fever, peracetumed, NSADs can be recommended. Antibiotic may not be useful except for strep throat or secondary infection due to immuno compromised conditions |
| TO THINK OF THE WASTER OF THE PARTY |
| |
| a Blueangel 5 |

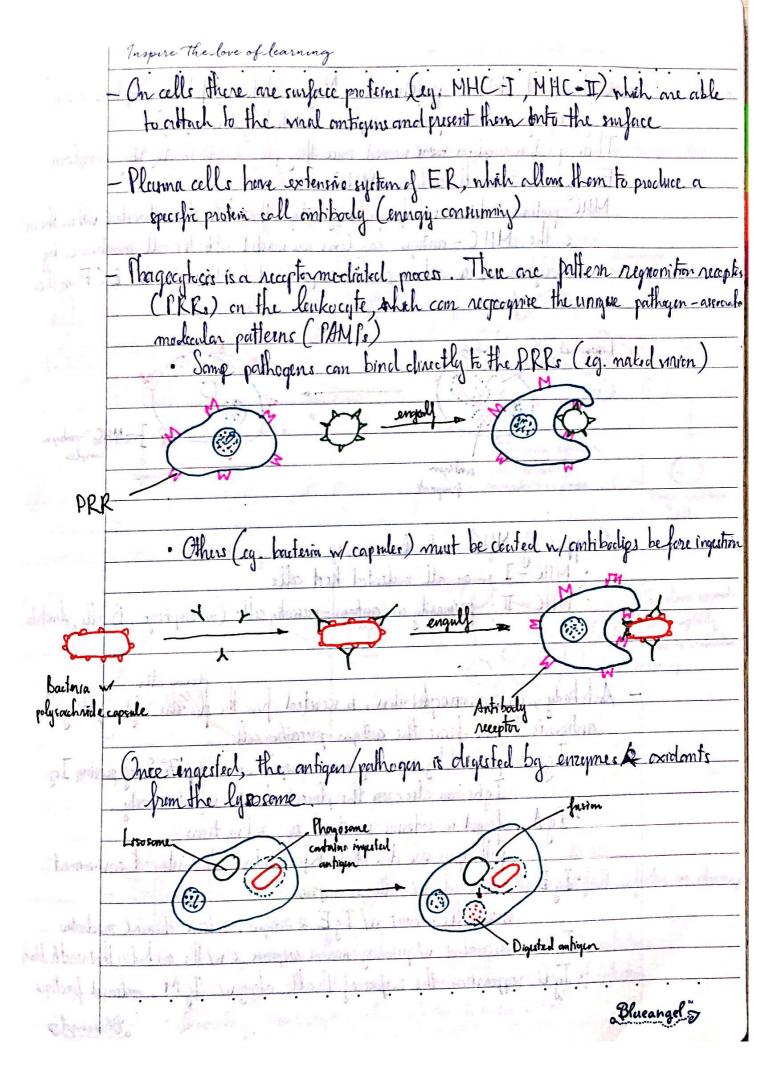
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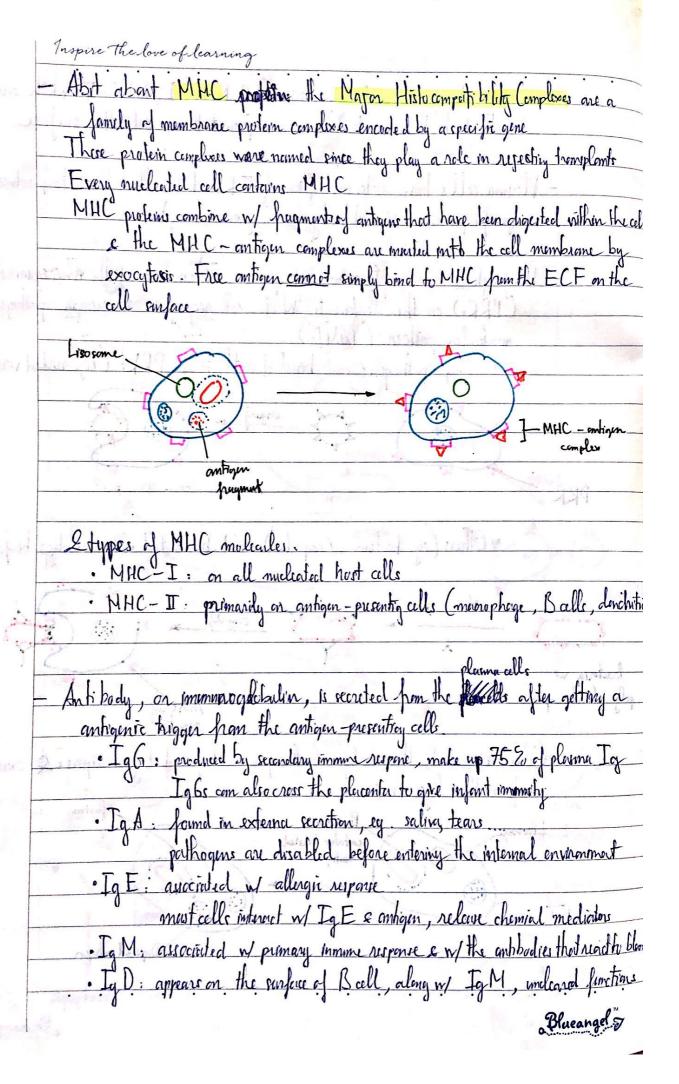
| Inspire the love of learning. | |
|--|------------------|
| CARER profocal - CARER is one of various protocals that can be well to calle pathents | 30 |
| - CARER is one of various protocols that can be well to colle | rte info from |
| perhants | |
| Later will be introduced to the Monash Idadel of Care (MM | oC), consists of |
| 4 moin pents. | 1 |
| · Connet/Collaborate | 1 - |
| · Acces / Apply · Recommond · Educate / Ensure munitary & Jellow up | |
| · Recommend | |
| · Educate/Ensure monitory & fellow up | 1 |
| 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| - Refor to the hand-made APF note in cough" | |
| | |
| | |
| Teach of the state | 14 3 |
| The second secon | 1- 3 |
| The state of the second of the | |
| (deiled) and a colly by blied. | |
| | |
| we is largered notes and most to it our ship. | ·· |
| | • |
| and lovely white down loved was a full years. | |
| the second of the second of the | ·- |
| Landon Dividal In Jack - 10 19 in the in Hill | |
| | 1 |
| took op the man is now by talk the time with the | |
| it was by 1000 to be your goods | SI |
| there is it is the floor floor the real helder | |
| Ala brief of carried of | |
| | |
| | Blueangel |

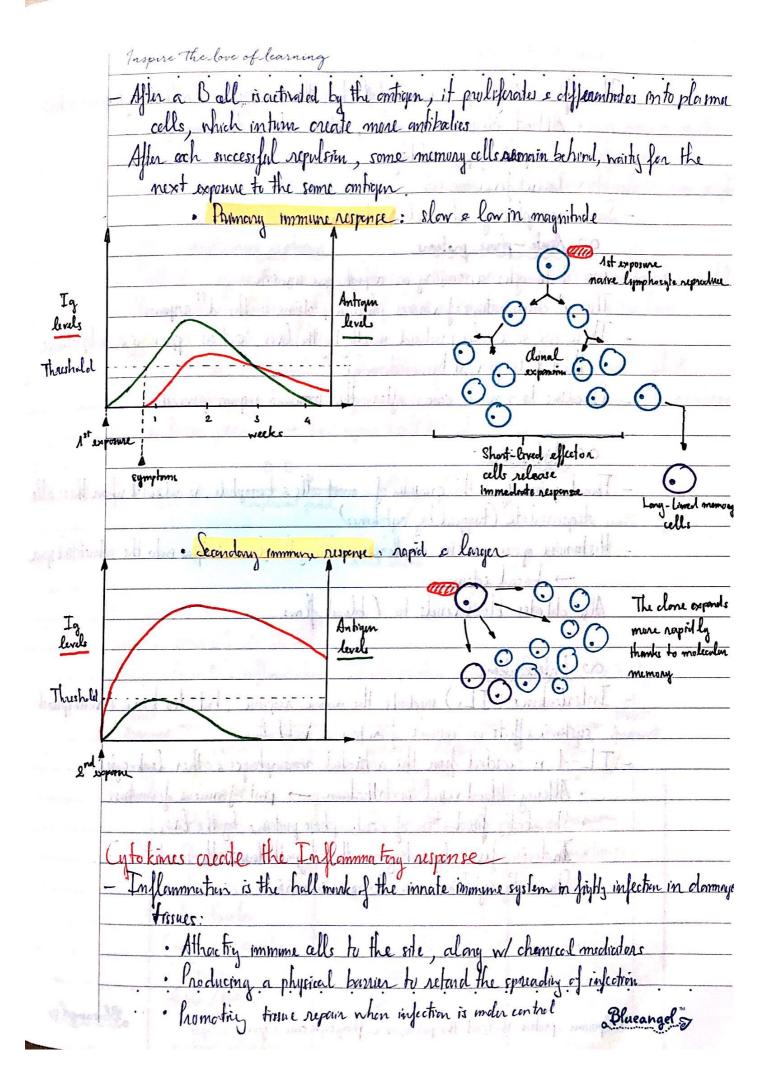
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|--|
| II) Cance / symptom of flu a cold |
| The common cold a mfluenca |
| a Common cold |
| - Consed by viruses ey. shistorism, corona virus, adenovirus |
| - One to various virus types, quick mutation |
| -> hard to vaccimente against common cold |
| |
| - Children tends to get common cold more often (5-10/year componed to 2-4/y) |
| - Antibiotic is nucleus against mal infection, even a problem due to resistance |
| The state of the s |
| as Influenca |
| - Flu is also courd by viruses, either influence virus A, B or C |
| · Most case carrel by influence A |
| Influenza O often organiales of lucalized out break |
| Influenza C is envertly arguntamentre |
| Let (ast - 1-1) land to chlore to their and influence |
| - Like common cold mutation (quitigenia shift) leads to different shains of influence - Acell can be injected by 2 different strains of influence A simulment |
| - Hen can be imported by 2 your or will by |
| - Different shains of influence are numbered according to major surface antigens |
| hamana in binting & managaminilage |
| Eg. Influenza A W/ hamogglutimm 1 e neurominidare 1 montal be HIN1 |
| Other animals can be flu host (eg. chick, dag, pros), from which can spread to human |
| Nucleoprotein (RNA) Neuraminidase |
| |
| Lipid |
| - linvillage He may habour |
| Capsul Memogglutionin |
| a Blueangel of |



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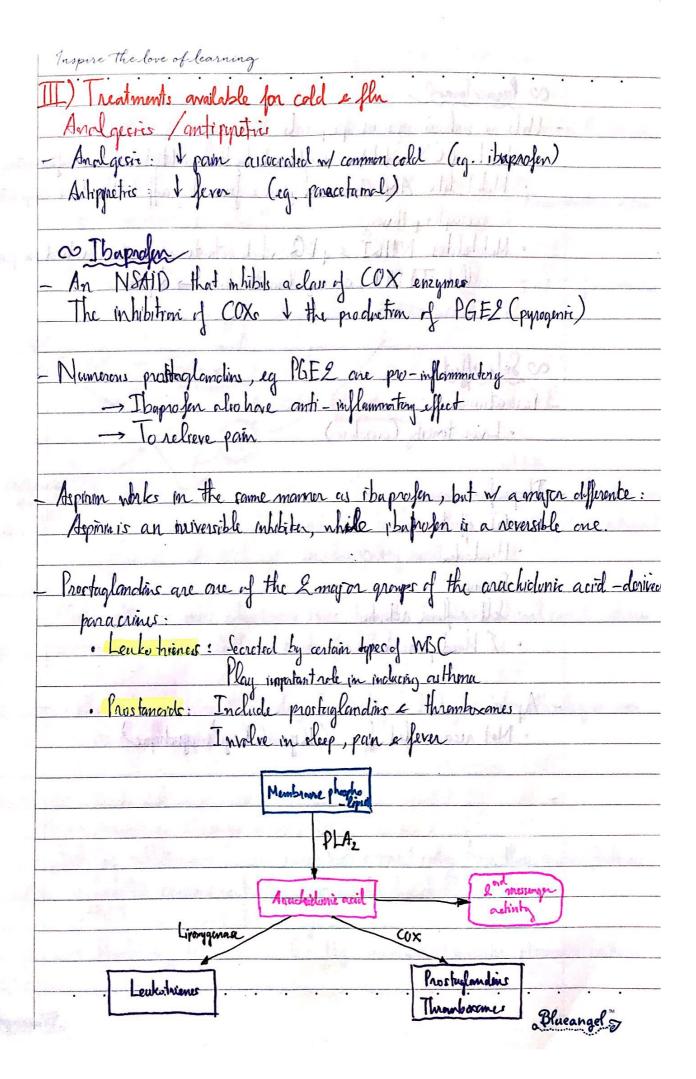






| | Inspire the love of learning | |
|--|--|--------------------|
| ent plan | The inflammating response is activated when the manuphages release cyl | okines, which. |
| | . Aftract other immere alle, in turn release their am cytokines | |
| H 4/L | · 1 Capillony permeability | Sun garde |
| | · Caux Jever | |
| - | Some examples of chancel medications: | A Company |
| | N Acute - phone proteins | 1 |
| Lagre of supplies | Immediale after an injury on a pulhogen inverin | 1 10 |
| Maria and a second | The I concentrations of various plasma proteins is the 1 response | , hork |
| - | These are malcades produced mostly by the liver, out as appointed | antiprotease |
| | that help prevent tissue damage | h jerisir 4! |
| - O- | Decline to normal conc. after the immune response proceeds | A |
| | 02112 | eyed o |
| 0 | Found primarily in the granulus of most cells & basophile, is relacised wh | non these alls |
| and the same of th | | |
| - 1.1.) (3) | Historian opens possin capillaries, allow the plasma to flar into the | interchitral space |
| | -> Local ectema | 1 |
| The charac company | Also delater blood vessels to 1 blood flows | |
| I ligar were | CO Management | Rock |
| ndicities of shines | ~ Interlencina | |
| _ | Interleukins (ILs) mediale the immue response, but also have a | n wide spread |
| | systemic effects on imme function e metabolism. | |
| and the same and | IL-1 is ceareled from the activated morouphages eather lankacyt | es av |
| | · Alterny black vessel and thatim - part of mucus formation | |
| | · Shown losting production of acute-phase proteins by the liver | |
| | · Inducing fever by acting on the hypothalamin thermostat | |
| poods acado la | · Stimulating cytokine a endocrine recrition | |
| | The state of the s | |
| 2. | by a formand by provide a size of the of the samples who offer a | |
| 17. | Language Traple of Second Designing of Second 1 | · · · · |
| * (| pronon: protern that couls the pathrouns so phryccyte com regionize arrogest | lueangel T |

| Ins | pire the love of learnin | 9 | | | | |
|---------|---|--|---|---------|--|--|
| 100 | ~ Bradykimia | | | 0 | | |
| - Ki | nins are a group of in to the congulation of | caucade, where the final p | et involve in a cascade son noclust is brady kommi , but also shimulates pain | | | |
| (| V Complement protern | J. | x 1 | | | |
| - C | allection of 2 L5 plan | ma profess e cell-membro | me proteins (complement cas | corele) | | |
| Va | nions intermediates of t | he concacle act an opson | ine proteins (complement casins, chemical attractoms, | | | |
| | martall degranulat | | | | | |
| _ 7 | a carcade ends w/ | the fermention of membro | me attack complex, which | | | |
| | is a group of lipid-solu | ble proteins that insert th | me attack complex, which emselves into pathogen men | nbame | | |
| | e form pare - 1 | athogen (all) swell a | lyze | | | |
| | | | 1 | | | |
| | Complement proling | | | | | |
| 1 | andres are established | | smill a lyee | | | |
| | | membrane attack complex | | | | |
| - 4 | and the same | 1 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | March scene and | | | |
| Suca | nptoms of cold/ | 10 | | | | |
| Tann | and alconocil & nollemone by | ny responses produce varging | sumptions in the boda; | | | |
| -19/11/ | ivitização = maistra e | | | | | |
| Lea | ruent - | | Most hequest | | | |
| | Never Ctear | | Common Usral | | | |
| | Superption | Cold | Flu | | | |
| | Hendouche | Occusional | Common | | | |
| | Stuffgrove Common Sometimes | | | | | |
| | Sneezis | Ugnorl | Sometims | | | |
| | Some thruke | Common | Sometimes | | | |
| | Cough / chest discorps | Muderoile | Common / severe | | | |
| | Faver | Mild | Usual,>38°C | | | |
| 138 | Achi / Pain | Sometines | Usual/severy Usual (2 streets) | | | |
| 1 | Fa highe | Nuca | Money (2 siveles). g | | | |

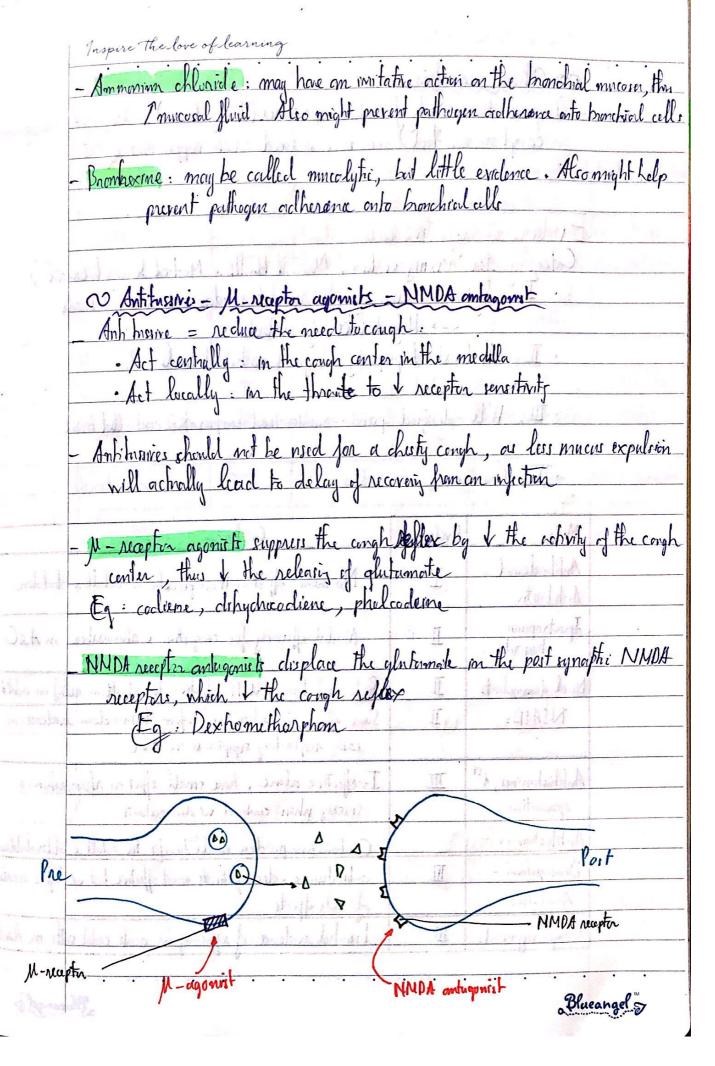


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| | Inspire the love of learning O Parace Fumel | |
|---------|--|------|
| | - Unknown mechanism, some proposals: | lhet |
| | - Maknown methonoun, some professes. Weak COX inhibitor, emphasized by the mability to have anti-inflormationy e Metubolite AN404 can I pain a fever by affecting the thermoregulation t t | 11 |
| | · Metabolite AM404 can v pain a jever by agraing the |) |
| | necicepter pathway RA [] + 1 - mater involved in ordin | Stai |
| | Metubolites NAPRI e pBQ, which activate a receptor involved in pain | T |
| | called [NIAT] causty desensition in - your | |
| | The state of the s | |
| | | |
| | a Side effects | |
| | - Paraatumal | |
| | · Liver toxicity (arerdon) | |
| | | |
| decide. | - Ibyrofen | |
| .240 | GI effets the sales that the sales are | |
| | · Headache | |
| b-bis | Driver Comment | |
| | · Self a flyet robention | |
| | · I blood prisone | |
| | mother with a fortalism of | |
| | - Aprin by the second of the second of | |
| • | · Not recommended for L16 yo (Reye's synchrome) | |
| | | |
| | Manhouse Page | |
| | Contraction property spine | |
| | i shi i | |
| | Jan Branch Committee Commi | |
| | | |
| | Lipsyman | _ |
| ites | | |
| | | |

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|--|--------|
| Antivor medications for influence | |
| - Oseltamivin a Zamumin are antivinal mede, marking by inhibitis the enzym | ne |
| neurominidase on the new surface | |
| Neura minutas e numotes the | |
| | n — |
| release of the virus from infected | |
| cells to move within the RT | dNC |
| The state of the s | |
| A CONTRACTOR OF THE PARTY OF TH | |
| binding vra Hemagyluhinin | |
| Relew via. Relew via. | |
| | |
| Million 188 | |
| Multiplication ?? When a neuroaminidase is tobon, the view of vinition of vinition attached to the cell a more easily to be entropy | |
| in hospiratory secretion | avc |
| The state of the s | |
| - Oselfamina is more advantagon since it can be formulated as gral copale, where | as_ |
| Zomanniria is available as pender for inhalation | |
| The state of the s | |
| - Both meds are taken thice /day for 5 days, best when taking thickny on seen as the flu symptom appear | |
| as the Plu sympton appear | |
| O to gentrands | |
| I then will trub of my a many many trung and the | |
| Antihistamins e Decenges tomts | |
| - Sedating antihitamines, or al decongestants a noval splay have these common featines. | |
| - Sedating ombihistomens, or al decongestemts a noval splay have these common featines. Limited evidence in treating common cold for children | |
| · Not accommended Min Chua | |
| - Should only be given to 6-11 go on active of a dector, phonoacist un nuise | |
| - Bay to the second | |
| a Blue angel of | • |

| | | love of learning | (179) | 1 | |
|-------------------|--|--------------------------------------|--|--|--|
| | Drug class | Example | News | Side effects | |
| the second | 1 + 1.1° 1 1.4 | Di phenhydromine | - 100 11 | housiners, headache, bluned visin contrat | |
| | Sedating | Brancheniramine | Dry responding | chymouth, minary relention. | |
| | anti histamine | Promethazine | secretion | and the second s | |
| rolan action | Corposed) | Chrosphennoumine | | Paradoxical stimulation (none) in children | |
| | Chal | Phinylephine | 1 noval | Restless, memoror, headache, hypertensin | |
| THE SHOW NAMED IN | de angle tomb | Pseudverhechme | conjection | palpitethin | |
| 34.00 | Nasal. | Oxymetricaline. | Inasal | Local interter | |
| | sprags | Xylvmeturoline | congestion | Rebandmasal congestion if we Sodays | |
| | | /1 / | 7 - 1 - A | an marks to 19 | |
| | For door | & comselling, regar | to APF notes. | Negtrosti | |
| | 3 | The second of the second | 777 | 1 | |
| | | | The state of the s | 4/ | |
| new part with | Coup expe | bronts a suppri | wants | Malestania or | |
| hereales 24 | - Comple a | on he carried by | invitate of the | breat due to inflammation, but cutse due to | |
| | the mu | in secreted from | withen throot / | host due to inflammation, Entaile du to | |
| | . 6 | | | 4 | |
| produ, da | - Treatment | options | control something | many a primarile) - 3 | |
| | · Expec | terants: tacilità | te the removal of | recretion by ciliary trompat ecopying | |
| | · Antibu | mives: Demin co | ugh reflex to r | educe pregency & intensity of comply | |
| ארי בון נוסע | · Mucol | ytus: Vonuces | viscosity e facilità | ter expulsion of thick man secretion | |
| ý | 1. A1 | 7 1 | W. mills | Land III de la | |
| | W Expectora | mts | 4 to 18 | | |
| | - Secon inholation, assist bringing up much from the chest. This might be in | | | | |
| | h | vedema e | de viscosity of | the mucus | |
| model on | 1-12 12 A 1101 | Malore to | shere to be | months outstand - | |
| | - Guailenean | , charachest | by luciening a | I riscosity of phlagm, I vol of shelp | |
| | 1 1 | o make cough n | | | |
| | 1 | | | | |
| | and the | the state of the same of the same of | | | |
| Jean of G | markly and also | t the re-opt | 1 34 | The state of the s | |
| Jens di | | 12 2/12 10 081 | | | |



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|-----------------------|-------------|--|
| 00 OH | مسمطانة. | The state of the s |
| - Increctanti | commandy | formation mix tures (honey, lemon) & lozenges (benzadomin) may have a local cough suppressent effect |
| camphor | month of | may have a local cough suppressent effect |
| THE WAR | JAKA LI | 1 1t year I W. A was estimated |
| - 1 | 100 | It was take and it is a |
| Evidence of | effective | ness |
| Category Jo | 1 rivemy | evidence (National Health & Medical Research Eausel): |
| · I · Sq | stematri re | new of all relevant romdon seed controlled higher |
| T. V | -> Hig | hut lade of evidence |
| · I. At | least 1 | property designed controlled triale: |
| To digitaria | بالمبدوات | Y and the first of the state of |
| · III . Well | -designal | psendo-romolomizad comparatre controllal trial |
| TT C | to the | a b or have site by a side down |
| · IV. Case | series | matically of built the looking |
| Meds | Evidence | Conclusion |
| Antipadenal | 7 | No more effective thou plucker in achilles childen |
| Anhi brothi | 1 1 | 1 40 more effetive trove pueses |
| Inatropium monnele | I | Modest efficiency for congestion e rhinorrhea in ACC |
| momiela | And 1 | I he make the district the light the |
| Navel de congestients | I | Single oral dose modestly effective for shortern relief in adult |
| CHEIN | 1 | Same efficacy in relienz discomfort but no clean evidence in |
| nt. | | easing respirenting suppressions in ACC |
| Anfihistermines, 1st | | Ineffective alone, home small effect on whinourher 2 |
| generation | - Y | sniezig when combined w deconquitants |
| Antihistermine - | 10. | Combination produce small benefit to adult a older children |
| Decongistant - | I | antihistomene decongestants most effective but no higher mordente |
| Analgeria | - 70 | of side effects |
| Congh suppressents | M | Limited evidence of efficacy in acute cold cette in tel |
| | | 1 the state of the |

Blueangel

| | Inspire the love of learning | | | | |
|-----------------|---|--|--|--|--|
| | CAMS for cold & flu | | | | |
| | a second of the | | | | |
| | CAM | Evidence | Candusion. | | |
| | Echinacia Purpurea | I | Some evidence for early treatment efficiency in archite, but not in prophyle xi | | |
| Jan Vyl | Vitamin C | I I A | Foiled to Vincidence of infection in Ae C | | |
| 1 | I Probiotics | I | May be more sulful them pluce be to prevent infection in <40go | | |
| | Zime | I | I symptom severity a durention in healthy Ac C when early in | | |
| 3.87 | Warner L. Harris | o laresal o | symptom onset | | |
| Japane 167 | Carlie | of mark | May be more effective than place to in achilles | | |
| | Heated, humilified an | I (| Conflicting evidence in ordults | | |
| | Saline | I | Possibly beneficial for relieving symptoms of create URTIs | | |
| ione Lappy | Honey 13 al | | No more effective than place to on cough pegency, severity or | | |
| | 0 1 . 0 | Laprotio | sleep in early infation | | |
| | Demulcent mucilages | <u> </u> | Little evidence to support efficiency of slippary elm on femalities | | |
| 2004 | 4 4 1 1 1 | We say the | Control of the Asset Market Market Control | | |
| 100 | 3151Vel harle 2 | H Crimo | 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| | . 4 | HUALES | The same of the state of the same of the s | | |
| | - | 1 | | | |
| man dedin | 7.0/ | A P | thought co | | |
| ment formati | ha 5 | () | while the minute part - obsessed on the | | |
| lossillary need | 1-4-21-18 | The state of the s | A company of the control of the cont | | |
| | | A 30 - A | - Policy of the Arrivalla whole | | |
| | | | | | |
| nal t | Land Amaili | who he | interest and a comment for upon the file | | |
| A LAND | the second | A.T. | La many to the TTHE Jupo / | | |
| 9 | 13 13 13 3 3 102 6 | 11,200 | in tob who | | |
| | 8.38. A | | will the the | | |
| 1 | 4 3 40 to | numerals to | under drove > the physics should - | | |
| | y same at the base of | | | | |
| | 56 | handrak da san | Blueangel | | |
| C. Santa | | | Occurrency of the second of th | | |

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|--|
| IV) Sinnsitis & rhimitis |
| Conditions leading to blocked none |
| Conditions leading to blocked nose |
| - Muceus production: lubrication e englishing fencion bodies |
| The nasal mucosa is highly rescularized, a those capillaries can be inflommed |
| by chemical modicidens eg marlacking |
| of the same day of the first the contract of the party of the same of the same of the |
| - When blood vessels in the nased conty become reflormed, they become more permuorble -> fluid mix w miners leading to nasal congustion or a post-now |
| permeable - fluid mix of miners leading to nascel congestion or a post-new |
| drip" (mineus rims back to the lings) |
| 21 All its its grafting and it and adjust at the I the said of |
| - Tears from the eye drain into the nasolacrimal duct to the nasophonogral region |
| -> Also contribute to rhomorrhen e post-noval chip |
| to be a start of analysis to the start of th |
| These blood vassel in the nose are richly innovated of symposthetic fibers, containing a a a receptor which constrict the blood versels Decongestants are a a agonist |
| confirming on a or receptors which constrict the blood versels |
| - Decongestants are & & ogonist |
| |
| Frontal sinus |
| co Sinusitis Ethmoid simi |
| - Simusths = inflemmation of the sinuses, Navillary sinus |
| consect by virus, buchinion or fingi, or |
| - by allergia reactions |
| |
| Often people get sinustris of a bucterial nature follow; to (or secondary to) on acuse URTI such as common cold, In this case, often caused by bacteria |
| acuse URTI such as common cold. In this case often conved by bacterin |
| suchas sheptrocesses |
| A Committee of the Comm |
| - Acute convités loute < Sweeks, nureas chronie sonusités louts longer thom this |
| Blueangel 5 |

adeter of the

| | Inspire the love of learning |
|-----------|--|
| | - Symptoms could be malaise, Jever/chills at yelder/green purelent moral discharge |
| | Unlike common cold, ppl m/ cicute simulis don't tend to have a great deal of maral |
| | discharg, but obstruction in the sinus can cause sinus pain a headache |
| | wind have |
| | - Chronic simusth's may be covered by shuchural abnormalities of the nose, eg broken nove. |
| | on growth of normal polips |
| and an | 101 1 l from he reflective coursed by a backwied on Invent of the |
| | Alternaturaly, it may be infective, conved by a backerial or forgal infection |
| | THE IN A PROPERTY OF THE PARTY |
| univi bix | DI I. |
| Shople. | a Rhimitis |
| territa | - Phrinite = inflammation of the noval mucusal |
| | Can be omnery, decrease quality of life expecially when associated n/noval polyps |
| | On the state of th |
| | - Ltypes: allergie e non-allergie |
| | the second of th |
| | Also called hory forer e can be seasonal perennial |
| | Also called hay forer e can be perential |
| | Munistra in The land to the police |
| up lab l | _ Samptoms: |
| | · Incering in the said hour office that working the |
| | · Nasal symptoms, ey: itchy, discharge, congestion, impaired mell |
| | · Oaulen symtomes; ey, itchy, motory, conjunctival symptoms |
| | · Additional: headache, instability, & appetite, insommine, conglis, wheezing |
| | A STATE OF THE PROPERTY OF THE |
| | autombed Ty E |
| | $0 \longrightarrow 0 \longrightarrow$ |
| All | ngin D |
| - Alta | APG Tycell Bcell Mast cell |
| The same | which to the him knowled who at three to be proportion to the second of |
| | |
| | Chumral Blueangel 5 |
| | mediator affense |

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|--|
| - There IgE mediated responses are not restricted to allergis Abenitis |
| There are actually some pol are genetically more hypersensitive to allergens through |
| This is called "citopiy": a genetically determined starte of hyper sensitivity to |
| environmental allergens |
| Types of allergic reactions/hyperconstrates |
| · Type 1: associated w/ the IgE antibody e agrang of diseases, ey author, howtern, |
| Type 2: the antibally produced by the immune response bind to antigens on the |
| patient's owner cell auface (and be intrinsie or extrinsie) eg blocktype |
| · Type S: occurs when there is accumulation of ontigen - ontibody complexed thedane |
| mat adequately charged by innate immune cells -> inflammatory response |
| · lapele: delayed type as the reaction may takes days to develop. It is not |
| antibacty - mediated, but rather a cell-mediated response |
| · Type 5: a distriction from type 2, the ambitudies may borned to a cell's surface. |
| reapture, thus imposin all enquality |
| The second of th |
| Maria dinga - incolla co |
| a Non-allergie rhembis |
| Chypes of min-allega phinitis: |
| · Vaso muter Christont/shinitis: pan smoke, perfine, another, entered, effect. |
| · Infahous shinihis; often visal, some times backerial |
| Drug inchiced: rebound congestion, drug side effects |
| Shuctural shinits: broken nose, mucal birth officts |
| Nasal polips: growth on mucus membranes of nose |
| Others: eg hormone imbalance |
| - Sumptone (3) |
| Symptom |
| Chronically blocked mared passage |
| · Red natal mucosce, chronically evollen, pugile avers prone to bleeding |
| The cause is undersomen, but might be due to the & production of endogenous. |
| thus, cannot remain constructed. |
| Blueangel 5 |
| Adimie |

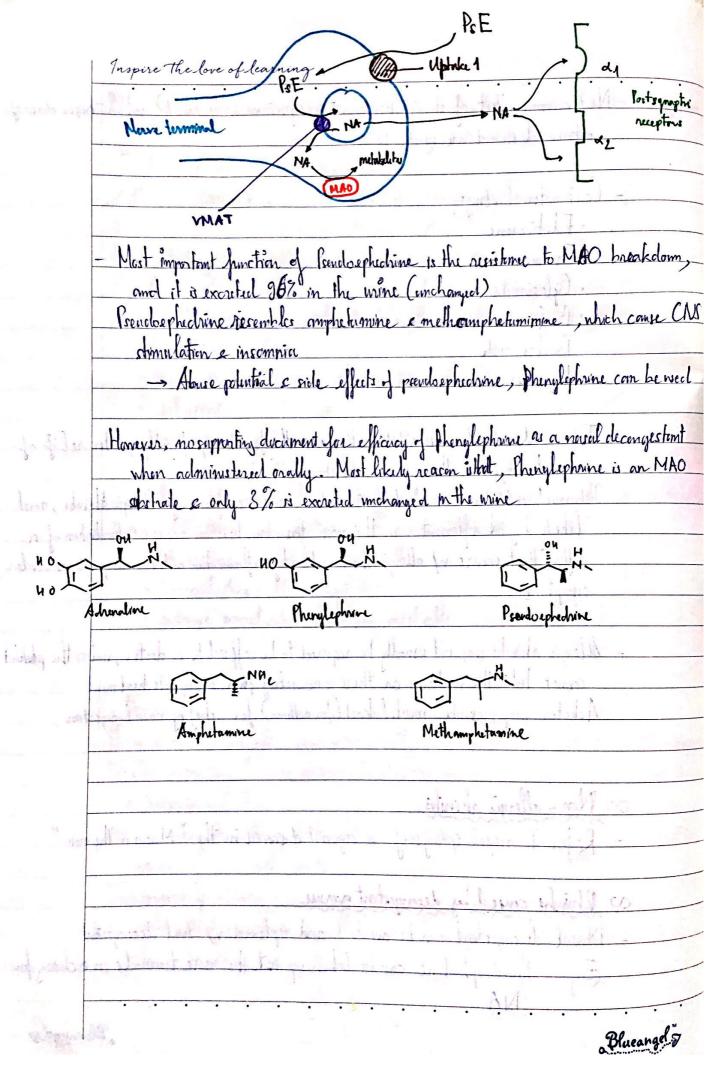
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|--|
| Rhinitis coursed by decongestant over use |
| - Limitation about mosal sprays is that they should only be used for short-tern from |
| (ii. 3-5 days in a row). Overuse of such medications can care rebond conjection |
| when stopping the Incortment (whimits medicumentoses) |
| and the gentral has regular and a few property of the standard and the standard of the standar |
| If a person wants to get rich of the rebound conquition, there is no other mays them writing and stop unity the maral spacy, along n/ some other therapses to relieve the symptom |
| and stop umy the naval spacy, along of some other therapres to relieve the symptom |
| at a be proported the military to the property of the state of the sta |
| more all danks to rest to be seen to be a factories of the seen and the seen of the seen o |
| Med ments available jureaux conditions |
| On Many to the same |
| - The leaky capillaries in the nose due to dilation make the nose full of fluid |
| The leaky capillaries in the nose due to dilation make the nove full of fluid \(\times \) \(\times \) against causing varocenstriction in an appropriate heatment |
| |
| - La agonists are eved extensively as negal decongestants in partient w/ alforgie on |
| and orwiten abjust to the execute which the the |
| These drugs I the airflow resistant by eaching (constricting) the blood versels that |
| have erectile function. |
| The receptors that mediate this effect appear to be a receptors |
| Le receptor mediate the conference of the arterioles that supply nutrition to the nasal |
| mucosa, where extensive constitution of these vissels may start to 8 microsoft to the start of the second of these vissels may start to 8 microsoft to the second of the s |
| No 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| - Phonoglephorine is a ay-agonist, which can the administered topically a orally |
| I sudo expressione is a stereo isomer of expression ou with rest continue |
| a less potent |
| O o enlarged grantate |
| - Sympathomenetri should be used w contining patrents w/ hypertension a enlarged prostate |
| MATT 44 hibits a Stokens. |
| - Nasul sprays containing oxy meturoline e xylometaroline also nork in the same farchien |
| The state of the little of the |
| Blueangel |

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|-----------------|--|
| | a Smusitre |
| . 407 060 | - Paractimet a ibriprofen for pour e feren relief |
| Asya madi | - Latine naval spray/chop Sult water insignition com he used for cleanly excess more |
| | from nose a sinu avas to assist masal characyc |
| | Mild to modurale, mount sprong +/- encalytio orl/teatree orl/sogletel |
| diameth you | |
| at the path | - If it is a buderial smustre, antibiotric (ig. amovicellin, empirellin) com be me |
| | n/ activide of a ductor. Donot we antibiotize for aviant impution |
| | - his again would be considered in outrents of rencirlent conclution, to structurally remove |
| 7.00 | the damage torse /polyps, where appropriate beatments shown no benefit |
| | Antihistramines, topical a systemic steroids shum no benefits; |
| | No data to support the efficacy of topical a systemic decorgestants to heat commits. |
| No 31945 | - Non - phenmacological methods: |
| | · Rest, drink noter e non-celcohelis fluids |
| 1341 22 | · Strond exporme to agarette smake |
| | · Seam mhalation |
| | to the state of the first the first the state of the stat |
| James Wil of | of der App John Son 12 A Probable A Mahaharanhari |
| 1,000 | a Allergie nhuiti |
| _ | Any heatment for how fever tends to work more effectively if given before openine to |
| Mora 2/1 | allergens & the release of pro-inflammatory chemical medicities |
| ingle store 211 | Any heatment for how fever tends to work more effectively if given before exposure to allergence the release of pro-inflammatory chemical medicities Advise people to multitar weather forecasts of the pollon count is to be high, |
| | antihistamine should be taken |
| | For some people, taking medication daily before a during spring may be required |
| charg hypoth | a sample of the state of the same of the s |
| | Antihatronines |
| - mind - 200 - | These made work by bradery to historine H, reaptors - purent historine frombinh to H, receptors & producing effect og varadelettron & Memmention |
| | to H, Maptons & prochuing effect eg varadilation & Memmertion. |
| A Secretarial | Blueangel J |

| | | love of learning | | 0.46 | | | |
|-------------|---|---------------------------------|----------------------------------|-------------------|---------------------------------------|--|--|
| | - Antrhisterni | nes were thought to be Ha | emtagonuts, but it is a | munk likely ac | t as inverse | | |
| | agenists | LILLER PHENDING | | 1 | | | |
| | | A | up down in will | | | | |
| | | appeare around the bod | | | | | |
| | | embranes in the RTe | | | | | |
| | | role in wakefulners -> O | | | | | |
| | | who mines (eg. cenharizine, fex | | • | | | |
| | | historine also have signific | cont on fichelinergic effect | i, nhith may a | rest clrying | | |
| | | soritions. | x s lat | | | | |
| | The antihu | slumines in the later gener | ation are simpleme in ef | activeness, if ap | erson duesn't | | |
| | net form | on one, then many from a | nother sous | dial. | | | |
| | 1.1 | | 1 0. | | · lach | | |
| | | s are overlable in different | | 1 40 | | | |
| alpha line | | who produced in | | all and a | in drug | | |
| | · Nasal sprays and so the rate of the same the same the | | | | | | |
| | · Eye d | rops | znidekild i miledi | sh · se | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| | To the life is the sale of a | | | | | | |
| | - Types of omhibitornine (sedahir) | | | | | | |
| | Subday | Drug | Solverse effects | Pregnancy | Children | | |
| | | Brampheninmine | Sedation, onticholmerqui | Netowalodle | u a nnyle | | |
| eplou as | Alleylamines | Chlorphenitermine | law increlence of GI effects, | ingredien | rts ' | | |
| official or | xil and / stap | Deschiler phenipemine | CMI stronulation | Soute A | >2ye | | |
| | | Pheninumine | , tanks, kilo | man A | >540 | | |
| Lithin () | Fhanolomines | Diphenhydrumme | Significant sedative, anticher | Songe | >640 | | |
| 4 | . (| Doxylanine | linergii, GI meidence | 0 | >1240 | | |
| | 0. | Alimemarine | frynsfrant sederthe, orbibaline | Safe but ovoid | >240 | | |
| power a | Phenolthriazines | Promethoreine - UCL | resp. depression, lumend seizure | close to delivery | > 240 | | |
| 3 | | thuodate | threshold. | Complete 100 | >5,0 | | |
| | Piperazines | Cyclizine | Slight codative | Soule | `>6³º | | |
| To the | | | | Saje Bluea | | | |

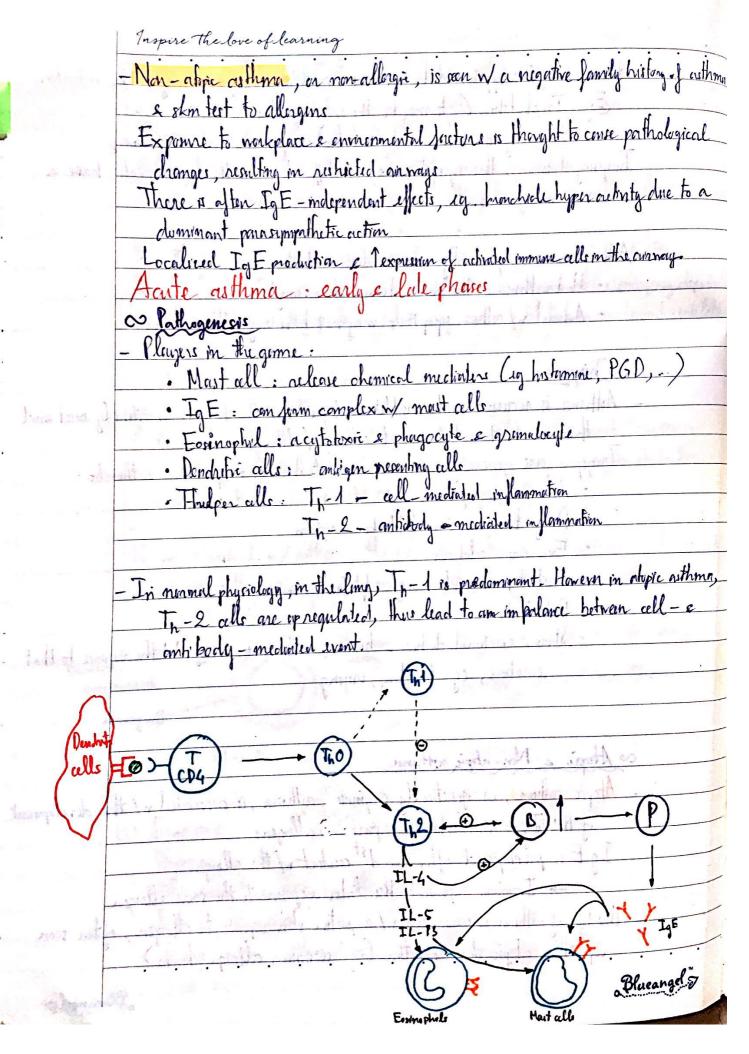
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|----------------|--|
| anger to be | - Not all sideting antihistromines are used to treat how fever as the how fever symptom |
| | relieving characteristi may not be as strong as the side effate |
| | Eg. Domenhydrinale for antiemetric |
| -es 1 jje > 10 | Dong lamine for insomia |
| no solo | all all some in its in it is the second |
| _ wifet 1 1 | - Less reduting antihulamines are. |
| · John | · Certinieme |
| compile to the | · Fexo Jenadine (metabolite of Ferfendine) |
| | · Loratione |
| Koran desert | |
| | · Certaireme |
| | · Levocerfrieine Cisomer of Centrizine) |
| | The wind is a second of the world in all the second but a second |
| | - Some other medicines that have antihistomine activity (not actual H. antroponits except to |
| a | entrollieure Azelastine Levocontoutine & Sochum cromoglycule |
| | · Azelustine: Stabilizing most celle |
| | · Lero can fortine: H, entrigenist |
| | · Soctamo omoglycate: Stabilizing most celle |
| | |
| andren | Une labelier line of the form |
| I as a la b | Confice of ererely land and back somewhat work |
| 11/5 | These medicines are often given inhanoselly, acting at glucocontrard receptors against |
| all l | These medicines are often given intrancisally, acting at glucocontrard receptors against Nuclear automation leads to dimensional afthe against/receptor complex to freetien as |
| >5% | a hanconichon lester |
| 178 | We are coing for the reduction of pro-inflammatory proteins (ey COX) and the |
| 0,515 | increase of conti-inflammation proteins (eg comexin 1) |
| P. S. | The many of colors control the true takes time |
| 6015 | Not immediale relief like nasul obscongestant, but may take a fewday |
| | to achieve max effect. |
| | 1) make a shall be as we adopted the mission of |
| | Blueangel g |
| | Blueangel & |

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|-------------|--|
| S. War and | - Most common effect of steroid heatment is epistersis (non blead), when high dones of inhanasal steroid are used. |
| politicas: | inhanasal speried are used. |
| | in the state of th |
| | - Contraderatel olruge: |
| | · Fluticasone |
| 100 | 1 Cil Triemanoline it is end by to it to write it below toll - |
| | · Ciclesonide |
| 1 200 | · Beclometer one |
| | · Budesonile |
| , d 6 | · Mometusone de la |
| | |
| (made or or | - Inhanoual conficusterord is substrimbally preven to provide significantly greater relief of |
| JAM JAM | noval congestion them oral ambhastormines |
| | Internaval contrasteraril is also known to reduce ocular symptoms of allergic Atrimitis, must |
| | likely by I inflammation in the nove, this normalizes an excess in stimulation of a |
| | reflex that occurs of allergin shirishis whereby inflormmention in the nose producer occular |
| | symptome |
| 4.00 | Line is short |
| | - Allergia shimitis may not usually be required to be reflect to a doctor, unless the proteint corner take the medicines on there is no relief from appropriate heatment |
| | commot take the medicines on there is no relief from appropriate heatment |
| | A clocter may prescribe montelukout (for asthma) for relief of nasal congestion |
| | |
| | Non-allergie shinifri |
| | - Refer to neval sprays of a agentist diamered in the "Mnow in the non" |
| | U Rhinhs caused by decongestant over use |
| | Nasal decarges font can be avoided and replaced n/ onal decongentent |
| | Eg: Pseudo epheobine can be taken up into the nerve terminals in exchang for |
| | NA. |
| Chyrian. | a Blue angel o |

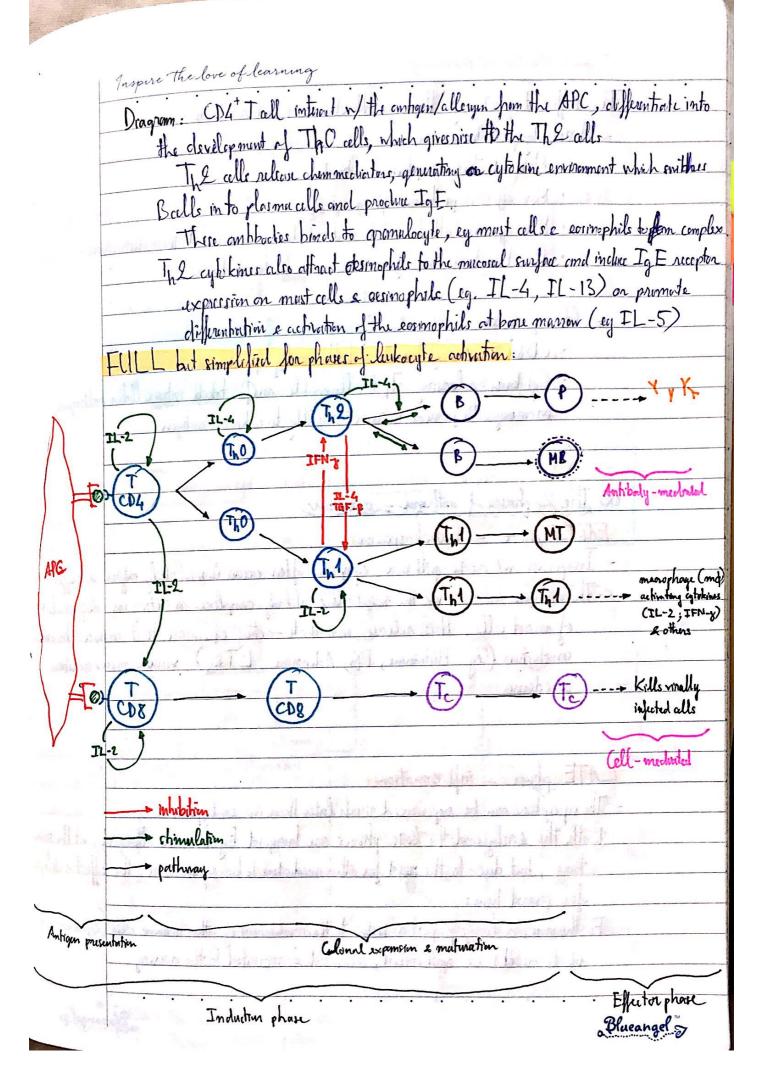


| Why the low of learting \$ 12018 |
|--|
| |
| I) Pathophysiology, Diagnosis a Assesment of Asthma Inhoduction |
| Inhoduction 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| - Asthmu is one of themust common chronic cliceover worldmode Prevalence in many unhies, especially in children, due to environmontal e lifestyle change |
| Patients of asthma are generally managed in the primary care or entratent setting. Pour controlled asthma may result in hispitalization or admission to the emergency deportant. In the event of superiory failure, patient may require intribution or mechanical ventilation. |
| Pathophysiology : Overview |
| What happens in aithma |
| Asthma is on obstructive represtory doorder of genetic e environmental origins, |
| characterized by the moreused sensitivity to variety of stimuli, anglar obstruction which the monchioles nearest to the traches is most affected. |
| |
| In on relividual n/arthma, the respiratory system is hyper-responsive. To specific higgers, inflammation, enhanced much secretion a smooth much constrain are |
| observed in the manchiales |
| This much Smooth much constriction |
| Bronchiol Excessive Air way will Excessive mucus |
| Normal airmay Asthma |
| |
| N Symptoms. |
| - Dyspraca |
| · Whering (confirm of stethoscope) |
| · Difficulty expination |
| · Chronic cough (often at night or early morning) |
| · Chest tightness a shortness of breath Blueangel's |

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|--|
| - Not all symptoms appear at the some time, and some symptoms may but be inclear time |
| Eg: Cough may be the only symptom, |
| Wheezing can be caused by turbulent our flow due to narrowed away |
| In young children, the symptom may be different . breathe by stumach, have a |
| some fummy on ahest. |
| and the state of t |
| - Asthma can come gradually or suddenly and at ong stage of life. |
| · Had asthma in the past, it can return any time |
| · Achilol w/ outhme symptoms may not have ony outhma later |
| and the second of the second o |
| 100 Triggers has been been been been been been been bee |
| - Asthma is recurrent a reconstible to a degree, as the higgers consistently exot and |
| there are heatment to control asthma (although not a cine) |
| Triggers are generally non-noxion strandi that don't affect non-asthmatic: |
| · Allergen, eg. pollen, dust. |
| · Drug traiggers, ey & blecker, appinin Excercise, cold ain |
| Excurcise, cold air |
| Invitants, chemicale, eg suphites, anononier |
| Pallutonts and built of the same of the |
| - Stress & emotional dishers - however, not the emotion it self, but the response to that |
| emotion, ey laughing, origing |
| (4) A |
| 11. N . 8 (68) + (7) 11. |
| a Atopi a Non-atopi osthma |
| - Atopic asthma, or genetically originaled asthma, is associated w/ the development |
| of the Ig E antibodies in response to allegens |
| Ig E 11 predisposed offer the 1st contract of the allergen. |
| - Immune response on later exposure to the same allergen |
| This type of outhorn is associated w/ a positive stan response to allegen, often seen |
| Mother atoph shin condition (eg. exoma, allerga shinihs). |
| Blueangel 5 |
| All Market And T |



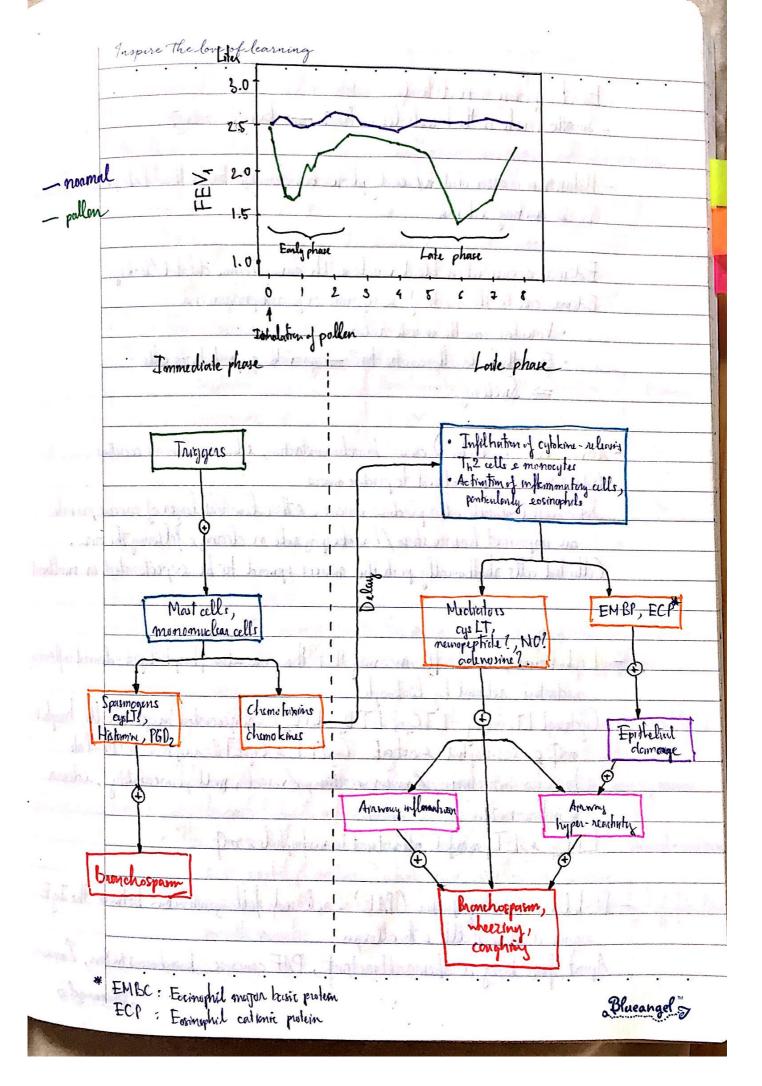
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|--|--|-----|
| | The different protonof all- a contibooly-modicited reactions: | - |
| | - Antibody provides: | - |
| while to | · Marc alactive complement activation | - |
| | · More effective philhogen phospocytosis | 1 |
| yer other | · More effective attachment to multiallular paracites, 1 their destruction | |
| tyme Bol | · D'rect nentralisation of some viruses & bacterial texins | |
| 27 mg 25 | TOUR ALL MADE AND ARTHUR ARTHU | _ |
| (3. | - Cell provoles | _ |
| | - CD8 Talls (cylotoxie To) kills mally infested alle | |
| 2.1 | Cytokines-relacismy Titalle enable mo tokill intra allular pathogen | S S |
| • • • • | · Memory cells minich to react rapidly to a known antigen | |
| | | - |
| | | |
| in Control of the Con | a The 2 phases of arthur - overview | |
| | EARLY phase - branchospain. | |
| Tunkama | - Inspersen n/ create pesthona, symptoms of fen occur immediately ofter a trayer | |
| delps proceeds | The allergens interact in the most coll ombibody complexes the sulting in degranular | m |
| ent sulli | of most cells. This release immotivate -acting chemicals that induce more | no- |
| | constriction (eg. Historine, PG, Adenosme, LTB,) viscions much secretion, | |
| Halla virolly | | |
| alla historia | | - |
| Lakata | 1 Att (in Many than | |
| | LATE phase _ inflammation | |
| | - The signiform can be experienced much later than in early phase. | M |
| | Both the early and the late phones are triggered by the seme allergen, at the son time, but due to the excel for other mediculars to be synthesized, the effect is delay | ul |
| | | _ |
| m = 0.70 p | Jor several hours | 山 |
| | Furthermore, a large proportion is due to the madesment of other minume cells (eg. ecsmaphy which needs to be synthesized, activated a recruited to the airway. | - |
| and the second | min meets to be synthesized, aentation a reconstruct to the arrivage | 1 |
| aring onto | 21 /- | |

Bar (

(pm) year fame medito retails (gent 3 11) godo a



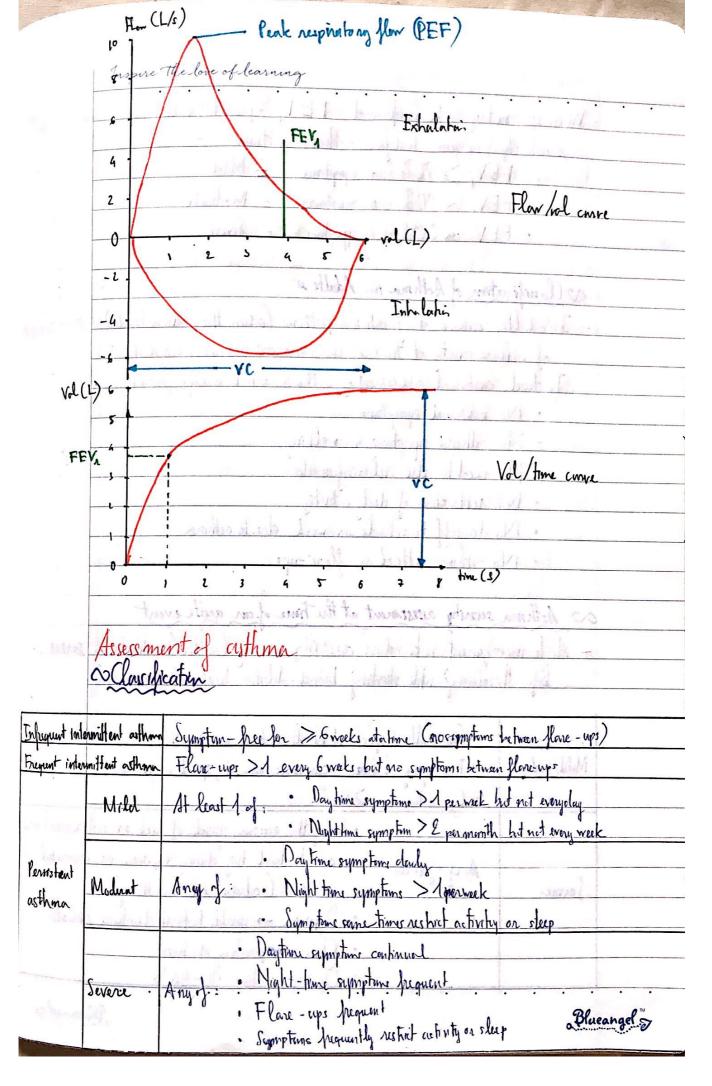
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| | Farly share in detail - Smooth much in the branchicles contraint - branchiceministion |
| | - Smooth much in the branchicles contraint - branchicetion |
| | |
| | - Histornine is associated n/early phase bimehoconstruction & then late phase inflormed |
| | e airmay edema |
| | Table 1 |
| | Edema com be the result of a separate or paired phenomena |
| | · Vascular smooth much relevation |
| | · Enclothelial all contraction -> provide gaps between cells |
| | ⇒ Snelling |
| 100 | |
| and the land | - Annay PG (eg PG Dz) course broncho construction, eclemen, 1 minous cecretion |
| digasi daga | Gallet alls are energialized to procluse much |
| ALL PARTY | Submiuco soil glemale also produce mucus, ather luminal layer of mucus movide on important homeo staris/homekaping role in cleaning e fellering the cuin. |
| - | Cilliated alls rhythmically push the mucu upmand to be expectionated or smallow |
| 0 | |
| | The original designation of the second of th |
| - | - Lenks twenes, are like \$6 in away that they are also phusphelipid-downed inflorming |
| - | medications, released by lankocytes |
| 1 | Cycleinyl LTs (eg: LTC2, LTD, LTE2) are generated in mostable, hosephile mp a cosmophil eactat CyclT1 e CyclT2 receptors to stimulate |
| H | brunchoconstriction, I much recretion, I would pall permeability, edumn |
| - | E in flammation |
| | LTB, are powerful attraction to newtrophils emp |
| | |
| | Platelet retriating factor (PAF) is released followy interaction between the IgE expressed on most celle a the allergen |
| | expressed on mostable a the allergen |
| _ | Apart from being a chemo attractant, the cancause bronchwood me non, |
| | Blueangel 5 |
| | A CONTRACT OF THE PARTY OF THE |

| Inspire the love of learning | <u> </u> | t all the site | 15 |
|---|---------------------|--|---------------------------------------|
| edera, promete inflormation e hyper-responsiveness | | | • |
| and page of year | - 15 ch 1 st. | D hate and | |
| - An allergen internetion w/ Ig E-bound | high affinity read | ter on mostalls | synthesis e |
| release of longer-acting media | torsollar | that were of here | |
| · - 1164 | Jan askal | all of a But | - |
| · PAF | salah per had | line is to a large and | 192 |
| ·IL (eg IL-13, IL-4 | | Carlo participation in the | |
| · m p inflammatory prutein | 1a | E as the last of the | |
| · Tumor necrosis factor a C | TNF-a) | r disk | - 7775 |
| The chemotorins & chemokines orthon | act lankoustes to H | he array | |
| Medicaton | Brunchocenstretion | Much secretim | Edema |
| Histormine | A Yaharan | A Party and | V |
| | Y and a | D IV | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| Cys L I | V | The second second | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| PAF | V | 1 1 | |
| , ski , s | r thought do | 1, | |
| 1, 1 | L | o la stank. | |
| Late phase in detail | H H H H | 0. 0.0.1 | 1.1 |
| - Recrustment of other immune cells to from these cells resulte in H | the airman & in | is released onemore | - Mechanis |
| from These cells resulte in the | e manifestition of | a seasof selled symp | otims |
| the standard that the standard | A ARM MARKET TO | SHOP THE REPORT OF THE PARTY OF | |
| Apart from those chemical med | cliators in the La | My praje, intre in | M wantiman |
| longer-acting toxic mediator | , eg: | 1) . D I l | TARLE MANAGE |
| · Neuvre peptieles (24 subskm | a te neurokinja | A), received from so | nrong rumino |
| to contribute to inflame | nation - COF | - 120 0 mili | Landa and bot |
| Tissue remodelling mediate | ns ly ECT, E | 11 D- 1 1. | - CRINTAL JOHN HAN |
| & losinuphil ferexiolate | / which court of | There cumage | 1 |
| Fi brogenie a granth factors | hyperplasia for | murcelle) & hyper 1407 | my of princes |
| smooth musels | | | |
| - When he Consider the | | <u> </u> | |
| 139 | | 3 | lueangel 5 |

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|--|
| - The release of there so-called entoxims promotes proliferation of fibroblast efformation and callegen disposition, hyperplasia & hyperhaphy of smuth mucle |
| increased collegen disrocition, hurandosias huranbarhy of smoth much |
| necrosis of epithelial cells |
| -> Pathalogical airman somedellier and could be permanent |
| -> Pathological airman remodelling and could be permanent Well-conholled athene usually doesn't have easinophilia -> no remodelling |
| -> Contico steroral heat ment for lige long asth ma |
| Corners struct run or and stage string sparrent |
| |
| Chronic asthma |
| |
| Chronic outhma refers to the repeated episodes of the early clase phase recution of con lead to remodelling of the air nay a worsening of the symptoms, such that response in the acute episode is exacubated |
| of the symptoms and that response in the acute episeole is exactabated |
| Monitoring symptoms is key to understanding whether apartient can develope chronic |
| asthona. |
| Y. T. W. T. |
| - Reasons for the development include: |
| · lock of diagnosis / heatment |
| · insufficient patient regionition |
| nappropriate medication |
| they be a light of the same of a Albana if a could popul |
| Treat ments for author will be discussed later in this week |
| and the hard all with a second of the Allendar |
| Medication - induced asthma |
| |
| Ltypes: predictable a impredictable - Predictable: known pharmacological properties of the medication (dued) |
| · B. blocker (mchaling egedrop) |
| · Cholmergin agent |
| · Cholinesterase inhibitor |
| The state of the s |
| The state of the s |
| Blueangel |
| Anneary |

| Inspire the love of learning |
|--|
| - Unpredictable: reaction is not related to the dose of the medication |
| · Carbamazepme (epslepsy) |
| · Parenteral chuys (penicillin, hydroconfisene, aminophilline, N-acetyl cystene) |
| · Preservative (Lisulphite, metabisulphite, benzakodnim chlorole) |
| and the state of t |
| - About 3-11% of ochelt w/ asthma is higgeral by NSAID; Impaned PGE2 |
| sunthesis e excessive IT may contribute. No convincing exidence support the |
| relationship between aspinin-included asthma a 1gt medicated mechanism. |
| Acron intelerance along w/ asthma anasal polyps, thusing exhinarchea can occur |
| within a few minutes from hom of administration of asperson here pol should use |
| |
| Some pol m/ ATA mous also have mild reaction to higher close of paracetrimol (1-1.5g) |
| o / Pas Lasz |
| L'Ireaptor amfaganists are need for long-term control of AIA, but should be |
| avoided w/ aipmin a NSAIDs |
| The state of a supplemental and |
| Diagnosis Contraction of the con |
| - Go for a GP a hove a check on family history of adopty, recent viral or |
| |
| - Provisional diagnosis of asthma if all the symptomy are present: |
| · Wheezing + Coughing |
| Breathing difficulty |
| · No sign to suggest alternative diagnosis |
| · Response to broncho dilater demonstrated on a spiro meter before e after taking |
| B ₂ agenit |
| I have the man of the plant of |
| - There is no single reliable test non any standardized outhin a diagnosis & com be |
| very hard to obagnose a 0-5 go: |
| · Wheezing a coughing one common inchildren |
| Blueangel 5 |

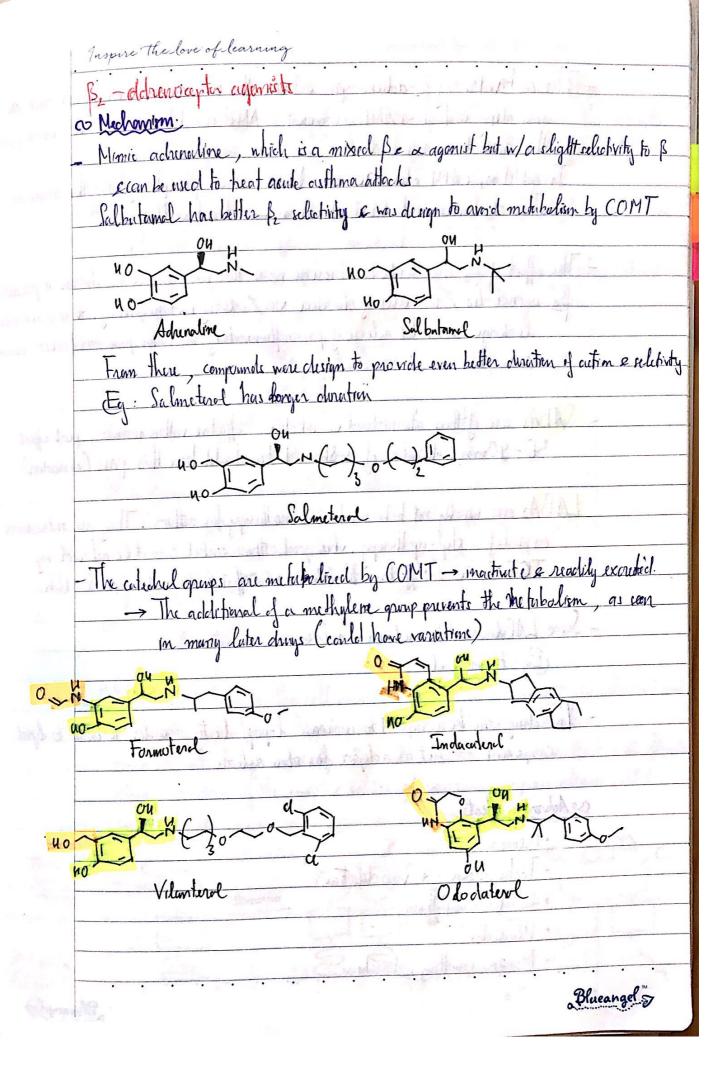
| Inspire the love of learning |
|--|
| Spirometer is mayplicable |
| · High partishin of children repond Ho brunchochilator don'th |
| asthma later in life |
| |
| A chaquesis should only be made when there are substantial signs of air limitation a cough is not the only predominent supreprience |
| O 11: He ale mident sweether |
| limitation & cough is not the only present of |
| the meshire starting and at select pass of the |
| |
| |
| ·FEV |
| · FVC |
| · How quickly the air now expelled from the lunge |
| the state of the s |
| - Spinometer technique is oricial for must reliable readings |
| Measurement both before e after administration of a short acting & agonot mel |
| · De tomme our flow limitation & its degree |
| · Monitor effectiveness of heatment |
| · Demonstrate the presence & reversibility of air flow limitation |
| · Provide Jeed back |
| CASSACT CONTROL OF THE CONTROL OF TH |
| Diagnosis of asthma can be made if ALL of the following apply |
| P |
| E - De Park has by four of the stand |
| · Exprinatory aunflan limitentien has been demanstrated · when to be variable |
| hum to be variable |
| · No syggestive alternative diagnosis |
| |
| On the spinometry diagram, the are unly 2 ourses: Flow/volume curve (spinal) |
| |
| · Volime / time ourne |
| " Marie a complete on company of children |
| Blueangels |



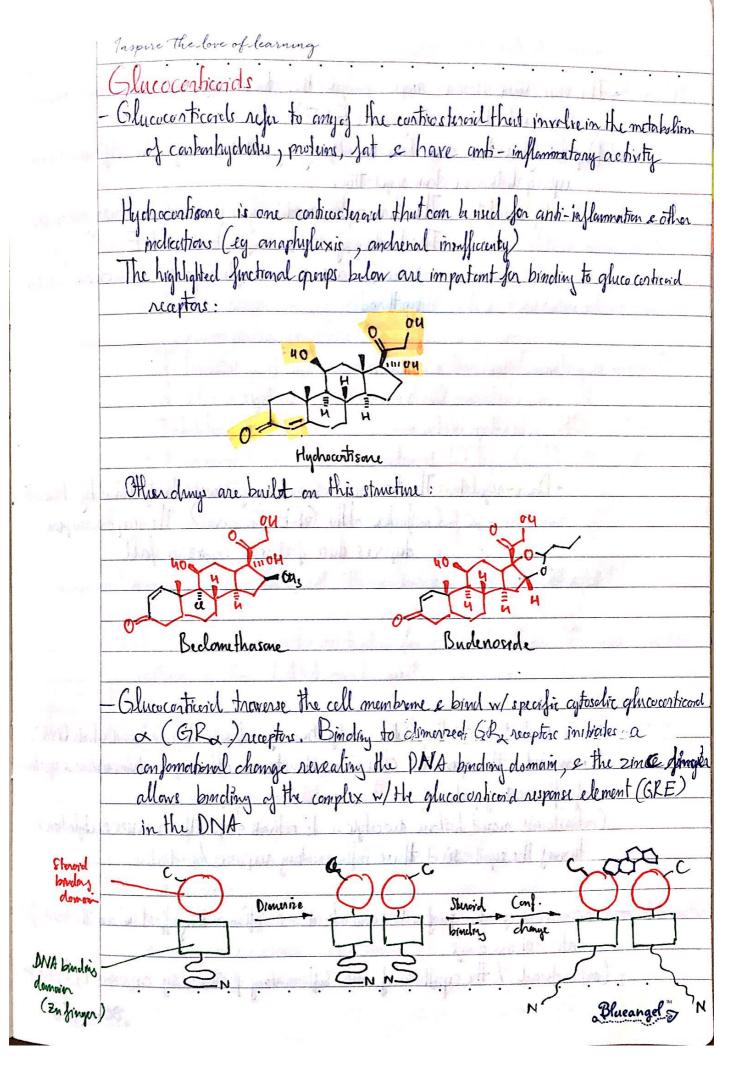
| | (77) nel predestant flow (FF) |
|---|---|
| Inspire the | love of learning |
| - When opin | metry can be perfermed, FEV, & pudioted will be used along what |
| e in lund | is of symptoms to define outhonic patterns. |
| , | EEV CO? sumeton = Milel |
| Mars 12 , 1st | EV, < 80% + symptoms = Moderate |
| | EV 605 + symptoms = Severe |
| | as a replication of the second |
| W Classfie | ation of Asthma in Adults 2 |
| - Inadult | s, assisment of asthma pattern (as in the previous table) & the days |
| of as | thema seventy at time of cliarmons are not recommended. |
| Instead | , continual assessment of asthma control is high priority |
| · N | o nochanal symptom |
| · N | o athma symptoms on walking |
| N. | need to dise relieving mech |
| · N | sestmetron of darly activity |
| | a claysoff to schools or work due to asthma |
| • 1/1 | o asthma attack or flare-up: |
| 2 Athma | severity assessment at the time of an acute event |
| 11 | t a based on a see sin severile (mile! /mederate ; severe: |
| - Scale med | regiment is bound on assessing severity (milet/moderate; severe; reatening) while starting broncho dilutor heatment immediately |
| THE IN | antenny type siviling various evicator internation |
| No of today | · Cannalk, speak 1 Nhole sentence in 1 breath |
| Mild/medurat | · For yong children, com more around, speak in phines |
| 1. 1819 1. 4 | · 0. mituuten > 94 % |
| an antique | · What the accessory mudes of neck on intercostal miss |
| Act against the second | And of there or "trucked trig during inspiration on inscentil |
| Severe | Any of these or "heicheal trig "ching inspiration on endowstall recession Cabolimonal history? |
| | Cyppiea - unable to pour 1 uniona 1 com |
| | |
| <u> </u> | Or Sectenacifien 90-94% Blueangel 5 |
| 33 | Blueangel |
| 1" | to so flades being about south age. |

| Exhaustion Any of there: Cyprosis (Unish shorn ohie to look of O2) - Poor responsion of float, soft/absent breath sound O2 solunation < 902 | - Exhansher Angel thus: · Cyanoris (Unish shorn cline to lock of C_2) - Pour repenating effect, suft/absent breath sound · C_2 sommitter ≤ 90.75 | . Land | V concienines e collopse |
|--|--|--------------------------|--|
| the threatming Angel there: Agencies Church show that to locate of O2 - Poen representing effect, self-absent breath sound O2 saturation < 90% | de thustony Angel there: Cyanosis Chinah shon due to leek of O2) - Coon responsion of good soft about several - O2 sotheritary 4 90 2 | | |
| Consider the second of the sec | Non representing effect, self-about breath sound Oz saturation < 90.73 ALE A March of the self-about the self | 1.1. Ahreatening | Any of these: · Change (Hursh shan due to lock of O.) |
| Last of the same o | Light of the state | unt-11 | · Pour responsition Ment colt/absent breath sound |
| Lind of I has a line of the dies he had - Lind of the second of the sec | Look of Albert (1990) with die behal - word with the submitted with a submitted to the submitted of the sub | A SAME | Or saturation < 90% |
| ATTI investigation of the land - Compared to the second of the second of the land - Compared to the second of the second of the land - Compared to the second of the second of the land - Compared to the second of the second of the land - Compared to the second of the second of the land - Compared to the second of the second of the land - Compared to the second of the second of the land - Compared to the second of the second of the land of the land - Compared to the second of the land of the | Link of the plant of the standard of the stand | 1 | |
| ATTI I was a distributed of the second of th | ATFL was supply of the second | A 1 = 11 | |
| ATTI I was a distributed of the second of th | ATFL was supply of the second | 1 | FI ITS LOS (CIEN LOS LAS LABORES) |
| (ATF) ways up a made of the bank - (some) and the bank of the bank - (some) and the income of the manual of the bank - (some) and the income of the manual of the bank - (some) and the income of the property of the bank of the | (ALTI) integer paper in policy - but habitable (some) and the but - and have able in any parties and - but all a pade of one in any parties and - but all a pade of one in any parties and - but all a parties of II or favolation of II from any Jan & business of II from any | Total | The base but we have built a first to the second |
| (ATF) ways up a made of the bank - (some) and the bank of the bank - (some) and the income of the manual of the bank - (some) and the income of the manual of the bank - (some) and the income of the property of the bank of the | (ALTI) integer paper in policy - but habitable (some) and the but - and have able in any parties and - but all a pade of one in any parties and - but all a pade of one in any parties and - but all a parties of II or favolation of II from any Jan & business of II from any | T AND THE REAL PROPERTY. | The state of the s |
| (ATF) ways up a made of the bank - (some) and the bank of the bank - (some) and the income of the manual of the bank - (some) and the income of the manual of the bank - (some) and the income of the property of the bank of the | (ALTI) integer paper in policy - but habitable (some) and the but - and have able in any parties and - but all a pade of one in any parties and - but all a pade of one in any parties and - but all a parties of II or favolation of II from any Jan & business of II from any | anthaktikk . | A STATE OF THE STA |
| Application of the form of the | Landinald Crosses Landinald Landinald - And Jel Cline down & Landinald - And Jel Commission of the Standard - Andrew Landinald | 4 | PROBEED TO STATE OF THE PROPERTY OF THE PROPER |
| Application of the form of the | Landinald Crosses Landinald Landinald - And Jel Cline down & Landinald - And Jel Commission of the Standard - Andrew Landinald | | (NITELY MARKET SAME AND LOLD |
| And Jal John day & Landing & I. | Total special properties in months of the properties. Total John Liver than & II and handle - Total sand and and hand | | to bidale |
| And Jal John day & Landing & I. | Total special properties in months of the properties. Total John Liver than & II and handle - Total sand and and hand | 7 | TALABATINETY |
| And Jal John day & Landing & I. | Total special properties in months of the properties. Total John Liver than & II and handle - Total sand and and hand | | Comment Completely the books - 1 |
| And Jal John day & Landing & I. | Total special properties in months of the properties. Total John Liver than & II and handle - Total sand and and hand | 1 1 1 | I have been both to be a part of the second |
| Application of I as instruction of I as instruction of I as instruction of I as instruction of I are instruction o | Total Jell , lines done & II pri landared - Lines des la landare II . Lines des landares II . Lines Landares II | | |
| Application of I as implicated the implication of I | Total Jell , lines done & II pri landared - Lines des la landare II . Lines des landares II . Lines Landares II | | (ALLEST WAR Hat Brown a from program. |
| Application 3 3 Table 3 | Application 3pt sh | | And the second s |
| Application 3 3 Table 3 | Application 3pt sh | A . | |
| Application 3 3 Table 3 | Application 3pt sh | 122 | tal talk line due & II is landwell - 1 |
| Application 3 3 Table 3 | Application 3pt sh | 1 3 mg/s | Land later A Landon 7 III |
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| | | | Application of the second of t |
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| | | | |

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| II) Pharmacologia of medications a management of acute a chronic author Pharmacological apprench to treatment reginatory disorder (author) Drug classes that can be used: - Short-acting & agenists (SABA) a long-acting & agenists (LAFA). - SABA: Salbatamal, Test butalone |
| Pharmacological approach to heating reginatory disorder Carthur |
| Drug clarer that can be need: |
| - Short-creting B-agonists (SABA) & long-acting Be-agonists (LABA) |
| · SABA: Salbatumal, Fest butaline |
| · LABA: Salmeteral, Eformateral (Formateral) |
| Commenter of the comment of the comm |
| - Inhaled conticortainels (ICS) a onal/IV conticosterord. |
| · ICS: Beclomethasone, Budenoside, Ciclesonide, Flaticasone |
| · Oral: Predresolone, Methylpredriplone, Predriene |
| IV: Hychoconfisene |
| |
| - Leuko tvene receptor agenists (ITRA) |
| - Montelukast |
| and the state of t |
| - Mart cell stubilizer (Cromones) |
| · Soctium cromoglycate, Neclocromil salium, |
| as define made the and it is the electrical went |
| - Mucarimie receptor antagoniste short-action (SAMA) |
| · I pa tropium bronnide |
| |
| - Monodonal eg. IL-5 antagonist; anti-IgE |
| IL-5 antagonist: Mepolizimonb |
| Anti-IgE; Gmalizumah |
| 1 Charles and the second of th |
| the state of the s |
| |
| The state of the s |
| The second secon |
| The state of the s |
| Blueangel |



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|--|
| - The cutivation of Be-achenoceptor activate the subunit as, which activates to generating a high-CAMP environment. CAMP inhibits the MICK, which present smooth muscle contraction. |
| the smooth muscle contraction. |
| In addition, AMP also profrate PKA, which phesphery lates the ment |
| In ciclestion, cAMP also interirate PKA, which phespheny lates the membrane Cart charmels and deactivates them - Inhacellular Cart |
| - The effect of the agentists will be observed no matter what branchoconstrictor is present for agentists also I muco villary diamence via I ciliary beat preguency, I microvariable |
| La agenistialso / mucocillary denonce via / cillary beat prequency, & minoral |
| acakage & minist neacuse of pro-informatory microiron pem must alla bus |
| cestnophib |
| - SABAs are ofton administration in white effects the site of the |
| - SABAs are often administered na inhalers: effective within minutes, real effect SO-90min, duration of 3-5h. Patrenshauld have this pan (as needed) |
| |
| LABAs are usually not to be used as monotherapy for asthma. They are introduced as part of a step-up therapy, when good asthma control commot be achieved by ICS alone. Effective 10-20mm, max effect 2-4h, duration 8-12h |
| 100 alone. Effective 10-20min, max effect 2-4h, duration 8-12h |
| - Some LABAs can be und as a reliver. |
| Eg. Formoterel |
| TO THE MEDICAL PROPERTY OF THE |
| - The drug can be designed to increase lipophilicity monder to bind to lipid component - act as adepot for some release |
| component -> act as a depot for slow release |
| a Adverse effects |
| Tremon |
| · Tachycardia + vasochilation |
| · Cardiac arihythmia |
| · Headache |
| · Manga, vomitting, diarrhea |
| Blueanad 7 |



Scanned with CamScanner

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|---|
| - The dimerized steraid - reaptor complex then translocates in to the nucleus where |
| after his to the families site (GRE) |
| Depending on the gene target, altering of on RNA may have different entering upregulation or down regulation. |
| refuncting on the gene ranger, and of the |
| My regulation of crown regulation. |
| · Up-regulation: The promocriptional mechinary is presented to operate at low load. The binding of GRa complex to the GRE in the promote |
| sequence act as transcription factor to increase mkNo |
| |
| synthesis |
| 20H |
| |
| |
| Windshall |
| Des - regulation: The transcriptional and many a constituitive of charges by transfer |
| Donn-regulation: The trunscriptional mechanism as constituitive by chiven by homomphismal fuebus at the GRE ("negative"). The receptur complex |
| displaces these factors & expression fall |
| this parts more species to the parts prove |
| ATTIME TABLE |
| Annabal and and make |
| |
| place I will have a stone the all agent be stoned |
| - Gene activate tran results from the acceptation of nuclear histories around which OVA |
| is wound, this opens the chromatin structure e allows some transcription esynthesis |
| is wound, this opens the chromatin structure a allow gene transcription esynthetical of inflammation proteins |
| Conficosterail mornit historie deacetylase to activate genes this reverses acetylations |
| Conficosteroid recruit historie deacetylase to activate genes, this reverses acetylations furnsof the synthesis of these inflammatury responses/mediators |
| The first of the control of |
| - Conticosterval produce professal a generalized anti-juflammating effect a are the most effect |
| anti-aethma druge |
| 4 556 |
| Conticustered 1 the cynthesis of anti-intlementary motiones on amousin 1 Corporation |
| Conticusteroid 1 the synthesis of anti-inflammatory proteins, by annexin 1 (tipocalin) |

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|---|
| a protein that inhibits the production of anachiclomic derived medicator (PG, TX, LT, PAF) |
| Conticos tenoral & synthesis of pro-inflommatory proteins, ey The cytakines, PG |
| - In summary, conticosteroids com: |
| · V Dranchial hyper-responsiveness, vascular permeability & mucus secretion |
| - Lymphocyte, eosmophil, monocyte a busophil cell Counts |
| · Inhibit allargen - induce influer of easino phils & & mediateas release from |
| easmophilse basophils |
| · Johnston of cytokines involved in asthmatic inflammatory response (IL) |
| · I IL-3 signthus (regulate most all production) |
| · Inhibition induction of COX-2 - inhibit synthesis of PGE, & PGT |
| 1 annexim 1 -> in hibit formation of LTB4, Cys LT, PAFE PG |
| · Upregulate (or pre vent down-regulation) of \beta_2 - adre noceptor |
| represent to the vent of the rest of the production of the rest of |
| - Examples of ICS: Budevanite, Beclamethasone, Fluticasone, Cicleromide |
| The same of the same same as the same same same same same same same sam |
| ICS: as a preventer medicentron for persistent aithma. For poor-controlled |
| author, another LABA can be wed. |
| who is a report in the resolution at the many that while it |
| Advance effects |
| - Local side effect when viny ICS: |
| · Orugharyngeal candidionsis (thrush) |
| · Conghiny |
| · Dysphonia |
| Housener - |
| These local side effects can be minimized by ornsing month after each deminish |
| These local side effects can be minimized by princing month after each determinent |
| (Label 14) |
| Blueangel |

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|--|
| |
| - Systemic effects for oral conhecosteroicle |
| · Adrenal suppression · Cataracts (cloudy lens) |
| |
| · Glencoma |
| · Growth suppression |
| Acre () How I was the in course () |
| · Hiron from (unmanfed male - pattern han growth in women) |
| Cotes porcors |
| Systemic contrasterends have slover oruet aution (3h), max effect 9-12h e |
| prolonged use is limited by their adverse effect. Typically used as short course (5-10 days) |
| Typically used as short course (5-10 days) |
| A -1 9 Suppose liquidate X 1 1 is altituded adapted to the control of the control |
| 02 II TCC J. II. |
| a la d ICS in children |
| - Effectiveness of ICS on dulchen depends on: age, triggers, whereing phenotype, invitant |
| exposure & genotype |
| Overally ICS seems to be more effective in older children's those of more |
| severe symptomo |
| O I I I I I TOO I TOO I TO I I I I I I I |
| - Regular frealment w/ ICS improves whering, asthma symptoms & lung finction |
| e reduce flare-ups in infants e preschoolers n/ persistent nhicering in asthum |
| In schoolaged dildren of mile asthma, regular landon of ICS heatment |
| the rate of flare-ups that require treatment u/ and conticostenoid, comp |
| Wood ficalment & prin SABAs for wheezing episodes. |
| the second of th |
| - Early inhoduction of ICS for children n'recurrent where does not prevent owner remodelling, improve long-term lung function or prevent the once of pursusunt as thema |
| remodelling, improve long-term lung function or prevent the onset of persistent |
| arthma |
| - 211 - and of well wife with a war on a serie |
| ICS generally is considered safe in children, but the potential effect related to Blueangel's |
| Blueangel 7 |
| A.L |

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|---|--|
| | its regular use, especially in higher dozes tentimue to be a muli of cince |
| | ICS therapy should always aim to reach the lowest possible dose because |
| | must adverse effects are due dependent and are more commun in individuals |
| | receiving concomitant and on nacal contrasterends |
| | The refunded adverse effect of ICS need to be neighed against their benefits to |
| | can had purishent asthma, especially that its safety profile is markedly bette |
| | them oral gluco conficueds |
| | ITE, a ling what them K, a ling between the |
| | Mast cell stabilizers (cromones) |
| | Mait cell stubilizers reduce the immediate a delayed phases of the aithmatic |
| | response à l'hyperreachinty, flowarer, this effect is make short-acting. |
| | Cromoglifate e Nedocomul have been shown to: |
| | · Inhibit Ig E - mediated release of inflomations mediators |
| | · v exaggerated responses following instant reapter stimulation, suppress |
| | sursony C-fiber ruponses e desensitive neuronal reflex including vagal reflex |
| - | . I the release of nums peptides |
| | |
| | - Both churs are inhaled a use prophylactically as anti-inflammatory but |
| | net as bronchodilators |
| | -> Not used for acade asthma |
| | Unknown medianism of action, but may be related to the inhabition of Ca channel |
| | Unknown medicinism of action, but may be related to the inhabition of Carchamal thus I Carmillax |
| | 1011 1 0 11 + 11 TCC. 100. 11 - 0 Pont |
| | - Although aromones are less effective than ICS in controlling asthmax fung fraction |
| | thycan be given to: Those who chase not to take ICS |
| | Those who cannot tolerate ICS |
| | Thuse whose symptoms limited to excercise - induced brancho construction |
| | Blueangel 5 |
| | |

Inspire the love of learning - Cromones must be taken multiple times jurday, atte device requires daily maintenance due to the sticky formulation enkotriene reapter antagonists (LTRAs) - LTs are separated in to LTB a the aysterne LTs (Cz, Dz, Ez, Fz) They are very strong branchoconstructors (10000 frames more effective than historica) LTE, is less potent than Eac Da, but longer-lastring - LT omfargenists plax smooth muscle, allevating brancho construction cased by
the action of cysLT (which act on cysLT / receptor to 1 intracellular Courts) Gag achiation) - Montelukast a zafrilukast are examples of LTRAs. They relax smooth muscle, annay hyper-responsivenes, I lenkocyte activation e exinophilia, I mucus xcretion, I micropascular permeability LTRAs are used as a preventer med in children or also in monagement of exercise-induced asthma & as alternative preventer in adults (not 1 1/2) - Montelukastis registered by the TGA for me in children > Eyo Based on date, cannot define which children will benefit from the thurspy The main role of mentelukout: · Alternative to landose ICS in children w/ prequent-mild asthma Draw backs: · In adults e adulescents of authma that is not contalled by tow dose ICS, LTRAS v les effective than LABA + oral steroids in reducing authore flare ups · Addition of LTRAs is associated w/ less ling impovement a quality of life them . While LTRA & sputum eormophilia, noevidence for & inflormation in genind.

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|---|
| - However, the enal rente may be convenient. |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| - IT RAS are preventers & work best in mild outhma, thus a relien (SABA) |
| istill required. |
| 1 1 1 the restories of a laterage and where the proch- |
| - Montelukart is well tolerated, but some survey engagest acrociation w/ psychiatric |
| disonder in children |
| City separated and A. P. Charles works |
| - Cal March Commission & But Magrab Commission |
| |
| Inhaled muscurinie receptor anhugoniil (SAMA) (LAMA) |
| - Short-cochiny mudarinic receptor embryonists ey. I pratroprim . Tio tropium |
| relax month muscle, reliefe brunchoconstriction consect by overactive |
| penorympathetic in put |
| associate the first of as we is the property At make |
| - In haled Ipratropium (na amelered dose inhaler or mix w/salbutathed in a |
| nebulier) is a 2nd line bunchodilator in the management of acute asthma, |
| when salbutainal is not enough |
| |
| - Trotropium via mist inhaler can be an add-on option in adults who have |
| sexere athma flare-ups within the previous years, despite maintenana heatment |
| W ICS+LABA |
| when is proper mother property in partial to most opid |
| Alleger it to take a 7- It at should have a related |
| Monodonal ontibodies |
| - This therapy is reserved for managing severe, high-risk, e difficult-to_control |
| asthma in adults |
| Comalizuman & the only biologic specifically designed to block Ig E |
| Omalizumab is the only biologic specifically designed to block Ig E -> I release of mediator in early phase a late these in the allergic casehole It should not be used for counte asthma exceendation. |
| It should not be used for combe asthma excicarbation. |
| Blueangel |

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|---------------------------------------|--|
| - Omalizamile and | ordult & chillen > 12 go, n/ malerale to sur heatments raised Ig E levels |
| allegi aithma depils ICS | restance to raised In Elevels |
| | |
| 150 - 500 mg suballance | onely (injection) every 2-4 week |
| - Anaphylaxis has been severted offe | r omalizumas dosmy (0.1-0.19) |
| Other adverse effects: | . Hilly and the minimum of a |
| · Athalgra (8%) | · Arm poin (2%) |
| · Pain (general) (7%) | |
| · Legrain (4%) | · Day may to his (2%) |
| · Fatigne (3%) | - (00) |
| Drimess (5%) | and a rest advect the result. |
| () | estima marshirm solve toil. |
| we also as metals along of | An above there x do |
| In prolicitive patient, some other ac | brease effects has been reported. |
| | · Pharyngitis sheptocercal |
| | · Othis media |
| ^ | · Viral gastro enteritis |
| · Upper abdomined pain | in her is in this make which in |
| | |
| - Merchruman is on gold - on for | > 1240 n/ cenere refrecting evenophilical |
| Casthma associated Ma combinas | tion of sivere aitherer e exemphilia) |
| Mepolizumab should not be used | y acute authma |
| Megalirumab 100 my is given by in | |
| Mepolizaman bomole to IL-5 & in | rubit IL-5 signalling |
| -> I production & survival. | subit IL-5 signalling f essimophils (machanism not yet confirmed) |
| k like a live dad some augurnos | A har see is march wit. |
| - Adverse effect of Mepolirumab: | La Sila Continue |
| · Hypersuntroly reactions | · Back pain |
| · Headache | |
| · In section - site reaction | un of he of blob II |
| The state of the state of | Blueangel of |

| Inspire the love of learning |
|--|
| Adminiphection of asthmer meds |
| - Inhalation = primary route for both "preventers" & relivers" |
| - Longe number of debrury devices are available, determined by the |
| charce of drug |
| appeal matter sign adopted and the state of |
| Patient should have the abolity to use a device subspectaily, associal by a |
| Patrient should have the abolity to use a device substantially, assisted by a competent health professioned |
| the state of the s |
| - Inhalation rente is the mainstrip of respiratory care due to these advantages: |
| · Quick enset of action |
| · V total dose required compared to other route |
| · Higher in situ drug concentration them oral/parenteral routes |
| · Les aystemia abanption -> less systemic side effects |
| this is the amount of the second of the seco |
| - The 4 main types of inhaler devices for asthma & COPD meds: |
| · Momenally-actualed pressured metered-dose inhalers (pMDI) (conventional) |
| Breath-advated pressurized metered-close inhalers |
| · Dry powder inhalers (DPI) (multidose & capsule types) |
| · Mist inhaler |
| Correct techniques bose on the device. Poor inhaler techniques -> vorse outcomes |
| Techniques inonsonsover time -> Regular check for ensuring safety, inducting |
| physical demonstration must be tested a trained. |
| Country the other or allowed |
| - Some familieu devices: - Accubaler |
| · p MDI |
| · pNDI + spacer |
| · Turbuhaler. |
| Implimater. |
| Charles |
| 20 0™ |
| Blueangel |

Inspire the love of learning asthmu management & drug treatment principles of principles for adute: · Aim for early control, we stepping up on down of treatment or required Before a now drug therapy + Check compliance wixisting therapy Check inhaler tahnique + Eliminate trigger facture Prescribe reliever therapy for all patients w/ symtomatri asthma: + Inhaled SABA is a standard therapy & should be carried by all patients (except there using buchenoside - furmeteral) + Formatinal is an effective reliever, do not require a separate su · If a preventor med is indicated, start of low-dose ICS. On a conholled, ICS dose to lonest effective dose when asthma is consistently well-only · Adults of moderat persident authma: , addition of 1 · If asthma is not adequately controlled, refer to a specialist budesonide - formeteral combination can be used in maintenances reliever regimens: (Symbicont) 100/6 mag or 200/6 mag mcq or 100/3 mig 600/12 mig on 200/6 mig should be used this way Consider Higher dose preventer CS/LABA (Mardinate duse) Stepped-up regular preventer ISC/LABA (lundose) or Symbicent (lundose) MOST putters Regular presenter ICS Clandon ALL potients PRN relieves

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|---|
| General principles for children: |
| . SASA should be presented as relieves therepy for all children of grantomentically |
| . ICS > 250 mcg of becometherene (or equivalent) should only be prescribed on |
| specalist activite |
| · Limited evidence for the efficacy of LABAs in children, but can be had in |
| combination m/ ICS when initial preventer is not effective |
| · Frequent intermittent-to-mild persistent asthma - landose ICS on URAs or |
| impaled cromones |
| · Moderate la severe outhmer - ICS is preserved, may consider adding monteliabest or LABA fluxdose) to the lowedose ICS |
| or MON (concluse) to the company 200 |
| leferral |
| Stepp up regular preventer |
| ICS (high close) |
| ICS + montelukous + (lam otore) ICS + LABA (lamelum) |
| SOME children |
| ICS (low duse) on Montelukart on Cromones |
| 100 mm 101 |
| PRN reliever |
| SABA |
| - Start heatment w/ step must appropriate to severity a step up/olom of needed. |
| Improvement should evident within 1 month |
| Review technique, compliane a avoidonce visk before changing med dose |
| · Step up if not controlled |
| · Step down if well-controlled for Smonths |
| Goal: least meds to contral |
| Review every 3-6 month when outhour is moler control |
| The state for the state of the |
| @0 0 ^M |
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|--|
| - The responsiveness are reduced if the course of wheering is due to responsitively infect |
| * where bronchitis (would would |
| Many dildren from 2-5 m/ wheeze don't have asthma. Many have wind . |
| DOUGH CLICA JOHN A THINKING WANTER THE COLOR OF THE COLOR |
| These children are nell in the interval between episodes, are non-atopic & home |
| good prospect of outgrowing the lendency to wheeze in later child hard |
| Stemdard grouch: use SABAs as needed. ICS a oral steroids don't seemt |
| helpful, but LTRA may be useful as a long-term preventative agent |
| sors an "episale modifier" |
| ous episale mooning. |
| Asthma action plan |
| - As there action plan = self-management plan to help postiont/carer to recogn |
| e responsed to nonsening atthma control |
| -> Individualized, autumized. |
| It is a millen plan a shuld be carried around by the patient all the time |
| A series of the |
| - Use of a action plan |
| · & Obsence from mark/school |
| · Hespital admission |
| · L'emergency wht |
| reliever meds un |
| · I ling firetion |
| and should include: |
| · Usual meds for cutture e allergy |
| · Clear metruchin on how to change meds |
| . When a how to get med care, including during emergency |
| · Name of person preparing the plan |
| · Date |
| Mong plans follow traffictight system. |
| |
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|--|
| Grun zone - dving good |
| Ornage zone - getting worse |
| Red zone - medial alest |
| Maria de la |
| Phumacist role in asthma action plan |
| - Working of doctor to create on well-explaining plan so that patrentscom |
| adjust their therapies according to their needs. |
| The plan is often based on an objective measure of long fraction, eg PEF |
| For PEF measurement, it is better to take their personal best norther them predicted |
| value. Care should be taken if PEF falls. If no symptome, could be |
| over-heatment |
| PEF measurement is not recommended for L1240. In most children Wasthma, |
| a change in symptoms is as effective as PEF for industry the morsening of arthma |
| Patient preference should also be considered. |
| List plant of the state of market and the state of the st |
| - Patient should review the plan annually, & whenever there is any significant change |
| When reviewing, consider: |
| · Doos the prison know where their watter plan is |
| · If the plan is use more than once become of worsing asthmy in the last 12 months |
| review the person's never outhous proatment, authorance, technique, exposure to higger |
| · Age listed made a instruction amount a appropriate & |
| · Are contract details for medical core a acute care updated? |
| - Any of these, should be taken to the emerging dependment (ED); |
| - Any of these, should be taken to the emerging department (ED): |
| · Severe supracting disher |
| · No immediate a soutained response to reliever |
| · Despite treatment, getting wonce |
| |
| · PEF < 60% of personal but after reliever Blueangel 5 |
| |

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|--|
| a Arthme 1st and (4×4×4) |
| · Sit the person apright. Be calme reasoning |
| · Give 4 pulls of relieves (prefrably spacer) |
| · Na 1 puff at a time + 4 breaths after each puff |
| · Wait 4 mins, if nothing, we another 4 puffs |
| No impresement, aell 000 |
| · Keep giving 4 puffs /4 mins until adminutance arrives |
| Cupto 6-8 puffs /5 mms in adults) |
| For PET boundaries date the Killer Harponet Literatural Literatural |
| W Acule outhma management in the ED |
| Based on the National Asthma Consil of Australial: |
| · Assess severity while starting SABA immediately |
| Administer Oz therapy to achieve 92-95 % soutmention (adulats) on a 95% (chill) |
| · Start systems contro starsol within the 1 from of heatment & continue for |
| 5-10 day (onal unles dysphagia, then Wang IV hychocoshisene /6h) |
| · Repeated reassessing response to treatment & either: |
| + Continue tradement or adding until resulted |
| + I naw for partient to intensive cone unit |
| + Haspitalize the patient |
| · Observing the patrent for at least the offer dyspnea has resolved, providing post-and |
| cone e arranging follow-up |
| The transfer of the state of th |
| The state of the s |
| (0 3) I don't represent that all it blinks with set - |
| and the second s |
| M. Andrews Superior Superior & today of M. |
| some who had should |
| Many Par hell to the High thomas downer with which will be a |
| Blueangel 5 |

| Wheethe top of learn 29/3/2018 |
|--|
| I) Pathophysiology, case finding, dragnosis e clusefication of COPD |
| - COPD is charcelevized by arriflow limitation that is not fully reversible However, it can be prevented a heatable. |
| The amflow limitation is usually progressive & curcialed w/ an abnormal inflamming response of the lung to noxious perfectes or gaves. |
| |
| -COPD encompasses a number of diseases: • Emphysema (Pink puffer): The aveoli are affected; the love of elastin in he absoli results in I surface area a collapsed absoli |
| · Chumin bronchitis (Blue bleater): Smooth muscle hypertrophy e contraction, e |
| - Common symptoms: |
| · Dyspried, change in respiratory rate & the effect in breathing · Chesty chanic cough · Exassive sputum production |
| · Exassive sputim production · Weakness, fortigne, exaccice in tolerance |
| Mik pulou: |
| Ain polutant - Low eco statu |
| antitupsin de licienary |
| - COPD is heterogenous, slowly progressive disease, w/ multiple chinical features & comorbidities, requiring management to be textured to the individual |
| spinometry is the gold standard by Cappy |
| Vaniety of phumaco & non-phumaco heatments are used in a step wise fewhron to control symptoms e & COPD exacortation |
| |

Blueangel 7

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|--|
| - Like asthma, a COPD rection plan serves to help patients a covers regionièe & |
| repond to signs of an exacerbation to prevent happhelization |
| COPD-X plan: |
| · Confinen cliagnonis |
| · Oplimite finction |
| · Prevent deterioration |
| · Develop a plan of care |
| · Manage Xasarbation |
| The file of the state of the st |
| D'II I |
| Pathophynology . |
| - Similar to asthma, COPD is an example of an obshuttive respinatory disorder, |
| but w/ some major differences. As mentioned, (OI) after The conduction of |
| our from the en moment to the absoli by I main mechanisms: |
| · Smooth muscle hypertraphy & excess prestration of much |
| 1some damage & aluabase degredation |
| - In contract to action COPD is leavely convertle a me date to be actions |
| - In contast to author, COPD is largely inversable, a one obstruction from authorn is the observed inflammatory profile in COPD |
| The specific in from the court |
| - Unlike asthma (sumptime may vary day to day), sumptime of COPD are relatively |
| - Unlike asthma (symptoms may vary day to day), symptoms of COPD are relatively consistent |
| The Color of the C |
| COPD exacabation |
| - Maracterized by Tolyspiea, cough a sputim, is acute in onset a typically |
| warrant a change in mids on housetal admission |
| Patients w/ more severe COPD (as suggested from spirometry) are more likely to suffer 12-month mustality rule following hospital admission is a best 25% Better to prevent ruther than huspitalization |
| 12-month montality rule following hospital admission is about 25% |
| -> Bother to prevent ruther than huspitalization. |
| |

| Inspire the love of learning |
|--|
| - Triggers for exacarbation include woul a haterial injection, heart fadine, psychosomic shessons e am pellatemts |
| shusons e an pollatents |
| Pathophysiology of COPD (detailed) |
| The matern & cellular changes in COPD |
| tube a modification of the normal inflammatory response of the suprior |
| Chief to chronic invitants eg creantle moke |
| Chronic inntrotolier leads to chronic inflommation, am COPD there is an inflox e activation of: |
| · Macrophages |
| Neuhophils 1900 and 1900 |
| Lymphocytes |
| to smorphils, especially when there is dinical overlap w/ outhing |
| All these alls , together of epithelial alle s other structural alle release multiple |
| inflammation mediators, eg IL (IL-8, IL-16, IL-6), TNF-a southe mode, |
| LTBa e reactive oxygen species |
| Nentrophils also release other clertuctive peroxidases & elastones |
| -> Effects, Muons hypersecretion, Fibrosis, Alrealan wall destruction |
| The inflammatory profile is districtive from authma |
| - The inflammatory profile à dubnichi e frem authma • Asthmu: 1 IL-4 e eosinophils |
| · COPD: / IL- & e neutrophile |
| Despite differences, both condition may everlap & it is recognized that commit |
| 2 neutro phils can release mection that can dection line line from ? |
| · Chemetrictre foreton, attruct inflummatory cells |
| 1 wintermortany cyto kines, amplify the inflammation mouse |
| browth factors 2 make shuthar change |
| The state of med will be then of a soul some before |
| The state of the s |
| Al med 7 |

or Million

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|---------|--|
| | - Oxidative shes a excess protemares in the lung one likely to further modely |
| | inflammation -> changes in pathology |
| | The suffermention fends to persist even offer smoking cessation, thru emknown mechaning |
| | · Oxidants from cigarett smake |
| | · Release from inflammentory cells |
| | An bioxident reduction |
| | · Badative shess |
| | hand the second with the second second |
| | - Mucus Inpersecretion -> chrinic productive cough, a climical feature of branchitis |
| | a may not necessarily be associated of air flow limit dition |
| | Much hyperscoretion is due to hyperplasic & hypertrephy changes: |
| | number of goblet cells { result from instation e noxions gase |
| | Enlarged, delated submucused glands. |
| | • Inflammation moderations e professes relaces via the activation of EGF receptors |
| C.V. | These excess much are difficult to remove via coughing only, & mucus is a good bouterie |
| | open the neclim -> prequent factorial cheet imfaction |
| | The state of the state of the same of the |
| C SAESA | The second of th |
| | ro Effects - Symptom |
| | - Patrient N/COPD will have a V inspiratory & expiratory flow - I hish Oz air reaching the alreali |
| and a | On air reading the alreali |
| | Land of the second of the seco |
| | - The extent of inflammation phonosis a secretions correlates w/ reduction in FEV |
| dia. | e FEV /FVC ratio |
| | The peripheral arrang limitation progressively traps gas during expiration, leading |
| | £ 1, in 10 to |
| | -> I inspiration capacity at rest, e is commonly associated we exertional dysponea e limited exercise capacity |
| | 2 limited exercise consertu |
| | antitial arrest Copieting |
| | |

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|--|
| - Observed symptoms: |
| · Hime to Viet a graphiam |
| To any all due to damage to the Almand |
| Ctyre I al veolen alle a capillary endo their all the to protemone. Ventilation: as heren (V:P) momental Cefficient emply (|
| · Ventilation: perfusion (V:P) momental Cefficient supply (removal of an is next matched by an adequate blood supply or vice versa) • I breathing ellert |
| is next matched by an adequate blood exply or vice versa) |
| 1. breathing effort |
| · Ventilation drive ventilating muscle impairment |
| · 1 dead space ventilation |
| A Line of the second of the se |
| The net effect of gen exchange abnormality -> hypoxemia (lawle) e hypercapria (high CO2). |
| hypercaphia (high CO2). |
| The state of the s |
| - During expandition of COPD: I hyperentlation & gas trapping in Lexinality flow - I dissprea |
| flow -> I dysprea |
| Also wonsening hypoxemia |
| Other condition ey menmonia, thromboembolism, condine falue may minic |
| or aggravate on exacerbation of COPD |
| P 1 0 0 1 10 + 1 1 0 0 1 10 10 10 |
| - Repeated cycles of inflammation, butered infection then inflammation again |
| cause thikening enarrowing of the curring |
| -> Permanent damage & remodelling |
| When exhalation is affected, the alrealy then be come overinglated a push again |
| the draphragm preventing efficient mut of the draphragm - the draphragm |
| is mable to grown the optimal cencare shape for breathing |
| → Much more effort |
| angula Lander of the Land of the same produced in the same of the |
| 6 1 20832 bill a s |
| |
| Blueangels |

| Inspire the love of Camparision | | i in mode | | | |
|---|---|------------------------------|--|--|--|
| cmparate | are associated of chausis ration | my time of the RT of Allinon | | | |
| - Corpe asian | - COPD a asthma are associated of chronic inflommation of the RT, of difference on inflommating allo a medicator involved in the & diseases | | | | |
| m inflammatory | COPP have Jeathree consistent of | I outhorse & may have | | | |
| Some portions w | de la ferra de la conscionada del conscionada de la conscionada del conscionada de la conscionada de la conscionada del conscionada de la conscionada del | prosecure may come | | | |
| mixed inflamm | notory pattern of 1 easinophils | al | | | |
| 8 -541- | Asthma | COPP | | | |
| Creet | Early in life (<30 typically) | In mid-lyle (>40) | | | |
| Family history | Common | Uncomm | | | |
| Hubry of atory | Usual (w/ allergi rhinitise esseno) | Clycommun | | | |
| Comple | · Atopy (allergij & immunulogy) | · Irritante, mozioni gases | | | |
| in a contact of the | Nan-atopy | · Genetic (rare) | | | |
| Sife of inflammation | Mainly larger airmous | Mainly smaller airmay & lung | | | |
| A MANAGER AND | when IF IX FIN AT I | purenchyma | | | |
| Inflammating medicators | Essino phile, CD4+ Talle, | Neutrophile, CD8 + Tcells, | | | |
| and the way we will | 2 all 11 | To all | | | |
| Cough | Non-productive, northmal, post exercise | Productive, early morning | | | |
| Dyspnia | Episcolic | Percislent | | | |
| Noctumal symptom | Common | Uncommon | | | |
| Parulent sputim | Uncommon | Typical | | | |
| Chut auscultuhin | Wheezing during flure ups | 1 breath sound | | | |
| Reservability on dilator | Almost fully reverible | Partial to none | | | |
| Lesponde to ICS | Good by the strong | Limited | | | |
| | which wealth to this worker | 1111 | | | |
| | (100) alter | 1 | | | |
| Diagnosis Je | en COPD | | | | |
| | is used under the form of the | ck list (yes-no) townen | | | |
| sick & whot | her agaten needs to take a sp | inametry test | | | |
| 1101 | and a location. Amend to accord a sh | stratel4 | | | |

| | | 100 |
|--|--|--|
| Inspire the love of lea | rning | WALLEST AND |
| Do you: | pusistent or changed eoug | hl |
| The sale of anni | pusisten or change con | San Carlotte Barrier |
| - May ac varie | u, phologin or blood? | wall are ? |
| COM CALL TARE | n II Nata C | // 0/0/2 |
| get breathan | 1 high tress can wheere | |
| O DECEMBER AND CALL | | |
| e h ale man | | A COICHVLI AUSS |
| experience che | st pain, Junque | cally could be atrisk from: |
| I wow ams werect of | 4 0 | THE TAKE A SECTION ASSET |
| · smake on Ma | ve sever smoked? | dut, and on fume? |
| · work in on | minimum of the contract of the | south and |
| and meeting of the latest | Company of the Alan | needs to have a spinometry respondent fest as |
| - The risk anssmu | nt checklist indicates me | on one come tou fest |
| test. Associate | I w/ the checkbat is a mile | 1. Hat the votient has a |
| A let result n/ | FEV, /FEV & O. +) incline | les that the partient has a |
| 13 17 19 / 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | i. I Vh - 111/1/ Mabnumau | Zivino jiro |
| as at I want | When mushacitum m | my provide the state of the sta |
| brochemistry, | complex lung function tests, | exercise shew testing, ECG e |
| echo cardrogre | ephy | |
| 100000000000000000000000000000000000000 | Zange (C.) | ANGENIA ANDWALLAND |
| (riteria: | 1311 | 1 0 0 11 (FEV/5V. (0) |
| · (OP) is co | of innect by the presence of persister | 1 airflow Cimitation (FEV,/FVC ()) |
| · An FEV | innear > 1/6 & 1/1/ml co | nistitutes a positive branchedilater |
| - TI FEV | onggistive of reversibility | 1 101 1 a Hama On |
| | uncrease >400 mL following bru asthona/COPD | renolitator, consider astrum |
| W. K. | wastorius / SO D | A TOTAL STATE OF THE STATE OF T |
| Severity | Post-brunchs dislutor FBV4/FVC | FEVA % predicted |
| Mild | Parker & O. 7 my hospinan | 60-80 |
| Moderate | €0.7 | 40-60 |
| Severe | €0.7 | 440 |
| a tour and a | | Blueangel 3 |

| | reclicted: FEV, & of the patient devided by the average FEV, 25 purpolation for any parson of similar age, sex a body composition |
|--------------|--|
| | de la la contra de la contra del la contra de la contra de la contra de la contra del la contra de la contra del la con |
| Bull on | according to the secretary of the territory |
| | La company of the later and th |
| - 63 ° 1 | in point is about the country of the second of the second |
| | and their comments of the property of the |
| 176.30 | the state of the s |
| | Charles Deco |
| المور | - III) be well a few as able |
| <i>y</i> | mak migrat, before the horse to a (10) |
| | have the state of |
| A CONTRACTOR | - make a second at the second second and the second second at the second |
| 100 | as part state to the days of process and second from the second |
| | |
| 144 - 158 | as his breedy age (417) or with many it is |
| 1/2/1/20 | and sparity of the property of the sparity of the little |
| 180 100 | |
| 1111 | Stable and Survey of the sale |

| II) Management of COPD |
|---|
| |
| COPD - X Grundelines |
| OCOPD-X Gurdeline |
| highlights the evidence for key clinical recommendations of the |
| Cotion 1 copp |
| Optimal COPP management relies on choosing appropriate much some phermaculagical measures of organized monitoring a telephonory of through the core professionals |
| Multidimention of thempy |
| s introductionary approach involves many health care profisionals |
| |
| ~ Challenges |
| - Under-recognition e under-diagnosis of COPD -> delay in initial histories COPD is also complicable, associated w various diseases eg. cardio use, analy depression -> add to the analysis |
| OFD is also compliculal, associated of various diseases eg. cardio pas, anxity |
| out to the compactific |
| - Combination therapy has been demonstrated to be beneficial in patient of |
| more severe COPD |
| T 1- 0000 |
| In a progressive disease by (OPD), more pharmacological a non-pharmacological trought are required to manage symptoms as time goes on — Offerly complicated med regimen for patients to manage |
| - Ufferly complicated mid region for an time goes on |
| J The state of portains to maning |
| - Phermacists can axist by identifying patient of characteristic CUPD symptom to refer to a GiP for spinometry. Smoking should be somened a assessed. In place phermicist can helpmentaring the treatment a archerence |
| refer to a til for spirometry. Smoking should be soroened a assessed. |
| 4n-place promocist can helpmanitoring the treatment & archerence |
| 22 Support Patients & Quitti and |
| - To bucco = risk fuctor for COPD -> Smoking consistion is a management Holth pro can motivate quit attempt a maintain long-term consistion. |
| Hollh pro can mutivate quit attempt a muintain long-term cerration |
| 20ad 57 |

| ř | Inspire the love of learning | |
|--|--|--|
| | 5A's shuligg for snoke quiting ? | |
| | Ask a jolantify mukars at visit | - |
| | · Assess nicotine defendancy e mutivale to quit | |
| | · Advice about the risk of smoking a benefits of quitty | _ |
| - | Asust anaton | _ |
| | · Arronge fellow - up | _ |
| | | - |
| 23 | - Nicotive dependent can be headed w NKI, varebiline a bupropion. | 4 |
| 1 110 | - Micotine dependent can be hidaled w NRT, varebiline a bapaupion. Longer course many & relapse | The same of |
| ¥ | | manufacture and the |
| diploy of | Refer to the selfmonde note about smoking a working | The same |
| Reight | James and James | - |
| derg | Strategies for COPD management. | - |
| and the state of t | 02 Non-ohuma columnal shategies for COTD | CONTRACTOR OF THE PARTY OF THE |
| 1 10 17 17 | following as how that metres programs devised by a physic thropast that allow | The Party of the P |
| The second second | execte harning alone on in confinetion of parent namedian as the | - |
| es (tade. | plant the search bon & Dell Milliant Stopped | 1 |
| The section of the section | The method is exident in partiets of stable CIPD a post-exactioning | - |
| A STATE OF THE PARTY OF THE PAR | Exercise should be encomorage as machinity may result in COPD exacerbothing | |
| epi datan. | a Pharmacological shartegies for CORP | |
| | Aim to V symptoms, prevent exacerbations & improve health status by tangetring | · · |
| | the pathophysiology of COPD | 1 |
| | None of existency medications for COPD macify the long term decline of ling function | - decar |
| | Choice of theropy depends on the availability, cost of meds, favorable response / side effect | |
| 19/4/15 | None of existing medications for COPD madify the long term decline of ling fraction. Choice of therepy depends on the availability, cost of meds, Javarable response /side effect balonce | 1 |
| | -> Step vise approach antil well-controlled | |
| | | - |
| | Blueangel | SCHOOL STATE OF STREET |
| A. A. | a place and a plac | Minneson Con- |

| | Inspire the love of learning |
|---------------------------------------|--|
| | - The primary rente for administration of needs for COPD is inhabition |
| | -> Required inhaling technique |
| | 50% 1110 % of material clements rules withing the straining |
| | The Worse ontcome |
| | → Worse ontcome The more inhalar devices & doses → more arrows in inhalar use → the needs to optimize the n'of inhalar & closes |
| | The much to opprimize the regiment |
| Transcent | Mild Moderate Severe |
| Typical | • Few symptome • Breathless on moderate exertion • Breathless on moderate exertion • Limitation of clarify criticity • Darly extricty |
| | · Bacatheless on moderate exertion · Limitation of clarity criticity · Party cretivity · Recurent chest refection · Cough & sportion production · Fegular sportion production |
| _ | · Little or no effect on duly what o France before recourses One (5) 10 Charanic country |
| Typical lung function | FEV, = 60-80% puchehul FEV, = 40-59% predicted FEV, < 40% probabel |
| Non-phoma | 1 O b paronetted |
| alla | RISK REDUCTION chick smaking, support estation, annual flu receive & prenowercal recom |
| - (2)79 | OPTIMIZE FUNCTION Encurage exercise, provide education, develop plans |
| | CONSIDER CO-MORBIDITIES especially cardiores disease, enxiety, depression, languages, |
| (10) | REPER to pulmonary rehab for symplematic persons |
| i | The state of the s |
| | Consider Oz therapy, surgery, branchuscopic Intervention, pallicative care reasise & advance and planting the care reasise & advance and |
| Phama | Start of shortacting relieven CPRN) |
| Philippin and an artist of the second | SABA on SAMA |
| H. Lal J. | Add long-acting LAMA LABA |
| 3 | branchiddaton Review need for 1 AMA/1 ARA |
| 40 | TCS/LABA and LAMA |
| | CMI-IN/CAMPINION |
| | Check device usage technique & a charence deach visit |
| | Blueangel 5 |
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| SABA Sel Lutermel; Ferbritaline SAMA Imatropium Ves Ves Ves Ves Ves Ves Ves Ve | Figure | explanation: | | 1 | | | ru k | |
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| Coal Alleviale the superform Parent COPD concertation The starting year for mild COPD is to commune a shutenting relieve (SARA) or SAMA) If the year have origing breatholerous or is experiencing COPD examination, on add LAMA or LABA can be used in sambination to assist COPD management As COPD progress into the moderale a severe category, ICS should be considered (in the form of a combined TCS/LABA in holes) Some throughes can be used as a combination, while others cornect Drugs SARA SANA LAMA LARA LABA/LAPA ics/LA SANA I produpum Yes Yes Yes Yes Yes LAMA Transporm, Glycopyranonium, As Arlichimium, Unuclidenium, LAMA Transporm, Glycopyranonium, As Arlichimium, Unuclidenium, LAMA Transporm, Glycopyranonium, LAMA Indonna/Formichard Troboptum Oladodnut Alindmum / Formichard | - time profres were no true of COPD | | | | | | | ease censi |
| Alleviale tha experience Revent COPD concerteation The stration year for mild COPD is to commune a shutenting retienn (SARA Da SAMA) If the pertaint how engoing breathdersons or is experiencen. COPD concertainty, an add LANA on LABA should be done LANA e LABA can be used in combination to assist COPD management As COPD progresses into the moderate a secone category, ICS should be considered (in the form of a combined ICS/LABA in bales) Some throughes can be used as a combination, while others cornect. Drugs SABA SANA LANA LABA LABA LABA LABALAHA iCS/LABAS SABA Sal balance Terbutaline SABA Sal balance Transportum, Glycopyrecomm, As Yes Yes Yes LAMA Tohoprum, Glycopyrecomm LAMA Tohoprum, Glycopyrecomm LAMA Tohoprum, Charlesonel - Tohoprum / Olodobrel - Alindemum / Formaland - Fluticiene / Salmaland - Fluticiene / Salmaland | 0. | | g CVI | y Lang | EM N | HAM JAM | the public or | |
| The structure from mild COPP is to commence a shurtentry relieve (SABADO SANA) If the pertent here origing breathdriness or is experiencing COPD exacerbation, an add LAMAT or LABBAT can be used in combination to assist COPD managinant As COPD progresses insto the moderate & rever category. ICS should be considered (in the form of a combined ICS/LABAT inhaber) Some throughes can be used as a combination, while others corner. Some throughes can be used as a combination, while others corner. Some throughes can be used as a combination, while others corner. Some throughes can be used as a combination, while others corner. Some throughes can be used as a combination, while others corner. Some throughes can be used as a combination, while others corner. Some throughes can be used as a combination, while others corner. Some throughes can be used as a combination, while others corner. Some throughes can be used as a combination, while others corner. Some throughest considered to the combination of the considered of th | | | 4 1 | | Min. | hill a | Adu | |
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| Drays SABA SAMA LAMA LABA LABA/LAMA ics/LA SABA Sil Lutuml; Ferbutuline Yes Yes Yes Yes SAMA Inutrophum Glejcopyranium, Ar Yes LAMA Actidinium, Umuclidunium LABA Sil milerel, Farmolarel, Yes Yes Yes Indactarel Indactarel Indactarel Indactarel Tiothopium/Olodaturel Actindimium/Farmolarel Fluticusare/Salmiterel Fluticusare/Salmiterel Fluticusare/Salmiterel | · of | a down to his many | 10 | 200 | | | | |
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| Phurmucological Strategies. |
| ~ Vaccination |
| - Inactivated influenza vaccine I exacurbation due to the in COPD, especially in epolon |
| years 1 DO D. E. |
| Adverse effect: mild, local, homosent, self-uming |
| Adverse effect: onild, local, honorient, self-limiting - There is no increase in exacerbation before momentally how developed, but the partients one - There is no increase in exacerbation before momentally how developed, but the partients one |
| encourage to get the vaccine ASAP |
| Annual vaccination is ast effective, penticularly in partial of severe CCPD |
| Du Suca Demoid |
| ->5040 No hard remaissibility of polysacharide preumococoal vaccine, plus 5 year revoccine |
| will have protection against preumaning to confirmation |
| Influenza raccine has additive beneficial effect |
| La de la la la la la constante de la constante |
| a Brenchedulator |
| 0 0 101 2000 the man and a contraction |
| Act by altering airway smooth much tone to 2 aiglar a tend to I hiperenthition |
| MATERIAL ATAL ANAL ANAL ANAL ASAL Spund |
| - Most of then given & LAMA; LABA, ICS on regular basis to present or reduce symptoms |
| Toxicity a size - effect are dose-related. |
| SABA & SAMA are use PRN for symptom relief, but long-term use is not recorded If short outing bronchvelleiter is insufficient, Lay reting bronchvelleiter should be considered |
| |
| - Formetriel e Sulmitaral are twice devily CABA that significantly 7 FEX, lingual, dysprica, health statis, exacerbation rule a hospitalization, but shown affect on mortality or rate of decline of linguishin |
| dysphea, health stary, exacerbation rule a huspitalization, but showns effect on |
| mortality or rate of decline of ling free from |
| The state of the s |
| Idacateral mag produce coughing as side effect |
| CAD I D . VIL JA D I JEL J I I AD A LD I O D E |
| Oladafird & Vilanteral are additional oncedarly LABA that improve long frontin escription |
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| also inhibit rasodilation to I much | secretion 1 1-1 1 1-1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
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| to be claimed -> prime to injection | V. L. My M. |
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| Torret reception Mz: SANA; mall | also block M2 to reduce brunchwarstniha via |
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| Extensive use of this class in wide se | mge of closes now proving 10 sec very sign |
| Adven effects: drymouth, metallice to | mge of doses how shown to be very safe |
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| | much might by " |
| | Blueangel |

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| as Anti-molamontory orgents | Tunganim Townsoll Co. |
| - An ICS/LABA combination may be a | widered in severe COPD (FEV, COOZpho) |
| However, adoposed ICS may I the risk of | |
| regnerters Willy of their politices of | |
| Athenah LANA/LABA appears to be more be | refried them ICS/LABA, the need |
| ICS/LABA remains an aption for moder | rule COPP who need additional treatment |
| the first left is bout a tomar | Harris troy wo M. |
| - Opposite to outure: | with along at a town the |
| · Arthmu: ICS first line, from L | ABA M. |
| · COSD. LAMA/LABA justine, | Hen ICS |
| smart administration of a mark | Lind of section |
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| multiple action induction: | Abborthlink |
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| In patients w/ COPD, highdere (> 1200 | hing/of) NAC should be convidered effective |
| for Lexicerbation | ma lign |
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| A company of the state of the s | Harry E. H. A. L. S. L. market |
| Monagement of (OP) | |
| a COPD exacerbution - hunartion & Managemen | |
| - COPD oxacerbation: 1 in dygnen, cough, ox | witom, acute coset, hyproally womant |
| a change for medication or hospital ac | lahisian berepaket |
| Trigger for exacerbation: | |
| · Veral / butterial infection | |
| · Left vantriele fevilme | |
| Psychological struser | the said the same the help and |
| · Pollution | a Blueangel 5 |
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| corp act | In plan serves to help patrents a corer to recognize a respond to early sign |
| . Marl | ked I'm intensity of enjoy toms |
| Patie | into the exacerbation characterized by Tolyma, cough, spection plus one or more |
| , tur | + Lack response to appropriate community-based management |
| | + Inability tomak between rooms |
| | + Inability to ent on chep due to chypnen |
| | + Carnet manage otherse wer n/ home cone resonne |
| | + High sisk comun bil conditions |
| | + Alfredmental status, suggestive of hypercopnia |
| (Br | + Worse hypoxemia or con polonovale |
| NATI AND | |
| | + Newly occurry arthythmia + Newly occurry hypoxemia (p 0,2 (32%) |
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| T. havi | That may not another excult example this |
| 12 / 10 | tul monagement of excule exacerbation our of substance, 4-8 ruffs via MDZ/spucer every 3-4h |
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| T) | ing dose of and prednisolene 30-50 eng for 5 days CIV shows no difference |
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| oly-mer | regement support is the systematric provision of education emprostrue intervention although the problem |
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| Low desc menophin | trujes of COPP, Or thereing may be used a com also be employed to heat reportery breathlesones |
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| Patients on those s | lages experience many distress; symptoms; |
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| Targements | I to the other photo is with the ? |
| Early occess to vi | alliate care is recommended for patient w/ COPD a person |
| Active freatment | alliatre care is recommended for patient w/ COPD a person may require a multidisciplinary team |
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| | - Chalphose: concress effort of ingusting food (cheming a mostication) smallong begins when trugge plush the bolis back against the seff plan the seft plate elevate to make my for food. |
| | - Phanyogkal phase: Joud entering phungme activate the smallong center in the brown star touch reaptor & sensory numer The smallong anter signal the motor nuclei on the cranial morass instrate several events: p Epiglotteri closes the laryons |
| | Respiration stops Upper exophageal sphinter (UOP) |
| | Esophugeal phase: transport Jood vier the esophagns into the stomach esophageal peristalisis is a vago-vagal reflex involving sens mo for account of the vagus merves, invitate van ACh releas vasocitive intestinal pertioli (VIP) on nichic Garde (NO) the meter neuron |
| | the bodis reaches the lower esophages converthe release of NO & DP, to the relevantion of the lower esophageal sphincier (LOS). |
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| Occurs Man | ent LOS relaxation |
| - GOR | |
| | the state of the s |
| Campe | Rick John of GORD |
| 2 cant | to close properly can be due to. |
| Falure of LVJ | mooth muscle relaxent |
| · Muky | LOS (imcleur michamien) |
| · Weaking | and a feel man was a stage with you for orthogon |
| Factor | Korown underlyng mechanism |
| acmarght . | I presume on the stomath & weakening of LOS |
| High fat, sugs, into diet | Prulonyed goshic emptyry trone |
| Ande, alabel, coffee | Relax the LOS |
| Pregnances | Changes in harmone lule - slaw digestive system & Tpressive on stomach |
| Grasho paresis | Prolonged gashie emphysis From |
| Snorth muscle relaxant | Nithates, Ca bloker, Bz-agonist |
| Male gender | The second secon |
| Older age | no Maria |
| Conscasion ethrority- | and the land on the land of going the state of the |
| Family his boy | |
| Histor hunin | This occurs when there is a portion of the strong protending thru the histal |
| 21 (A) | This occurs when there is a portion of the short country a con Trish of oler & |
| land I have | + 16080 |
| Folloger Ellison | 1 gastrie production, I gastre netroty e monsen symptoms |
| Synchime | |
| Hypercalcemia | Populair production |
| Schroderma & | Can be associated of esophageal dysmotility |
| Systemic sclenosis | Constant of the land of the la |
| La let | 1 No. 100 () 1.0 () |
| | Blueangel |
| | |

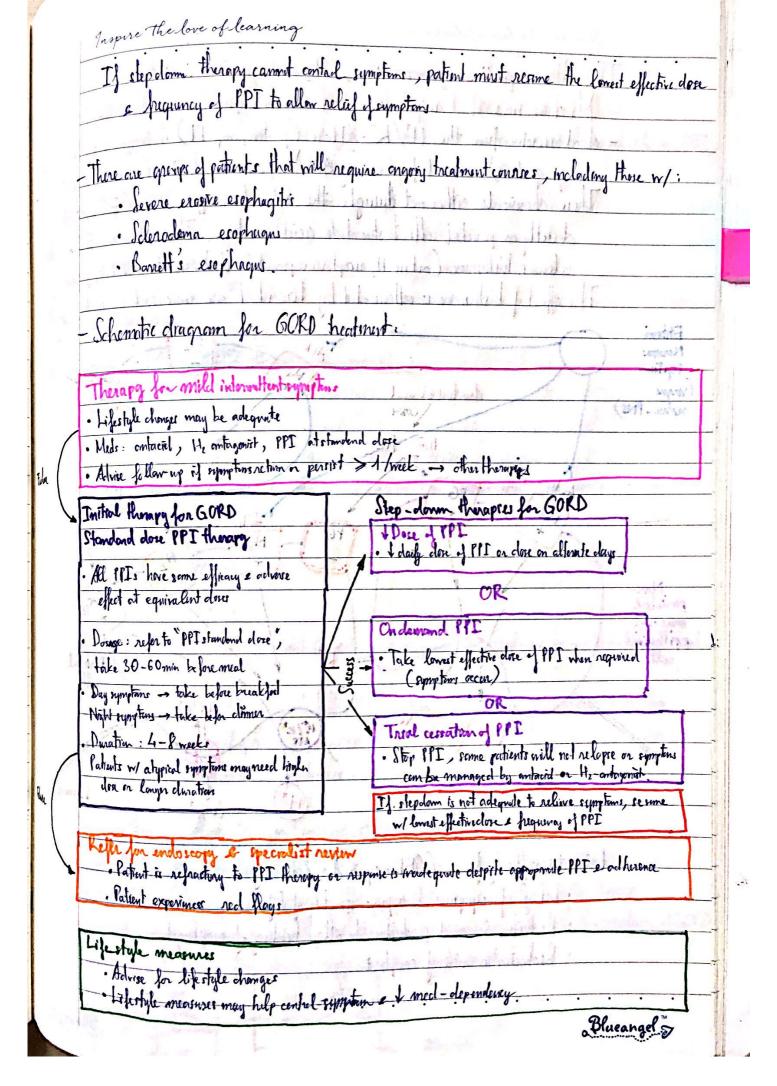
| Inspire the love of learning | all all and so |
|---|--|
| Co Symptoms | and the same of th |
| - heartburn, regurgitation, matter | Mase trans |
| - USE LINDO CARF protocol to elaborate the | And the |
| LINDOCARF. | A PART WALLES |
| O Lecation (1900) to old star | Language (Constant) |
| -300 | michil |
| - Typically in the stemuch region Capiquestrie on the lover chest tomords the neck | 1 months |
| - Ap. 60% will also have upper ab pain / discomfort | hystory . |
| - Atypical symptom can be non-specific & many | A Think |
| inducate this is not GORD, on there are Roy | |
| A) I + Hyp | sochandrice Region Hypochlinobiae |
| · In the chest as chest pain (heast prok) R. | ght Umbalical Left |
| Water brush metallic sour tutte acted | nbon / Region Lumbon green / Region - |
| Voice changes/huarseness (acid destray laryma) | ight Happogowhi Left |
| AsThine (GUK) can trigger custum entreports Ill | ne Region Iline |
| 2 11 | gian Kegin |
| · Delching | Chila ege |
| · Nousea · A lump in throat, a noctumul dubling | (Consider anyone) |
| 14 sump in mirror, or accomment according | Add hard . |
| and Intensity with the trade of a stand of the stand of the | |
| - GORD pain can be mild (0-3) to severe (8-1 | ne l |
| - GORD severity is not accessed by pain, but by the pre | , |
| -> Severe disease a complicated rights -> Re | with the state of |
| the selection is a second | 2 statement |
| Nature adishing lideral | nima Jahres!! |
| - Clarify what "heart burn" a "regungetwher" as pertrents on | rougnet indistand the terms |
| - Patrents com also trok about dest pour, nausea, excessive | salintrin, pour on mallaj, |
| | |
| en de la companya de la companya ha facilità de la companya de la | a Blueangel 5 |
| | The art of the state of the sta |

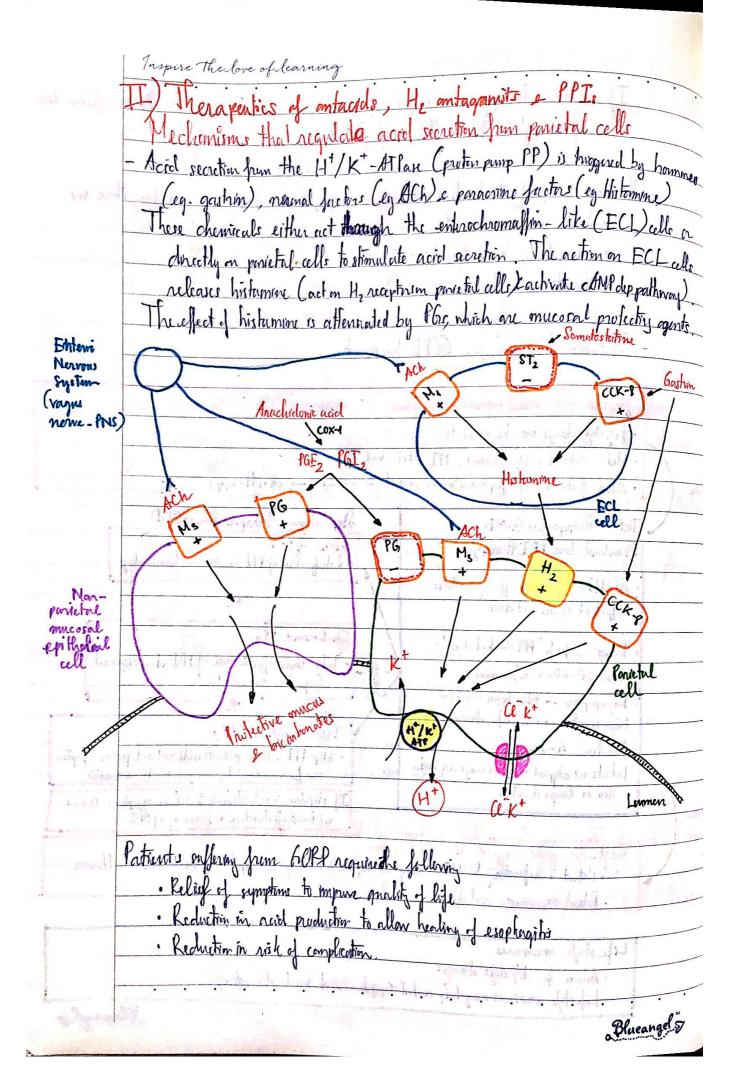
| Inspire the love of learning | |
|--|----------|
| 2 Duration | |
| - Symptoms can ocen over a monate, but topically over on hom | |
| - Jupiper Commence | |
| a chat | |
| - Typically after meal or bunday or laying down | <u> </u> |
| | |
| a Concomitant Juston | |
| D. la t. a trupical symptoms | |
| - About 40% of patients of irritable bound symphon (IBS) complain of reflex sy | mptoms |
| Bound (has a finger to a face had printed the de form | |
| as fantavating factors | |
| longe meal, w/ high fat/suger/spring | |
| Barding Various dawn strains | |
| - More on tuble of trigger feutors | |
| | |
| n felining | 湖州 |
| - PPIs, H, antagonists, anterests | (Hg) |
| ways to the first held a subject the second release, much see | |
| 10 Frequency | |
| - Clinically enquificant impairment of wellbeing usually occurs when exproprens > 1/week | 50 |
| D 100 | |
| Red flag | i lane |
| - healflage are allow signs oymptoms that can indicate a more series endulying photho phys | wayy - |
| require referral for further investigation | |
| Referral symptoms | mad |
| · Any of: Significant neight loss, recoursed vonting, dysphagin, odynophagin, epigestic | long |
| cardiar chest pain, evidence of abdominal blood loss eg. hemorteness, ma | un, |
| Inm deficiency, anemia | D. Lab |
| · Dogly comptom · Family habory of concer | |
| Age > 55 on <18 . Long term NSAID therapy. | 0 M |
| · PPI is not helpful in Lweeks Blueange | 19 |

| | Inspire the love of learning | | |
|-----------------|--|--|----------------------------|
| | - If GORD is left inheater | I can lead to | whent or |
| | · Peptrê ular | id of the age | took at . |
| | | | |
| | · Shictures/narrang | | June Vo |
| | · Barrett's exophagns, i | I left unheated can develop | nto esophorgial comer |
| | | | |
| | Identifying a Dia It is important to rule that a patien | mosts of GORD | of immark) va |
| | -It is important to note that a pation | F may experience GORD symp | toms ance a week home |
| Le supérs | Thiter control to be sooned | The straint and a first the straint of the straint | |
| | -> Can use medicine but a | nat a diagnosis of GORD | (symptoms & disease) |
| | | polish d | to mygath co |
| | An initial diagnosis of GORD | can be made knowing the pre | sence of clinical sympte |
| | (miny LINDOCARE) eg f | regrency, location we risk for | tors |
| | Further investigation is needed i | of medication is not helpful o | or any red flag sym |
| | -> Dragnosti methods the | ant combe used: | |
| M.d. | 2 mg | | indial 60 |
| Method | | When to use | Implication |
| | - Encloscopi procedure to examine the | | - To look for complication |
| . \ | upper 6I hart. | - Persistent despite adequate PPI | eg pepticular, |
| Gashosogy | Usually performed under aneithetic | - Somening for Barrett's esophoryo- | |
| | Winy a Thin pleasable tube w/ common | In risk partients | other diagnosis |
| A . 1 | - Note: In more complex cases, other | - Before e after songical | - Signs of GURD com he |
| e podestopis | mustigations may be required | milerrantion of GORD | seen visually but biggers |
| | - Breath feet or biopsies dury | - Dilating esophageal structure | should be taken |
| hama taland | oncluscopy on supers away | - If supicion of agritai alons | - H. pyloni doesn't come |
| | N | morning and their bearings. | GORD & can be protection |
| H. pylori | 1 1 1 1 T | The second second second | against GURP, Panette |
| 11 - | | the state of the s | esophagesil carcinuma |
| | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 217 | 60RD symptoms |
| and Parkers and | of 1984 and and | stant as Light of | 0" |
| | | and a supply | Blueangel 7 |
| | | | |

| | Inspire the love of learning Pelintin | When to me | Implication |
|------|---------------------------------------|--|---|
| Vd. | - Ba 804 is a metallic compound their | - When symptoms are brought on by | - Can clementate complications |
| | com be shown up on X nay to | portioniz or abdominal premue | |
| llav | detect abnormalities in the GI has | of This is neither constitue non specifi | V _k , V |
| w. | chetect a months | for GORD | - May be able to domanchate |
| | Warried to | - In patrion of chysphogia, this is | inadequate gastric emphying |
| | | net recommended for routin GORP | |
| | and the said of | diameis 321 | and the |
| _ | 7 , | | £ 70 |
| | Management aptring | 2 2 2 2 2 2 | |
| | Treatment depends on trag | nuncy, sevenity a types of sympto | m seat co |
| | For most parints goal is to | relieve the symptom | (Not sale |
| | In patient with & wellbeing | s, additional healment is required | Ho improve quality of life |
| | | | S 44 2-111 4 |
| | | P symptoms C<1 episode/n | uk) |
| | - Dut e lifestyle moetification: | and the second second | Long Market |
| | · Review when symptome are | H (LINDOCARF) | 1 764 |
| | Malily libertule according | to symptoms e nations | 10 + / 1 11 11 11 11 |
| | · Aroid food that com con | romanly induce GORPsymptom + as | ter effetience (stop if not help)m |
| | · Weight loss for overness | ht and a harm | 111111111111111111111111111111111111111 |
| 15 | Other: + Eatoma | Uncals | 1.015.40 3 |
| | | treen neals, not oburing | The galakes a green |
| | + Arn'el la | uping down offer eating |) |
| | + Elevante 1 | red head (if northwal symptoms, | 791 . [] |
| | 1- Step alco | hol a smoke | -1. |
| | Dut e lifestyle changes show | ld be employed regardless sexu | V ray |
| | - M. I. + U | 11 11 11 11 1 1 1 1 1 1 1 | March. |
| | Anti-1 (+ 10) | ded if lifestyle changes are investigated in the Market of | Alleran |
| | | | |
| | 12 -antugonut = Kanit | jeline, Cimetidine | * |

| | Inspire the love of learning |
|--------------|--|
| | - Antacid doses: |
| 4 | 1 1 1 Ly to mean ation: 10-20 ml oral pan |
| | · Antricial Ma + Al : 10-20 ml and par |
| | Tomacia my 1700 |
| 4 | He antergonist closes |
| | Formoticline: 20 my oral, 1-2 times/day pro |
| | |
| | · Nizaholine: 150 my oral, 1-2 times/day prin |
| Sou | · Komitidine: 150 mg oral, 1-2 times/clay prin |
| | and the second s |
| | a Frequent GORD symptoms (>2 episodes (week) on & quality of life |
| | - Patients m/ GORD (not GORD symptoms) often need regular drug therapy |
| * 000 | in addition to diet a lifestyle changes |
| | - PPIs are generally preferred to He antagonate for mitral heatment of GCRD chie to the |
| | - PPIs are generally preferred to Hz antagonit for mitral heatment of GCRD chie to them effectiveness at standard doses |
| 1100 | The perpense to PPIs also confirms the diagnosis of GORD in patients of no red flags. |
| | TOTAL STATE STATE OF THE PROPERTY OF THE PROPE |
| | - PPI doses: (standard); |
| | · Esomepraeole: 20 mg ome daily |
| Charles Park | mapazole: 20 mg once daily |
| 2 | · Make prazole: 20 my once doily |
| - | - may price : so may once daily |
| 1 | my me darly |
| - | The same of the sa |
| - | - Da PPI is required, it should be healled for 4-8 neeks. If the patient deem |
| - | monomodherence on relea EGP |
| - | Once symptoms is centralled for 4-8 weeks, may commence step down of GORD thursty |
| - | meluding: |
| 1 | moluding: · Volore of PPI pro · Change to PPI pro |
| - | · Change to PPI pro · Tried of ceasing therapy |
| | · Tried of ceasing therapy |

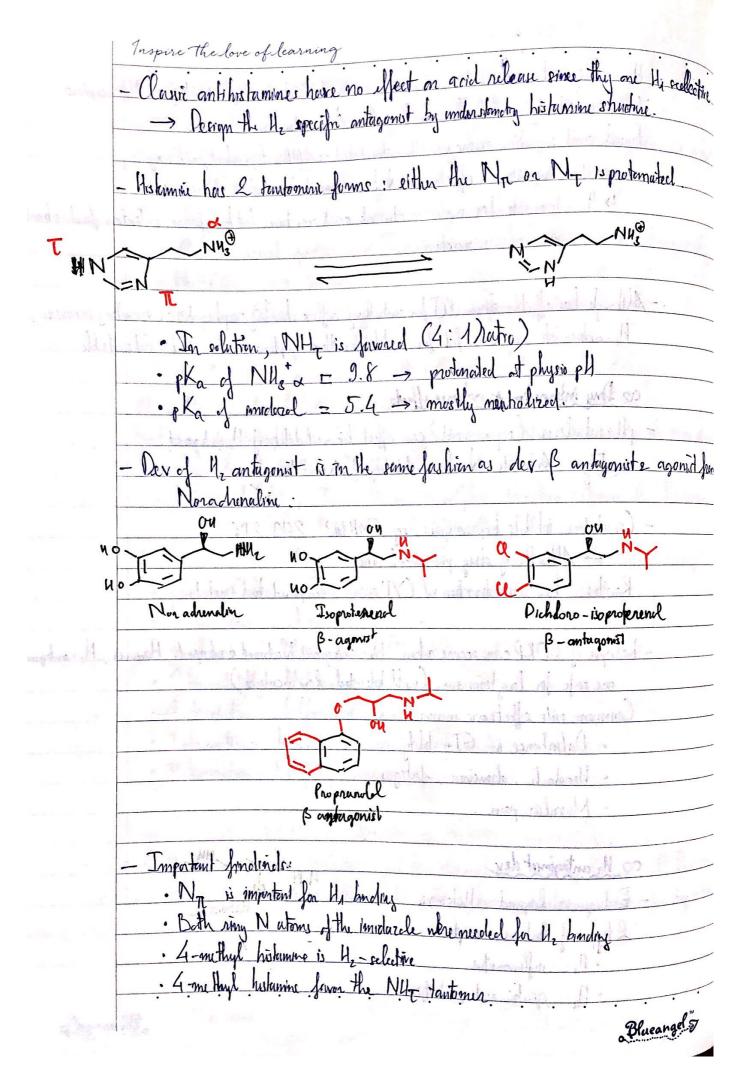


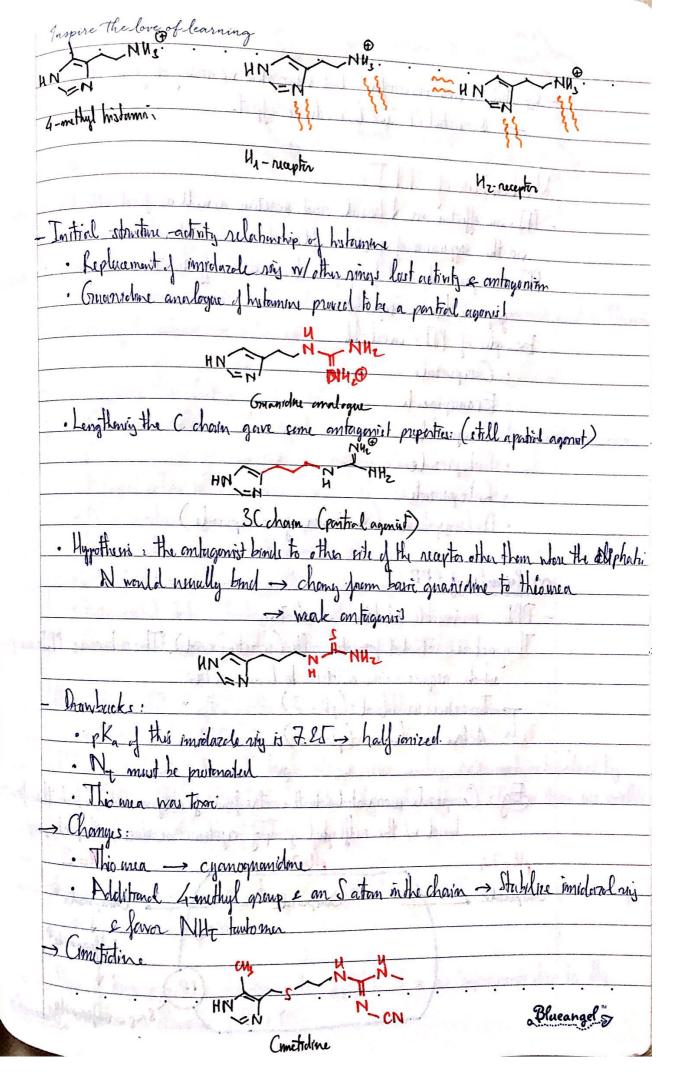


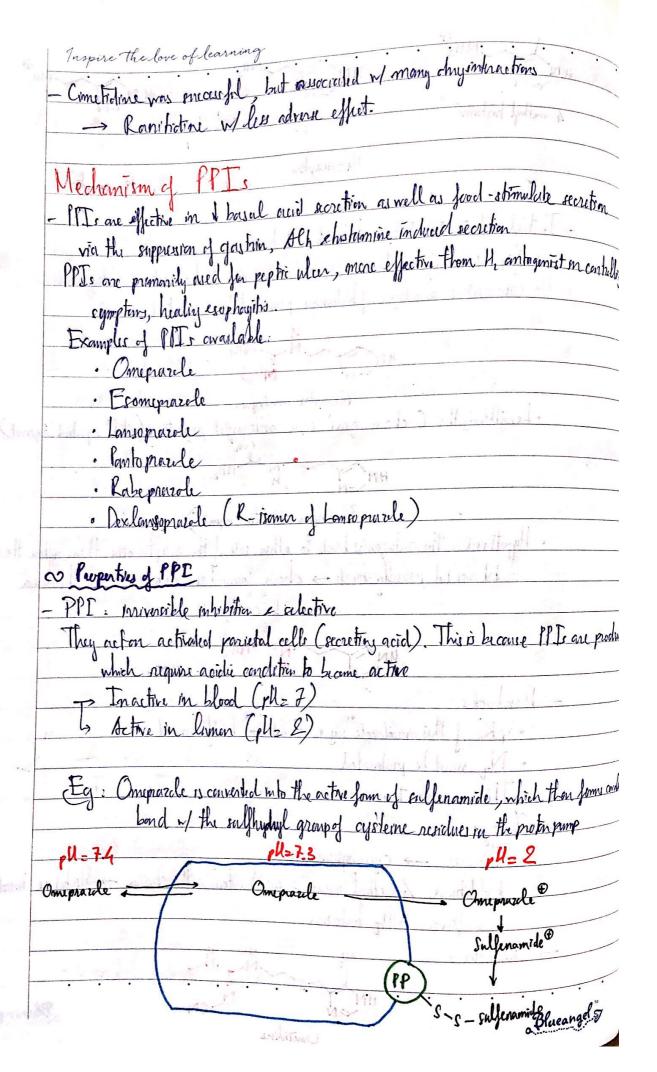
| Michanism of antacon | As a reduced to the sent to see |
|--|--|
| 1. mintralizin stom | nch acid, |
| Although less effective them of | her changelosses, anterents are cheaper a modely available as OI |
| have rapid onset. | the same found being the him has |
| - 3 classes of contractor: | the all property parth. |
| - Mary Al 3+ componends | brank is what land in the |
| Brundenales / Can tenor | derivate the in the first of the sound of |
| · Simethicone Alginates | Sand and the William to the wall |
| | |
| a User/Al st compounds | it is the same a sale of broads |
| - Examples: | r II sino del declo e de la |
| - Deamples: ALON), MyON, | in his his his de bold |
| | |
| · Combination of Al & | 18 11 + D. de not la calladal estre |
| · Mg. St.s. Og : more all | ually used for pertréulen, cloner mut, som collectal silica. |
| LI STA LEAVE | A Produced to the second secon |
| 00 Bicanbonailes/Canbonaites | A STATE OF THE PARTY OF THE PAR |
| The same of the sa | The state of the s |
| - Examples: | Assumption of the second of th |
| · Na HCOz: readily ab | serbed, prolonged therapy com cause alkalaris e hypernutremia (hemterena) |
| · CaCO ₂ ; some. | The Charles of the Atlanta |
| The reaction of HCOz/Cl | 2 publi Ha practice Coz, which can stimulate gention |
| scoretion, resulting a see | condary rise in acid secretion as well as believing, mansen, |
| abdominal distentia e | flatinance - |
| 0 10 10 1 | |
| a Smethiane/Marinales (n | at antincials whichly speakerry |
| - Simethicane is a surfactoret | -: I forming, relieve bleating e flatrience |
| Algemente 1 vicosità e colher | ince of the mucas to the mucasa -> profective parier |
| | |
| - Smithiane e alginaler are a | sually included in antereid preparation to I the incredence of GOK |
| Similaiene e alginaler are as | sually included in antereit preparation to & the incretance of GOR |
| Similaine e alginder are as | sually included in antereid preparation to I the incredence of GOR em't reduce antereid requirement. |
| - dimethiane e alginider are as | sually included in antereit preparation to & the incretance of GOR |

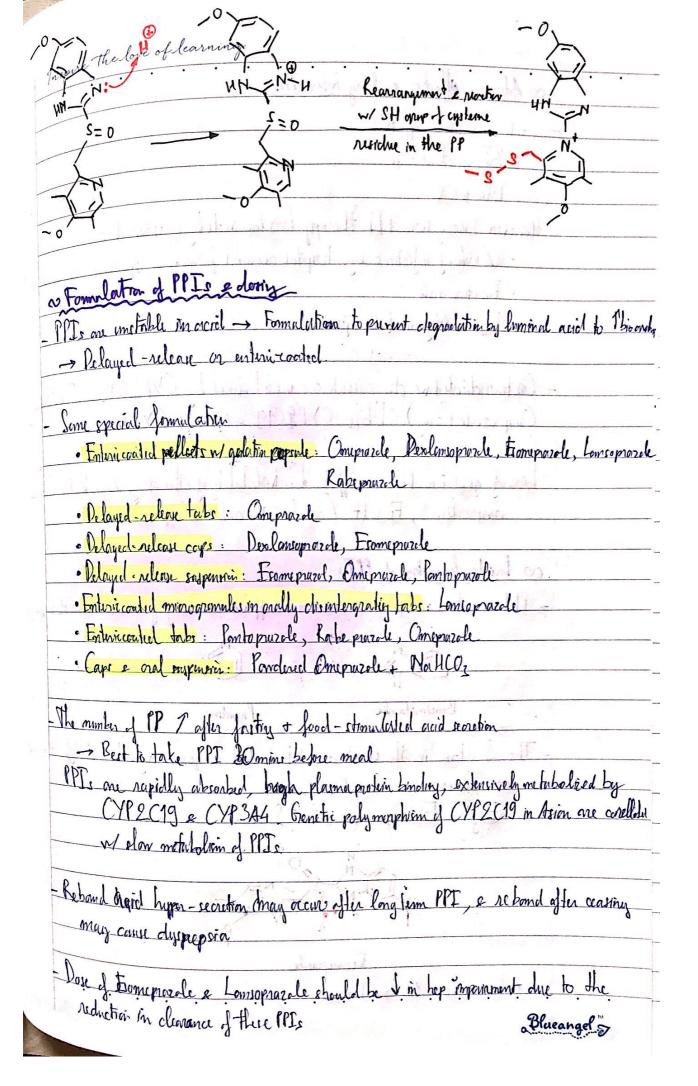
| | Inspire the love of learning |
|------------------------|---|
| | as Advise Mate a down interactions |
| - | - Couter plan tolor on amonto of Mas Al sat. Same for HCO2 |
| Min Di | - Courtier when tolking gram amonts of Mgs Al soft. Some for HCO2 - As both Mgs Al compressed are excreted by the krolneys, their long term we is no |
| | orderalle XV Octob Interdictment |
| | · Ma in change and lawly -> Hurnmagnesemia |
| | · Mg in chronic renal failure -> Hypermagnesemia. · Al in renal failure -> Ostro poro sis, encephalopathy, proximal myepathy |
| | · NoiHCO3 -> Systemia alkaloris |
| | · Long-term CaCO3 -> Hypercalcemra, Hyperphosphatemia |
| 19.0 | |
| | Anterciel 1 gostni e urmory pH -> alter ADME of other concurrent drugs |
| | Al a My are also chelating agents in the GI tract - I absorption |
| | Most drug-drug interaction can be avoided if ontaciols are taken 2 hours before the men drug |
| | - Some example of ADME alteration of anterciale: |
| ale referen | · I bio availability: Indoonethacin, Theophyline, Phenytoin, Ketveona zole, Prednisme |
| | Benzochiazepines, Ranitidine, Atenalal |
| | · Lelimination: Amphitamine, Ephedrine, Preudoephedrine, Quinidine, Mecanylani |
| | · V hep. metablisin: Cometionine |
| | · dissolution: Ketoconarole |
| per dant) - | · Veficacy: Nitrofurantom (CUTI) |
| - | biography; Metupalal |
| gabe. | · I dissolution: Inflorante (acidir) |
| ANTONIE | absorption 1 bevolum culturant (1) |
| | Telimination: Salieglates, Phenotonbotal |
| Omega and | |
| | Me chamism of Hz antigenists a their pharmacology |
| | |
| 14/2 | on a little promoter by the on the first by |
| telegraphic conduction | |
| | · Tomobidine · Nizatidine |
| | A A A A A A A A A A A A A A A A A A A |
| A Section of | · Cime tidine Blueangel & |
| Control of the second | Drueange |

| Inspire the love of learning He antugenists are selative, competitive against histormine for bonding to He neceptors. Doe to selectinity -> little effection other physic function |
|---|
| Doe to selectinty -> little effection other physic function |
| y , , , , , , , , , , , , , , , , , , , |
| Basal acid securition occurs via Hz-stimulated-cAMP-dependent poth may |
| 1) Hz antagonito are effective in V basal acial searchion |
| 4 42 entregonists also supress northernal aciel secretion, but lea leave extent on food-stimulate |
| storchen storchen |
| 19.9 |
| - Although lus effective them PPT for controlling reflux, healing exophagition maintaing reminion, |
| 1/2 - embrigoriete may be exeful for mild information symptems & when PPI is not soutable. |
| 1) by to bekending on all of the party |
| 00 Dry interaction a ordinere effects |
| - pH neutralizer (eg ombiciól) com affect biomailability of the ombigonest. |
| Eg: Antercials & brownedability of Romitialine |
| with the self |
| - Cometidane inhibits hep evayores, eg CYP1A2, 2C9, 2D6 |
| -> Albreitin of oling phenomica kinetics. |
| Ranibaline has less interaction of CYP enzyme companiel to Cimetaline |
| manufact product the product of the |
| - Relapse of GORP com occure when He-anterigenst headment is stopped. However, Hz-anterigonal |
| are safe for long term use (well telerioted, low incidence) |
| Commono sièle effects ovre minur: |
| · Distinbance in GI mobility |
| · Headach, chariner, Jatique |
| · Musular pain |
| 00 H + 11 |
| The antagment dev |
| - Induquious logand: Motamine Motamine |
| Etypes of Unfamer receptors. |
| · M. inflammatrain |
| . Mr. gentin acid production |
| Blueangel |

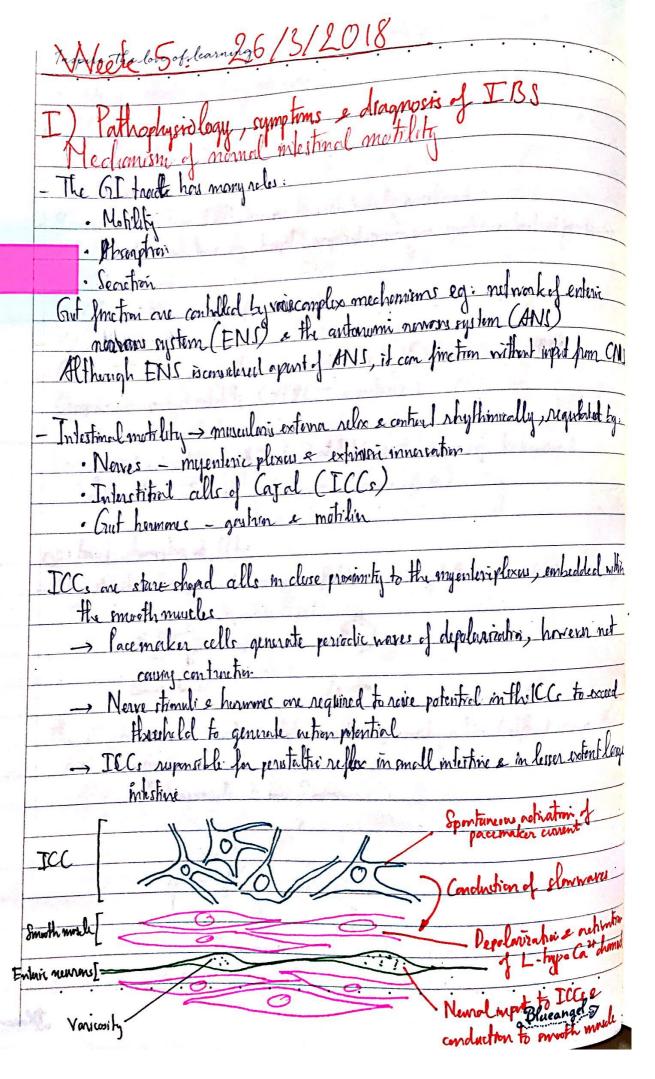






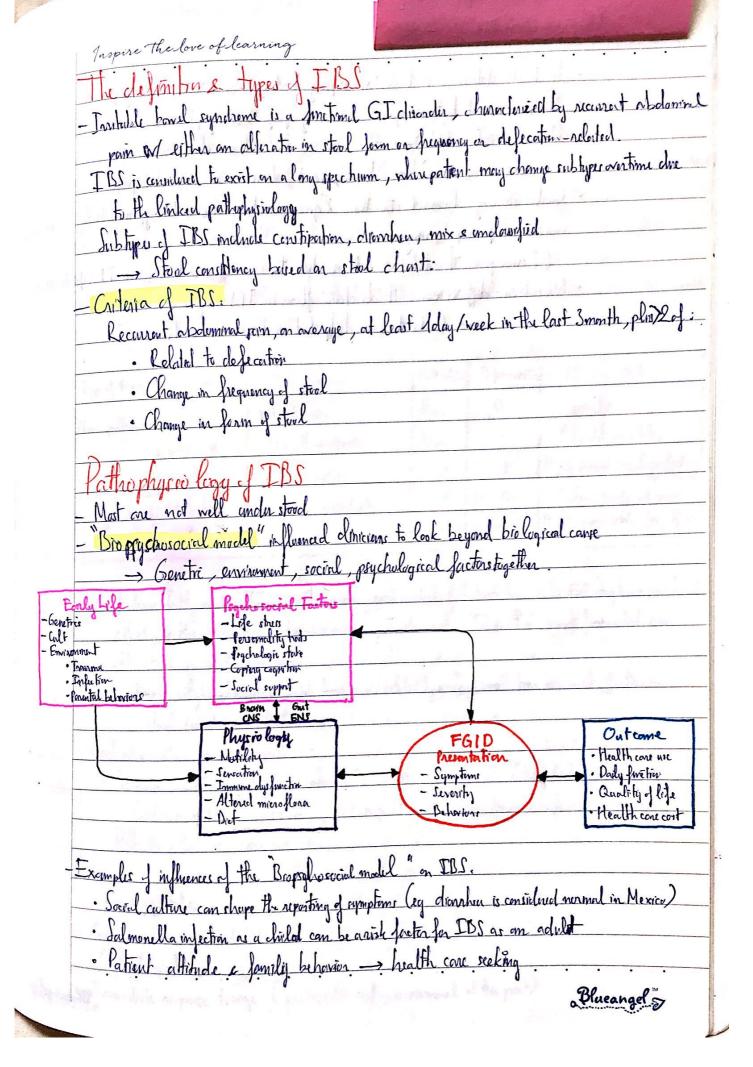


| | aspire the love of learning | - MA KU |
|-------------|--|--|
| 1 | so Adverse offets a Dry interaction | |
| VL _ | all little | The season of th |
| 31 5. | Only few side effects: | |
| 人以 | | to T |
| | · Nayea | I. l. anstoned i |
| | However, long-term PPI therapy has been wie | any operation and have been been been been been been been be |
| | · Trish of infections eg hospital acominal | prenmenta, spontaneous racinial periting |
| | · Franctine risk | 1.1.11 Julian Fairmann 1 Co. |
| d lina b. | · Bre e My malabronption | as of platen in of 1 - |
| | The second secon | angled to stay of |
| | Caladilla de tel an makibalin | by CYP2 C19 & CYP3H |
| | Contraindicated of drugs that are metabolized | duas (VRIA9 |
| - | Congrazale (only) inhibits of 14019 Em | ma c/ j isz |
| and , then | and there is a least of the tensor of the tensor | y Talk 12 for an install of |
| | Loss of gastric acidity may affect broated bilet ampicillin, Fe salt (similar to anti | g of other drays eg. Ke to converbe, |
| | empicillin, Fe salt (similar to ante | icials effects) |
| | dynamical of the state of | also realize based of a |
| 0 | o Brief changing of PPI | onal water while |
| | | near time I belt bearing of a sur |
| | PPI obrictives require a common scaffold co | noisting of con contimuous expipie |
| | Con Cui | The heavy worked |
| | C C C | while they are sold a second |
| | Benzimidozoske Pyride | 100 |
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| 1 300 | 2 2 | 051 - may hope but it - |
| | , o | south has a |
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| to a lub | * Lone pair is the lowest name | 49 1 10 1 |
| Special St. | | a supplied to the supplied to |
| | | Blueange J |



| Inspire the love of learning |
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| of fit derived on the state of earling a fasting |
| Farting: the electrical retriction the gut is called migrating myselectric complex, |
| e the accompanying contractron is called migrating notes complex (MMC) |
| the MMC is instructed by mobilion, a sweeps throught to remove undiges to |
| -> Cleaning the small intestine |
| -> Cleaning the small intestine |
| MMC prevent reflux of bucteria into the small interfine - present luminul |
| bacterial overgrowth |
| . Fed: Jeeding disrupts MMC au food suppress motilin a promote gashin reliase Activation of diquitive enzymes eg personagen. |
| |
| a What happens during peristalers |
| P. 1 some contraction of month muscles to put the Pollis toward the end. |
| Chemicale a chemical should include the release of sero topion (S-HT) from the muco sal |
| TCI W. |
| 1 L. I A warran mentions - release of other newhomans. Called Calci romin gente |
| a vite metal ((5 Ct) -> activates they named mine a fine - |
| · Oracl richt: Alh excides motor neurons, release neurotrons> cincular contractor |
| Once viole: Ath excipter motor neurons, receptor method of NO, VIP → circular releases Consolad ride: Pomortos tertim releases inhibitory chemical eg NO, VIP → circular releases On both crotes: enclogenous opionides called enclophalines inhibit muscle contraction |
| · (In both cides: enclogenons opinions cauch area of the |
| Constitution e Diarrhea |
| 10 Caretration |
| - Show gut hansit on I ICCs -> Lus bowel mutim |
| . / 3 |
| · Hard & dry stull -> diffrant & painful to pais |
| 1 P |
| · Lack dietary fibers |
| Meds eg opioids, antimucaninis a hystemis illness |
| Hunmond changes |
| O Pineary Comment |

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| Information | the endworine system (h | ormans), ENJ (submuc | usul numers) & immore | e system (loming |
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| | (CTIA) chloride ch | mnel, a the peoperion v | MM ACOULTY INTO | The many |
| | occurry via paracolli | len ronte | 1.1.1.1 | |
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| 15 N | eurotions eg. Alh, | VIP from ENI novi | c enelmy | 1954 - |
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| midweb land H | atamini to | 1,LBv-(11) | Dahilas Libita | |
| ehaden ales B | resterglandinis from mu | pofitroblants | i skir bu) . | |
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| reduction - Dio | inher occurs whom ex | correspondention of C | l secretion | |
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| Francisco de la contraction de | ···· | now water out 1 | souption -> Nation | I Stay in The Bis |
| | + Lactuse intolerant | inchirchals are h | oore strol | |
| | | are h | igh rish | Blueangel 7 |
| | | | | |



Type 1: Sepanote hand lumps Type 2: langue shape but lomping type 3: Like raingage but w/ cracks Type 4: Smooth 2 soft samage Type 5. Soft blobs w/ clear out edges Type 6: Mushy strol Type 7: Entire liquide

| 1.1.1.1.1. | | i . Ta |
|--|---------------------------------|--|
| · Isychiatric distress e maladaptr | a coping strategy can worsen | C7_1 Symptoms |
| Stres e maladaptive cognitive | | |
| · Doturbed GI motility -> Ab | numed small bowel a Colonic | 1 I and 1 |
| $\begin{array}{c} \longrightarrow \mathbb{N}_{a} \\ \longrightarrow \mathbb{N}_{a} \end{array}$ | nsen, romit, diamhea e acuse | happenenich L. |
| · Combination of abnormal stimul | M: 7 gas production, viscoluse | Traffe with the power of the po |
| Comes prins threehold to a | don't distention was observed | in most IBS patrents) |
| · Micro brome differences: The b | acteria flora in IBS may be 1 | ess diverse |
| -> Prubiodics m | roundelo but need more research | Legensia was |
| | de dated let | |
| | John Langer Langer | No. 1 |
| · · · · · · · · · · · · · · · · · · · | 1 stip and 1 | -7 |
| | | |
| | 2977 | (tolk) |
| | Latert Tim Be | · norteth = |
| The state of the s | time to ment at the | Approx - |
| | | 1 31134 |
| The state of the s | outs ofile- | 250 000 |
| | the state of | I said not " |
| | | |
| | Law Agentia College | Carried Second |
| | Face about | 2 special library |
| 9.27 | 11.00 | Papa de la forma d |
| | 11.00 | Special distriction of the second |
| | 11.00 | Special Specia |
| | 11.00 | Special district. |
| | 11.00 | Special district |
| | 11.00 | |
| | 11.00 | A tone. |
| | 11.00 | Land Land |

| * IB?-C: | diantea preda | nmont IBS | | | | |
|--|----------------------|------------------------------|---|----------------|---|--|
| of love of learning | | | | | | |
| T) Mana | I) Management of IBS | | | | | |
| Non-phermatalogical treatments for IBS | | | | | | |
| - First step in heatment of IBS-C -> Dretary activise. | | | | | | |
| - Commen | triggers includ | e: cofferne, alcohol, C | communication | drike, this | er, lartier containing food, Leat | |
| NF | iber | ent old the | i A.k | Line to the | Lukk | |
| - Mair, cefter | rus e hydration | in the large intestine | n. Fise | runts ens | amatic degradation k | |
| -> SI | tay unchanged | on the large intestine | P. C. | | | |
| Intel | ange mileshoe, m | bother or not the fiber is | emented | by colonie be | acteria depends on the composition | |
| of the | e dietony from | n, which also conhibites si | brequently | to the trong | it of stool & its approxime | |
| Type of Fiber | Example | Some | H2O sold | 1 % fermunitat | is Effects on stool | |
| 1 | | Wheat brom | Poor | 0 | 2 weight | |
| Non-polyseralmi | Cellulon | Cellwall of plants | Poor | 15 | 1 bonel mobility | |
| Non-cellulose | | Fruits e veggres | Good | 56-87 | Highly fermentable, lesse fleet on | |
| polysaccheride | Muladage | Hitzer conc. in edibleplants | Gurd | 85-95 | I colonic busterial mass | |
| | Pectin | 4. | Good | 90-95 | Highly fermentable, less effect on short involt | |
| 0, | | 1 1 miles | · [6] | <u> </u> | tion the | |
| - Short chain | fatty acide (| OFA) are the primary end p | nochets of | featherheiten. | SCFA may have pru-kineticul | |
| effect, | e the incream | ed bacterial mass may 1 | stuolvol. | Fiber fal | isnet fermented can | |
| whole | malue 18 | tool mass | 1,51,1 | 1 2 4 4 | 4 | |
| → Non | -polysacchan | reles which have poor selve | bilitie & | famintation | are most effective in | |
| - Casta : 1 | el frante i | Istal mass | 1.5 | de produi | 8 N | |
| · Cal | ation a side | effects | | 1 (1) | neel - | |
| Contram | dicated in pa | tients w/ obstructive symp | rms, me | gardon tolili | ited colon) on meganectim | |
| Blanton | 11 1 1 | Instead, Jecal impact | m should | be treated | before fiber supplement | |
| | y but decree | are w/ time | F . 1 | <u> </u> | i all a | |
| ~ F Hei | tule | Po S | <u>, , , , , , , , , , , , , , , , , , , </u> | <u> </u> | 16. 88 | |
| Derce | | 1 1/2 1/2 1/2 | 1111 | Lill Lill | | |
| I Aluid in | reke | - 29 - 201 | The state of | 145 | p: | |
| Immediate, | usponer Luna | e (gastrocoli reflexis | | et this point) | 01 | |
| | , ,, ,,, | - Cyasinoton repex to | いかいかいかし | 1 Iva later | Blueangel | |
| | 7 | | | | | |

| | Inspire the love of learning | |
|--|--|---|
| | ~ Frammled carb. a Gelmen | La American M. (2) |
| | - Fermentable Olianscarchanches, Disextranides, Monosad | miles, And Polyale (PODNAPO) |
| | - Fermentable Oligoscacchardes, Directorides, Monosado te generale IBS symptoms clue to Hern Jermont | ution a 6 smoti effects |
| de la | Fermentution & colonic busterial mass eis able to | hold water in the intestine - later |
| 1 4 | - High FODMAP died can lead to abdominal pri | n, blastij, flatulence e diarrida |
| - 1. See | -> Low FOD MAP diet and/on gluten-free | diet may be beneficed in all IBS out |
| | but predominantly in presenting IB | 0-2 |
| hope of m | - Sources of FORMAR. | in adulm in that |
| Indiana. | Some frest (eg apple, peach) | · Legymes |
| and the same and the same at t | · Strifteral everteners | · Some green veg Ceg broccoli, college |
| Siste | The state of the s | |
| | - Sources of Gluten | maril hadarphy rate |
| | · Wheat and stoleth the pile. | Malt |
| to transfer all | and Markye - 20 love in a shore | Brewer's yeast |
| era bieta | and whether and the state of th | Theling motives Made line |
| and look | | 361 23 |
| , , , | Pharmacological heatments for IBS | v 14 11 D |
| ed separat | | Date Hope Shirls - |
| may hely | - Phormaco heatment commence if | and atta hora |
| | · Diet a lifestyle changes is net enough | A solar treetin |
| - Jah 2 40 15 | Fecal impachen | advert by all a |
| | - Patient starting sproved heatment. | 19 December 11 TRCC |
| 1 | - Constipation in IBS - C can be managed the same. | may as functional constitution but list |
| Salasipins r | Patient may not tolerate some types of ormotic lax | atives entitien (one to side effects |
| Factor Difference | Stimulant laxitives may conse cramping in IBS- | Crime de leste. |
| | - Laxatives are classiful based on their mechanie · I luminal fluid retention | ms of action: |
| | · I not absorption of luminal fluid | 0.4.1.1 |
| | · Alterine G. Parthein by - walnut | 33/193/44 03 |
| | mund Regmontal | contraction |
| | Altering G.I mothling by turnshing regmental | L merements |
| the test of | The state of the s | Blueange & |
| | | |

| | Examples | Mechanism of action | Inchestra |
|-----------------------------------|---|--|---|
| dass lk uming | Psyllium, Ispaghula hvsk Herculia | Absorb water in threaton to 1 fecal bulk → Stimulate periutallic activity | Construction |
| mutri oxatives | Saline locatives | · Create osmotri load, dramwater Into lumen a | Constipation Fecal impaction Bowel preparation before surgery |
| finalant exatives | Bisacoclyl , Serma, Sochum picosulfate | Direct etimulation of merve endings -> 7 motility Morey cause accumulation of weder a electrolytes incolonie Lumen | · Constipation · Barel preparation |
| tol Heners or afactorits | Docuvate, Liquid Paraffin Polaxamer | Assisting mixture of water into feces → Softening May 1 interbrual Shriel secretion —> Lubricale to facilitate passing. | · Constipution · Prevent straining follows retal emograge acute periomal disease |
| provel utagmistr | Methylnal trexone | · Peripherally acting competitive antequalist -> Block opional effect (and controlly) | · Oprovil-induced constration in pallicitive care & when other laxature are inackgroate |
| ukinetici gants | Prucalopride | · 5HT4 aganist -> 1GI motherty | · Chronic redroph this continuts Aon other regular loxatives are in adequate |
| adkı d | do de | Company of many fully was | action A |
| days a | · Relieve sympti | ration e electrolyte distinbence | agail |
| | Defore heatment, a | dong to feed improction should be excluded. | oritized moll caus, e |

Blueangel

| Dong class | Examples | Mechanism Josetin | Indication | | | |
|---------------------|--|---|--------------------------------|--|--|--|
| | Chicose & South containing | Ca-transportation of glace se e sodium by | Correction of florid | | | |
| ors | Solution | enterocyte -> H2O absorption | - Involue | | | |
| Opiode | Cocleine, Diphenorylate | 1 & sained neceptor on ant wall | · Shortam diandra tream | | | |
| Opioza | Loperamide | -> I GI mutility a 1 fluid absorption | in adulf | | | |
| ne la la e | - | | · Intestmal stoma (b. | | | |
| of a day of a | gar Jose F. | don't a substantial land, il. | frequency & Shielity of motion | | | |
| F | (P. P. L. Sauce | Bile acid malabour tron | · JBS - D (off-label) | | | |
| Bile and | Cholestyramme | THOUSE WHILE THE STEEL | · Doorrhen following ilea | | | |
| bindmy | | 1 2 girly day fry this day a mide | · Doorrhen following ideal | | | |
| Msin | | who is look to date to with 2 | · Rarely need | | | |
| Nha - | Co. I. | Balking agent | . IBS - D | | | |
| Non- formenfuble | Sterculia | Darking out | · Revely used. | | | |
| insulable from | | d. H. Jani. | | | | |
| glical Install | on the last | Trived of interpretation of the interest of | | | | |
| le three is | - Use of oprods: | Ledwin to tall may bold on | 1 | | | |
| Armber | · Except cocleme | , opiciols act perphenally - more preffer | CA. Lorent all a | | | |
| اجفاليذه | · Escusive use -> constiportion e torsic onegacidon | | | | | |
| al Agra | · Diphenercylate can have CNS effect at high dose (addiction) e amfimuscanine effect | | | | | |
| 2800 | (nausea, dry month, bluned vision) | | | | | |
| | - Loperamide at high dose com care constipation, CNS depression & pone | | | | | |
| _2 | Le peramide sha | Id be avoided on active sufferminatory bowel of | vience of the colon to preven | | | |
| | megercolon | My state 6 | h Unionia | | | |
| | L'exerginale lac | les abusive potential e is more effective the | n Diphenoxylate in treat | | | |
| | | 14,00000 | 17111218 | | | |
| - | 1 to consumadia as | new help control abdominal pain a orcasional | lly diarrhea in IBS | | | |
| | - Will - Marking in a | 0 | | | | |
| e incode | They are ontimucan | inic, competing of ACh at restagnationic | raracympothetic neverne | | | |
| عال دعور ع | They are ontimuscan | ince, competing what he extraordionic | Paracympathetic res | | | |
| الدعور ع | They are ontimuscan | ince, competing what he extraordionic | Poracympathetic reco | | | |
| | They are ontimuscan | inne, competing will the extratganglismic | Poracympathetic reco | | | |

| Inspire the love of learning |
|---|
| Management of IBS abdominal pain |
| · Antisparmoetric |
| · Herbal prep STWS (Iberagast). Analgeries are generally meffective in abdomin C pain |
| · Donat une opicials due to dependence a rish of noncotré bonel syndreme |
| To you be that you with you to be good to high hay will - |
| ~ Antidepresent therapy in IBS |
| - Strus com marsen IBS symptom - the we of ontidepressents, even for those without depression |
| · SSRIs eg. Sertraline, TCAs eg. Amitrijtgline are most effective |
| · Used at laws doses than when wed in depression: |
| + TCAs are best for IBS - D due to anti-mucanini effects of TCA |
| Sich effects: constipation, dymonth, dronsines |
| -> Use may be limited to those of symptoms downingted by abdominal perin |
| + SSRI are preferred in patrints w/ depression/omiety dominated feature. |
| part kning |
| |
| ~ Modifying gut mioro biota |
| Gut minobrita com play or rule in the cause of IBS |
| Gut minobrita can play are rule in the cause of IBS |
| |
| Gut Microbrita com play carrele in the cause of IBS Modify gut microbietu. Refaximin: |
| Gut Mirobrita com play carrole in the cause of IBS - Modify gut microbritu. - Refaximin: Non-aborabable number of antibritic refamyorn |
| Gut Mirobrita com play carrole in the cause of IBS - Modify gut microbrita. - Refaximin: · Mon-absorbable number of antibritic rifamyoin · Und for IBS-D (non IBS) |
| Gut Mirobrita com play carrole in the cause of IBS - Modify gut microbrita. - Refaximin: · Mon-absorbable number of antibritic rifamyoin · Und for IBS-D (non IBS) |
| Gut Mirobrita com play carrole in the cause of IBS - Modify gut microbritu. - Refaximin: Non-aborabable number of antibritic refamyorn |
| Gut Minobrita com play exercte in the cause of IBS - Modify gut microbritu. - Refaximin: · Non-absorbable number of antibrotrie riformycin · Und for IBS-D (non PBS) · Mechanism ancleon. May due to reduction of GI beaterial load & change bacterial composition |
| Gut Minobrita com play carrole in the cause of IBS → Modify gut microbritu. Refaximin: · Non-abourbable member of authbritis siformycin · Und for IBS - D (non IBS) · Machanism undern. May due to reduction of GI backerial load & change backerial composition or activity |
| Gut Minobrita com play carrole in the cause of IBS → Modify gut microbritu. Refaximin: · Non-abourbable member of authbritis siformycin · Und for IBS - D (non IBS) · Machanism undern. May due to reduction of GI backerial load & change backerial composition or activity |
| Gut microbrita com play carrole in the cause of IBS - Madishing gut microbritu. - Refaximin: · Non-absorbable number of authbritis spjannycin · Uncl for IBS-D (non IBS) · Mechanism ancleon. May due to reduction of GI benterval local & change bentential composition or activity |
| Gut Mirobrita com play caerule in the cause of IBS - Modify gut microbrita. - Refaximin: Non-aborabable number of antibotic splannycin. · Uncl for IBS-D (non IBS) · Mechanism unclean. May due to reduction of G.I. bentered lead a change boulerind composition on activity - In birties: - Reduce some IBS symptoms: bleating flutuence a pain score |
| Gut Mirobrita com play caerule in the cause of IBS - Modify gut microbrita. - Refaximin: Non-aborabable number of antibotic splannycin. · Uncl for IBS-D (non IBS) · Mechanism unclean. May due to reduction of G.I. bentered lead a change boulerind composition on activity - In birties: - Reduce some IBS symptoms: bleating flutuence a pain score |

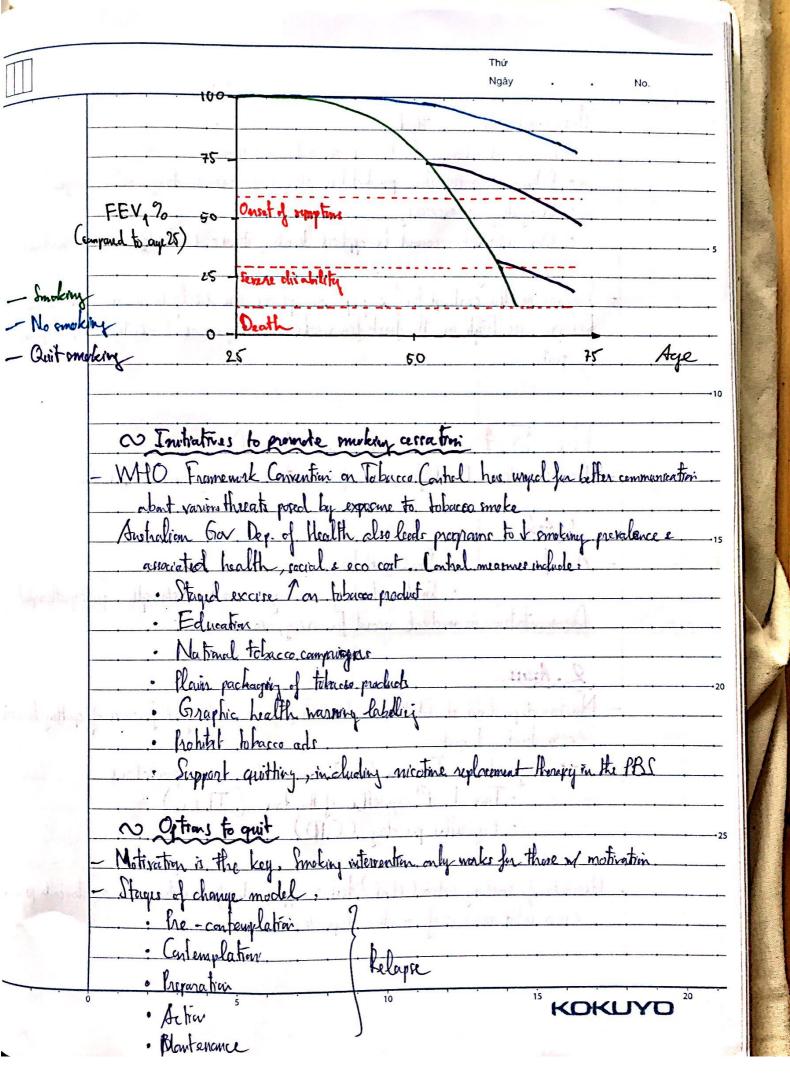
| Inspire the love of | learning | | | S. a. alignation |
|-----------------------|----------------|--|---|--|
| o Psychologrand | therapres | - 1 I | | Carlo Man |
| · Cognitive - beho | | | 1 | the ball of the same |
| Dynamic psychol | | (10 most) = 1 | 12 12 12 | india. |
| · Hymothrapy | * 10 110 × 20 | straight of take the | 31 Jul 1 | inthe second |
| - These psychological | Anapies have | a large role in pati | ends w/ sever | re symptoms comay have |
| fooled other free | ntmint | 44 41 1911 | 1/2013 (1/2) | 200 |
| -> 1 stresso | ns har at | ar entropy int | Table | 1011/2 00 |
| Mild (40%) | | Moderate (35%) | | Severe (2/2) |
| · Dout, life style | 15 + 3/12 · 1 | Follownp | T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Renchalogical hintered |
| · Portire diagnosis | | · Manage stress · Drug Hurnpy | 7 7 7 7 | · Goal: / Junctini |
| · Explain rensure | 3 | mandre of the second se | 1-111 | |
| | | don't adjam all | | the species |
| Referal symptom | | e resident policy | | |
| - Red flags: | | _สไปป์ เคาะ | the vist | Mon |
| · Family history of | bowel comer | or coline disase | 5 19 10 10 10 10 | 16) |
| . >50 yo .t. | | | John Co | |
| · Significant weight | | | | 4 Sun 1 2 1 |
| - Loxye-ral drawn | hea | | : HUS | 711 |
| · Steatorrhea C | fat in feces | you by withour all | Lader a | <u> </u> |
| · Personent volutry | | (191 mr) a-12 | 11 + 1 | |
| · Severe orbdonnial | 2 | Ť | • | |
| · Feyer | | 3 stemme that At | reflection to | - Carrier |
| · Sleep daturbed | og symptoms | 101 | \ . | 1 12 |
| · Evidence of GI | | | | la l |
| 1902 Rolly & | And Mary (Cla) | in motion its | | |
| | | The state of the s | | |
| | | 7 | | |

| | Thứ |
|------------|--|
| | Week 6: 9/4/2018 Ngày No. |
| _ | and the same of a small a substant a small a |
| | T) Smoking cessation |
| | I) Smoking cersation |
| | |
| | - Quitline: giving up emoking renice. Provide commellors n/ experience e Quit specialist. |
| | · Confidential |
| | · Enquiries about smoking history, motivation to quit -> indentonely, holbit, addiction — Tips on dealing of crownys, with channing, veight & shess |
| | - Tips on dealing of crowns, withdrawing, veight a shess |
| | · Follow - up and for a shoot all and a |
| | · Cu tomirable : interpreter, managing plan. |
| | - Come with the stranger my it with |
| 1 | - Cigarette muke contains > 4000 chanicals in the form of gover or particles. 2 |
| ou ad wa | >60 have been identified as comer-causing chemicals, including: |
| | Benzene |
| | 2 - maghthylamme 15 |
| (11 | 4 - ammo biphanyl |
| leuktroov. | Chromim |
| | Cadmium |
| | · Vinyl chlarièle |
| | Nicotine in tobacco doesn't cause concer, but it can stimulate the nervous system. 20 |
| and it | - Theorfrate e black pressure, traptens small blood revels under skin e |
| | Causes wainkles. |
| | Co Acute a General speaks & sensioned |
| | Nicotine dependence |
| | - Nicotine = stimulant psychoactre along |
| | 2 important cartibutors to why people are mable to step smoking, even w/ their |
| | health e well bering one impacted: |
| 1 | · Physical dependence: expusive to orcotine results in reversible, phurmacological |
| | changes in time, neuro home / medulation on receptor responces that after basal |
| | physic fraction - withdravel symptoms & consumption of the drug to avoid |
| | disturbance |
| | · · |

| | Thứ Ngày . No. |
|---|--|
| 1 | · Paychological dependence: langulastry changes in the Hom plastreity drive |
| | alterations in behavioral and comes a decision making processes (while severable |
| | these changes are oblight to overcome). Changes in strength of negronal connects. |
| | e within brain systems that control behavior emotivation - mye to take day |
| | - oraning, maynet resolve ofter cessation. |
| | Later to the second sec |
| dalla Land | Mechanism underlying nicotine dependence |
| | · Nicotine prometer reinforcement of drug taking behaviours where were experience |
| | a desirable comunities -> positive reinforcement |
| | · Nice time momete reinforcement of drug taking between where were wee the |
| | down to some mendesignable stranger (eg. crowing amaiety) -> negative seinfortement. |
| | · (ue) be come associated of smoking ley smoking ashtray! |
| | · Relapsing is common e com occur weeks e months after mithodiand symptoms have ceased. |
| | - Nicotine 1 deparation release in the limbri system, per boularly in the nucleur accombins |
| | 1) I for boar the person exists (Well, MA) |
| | Dopamine release signal imexpectedness on nakelfy, e is important for merconent |
| | revand - related fractions (goal-directed behaviors) |
| | The set of |
| 93.4 | - Nicotine acts on grationic receptors, excitating non channel receptors. - Nexcitability of DA-engic number & DA release - activate limbic system. |
| | - 1 excitability of DA-ergic neurons e 1 DA release - activate limbic year |
| *************************************** | |
| | a Acute a Charonic effects of smokery |
| | - Cigarette make cause hown to nearly every organ, many diseases a bealth magninal Exposure to smake is lynked n/ naral viritation, naval virus concer, ling concer, COPD, 25 |
| | Exposure to emile is limbed n/ naral protection, naval mus comber, song comber |
| | asthma, chronic neep symptoms, impaired long fraction |
| | |
| | |
| | 20 |
| - | 5 10 15 |
| | * DA: doyamine |
| | |

| | Thứ Ngày • • No. |
|---|---|
| - Concers: | |
| · Chophenynx | · Liver |
| | |
| • | Pomoreas |
| · Esophorns | · Krdneys e wheter |
| · Long (resp tract) · Aute myelord lenkamia | RD 11 |
| . Aute myelord lenkomia. | · Bladder |
| : Stomach | ·Colonectal |
| | <u> </u> |
| - Chronic diseases: | (d ₁ u ₂ u ₂ · · · · · · · · · · · · · · · · · · · |
| - Shoke | 15° orgite 6 |
| · Blindows, catanact, age-related mace | |
| · Congenital defeats-modernal moking | : orafacirl defits |
| · Periodontitis | · W |
| · Ashti muryom, early abdomined as | ntri atherosclenosis |
| · Coamany heart disease. | |
| · Phenmonra, TB | 1-25 |
| · Atheoscleration peripheral vascular disea | ue! |
| · COPD, asthma | 5 75 yr 70 00 |
| Diabetes June June | yes / savis since / the - |
| · Reproductive effects in 9 (forti | lify) |
| : Hip pacture | |
| · Ectopri prognancy | A to be and the second |
| · o erectle chistmetion | and the first of the same of the |
| Regumentized orthritis | apost to Atta work " |
| : Immune dystraction | 25 |
| | |
| - For smokers, acute tolerance doubleps three | ighert the day she to decenational monthing |
| recepture a decemplification maare ellers | nnight |
| -> Manning crownetto pleases smok | CONS |
| Chronic toler onge develops to adverge | Mects eg nanca, palpitation, meating |
| 0 5 | KOKUYD |

| | Ngày No. |
|-----------|--|
| , | elemmines -> 1 mg of intake per cigarette over time |
| | - Since inhalatro is a spirck method to deliver necotine to the brain |
| | - Since inhalatros is a equirch method to deliver necotine to the brain - Huge rish of psychological dependence - Withdrawing symptoms lowting for months on years. |
| | · Initability, anxiety, onger, impahence, restlessnes |
| | · v concentration |
| | Insomia |
| | During abstinence Jollaning chronic smoking there is a V in baseline DA release e a V substitute to experience remarching stomuli |
| | andy few smokers com quet without abstiment symptoms, most exhibit crowny a relapse behomion |
| | - material and interest of the control of the contr |
| | Role of smoking cessation |
| | - Health consequences of smoking are well-recognized, a the benefits are well-decumen |
| | Thuse somel 5 days ofter quitting |
| | · 1/2 rish of carctionascular events after 1 year, e as non-impler ofter 15 year |
| | · Some risk of having low both weight balg as anon-smoker for pregnent |
| | women who quit smoking in the early manths of preynomicy |
| make ; [r | Health Attendant and I am I am |
| | The state of the s |
| 4 | 5 10 15 |



| | and the | |
|--|---|---------------------|
| | Thứ Ngày | No. |
| This model recognizes that. | | |
| · Behavioral changes don't occure in a linear fact | li'ir | |
| . Patient progresses than predictable stages be | fore reaching "action | stringe" |
| · Every stage is necessary. · One intervention comment be applied to all parti | | |
| | | |
| - Smokers on the contemplation a proposation phouse a Relapse are high on the first few weeks, arenal | are litale to receive | |
| Relapse are high in the first few weeks usual | ly or ano S-4 times | colone entermine |
| guit. | 2 | formunent |
| · · · · · · · · · · · · · · · · · · · | | |
| The 5 A commend AROF | | -10 |
| - Provide evidence - bused frame work for staucturing or |) 10 minute = 0 | |
| morris a mount - base or grame work for staucturing or | noking cerration interven | tion |
| 1. Ask | | - |
| - Ask for . Smoking statu | - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | . 15 |
| | welfes strength a | uffer afferents) |
| Dozumentation in medical record for every patient | San Paris | wing wiengs |
| 2. Assess | 1 minutes | |
| | | |
| - Nicotine dependence should be assessed in all patients | , along of presence. | of quitting banners |
| -> Fagerström Tolerana Questionais 10 | 14 | |
| Fagerström Tolerana Questionaine ~/2 · Time to 1st cigarette of the day (· Cigarettes per day (CPD) | TTEC | |
| · (ignrettes per day (CPD) | of will an | |
| and the state of t | | 122 |

| Question | Answer | Score |
|--|--|---------------|
| How soon ofter waking up do you smake you 1. T | 6.5 mins | 3 |
| cigarette & | 6-30 mins | 2 |
| I was to be a first of the second | 31-60 mins | 1 |
| Do gogs find it difficult to abstrain from smoking | Yes Yes | 1 |
| in places where it is forbiden? | N. | 0 |
| Mich cigarette would you hate to give up? | The 1st one in the monning | 1 |
| must be just ush done a many in | Any other | 0 |
| Howmany agarettes aday do you smoke. | 4.0 | 0 |
| - Marie Harris at the state of the state of | 11-20 | 1 |
| had about the displaying | 21-30 | 2 |
| | >31 | 3 |
| Do you smake more frequently in the morning than in | myer i | 1 |
| the rest of the day | No man | 0 |
| Down and all ! | \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \ | 1 |
| or how smoke allhow on you are rick in bed you | Yei | 1 |
| Total score (level of dependence). | No | 0 |
| Total score (level of dependence): . O-2 (very lim); 3-4 (law); 5 (mid) | Mo | 0 |
| Total scone (level of dependence): O-2 (very low); 3-4 (low); 5 (moli | Mo um); 6-7(high); >8(| O very ha |
| Total scone (level of dependence): O-2 (very low); 3-4 (low); 5 (media Heaviness of Smoking Index (HSI Question | Mo um); 6-7(high); >8(| very his |
| Total scone (level of dependence): O-2 (very low); 3-4 (low); 5 (mode Heaviness of Smoking Index (45) Question | No wm); 6-7(high); >8() test Anomer 5 mm. | very his |
| Total scone (level of dependence): O-2 (very low); 3-4 (low); 5 (media Heaviness of Smoking Index (HSI Question | No wm); 6-7(high); >8() test Anomer 6-30 mins | very his |
| Total scone (level of dependence): O-2 (very low); 3-4 (low); 5 (mode Heaviseus of Smoking Index (HS) Question | No Mo Mo Mo Mo Mo Mo Mo Mo Mo | Score 3. |
| Total scone (level of dependence): O-2 (very low); 3-4 (low); 5 (medical low); 6 (medical low); 7 (medical | Mo wm); 6-7(high); >8(| Score 3 2 1 0 |
| Total scone (level of dependence): O-2 (very lan); 3-4 (law); 5 (medical land); 6 (medical land); 7 (| Mo wm); 6-7(high); >8(| Score 3 2 1 0 |
| Total scone (level of dependence): O-2 (very lan); 3-4 (law); 5 (medical land); 6 (medical land); 7 (| No | Score 3 2 1 0 |
| Total scone (level of dependence). O-2 (very low); 3-4 (low); 5 (media Heaviness of Smoking Index (US) Question On the days that you smoke, how soon after your | Mo wm); 6-7(high); >8(| Score 3 2 1 0 |

| - | |
|--|-------|
| ~ hescription meds | |
| - Both Varancline & Bupropion are Stertone & only one heatment/year is only | |
| then the PDS. There are afterentives for smoken who cannot tolerate NET | dired |
| - Varencoline istationen to be more effective than bypageon, & is the most effective, equi | 1 |
| NKT combinatros | May 1 |
| Harry Lattett | _ |
| 00 E-croanettes | - |
| - Although net approved in Australia, some contries recommend vergos: | |
| · E-ergans contain liquid that is valiable, bringing oricative, flavors eschants | la: |
| properhene glycol, gligeerel en ethylene glycol | - |
| · Can course month throat & pur Instrution | |
| Long term safety is unknown | - |
| (TM) process toward of the meet so | |
| a Smekeny & other medienes | |
| - Smoking com after ADME of medicines: | - |
| · Inducing liver engines CYP1A2 | |
| . Fragme outsity return to normal - cautions. W drugs Wnomen therapeutic in | dex |
| eq derapine, alonzapine, theophyline, warferin) | |
| the light to the state of the s | |
| - Later Fall Antidan Time | |
| and the state of t | |
| the reference that the best of | |
| The first of the state of the s | |
| | |
| relative & the way from I be when I seed as a Take | |
| Harris of the said | |
| the same of the same water to the same of | |
| Supplied to the supplied to th | |
| | |

| | Thứ Ngày · · No. |
|---|---|
| , | I) (a-existing respirations e GI conditions |
| | Asthma - COPD overlap syndrome (ACOS) - Featuring both exthem a COPD symptoms Develop in smakers, ex-smaker, second-hand smaker, eis more in ald people Perfect of ACOS are at higher with then people of either condition alone, of more symptoms, flore-ups, needs for health care use a higher mortality |
| | - ACOS should be considered in adult if they have: . His lary of authoric or authoric-like symptoms. . Spirometry test shows no reversible after broncho dilator. ACOS his air may with Teorinophila, mentophilo, mixed pattern of airmay inflormation, so may have systemic inflormation. — Langes of airmay disease phenotypes w/ different canval mechanism |
| | 10 Assessments In Alos diagnosis |
| | - Sprometry for an way inverentle Formophitra test for aithmu nick & treatment durice Patrints with 1 exemphil court (> \$ 20) have been shown to respond better to ICS. Them patrents without easinophilia Blood easinophil can provide estimation about airmay easinophilia. |
| | Poitrents W/ ACOS have less emphysiema & greater orion may thickness compare W sole COPD Recap for differences in Arthmae COPD inflammation; CD4 Th all, essmophil -> Arthma CD8 Th alls, mentrophil -> COPD |
| 0 | j 10 15 20 |

| Thứ Ngày . No. |
|--|
| Of Name on to day |
| - Proportion and Dr. Od 18 D |
| Symptom monagement using branchochilature |
| I when the will be the first the safe of t |
| - For patients w/ COPP a ony features of outhern, long term ICS (at lowest effective obser) |
| prevent seriors flare ups from if with me symptoms agreen to be mild & inhoquent |
| Increasing close of ICS when easinophil count > 3% to texacerbation |
| |
| - Patients m/ ACUS experience more frequent exaccorbation, bequality of life, rapid decline in |
| any menon, manerality & montality from those without two conditions. |
| In in-deprin evaluation including a completenedical history, physical examination, palmonary |
| Imetion tests & imaging is required to diagnose a classify properly |
| From dillie to CORD . I . I I . I TOO I . I . I |
| Formophilia m. COPP com be amonker of supone to ICS, or apredictor of exaculation who steroids one withdrawn |
| ALL THE STATE OF T |
| - The we of the term ACOS" is unclear for facilitating heatment decisions due to patients' |
| different characteristic, execially in the abonce of chinical trials addressing this beterage |
| population was to some and a some about the sound of a |
| between the regardence for the fill the of states |
| The grandent III and har with a sufficient to the |
| Ashma e (50Kl) |
| a Relationship between Asthma e GOPD |
| - Although GORD is thought to moreon asthmacontrol, the precise effect is moleon |
| 2 possible mechanism. |
| · Damage to the pulmonary tree after direct exposure to acid refler. · Bronchial constriction as a result of the strinulation of raigned none encloses in the esopher |
| |
| - In addition, cough & Incopinatory effect may worsen GORD by bringing about on I presume gradient granter the LDS. This is of particular relevance in patients of history heart is KOKLIND |
| execuse gradient groups the LDS. This is of exiting relevence in extremts of history his |
| KOKUYO 20 |
| /: |

| | Thứ Ngày No |
|-----------------|--|
| | as gasto esophageal junction competence is compromised by his try heinion change with |
| (distribution | - Moony pertients of asthma report symptoms of GORD or an abromal result on the 24h pH test. Amony dildren treated in referral clinis, the prevalence of GORD is high among there of aithma there without. Ashma may also contribute to GORD we the effects of authors medicine the gentinesophical |
| | 1 30/0.101 120 |
| mainte E | Eg: Prednisone & Salbuttonel may I contracting abolity of the LOS Other provide dilaters may releas the smooth musde of the exophages - GORD |
| | - Not always easy but this may help: |
| Str. 1015 42 10 | · Monitoring a recording asthma symptoms in detail over a period of time. • A 24h study of the esophagus to defermine the presence of amount of reflex. • A total of PPI for 1-2 months to see the effects on aithma symptoms. |
| detay a so | ~ Improve arthura control in patrents w/ GORD |
| | - In a chilts m/ asthma, manage GDRP according to current quickelines for reflux, but don't aduse petrint that chang for reflux will improve asthma control Inachilt m/ asthma e diagnosis of GDRD, PPI healments prochece a small I'm ling fraction e quality of life |
| استشد | The effect of PPIs alone on asthmas symptoms in patient of GPRD is unclear, but the combination of a PPI e Dopenidone (dopamine antegonois) may I ling fruition a improve asthma symptoms |
| wa din g | In patients of history of outhorse symptoms relailed to helpe, He antergonish may a nighthine symptoms a relieve requirement. PPIs should not be used for smoothelf of authors symptoms in children or additionally authors. |
| A. (100 for 1) | duquois of GORD. |

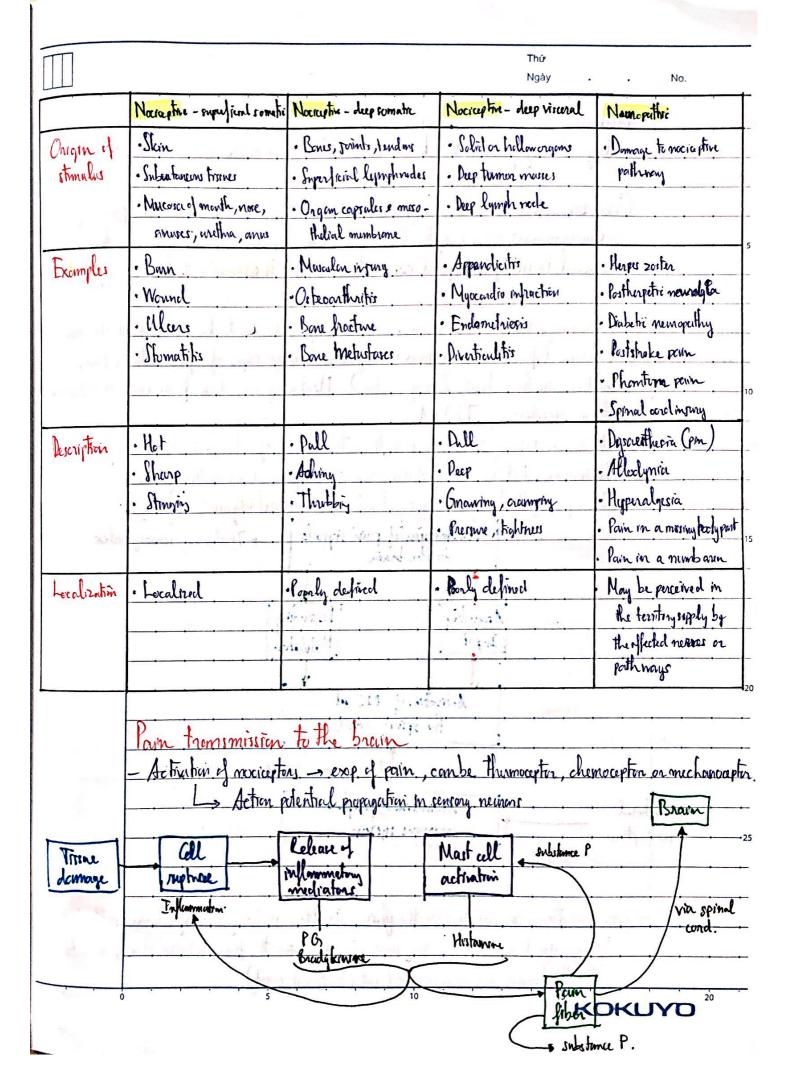
| | | Thứ Ngày · · N _O . |
|-------------|-------------|--|
| | . i | - For every cuthmater, developen include walted written cuthma action plan (WATE) that is appropriate for their regimen, authma seventy, culture, longuage language |
| | | level a citality to self-manage. |
| | | a Astherie in Pregnancy |
| | 1 200 | - Asthma = must prequent chronic condition along pagnoncy: |
| | | - Con asthma control I risk of infant when birth weight pretern birthe |
| | | Pre-aclampera (high blood pressure & protein in the unneclining pregnong) - Well control outhma virsh of congenital malfumention a booth /delivery complication |
| | | · Children exposed to smoothelled asthme during gestation have an I rish of developing |
| | adla | outhorn. Fatal growth restriction com lead to rechemic heart clivease, hypotening |
| | | e type 2 diabeter in ordulthood. |
| | | · Properly heated acate authora attacks don't acknowly affect the pregnancy |
| 13 | يدار دل ه | · Monitor & review asthmer during pregnancy as changes in asthma control can change |
| | | cluring gestuficin 15 |
| ·2hip | Cink old | Eg. Change in disphage position e chest wall in the third trimeter may |
| | | · Upto 50% nomen experience symptimatri GORD. Treatry GORD in authoratri |
| # . | | |
| 5 1 | ns blob | · Allergia rhinitis com V authoris control in pregnancy. Pregnant women may experience |
| 4/4 | 1.1 | shinitri-like effrictions of physiological conquition of nasal mucus membrane due |
| 64 B- 3 | 10 12 / 440 | to pregnany hormones. |
| A 15 10 | 14 21 | |
| 1 | The same of | ~ Safety of meds for authore & compa bidities in pregnanging |
| | | · All inhaled meds under category A or B > no proven harm to fetus 25 |
| | | -> thought not stop taken, there made without medical consultation |
| + i | e potent d | Many of the ackerse events is due to poor authoria control, norther than the medication |
| | - | · More ruley date to needed on never medication eg LADAs and LA |
| a y ta | 111 | · tor allergic shinitiz INCS is 1 chure treatment inless contracted |
| | | For GORD PPIs are B3 a H2 emtagnists are B1 |
| | 7 X W 1. | mul of the state o |

| | | | Thứ Ngày . | · No. |
|-----------------|----------------------------|--------------------------------|--|---|
| | uniy the low appropriate | | control & to avoid outh | nodult comments |
| | · Advise availing. | exposure to make | d. He as allel | • |
| | Coat A | Cat B1 | Cat B2 | Cat C |
| Letievers | · Salbutamel Sulfate | - Sallentamel Sulfale (Amornia | | Car C |
| Parliet No. | · Terbutaline helfate | | | • |
| ICS | - Buckeroniele | - I wik soul | · Bedimetusare Diproprionial | comple Some |
| 1. 1. 40 | the many talks parties to | 1. U. A.162 | ·Calesomde | he him |
| | Har be with a | 1,1- | · Fluticasene , Faroate | the til |
| | and the sandam of the | and 1) Freder | - hoprionale | 12-51 htt |
| CS/LABA | | de de | · Buckenicle/Formaterel | in a S in the way |
| continuition | Mi plin it | TA . TI KAK | Firmurate dehyrate | Boutel Herbell |
| | · Link side | Marient | · Flutressine / Formoteral | and bulling |
| 1. | In the letter | 6 / · | · Fluticasone Flavore/Vilentan | 4 |
| Translate d | in rely all help | alal - | Trifenoitale | |
| | | | · Fluticasere horimate/ | 1 |
| | D. B. B. A. | To sout VII | falmeteral Xmajoate | ation) and |
| Other presentor | is at different | · Montelucout sodium | , 2 | g : r & as 1/87 |
| | | · Sultim cromoglycate | | |
| ystemie | · Methyl pudnisolne | | | · Hydrocortisone |
| orticostererets | · Prednisolone na viera in | final group land | s clush of law years | 100 |
| | · Prednisone | hotel mail | 11 Ja las Las | |
| in mench. | · Adrenaline | · I prahopim | Alband not | |
| dilatore | · Aminophiline | · Tiotro pium | I that her | |
| | · Theophylline | and a talk | the same has | Freeh ! |
| llergie | Budesanide | · Igratropium | Azelastine | . / T |
| whi | | U | Beclumetarne | Ş. |
| arut spraig | . , . , 5 | 10 | Ceclesonide 15 K Flutienene Levocabarthe | |

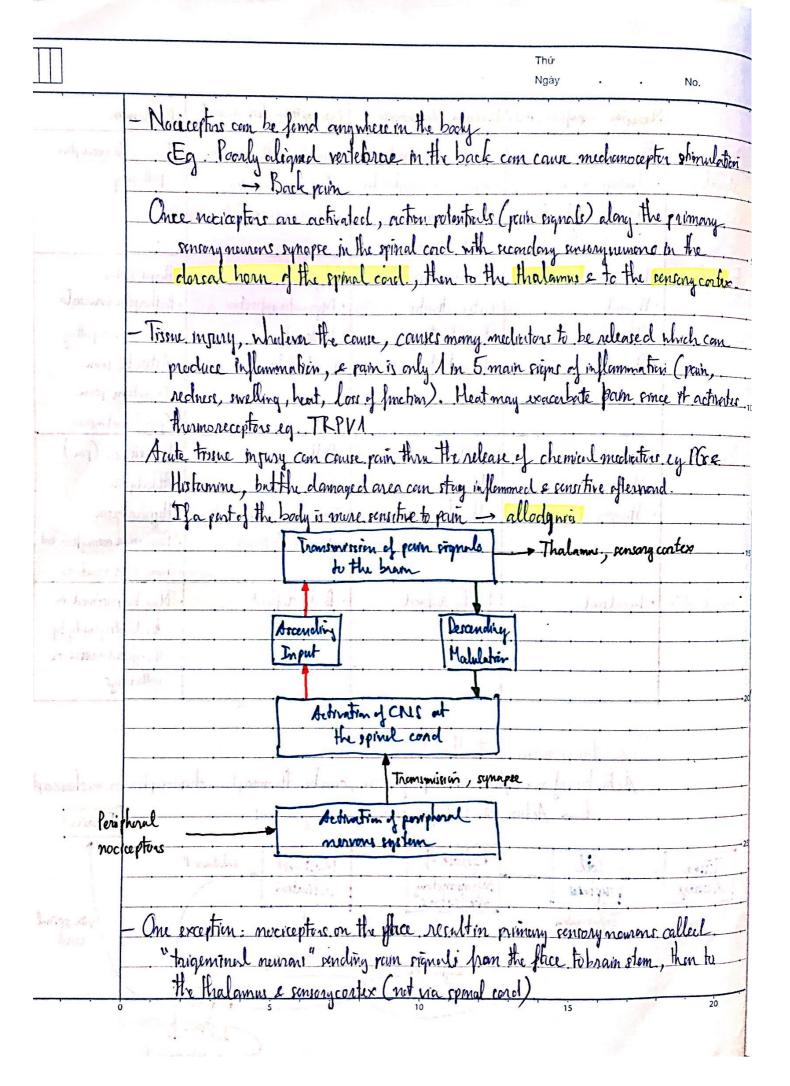
| | | | | Thứ | |
|-----------------------------|---|----------------|----------------------|--|--|
| Ш | | | | Ngày · No. | |
| | a Asthma & Pregnamay Flamming | | | | |
| . 1 | · Consider peplacing curant preventer m/ a ContA preventer, to see of outhour conta | | | | |
| | remains etable | | | | |
| | · Once st | uble on I | CS/LAB combino | trois, achie to continue & explain that stopp | |
| | LAB | t com often | lead to less of | asthma control | |
| | · If the | mmon is on? | gions to stop A | RA before pregnancy, discus riske benefits | |
| 1 to | d I | CS monother | rapy tral. If | controll is not maintrined on It's alone, | |
| | the p | citient should | be put back on | the previous regimen. | |
| () | | F0. 5 11 | D. L. | Carlotte 1 | |
| Seventy | Symptoms | FEV, 20 probib | | Comments | |
| Milel Internitient | Ledy week; | >80% | SABA | · Use at rescue thropy in all type gasthma - Salbutamel is most safe | |
| Milel | ≤2 might/month | ≥ 80% | 1 1 700 | | |
| persistent | 3-6 days/week; | 4.80.0 | Londone ICS | · Badesonich most safe, but other ICS also | |
| Moderate | Intermittent daily) | 61-79% | Med-dose ICS | . A ICS dose on adding LABA to ICS one | |
| persistent | > 4myhts/week | 01-17- | on ICS/LABA | equally safe | |
| | lab of th | AT MAN OF T | 1 | · LABA should not be used as mohotherapy | |
| | | obstant of | | - Salmeterel, but no evilence shews other LABAS | |
| | 3.150 | 4-00 12 | | are less sake or efficacións. | |
| Sexere | Continuous daily | 460% | Highelen DCS/MA | ^ | |
| persistent | enightly | | Onal steroid of nude | The state of the | |
| | | | of and some | needed, especially in the 1st trimester | |
| , mid | n- Jeul 1 1 | | 0 / | 1 02 P (1 / 1M-) | |
| | | | | ntions in pregnancy | |
| | - lo avoid mai | lemal e fetu | I hypoxida, | outrants should be commalled to start 2 | |
| - | resau ther | apy at home | when they have | worsening of symptoms, eq. conghing, 80% FEV. % personal best. | |
| - | chut Fighte | vers, olysphea | , wheezing, < | 803 FEV. To personal best | |
| paper services out to are t | With agood 1 | uspense, The | patient con contr | nal normal activity | |
| - | If notice I in | fetal activit | is on luck of go | ord response - immediately seek medical as | |
| , , | | 5 | | 15 20 | |
| | | | | | |

| | 1. 1 | | |
|---|--|--|---|
| - | Inhaled SABAs are the rescue therapy of chor In general, patrients should we up to 2 treatments on nebulized salbertained at 20 min interval Higher desce com be unch for severe symptom. | ice for asthma of inhalad sal of for mut mile xacerbation | chiring pregnancy. butumal (2-6 peffe). I to moderate symptom |
| | Higher duses com be unch for severe symptom es For a women w/ arthma, oral contro steroid should | d be commenced if | indicated as other achil |
| - | | | |
| - | | | |
| | | | |
| | | | |
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| | | | |
| | | | 25 |
| | | | |
| | 5 10 | | |

| Week 7: 16/4/2018 Thứ Ngày No. |
|---|
| I) Intro to par , opioid chemistry e pharmacology of analysis. Intro O Para definition - Pain = unpleasent consony e emotional experience associated of actual or potential true damage, or described in terms of such damage. -> Pain case exist of an without physiological strongly (mostly with) |
| - Parin processing normally begins with nociception. encls with motor artest or a caraions exp. Parin serves as a warning signal to avoid harmful situation. |
| - Pain com be doughted chinically: Nociceptive: activetien of monmod pain fibers in response to a noxious stimulus, may be somethic (superficial sharture) or visceral (deeper organic). Neuropathic: injury /discouse affecting the peripheral and account agreem. Nixed nociceptive /neuropathic: |
| Types of pain -> different responses to dangs e treatments |
| |
| |
| 5 10 15 |



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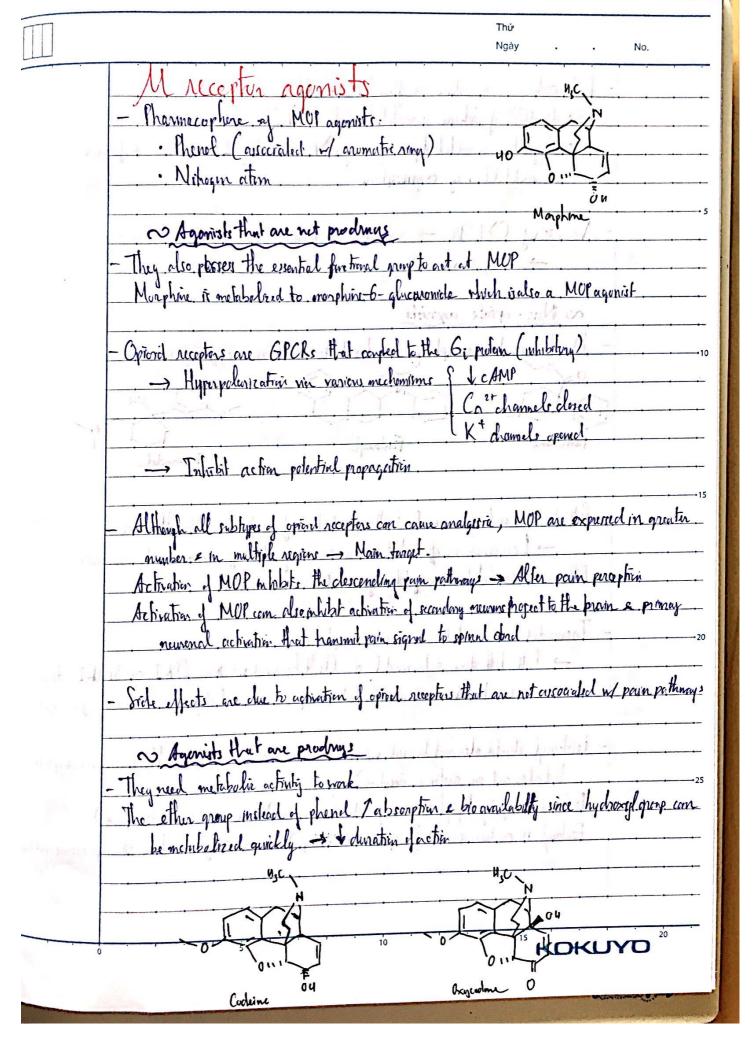


| | Ngày No. |
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| | To face is impervated w/ lette of servery nemons a large oreas of servery contex is declared to the face |
| | -> Face is so sensitive |
| | invatal 5 |
| | Modulation of pain reception |
| | - Occur either in the provin, spinal cord on the periphory |
| | Pain peraption is different for everyone, remainson gate theory. |
| | - Desanching pathways (pour modulation) are targets to treat both acute a chronic pour. |
| | - Other parts of the brain may involve with the modulation of paren: |
| | · Lymbre septem: if you have exp impleasant pain previously, prin sonration can be heighten |
| | · Frontal cortex: invalved in the conscious a avenence of poin - after pain perception |
| | |
| | 0 0 1 mg the graded to a character to |
| d | - Novy minusy news our can surgere onto a small secondary neuron that from mits pain |
| -VI | - Many minary neurous can synapse ento a single secondary neuron that frammits pour signal to the brain. Because of this convergence of primary neurons, a chronder. |
| | of an internal organ is sometimes perceived as cutavicous (skin) pain |
| | to the formal of the second |
| -50-4 | Eg: Cardiae ischemia, where neurone from the heart converge of there from arm a chealder - Pain can be felt in the neck, shoulder a deeft carm. |
| | chalder -> Pain can be felt in the neck, shoulder a dest carm. |
| | WI Fliction of the state of the |
| | - Offer examples: |
| | Para boan exactionis upper abdomen throat |
| | · Pour from heart: thront, shoulders, left arem, neck, buck head |
| | leute han many placeder: perianal area, pens |
| | · lan han left weter: left down abdomen & back |
| | · Pain from right prostate: right down abdomen, thigh a leg. |
| | 10 15 KOKUYO 20 |
| 0 | , KOKUYO |
| | |

| | | Thứ Ngày | · . No. | | | |
|-----------------|--|--|--------------------------------|--|--|--|
| | There are numerous acute point types, but will focus on: | | | | | |
| | · Postonea File verila | | | | | |
| | · Acute pour in the chest, abdoman or back | | | | | |
| | · Headache | | | | | |
| | · Fractures | | | | | |
| | The state of the s | ending and the r | His nurs - | | | |
| | Madia a Dayley | A design of the second | green mest | | | |
| | - Various ways were phorma a | analgeores) | | | | |
| | 4 de majo nhere phorma a | non-pharma option can | heat pour | | | |
| | Acute pour is classifications: | . 10 + 1 t | | | | |
| he distribution | Mora transma : sharn, spra | ains, chilocations, pactive | 1, minor chestinguin | | | |
| of w | · Major hanna; major chest | a head injuries | Ann pala a | | | |
| | · Associaled wil surgery: perioperative pain | | | | | |
| | Different drugs are used to heat different types of pain: | | | | | |
| in in an | Drug | Nociceptive | N 11: | | | |
| spheritan I | Paracetamol | Effective, most we ful when | Nemo pathic | | | |
| | second in the second in the second | tuking max dose regularly | Less effective | | | |
| | | (minimal conti inflame effect) | - fs | | | |
| 2 man has | NOAD, | Effective (welled omti- | 20 | | | |
| . 1943 | a limb and I have all III. | Information effect) | Les effective | | | |
| Service pro- | Oproveds | Effective | 11 11 11 11 | | | |
| | Antidepresents (TCA, SSRI) | . 19 | May be effective | | | |
| 165 g | Anti pileptris (gabupentin) | Ronely med | May be effective CTA | | | |
| 14 | Local ownesthetres (lidocaine) | were whole | anti prleptris are treatment ? | | | |
| - | 2/14 12/2 200 | (Phaglia and | of choice | | | |
| - | and the same | Hill with the south | 1988 | | | |
| F | 1 | at the | | | | |
| | 5 | The state of the s | make the second | | | |
| | | 10 | 20 | | | |
| | | | | | | |

| | Ngày . | No. |
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| How analgeries work | | , |
| no Oprovid amalgeorics | | • |
| - Opraids, generaly, mimic the endogener subs | toncer the endorshi | nr. acton oriond |
| receptor which exist in the brain, spinal a | | |
| - Endarphine = morphine - like substances na | trually produced in A | e baly. They all |
| have some opioned core of 5 amino aciels. | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |
| Wide range of functione: rigulate heart fruit | in, hermone mediator | , mood & emotion. |
| control. They are thought to be produced a | meler various circumstan | nces on which acrete |
| reliefes pour or montal distres a required | L. golf | |
| \$ P | - to se | |
| - Endorphins refer to a femilier of endogenon | s oproved perhoder: | |
| · Enkephalins (Met-; Len-) | | . # |
| · Dynarphyns (dyn1-17; dyn1-8; dyn | 1-4) | A - |
| · Endurpher (B; x-Neo; B-Neo) | | |
| 102 103 104 | | |
| All the endorphinecentain the fragment Typ- | Gly-Gly-Phe-(M | et/Lev) |
| -> Key for interaction n/ aprovid receptor | r in the second | |
| . The phenol of morphine mimic | is the N-term Tyros | me |
| · The 3 amine of morphine mimics | the 1 ammograpa | Tyrosine |
| * + + = | Marita di ta | Sar 8 |
| - Enclorphine one release in response to pleasant , | nement | |
| -> Relieving poin, but oan also be addres | tie | Property Control |
| - Language | 4 1 4 4 | |
| ~ Opioid receptors | | 28 |
| -3 man tipes: M, J, K on MOI, D | OP KOP | |
| - Activation of opional receptors - ranges effects. | | |
| Notice of the sample was the same of the s | eve me adag. | |
| has to initially to the hit | | |
| Line Charles and All | A L | <u> </u> |
| 200 M AND A STATE OF THE STATE | · · · · · · · · · · · · · · · · · · · | |
| 5 10 | 15 | 20 |
| | KD | KUYD " |

| | | | | | Thứ Ngày | | |
|----------|----------------|-----------------|---------------------------------------|---------------|---------------|--------------|-----------|
| , , | | | · · · · · · · · · · · · · · · · · · · | M (MOP) | S(DUP) | K (KOP) | T |
| | • | | Brain | +++ | 201 to love | lage in a | \dagger |
| | | Analgesia | Spinol | ++ | ++ | _ | 7 |
| | | The same of the | Peripheral | ++ | = 1. | ++ | - |
| They all | - 1 1 1 | Re | sprinciply depression | | ++ | 1,7,3 | - |
| 6 | | | construction | ++ | A Arriva | + | |
| n sienz | 2 -200 | 161 | mo hility | 1 + + . | ++ | +/1 | |
| | 1 1 1 000 | E | uphunip | +++ | -/1- | | |
| | | Di | iphonin | rode to Jail | 5 - 1. | +++ | |
| | | Se | dahin | ++ | - ' 6 | ++ | |
| | | Physica | l defendence | +++ 6 | 1 1 Toral | ·大司 | |
| - | Jew | e coponina | , pentrul agon | MOP | DOP | KOP | |
| 1 | Natural | ly occurry | Morphine. | +++ | 301 | 1 114 | |
| | agon | 0 4 | Hydromerphone | | 1 1 1 1 | | |
| | Produy | | Codein | | | | |
| | T la - | Farmana | Oxycoclone | ++ | 11 | + | |
| 20.10 | Synthet | ic agenists | Pethidine | +++ | | 4 | _ |
| | | | Fentanyl | +++ | | 1. 1. 1. | 1 |
| | × | | Methadone | +++ | | | |
| | Synthetic par | itral agenist | Buprenciphine | 土 | - | - | Mr. |
| | Antago | nist | Nalosone | | interior | 14 1000 | |
| | | 0. | Naltrexone | | h 94 x 6 | | |
| | | -1-1 | Methylmaltrexam | u | 1 | white the | |
| | | <i>b</i> | 11 | | 1 0 | | |
| | - Whole | codein has | noacturby at MC | JP, it com he | metabolised | into morphin | L. |
| | _ Oxycod | are has week | ochrety of MOP | e is metabo | lized to make | ni opiorale | - |
| | , and a second | | | / | TO THE | | |



| | | Thứ Ngày |
|------------------|---|--|
| | - Both coderne a expedence are glen taken wally. 1-10% of coderne is metabolised by CYP2D6 | No. |
| | - Oxycodone is one bubolized by mony CYPs, inducti | ing 206 & SAL, to from whom |
| | - Varients of CYPLDs -> reduction in metabolism | |
| | -> Coneful Then doesny | TIC FILL OWE THE |
| | ~ Non-opiale agentists | |
| | - Don't resemble merphine -> bind to MOP in | a different manner |
| | | ON |
| | Pathioline Fentanyl | Transdol |
| | | 1 L. N. AD.L. |
| alog of t | - lettrictine is rulonger we due to the production of metal - Less amalgesis effect but oncre exceeding CNS | effect -> omsity, serzure. |
| 1 | Pethidre also inhibits remptake of serotonin into new | iven de la late |
| Comments of | - Tramadel also inhibit arotonin renptake | 0.10 |
| | - Both Restriction & Trainadel charlet the week in scrutining syndrime (abd crowners, diarrhea | 1 Sem SSRI on SMI to country kyan, and him |
| · Land Age and A | scrutuhine synatime (abot crownes, avanthea | , Idonycontries) |
| | - Fentanul should also not be ned n/ scrutonin increasing a but also act on scrotonin recepture) | medicine! (block untinen Magin |
| | Fentungl is highly lipophilis - patch (chromic) el | ozonge (palliative para) |
| | Fentungl is highly dipophiliz - patch (chronic) e le Fentungl is conhaindroated for opiate - naive patient - | only we when other open |
| ţ | и и | 20 |
| | 5 10 | 15 |
| | | |

