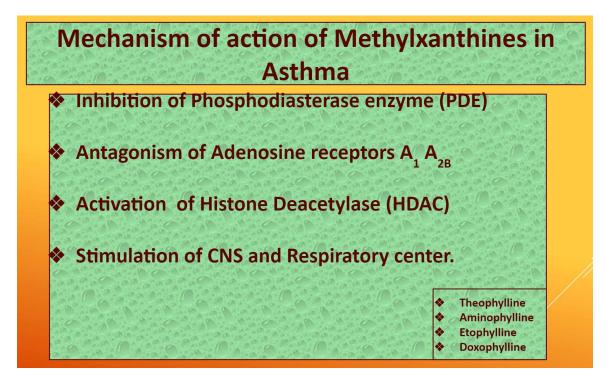
How mast cell stabilizer reverse the action of corticosteriod?



Activation of Histone Deacetylase (HDAC) reverses the resistance offered to offered to antiinflammatory effects of corticosteroids. Histone deacetylase (HDAC) is an enzyme that removes the acetyl group from histone proteins on DNA, making the DNA less accessible to transcription factors.

Ligature strangulation model Hanging and its types

1. Classification according to suspension

a. Complete hanging: used when the whole body is suspended and the feet DO NOT touch the ground; the whole body weight acts as the constricting force

b. Incomplete/partial hanging: used when body is not completely suspended and the feet touch the ground; weight of the body's head is the only constricting force

2. Classification according to position of the knot

a. Typical hanging: used when knot lies at the back directly over the occipital region and ligature is situated in middle of neck above the thyroid cartilage; death is due to occlusion of the carotid arteries

b. Atypical hanging: used when point of suspension is anywhere else; death is due to occlusion of...

- Carotid arteries

- Vertebral arteries (due to lateral flexion)

Drowning and its types **1. Typical drowning (aka wet)**

2. Atypical drowning (dry drowning, immersion syndrome, submersion of unconscious, + near drowning)

Inhalers type

1. Metered dose inhaler

- 2. Dry powder inhaler (rotahaler)
- 3. Soft mist inhalers

How to consel patient that inhaler is best then oral drugs?? Prescription for MI Prescription for Pulmonary TB Cardiac posions classification

- 1. Digitalis
- 2. Oleander
- 3. Aconite
- 4. Nicotine
- 5. Cerebra odollam

Amti asthmatic drugs classification

Classification of Antiasthmatic Drugs

- 1. Bronchodilators
 - (a) Sympathomimetics
 - (i) *Selective* β₂-adrenergic agonists: Salbutamol and terbutaline (short-acting); bambuterol, salmeterol and formoterol (long acting).
 - (ii) Nonselective: Adrenaline.
 - (b) Methylxanthines: Theophylline, aminophylline, etophylline, doxophylline.
 - (c) Anticholinergics: Ipratropium bromide, tiotropium bromide.
- 2. Leukotriene receptor antagonists: Zafirlukast, montelukast, zileuton.
- 3. Mast cell stabilizers: Sodium cromoglycate, ketotifen.
- 4. Glucocorticoids
 - (a) Inhaled glucocorticoids: Beclomethasone, budesonide, fluticasone, ciclesonide.
 - (b) Systemic glucocorticoids: Hydrocortisone, prednisolone, methylprednisolone.
- 5. Anti-IgE monoclonal antibody: Omalizumab.

MOA of mast cell stabilizers

Ex. sodium cromoglycate, ketotifen (they are NOT bronchodilators)

Inhibit release of mediators like histamine, LTs, PGs, PAF by stabilizing the mast cell membrane

(prevent degranulation)

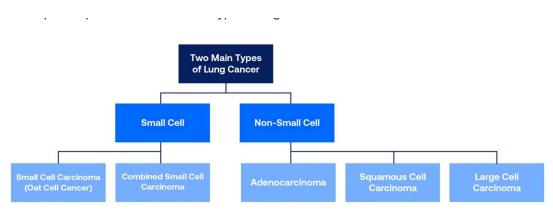
Reduce bronchial hyperreactivity to some extent but AG:AB reaction is not affected

Slow onset of action

DOTS

"directly observed therapy" (DOT): health care workers observe patient taking the medication

4 types of CA lungs



2 common causing community accquired pnuemonia

Streptococcus pneumoniae, Staph aureus, Haemophilus influenzae

4 types of emphysema

1. Centriacinar: central/proximal part of acini is affected (more common in upper lobes; seen in smokers)

2. Panacinar/panlobular: entire acini is enlarged (lower lungs affected; seen in a1-antitrypsin deficiency)

3. Distal acinar/paraseptal: proximal part of acinus is normal, distal part is mainly involved (more severe in upper half of lungs; seen in areas of fibrosis, scarring, or atelactasis; common in young adults w/spontaneous pneumothorax)

4. Irregular: acinus is irregularly involved (associated with scarring from inflammatorydisorders; clinically asymptomatic; most common form of emphysema)

Name 2 beta aganoist having partial function

partial agonistic activity, they stimulate B-receptors partially in absence of catecholamines (pindolol, acebutolol, labetalol, celiprolol, + carteolol)

Sogns of traumatic asphyxia S pnumonioa and H.Influenza Hypersensitivity of tubeculer test is of which type? 1- cardiac enzymes released post MI.

Myoglobin, CK-MB, CK, Troponin T, AST, LDH

2- Osler nodes, janeway lesions, splinter hemorhages, are signs of?

Bacterial endocarditis

3-four conditions in tetrology of fallot.

1. Right ventricular hypertrophy

- 2. Pulmonary stenosis
- 3. Overriding aorta
- 4. VSD

4-virchow's triad.

1. stasis in blood flow

2. hypercoagulability

3. endothelial cell damage

5-one major and one minor criteria for diagnosis of endocarditis.

Infective endocarditis - modified Duke criteria	
Diagnostic criteria for IE	 Major criteria Blood culture positive for typical microorganism (eg, <i>Staphylococcus aureus</i>, <i>Enterococcus</i>, viridans streptococci) Echocardiogram showing valvular vegetation Minor criteria Predisposing cardiac lesion Intravenous drug use Temperature >38 C (100.4 F) Embolic phenomena Immunologic phenomena (eg, glomerulonephritis) Positive blood culture not meeting above criteria Definite IE 2 major OR 1 major + 3 minor criteria Possible IE 1 major + 1 minor OR 3 minor criteria

6- two modifiable and 2 non modifiable risk factors for atheresclerosis.

Non-modifiable: age, gender, genetics

Modifiable: HTN, hypercholesterolemia (LDL), smoking, diabetes

Cardiac poisons Strangulation types

- 1. Manual strangulation (throttling)
- 2. Strangulation by ligature
- 3. Mugging (choke-hold)
- 4. Garroting
- 5. Bansdola

Lynching

Method of homicidal hanging in South America in which a group of people act together to overpower an individual and hang him by means of a rope to a nearby tree (or other object)

Signs of antemortum drowning

- 1. Positive diatom test
- 2. Fine froth
- 3. Cadaveric spasm: presence of weeds in the hands
- 4. Water/mud in stomach or intestine
- 5. Middle ear + mastoid air cell gave hemorrhages
- 6. Rib markings on the lungs
- 7. Emphysum aquosum: term used to describe hyperexpanded and 'waterlogged' lungs

Beta blockers having partial agonistic activity

Ace inhibitors names

losartan, irbesartan, candesartan, olmesartan, valsartan, + telmisartan

Characteristics of chronic nicotine use

Results from continued use of tobacco by chewing, smoking, or exposure during processing/storage of nicotine

1. Those who chew tobacco: chronic cough, laryngitis, pharyngitis, + bronchitis

- 2. Those who handle it: dermatitis
- 3. Stains teeth + bad breath
- 4. Amblyopia, blindness
- 5 .Cardiac arrhythmia w/extrasystole + chest pain

- 6. Occlusive thromboangiitis obliterans is common
- 7. Increased incidence of mouth, tongue, throat, larynx, + lung cancer
- 8. Non-thrombocytopenic purpura after smoking mentholated cigs

Types of asthma

- 1. Atopic asthma (most common; IgE mediated type 1 HS reaction)
- 2. Non-atopic asthma: resp infections due to viruses, inhaled air pollutants
- 3. Drug-induced asthma: aspirin
- 4. Occupational asthma

Types of pnemoconiosis

Silicosis, anthracosis, asbestosis, byssinosis, bagassosis, tabaccosis, farmer's lung, siderosis

Modifiable and non modifiable risk factors of cvs diseases DOTS Imp of DOTS

It is the solution to noncompliance (patients who fail to complete the course of therapy) Prevents development of resistant strains of TB

why patients leave tb drugs

Side effects, long duration of treatment

Complications of pnemoconiosis

Chronic obstructive pulmonary disease, hemoptysis, pneumothorax, pleural disease, tuberculosis, autoimmune disease, anthracofibrosis, chronic interstitial pneumonia, and malignancy

Quarantine vs isolation

Isolation: seperation of a person suffering from communicable disease in order to prevent transmission

Quarantine: measure directed towards isolation of a healthy traveler from an infected area, for at least the longest incubation period of the disease

Diseases caused by influenza virus

1. Sinus + ear infections (otitis media)

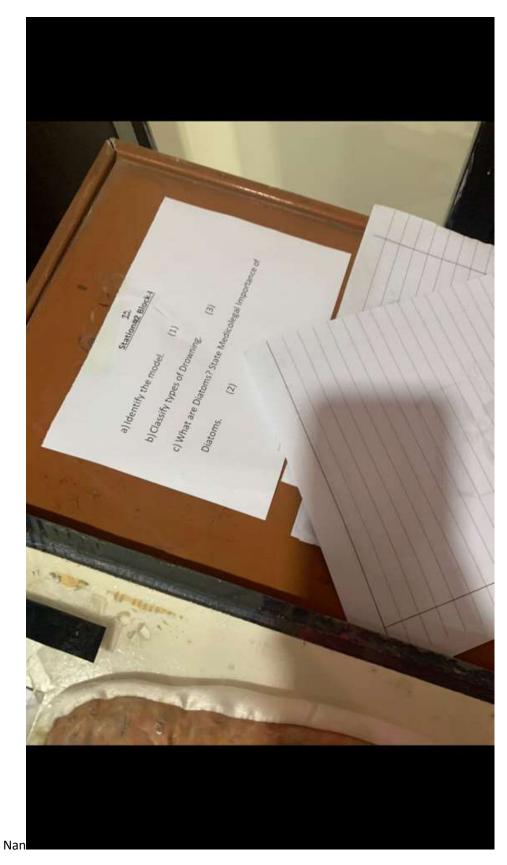
2. Pneumonia

3. Sepsis (due to severe resp tract infections)

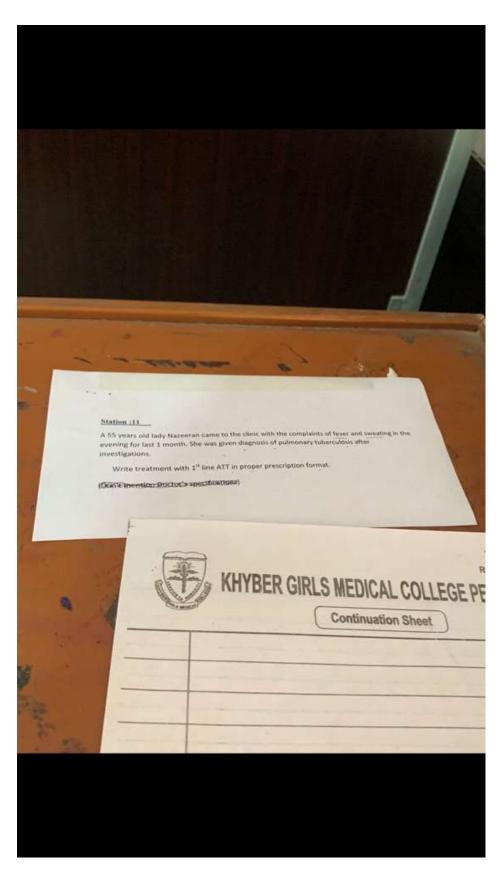
Preventions for people with occupational asthma

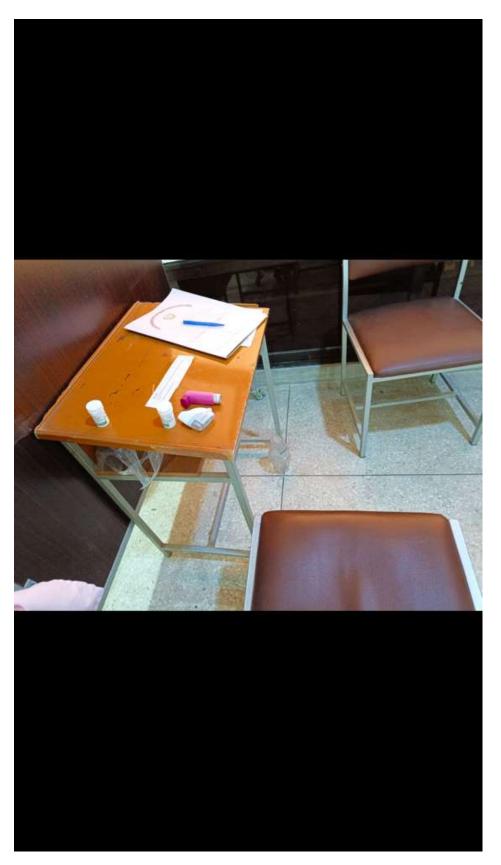
1. Reduce exposure

2. Use of PPE

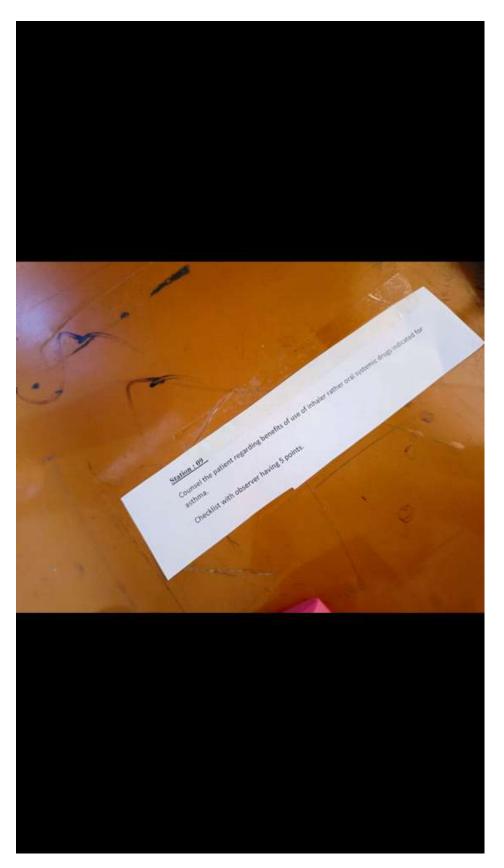


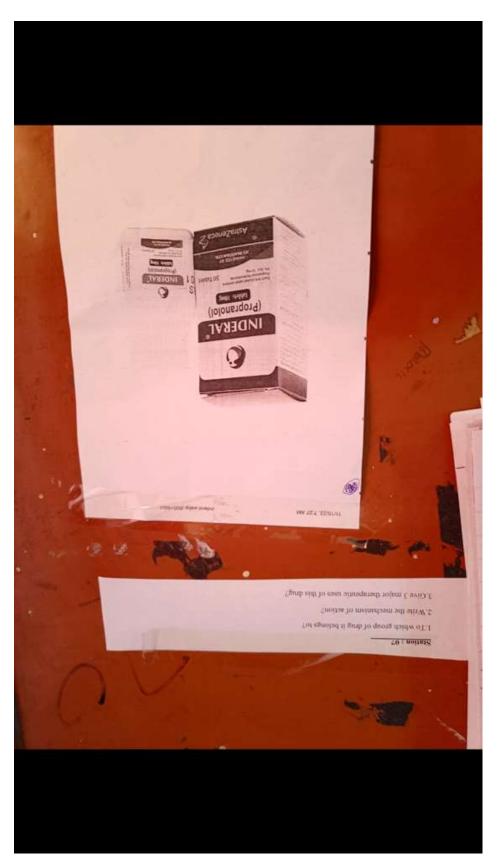


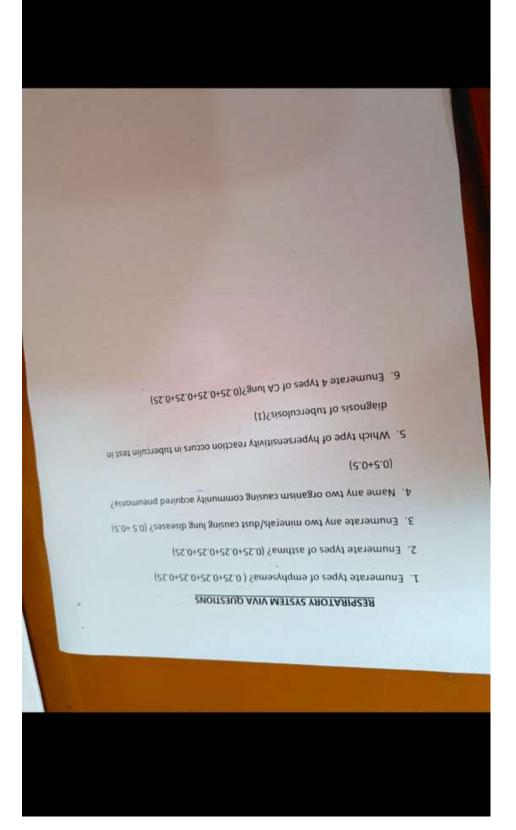


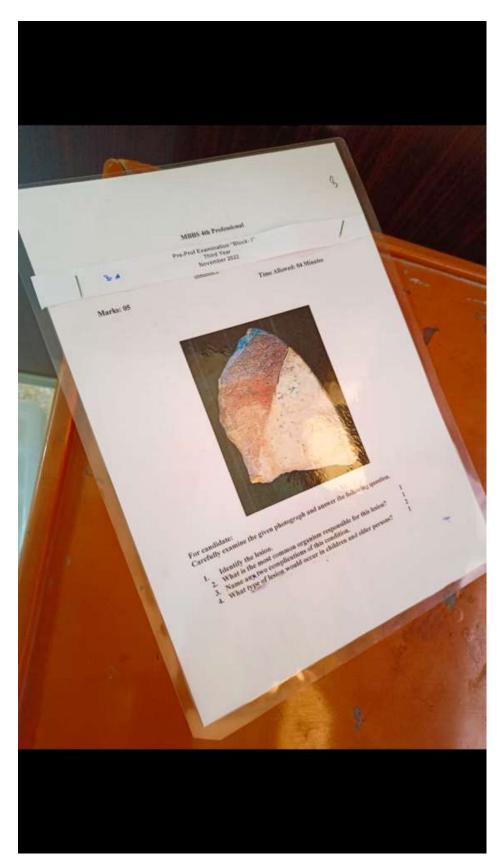












CVS VIVA QUESTIONS

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Ν

- Name the specific cardiac enzymes, which are raised post -MI in blood? (01)
- What are the four major cardiac defects in tetralogy of fallot? (0.25+0.25+0.25+0.25)
- Osler nodes, Jane way lesions, splinter hemorrhages and petiches are the skin lesions which occur as a result of which type of heart disease? (01)
- What is one major and one minor criteria for the diagnosis of infective endocarditis? (01)
- What are three basic components of Virchow's triad in pathogenesis of thrombosis? (01)
- Name 2 modifiable and 2 non.modibiable risk factors for atherosclerosis? (01)



