# TEST BANK

Doctor 2019

# **SUBJECT:**

CARDIOTHORACIC SURGERY - FINAL THEORY COLLECTION

# **COLLECTED BY :**

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# 6th year final exam - 2018

1. True about Dominant Right coronary artery:

answer: gives PDA branch and supplies AV node

2. requires immediate intervention?

answer: transposition of great vessel

3. Fatal condition?

answer: left coronary from pulmonary

4. PDA dependent heart defect?

answer: PGE1





### explanation:

Patent ductus arteriosus (PDA) is a condition where the opening between the two major blood vessels leading from the heart fail to close after birth. PGE1 is a substance produced by the ductus that keeps it open.

5. Which of the following is the most appropriate statement regarding chest trauma:

(a) 25% of trauma mortalities are related to the chest.

b) most patients with chest trauma will end up needing a thoracotomy.

c) tracheal and bronchial trauma are repaired via a median sternotomy.

d) continuous bleeding of 50 ml/hr requires a thoracotomy.

INTRODUCTION Rapid accumulation of greater than 1500 ml or 1/3rd blood volume in Pleural cavity. ve hemothorax is defined as blood drainage ≥1500 closed thoracostomy and continuous bleeding at 200 ml/ hour for at least 3 to 4 hours.



answer : C (maybe)

6. A patient undergoes left pneumonectomy for lung ca. 5 days after the surgery, he has fever and cough with copious amount of sputum. CXR showed air fluid level in the postpneumonectomy space. What is the best next step?

(a)) Pleural fluid analysis and culture

b) Chest drainage

c) Thoracotomy

d) Sputum cultures and start antibiotics



answer: A pear as a flat line or a crescent depending on the viscosity of the fluid. Visible on erect and decubitus radiographs and axial CT scans. Causes include l tion and several types of lung lesion.

#### Explanation:

A: bcz After CXR we have to determine the cause of air fluid level to guide us for further management, B: is necessary but not the first step. C: invasive procedure ( not preferable after major sugery ) D: fluid analysis before start abx.

7. All are causes of persistent decrease in CO after cardiac surgery except:

condingenica) poor myocardial function

Lo Shock onstructive b) cardiac tamponade

Hypovolemia

1 Apovotumic d) Bleeding Alkalosis

answer: E

#### **EXPLAINATION:**

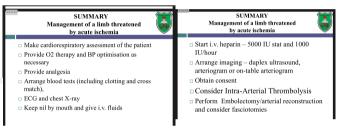
Hypovolemia and bleeding causes low CO by decreasing preload. cardiac tamponade is a decreased in diastolic filling, which leads to a decreased cardiac output. Poor cardiac function means decrease contractility then decrease CO.

8. acute lower limb ischemia (The embolus was in the common femoral artery and the patient presented with weak sensation of 5 hour-duration.) best management:



- (b)) Embolectomy
- c) Aorto-femoral bypass
- d) femero-femoral bypass





The Facts:

The surgical revascularisation required

answer: B

First choice of treatment is embolectomy then use IV heparin as adjunct to prevent another clot formation. bypass used in case of fully blocked artery not in case on embolus

### 9. PVD ??

Explanation:







answer: C

(c)) rest pain and intermittent claudication have different natural  $\overline{\mathsf{hx}}$ 

d) Normal ABI excludes significant disease

# 10. Wrong about DVT:

a) pt needs admission before starting the treatment

b) pt may have PE without any symptoms

- c) It's important to assess whether it was provoked or Unprovoked
- d) Level of DVT affects your management
- e) You should not delay treatment till you do the u/s

answer: A + E

#### Explanation:

We can discharge pt to home on NOAC if DVT is confirmed. but whem PE is confirmed we have to admit pt. in addition to that we have to do images before start treatment لأنه العلاج بختلف حسب شو بيطلع معى بالصورة



pulmore y	PVR	RA	LA
In Utero	1	1 1000013	\$ ↓
Birth	1	1 V	<b>→</b> ↑

11. What is true about fetal circulation?: مثلان اول نفت بعد ١١٥ الله

- a) Functional closure of foramen ovale occurs within 24hrs refore
- b) Ductus arteriosus continues to shunt blood from Rtto Lt after birth Lt ort after 1314th
- c) Umbilical artery is a branch of common iliac artery (it's a branch of internal iliac) &
- (d) the pulmonary artery resistance decreases after closure of the ductus arteriosus
- e) Low O2 tension is associated with closure of PDA toz & PGE2

answer: D

12. A patient presenting with signs and sx mostly consistent with acute mesenteric ischemia. ABGs: pH 7.32 JHCO3 14, pCO2 What is the acid-base disorder?

answer : Metabolic acidosis with respiratory compensation في نقص بمعطيات السؤال

13. There was a question about lower limb amputation but I can't remember the details. answer: start rehabilitation as soon as possible

# 4th year final exam - 2018

att of the PROVe, pater land to be long to Squatting: 1 SVR, 1 right to left shunt, improve

1. Most common site of venous ulcer

Answer: lower third of the leg and ankle  $\vee$ 

2. Exercise effect in PAD:

answer: improves walking distance

3. Not used for AAA repair:

answer: Axillo-bifemoral bypass

4. Cause of early cynanosis:

answer: Transposition of the great vessels 
Rt. -olt. Shumt

5. Not in TOF:

answer: ASD

6. Indication for CABG:

answer: Patient with unstable angina, three-vessel disease, EF = 35 %

7. MI with occlusion in LCX artery, pt has left dominant circulation, which parts will be Lo post. descend. Art. infracted:

answer: Left lateral ventricle and posterior interventricular septum

8. False about lymphadema:

answer: lymphedema praecox is primary and lymphedema tarda is secondary (both of them are

primary)

9. False about pneumothorax:

answer: tension pneumothorax is diagnosed by CXR

General principles [8]

Indications for open-heart surgers

■ Coronary Artery Bypass Grafting: (CABG)

Lf main coronary artery disease

Anomalies of Coronary arteries

10. Which of the following is associated with the highest relative risk of developing DVT:

answer: Antiphospholipid syndrome (The other choice were heterozygous factor V leiden, prothrombin

mutations, heterozygotes protein C deficiency)

11. Question about pancost tumor:

answer: 2/3 of the cases are associated with squamous cell carcinoma paneous is a non smell cell LC, particularly squeemons cell CA

12. Which of the following is false intermittent claudication:

answer: becomes better at Night مرم المحرك المحمد على المحمد الم Rest pain

· Worst at night,lying, relieved by putting the



### Intermittent claudication

- ABI: 0.5-0.9
- Cludication distance
- Calf is the most common



- Numbness 5 Parasthesia
  - · Color change

Coldness

· Differentiated from night cramps

leg in dependent site

# 4th year final exam - 2016

1. Most common congenital heart defect: Ventricular septal defect—most common

answer: Membranous VSD 🗸

2. Closure of foramen primum by union of: -

answer: Septum primum with AV cushions

3. Wrong about CHD:

a) In TOF: VSD and RVH

b) In TOF: pulmonary artery stenosis and overridingaorta.

c) TOF is due to aorticopulmonary membrane defect\*?? (It is due to anterior and

superior deviation of the outlet septum.



congenital cardiac anomaly, usually occurs in

answer: A

4. Most common cause of death at site of accident is:

- (a) Vascular injury
- b) Thoracic injury
- c) CNS injury

answer: A

5. Which factor is the most associated with symptomatic PVD:

- a) HTN
- (b) DM



answer: B

6. Sepsis with organ failure and persistent hypotension is the definition of:

- (a) Septic shock
- b) SIRS
- c) Severe sepsis
- d) MODS



answer: A

7. Not part of the SIRS criteria:

- a) Temperature < 36
- b) HR >90
- c) WBC > 12000 or < 4000
- (d) RR>8 or PaCO2 >23mmHg
- e) Cell bands > 10%

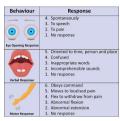


answer: D

### 8. Patient lost 1700 ml of blood:

answer: Class III shock (lost 30 - 40 % of blood volume)

- 9. Pt has inappropriate words, open eyes in response to painful stimulus, flex limbs in response to painful stimulus. Find his GCS:
  - (a)) 9
  - b) 8
  - c) 7



answer: A

# 10. P50 for a male with normal [Hb]:

- a) 15 mmHg
- (b) 25 mmgh
- c) 35 mmgh
- d) 40 mmgh

answer:B

# 11. Wrong about compartment syndrome:

- a) Fasciotomy of all affected compartments
- (b)) Absent pulse is an early sign

answer:B

### Explanation:

Absent of pulse: late sign

# 12. Female with DVT. Wrong about treatment:

- (a)) admission
- b) she may have PE without signs
- c) level of DVT determination would affect the management
- d) need to determine whether it is provoked or unprovoked
- e) good treatment reduce recurrence and post thrombotic syndrome

answer: A

answer:D

# 13. wrong about critical limb ischemia

- a) mostly are revascularized
- b) worse prognosis than intermittent claudication
- c) amputation is occasionally the only choice
- d)) Majority ends with amputation, or become severely diseased in 12 months follow up

#### Critical limb ischemia (CLI) [3]

· Indicative of limb-threatening arterial occlusion

- Characterized by the presence of any one of the following:

  - Rest pain lasting ≥ 2 weeks Nonhealing ulcers
  - o Tissue loss (gangrene)

### Amputation [10][7]

- · Wet gangrene, unsalvageable limb: Urgent amputation may be required, especially in patients with sepsis.
- . Dry gangrene: Consult vascular surgery to evaluate for revascularization prior to amputation.

John 160

- 14. Clinical picture of <u>pneumothorax</u> (RTA, SOB, patent airway, hyper resonance and decreased breath sounds on right). What is the most appropriate next step?
  - (a) Needle thoracotomy
  - b) Intubation and ventilation
  - c) IV access
  - d) CXR
  - e) Lavage

answer: A

# 15. most malignant feature in lung cancer:

- a) no change on CXR after 5 months
- (b)) speculated appearance



Etiology of Pleural effusion

# 16. serous pleural effusion:-

answer: congestive heart failure

### 17. most common lung cancer:

- (a) metastases
- b) small cell carcinoma in smokers
- c) squamous cell carcinoma in smokers
- d) bronchogenic adenoma
- e) peripheral adenocarcinomas in non-smokers

In the lung, metastases (usually multiple lesions) are more common than 1° neoplasms. Most often from breast, colon, prostate, and bladder cancer.

answer : È

# 18. the complication with worst prognosis of aortic stenosis:

- (a)) congestive heart failure
- b) syncope
- c) angina



answer: A

# 19. Trauma patient presented to the ER first step?

answer: Secure airways

1 vy neoplasms

LUNG CANCER

# 6th year final exam - 2015 & others

1. Which of the following has the greatest impact on the physiology of tetralogy of Fallot?

- a) The size of the ASD.
- b) The size of the VSD.
- (c)) The degree of pulmonary stenosis.
- d) The amount of aortic overriding.



answer : C

- 2. The congenital coronary lesion most likely to cause death in infancy is:
  - a) Coronary artery fistula. علاء
  - b)) Origin of the left coronary artery from the pulmonary artery.
  - c) Origin of the right coronary artery from the pulmonary artery.

d) Congenital coronary aneurysm.. عادی



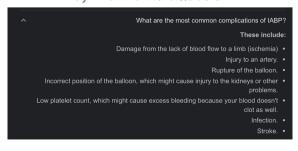


a megor Artery > Re AICAPA synchrone

Lest coronary is

answer:B

- 3. Which of the following are the most frequent complications of intra-aortic balloon counter pulsation?
  - a) Stroke.
  - b) Limb ischemia.
  - c) Arrhythmias.
  - d) Aortic thrombosis





answer:B

- 4. The atrial septal defect (ASD) most commonly associated with partial anomalous Defect in interatrial septum [D], wide, fixed split (S2). Ohiom secundum defects most common and usually a gisolated finding, estimation, and the split of the pulmonary venous return (PAPVR) is:
  - a) Sinus venosus defect.
  - b) Ostium primum defect.
  - c) Complete atrioventricular (AV) canal defect.
  - d) Coronary sinus defect.

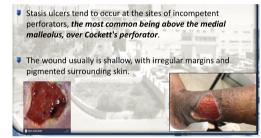
with other cardiac anomatics. Symptoms ange from none to HF. Distinct from patent paramen ovale, which is due to failed fusion.

\* systolic & Diastolic murmur

Patent foramen ovale—caused by failure of septum primum and septum secundum to fuse after birth; most are left untreated. Can lead to paradoxical emboli (venous thromboemboli entering the systemic arterial circulation through right-to-left shunt) as can occur in atrial septal defect (ASD).

answer: A

- 5. A 55-year-old woman gives a history of tiredness, aching, and a feeling of heaviness in the left lower leg for the past 3 months. These symptoms are relieved by leg elevation. She is also awakened frequently by calf and foot cramping, which is relieved by leg elevation, walking, or massage. On physical examination there are superficial varicosities, nonpitting edema, and a slightly painful, 2 cm. diameter superficial ulcer 5 cm. above and behind the left medial malleolus. What is the most appropriate diagnosis?
  - a) Isolated symptomatic varicose veins.
  - b) Superficial lymphatic obstruction.
  - c) Deep venous insufficiency
  - d) Arterial insufficiency
  - e) E. Incompetent perforating veins



answer: C

Alba = white

# 6. phlegmasia alba dolens, false:

- a) require treatment with LMWH /
- b) absent distal pulses
- (c)) limb is blue in color



Phlegmasia cerulea dolens Definition: a severe form of phlebo associated with high mortality

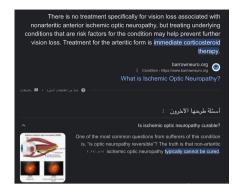
• Symptoms Coldness, cyanosis, and pulselessness

A rare condition in which a complete obstruction of venous drainage from the limb results in significant fluid sequestration, edema (due

answer:C

# 7. Revasculirization surgery is indicated in all of the following cases except:

- a) Claudication
- (b) ischemic neuropathy
- c) rest pain
- d) ulcer
- e) gangrene



answer: B

- 8. Which is most lethal coronary anomaly: left main arising from pulmonary artery (alkapa)
- 9. Most prognostic in TOF: degree of pulmonary stenosis
- 10. Most likely ASD type with partial anomalous pulmonary venous return:
  - (a) coronary sinus venous
  - b) septum secondum
  - c) septum premium
  - d) AV canal malformation



answer: A

EF is an index of ventricular contractility (4 in systolic HF; usually normal in diastolic HF).

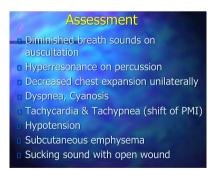
11. Ejection fraction is defined as: - Stroke volume ratio to end diastolic volume

Ejection fraction

EF =  $\frac{SV}{EDV} = \frac{EDV - ESV}{EDV}$ 

# 12. Most likely sign indicating pneumothorax:

- (a) weak lung sounds
- b) dull percussion note K Hyper-vesoremt
- c) shift of mediastinum to same side ot 
  ot
- d) crepitations &



answer: A

# 13. Most common complication with intra aortic balloon pump:

- a) Arrhythmias
- (b) limb ischemia

c) hematoma at site of insertion



- d) stroke
- e) aortic dissection



14. Most feared complication after thoracic aortic repair surgery is: - paraplegia

15. "definitive" to show transection of (forgot the vessel) after trauma?

- (a)) CT
- b) CXR
- c) aortogram/angiogram



answer: A

answer: B

# 16.. Popliteal artery aneurysm, true:

What percentage of popision artery arterityers are bilatera? solve luminal narrowing of the popision autrory from thrombus formation image cause an estimate or set of claudication. Agriculturally 50% of the puterint present with balanced construction.

- a) 70% bilatera
- (b) most common peripheral anurysm?

Most peripheral aneurysms occur in the popilical artery, which runs down the back of your lower thigh and knee. Having a peripheral aneurysm in one leg increases the risk that you will also have one in your other leg. Less frequently, peripheral aneurysms can develop in the: femoral artery of your groin.

popilities aneurysm is budging and weakness in the wall of the popilities artery, which supplies blood to the knee joint, thigh and call. A popilities aneurysm can burst, which may cause life-threatering, uncontrolled ding. The aneurysm may also cause a blood clot, potentially requiring a lieg amputation.

- c) likely to present with compression on near nerve and vessels
- d) most commonly present with pregnancy

most commonly present with pregnancy

e) if pt have abdominal aortic aneurysm he has 50% risk of having popliteal aneurysm

answer: B

# 17. Lymphedema, false:

- a) filariasis is the most common cause of lymph edema worldwide  $\checkmark$
- b) lymphedema praecox is most common primary lymphedema
- c) best viewed by lymphogram
- d) weight loss can help to improve lymphedema in obese pt 🗸
- (e) all cases must be managed surgically

answer: E

### **EXPLANATION:**

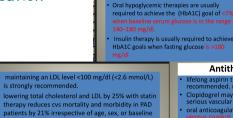
We can treat lymphedema conservatively . weight loss help in decrease pressure on lymphatic drainage and lymphedema will improved .

18. ABP complication: Lower limb ischemia

# 19. the most significant sequelae in patients diagnosed with DVT: - Pulmonary embolism u

# 20. doesn't improve claudication:

- a) Exercise
- b) Smoking cessation
- (c) Aspirin
- d) Bypass
- e) Angioplasty



LifestyleModification and Secondary Prevention Conclusions. Treatment with aspirin did not show a difference in initial diadication distance or absolute claudication distance improvements compared with clapidaget after a 3-month waken perhabitation of the compared with clapidaget after a 3-month waken perhabitation and program.

I program.

I program and program

### **Antithrombotic Therapy**

- recommended. (meta-analysis of 370% patents with PMD)
  Clopidogrel may be superior to aspirin in reducing serious vascular events in PAD patients. (CAMBILITY or all anticoagulation improves graft patency in
- serious vascular events in PAD patients. LOANITIONS oral anticoagulation improves graft patency in venous conduit, whereas aspirin gives better results for non venous, prosthetic grafts [Dush multicuter randomized trust]
- antiplatelet agents still remain the recommended agent in the majority of patients undergoing (uncomplicated) infrainguinal vascular reconstructive surgery: <u>Exceptions</u> are patients with femoro-distal bypass procedures, who may be at increased risk for graft thrombosis.

obstation Exercise, preferably a walking program. Treatment of related medical problem such as high cholesterol, high blood pressure, and/or high blood sugar levels (glucos intolerance or type 2 diabetes

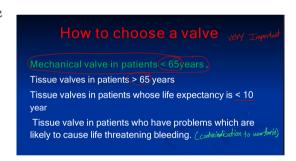
answer : C

# 21. -What supports the use of synthetic valve over biological valve:

cholesterol level.(Heart Protection Study)
The use of (ACE) inhibitors may confer more

safety using of beta-blocker PAD patients, except in the most severely affected patients with CLI (meta-analyst

- a) A patient with thrombophilia
- b) 30 year old female willing to get pregnant
- c) 70 year old co morbid male
- (d)) 30 year old healthy male





answer: D

# 22.-PDA all true except:

- a) Associated with maternal rubella
- b) Decreased murmur sound is a bad prognostic factor
- c) LV hypertrophy precedes RV hypertrophy
- d) Most cases closes spontaneously in the neonatalperiod
- e) One third die at age of 40 if not corrected

In fatal period, shunt is right to left (normal)
In monatal period, I pulmonary vacular
resistance — shunt become left for right
— progresser RVH andro LVH and HF.
Associated with a continuous, machinelike
unnume. Beaness maintained by PDAE (a peached)
synthesis and low O: tension Uncorrected
PDAE (an executably result in late exanosis
in the Long extremities (differential exanosis)

answer:C

# 23.most common etiology of thoracic aortic aneurysm:

- a) HTN
- (b) Atherosclerosis
- c) Cystic medial necrosis

The most common cause of a thoracic aortic aneurysm is hardening of the arteries (atherosclerosis). This condition is more common in people with high cholesterol, long-term high blood pressure, or who smoke.

۲.۲۲/.۵/۱.

d) Marfan

answer: B

# 24. -all are true about mediastinal masses except:

- a) Thymoma is associated with muscle weakness usually
- b) Most common mediastinal masses are metastatic tumors
- c) Thymoma is a posterior mediastinal mass

answer: C

#### Explanation:

Thymoma is a anterior mediastinal tumor.

### 25.most common pericardial tumor is:

- (a)) Metastatic bronchogenic cancer
- b) Lymphoma
- c) mesothelioma

othelioma is the most common primary malignant perior neoplasm. Other malignant tumors include a wide variety of sarcomas, ymphoma, and primitive neuroectodermal tumor. When present, signs and symptoms are generally nonspecif

answer: A

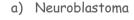
Lymphomas Neurogenic tumors

Mesenchymal tumors

Resencement tumors and cysts Hiatal hernias. Thoracic duct cyst. Meningocele.

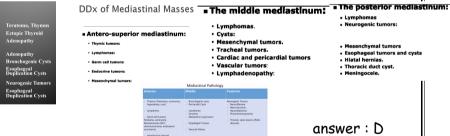
# 26. which of the following least likely to cause middle mediastinal mass:

Regionalization



- b) Lymphoma
- c) Thymoma
- (d)) Ganglionblastoma





answer: D

27. true about claudication: The pain is reproducible and due to ischemia

28. false about pneumothorax: tracheal deviation toward the affected side

29.false about pneumothorax: collapsed neck veins

Hemothorax

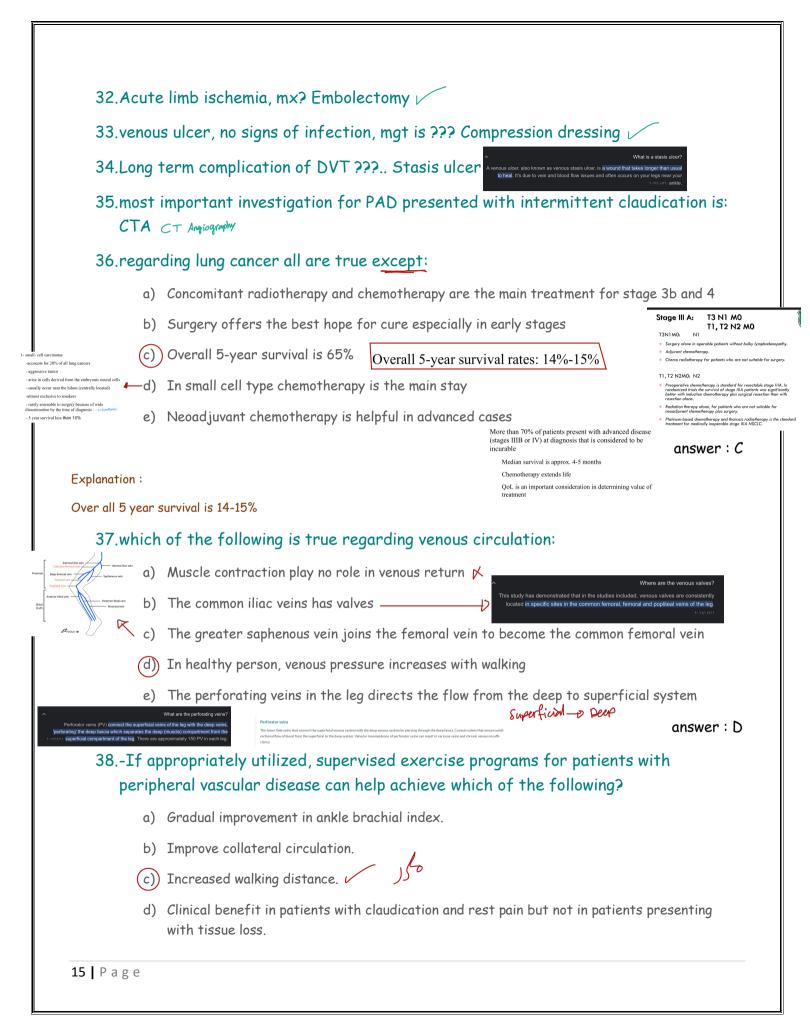
Massive = > 1500

R/T Pulmonary

30. after CVA elective surgery must be delayed to how long 6 weeks

31. thoracotomy indication for hemothorax? 1000cc and continues 200cc and didn't decrease

> Interventions Chest tubes to evacuate blood Careful monitoring of drainage
>  Possible thoracotomy if >1500 ml or persistent bleeding 200ml over 3 hrs Frequent vital signs, I & O Evaluate Pt response IV fluids, blood as ordered or reinfusion of drainage after filtering



e) Reduces the need for long term antiplatelet therapy.

answer: C

- 39.A 68 year old man sustains a myocardial infarct resulting from thrombotic occlusion at the origin of the left circumflex artery. Cardiac catheterization demonstrates that the patient has a left dominant coronary circulation. In which of the following areas of the heart has ischemic necrosis most likely occurred?
  - a) Apex of left ventricle and anterior portion of septum
  - (b) Lateral left ventricular wall and posterior portion of septum



- c) Lateral wall of the left ventricle only
- d) Posterior portion of the septum only
- e) Right ventricular wall

answer: B

- 40. Pancoast tumors are located in the apex of the lung and involve through tissue contiguity the apical chest wall and/or the structures of the thoracic inlet. Which one of the Following statements regarding Pancoast tumor is correct?
  - a) Pancoast tumor account for 25% of all bronchogenic carcinomas



- (b)) Squamous cell carcinomas account for two third of all pancoast tumours
- c) Pancoast tumours are by definition T2 tumors
- d) Induction chemo-radiotherapy is the standard of care for any potentially resectable Pancoast tumor
- e) Surgery for pancoast tumour is associated with 50% mortality rate

answer: B

#### Explanation:

A: false (3-5%), C: T3 not T2, D and E: pancost tumor is one of NSCLC. We start treating. SCLC By chemotherapy induction since it was very responsive to chemo. In addition to that, in some advanced stages we can initiate treating by combination of chemo and radiotherapy. While NSCLC should by treated by resection (surgery) and sometimes adjuvant chemotherapy.

- 41. The following patient is best treated with coronary artery bypass grafting (CABG):
  - a) A 60-year-old man with class II angina, 75% proximal right coronary artery lesion, and normal ventricular function.
  - (b) A 60-year-old man with unstable angina, three-vessel disease, and an ejection fraction of 35%.

- c) A 60-year-old non-diabetic man with class III angina symptoms and focal discrete lesions in the midright coronary artery and mid-left circumflex artery.
- d) A 60-year-old man with diabetes, class IV angina, 75% mid left anterior descending and 75% proximal right coronary artery obstruction, and left ventricular ejection fraction of 60%.
- e) A 60 year old man, non-diabetic, with isolated 40% mid left main stem disease

answer: B

# 42. Regarding Pneumothorax all are true EXCEPT:

- a) Closed pneumothorax is relatively common and may not be Clinically significant
- b) In tension pneumothorax air can only escape via the bronchial tree
- c) In tension pneumothorax there may be tracheal deviation towards the contralateral lung
- d) There may be an increase of 40 mmHg in intrapleural pressure on the affected side
- (e)) Tension pneumothorax is usually diagnosed by CXR



answer: E

# 43. Which of the following has the highest relative risk of developing Venous Thromboembolism:

- a) Oral contraceptive use.
- b) Heterozygous carrier of FVL.
- (c) Antiphospholipid syndrome.



- d) Prothrombin gene mutation.
- e) Heterozygous protein C deficiency

Answer: C

# 44. All of the following are true regarding lymphedema EXCEPT:



- (a) Lymphedema praecox denotes primary lymphedema, while secondary lymphedema is also termed lymphedema tarda.
- b) Primary lymphedema has a marked female predominance.
- c) The most common world-wide cause of secondary lymphedema is filariasis.
- d) Lymphoscintigraphy is a reliable diagnostic tool for lymphedema.
- e) Methods of treatment include manual lymphatic drainage, compression devices, and surgery.

answer: A

# 45. Which of the following does not describe intermittent claudication?

- a) Is elicited by reproducible amount of exercise.
- b) Abates promptly with rest.
- (c) Is often worse at night.
- d) May be an indication for bypass surgery.
- e) May improve with time

answer: C

# 46. Tetralogy of Fallot consists of all of the following features EXCEPT:

- (a) ASD.
- b) VSD.
- c) Dextroposition of the aorta.
- d) Pulmonary stenosis.
- e) Right ventricular hypertrophy

answer: A

اللهم علمنا ما ينفعنا، وانفعنا بما علمتنا، وزدنا علما