18TH ICRO PG TEACHING PROGRAM

27TH & 28TH SEPTEMBER 2014

RCC, Trivandrum

QUIZ
Question No 1

Most accurate investigation for loco regional staging of oesophageal cancer is

a) CT Scan
b) OGD Scopy
c) EUS
d) MRI Scan
AJCC suggests minimum number of nodes to be harvested during oesophageal surgery for accurate staging as

a) 7  
b) 18  
c) 23  
d) 30
Question No 3

**Commonest cause of mortality in Ivor Lewis operation is**

a) Pulmonary Atelectasis  
b) Anastomotic leak  
c) Thoracic duct injury  
d) Subdiaphragmatic collection
Question No 4

Overall survival is increased by what percentage in MAGIC trial

a) 3 %
b) 10 %
c) 7 %
d) 13 %
Gebski meta-analysis has shown survival advantage in neoadjuvant chemotherapy to the tune of

a) 3 %  
b) 5 %  
c) 7 %  
d) 10 %
Question No 6

ToGA Trial tested

a) Chemotherapy
b) Radiation
c) Cetuximab
d) Transtuzumab
Question No 7

What is the incidence of supraclavicular LN in M/3 Ca Oesophagus

a) 2 %
b) 4 %
c) 6 %
d) 10 %
Question No 8

In intraluminal BT, doses are specified from

a) 0.5 cm from surface of applicator
b) 1 cm from the mid source / mid dwell position
c) 0.5 cm from the mid source / mid dwell position
d) 1 cm from surface of applicator
Patients with Barrett’s Oesophagus are at high risk for Oesophageal adenocarcinoma with annual rate of neoplastic transformation of

a) 5 %  
b) 3 %  
c) 0.5 %  
d) 2.5 %
Question No 10

The GTV to CTV margin → longitudinal and radial in CROSS trial for carcinoma esophagus

a) 3 to 5 cm and 2cm
b) 4 to 5 cm and 1 cm
c) 4 to 5 cm and 1 cm
d) 3 to 5 cm and 1 cm
Question No 11

For lymph nodes → GTV to CTV for carcinoma esophagus

a) 1 to 1.5 cm
b) 0.5 to 1 cm
c) 0.5 cm
d) 1 cm
All the following statements about postoperative radiotherapy is true EXCEPT

a) Margins of 5 cm above and below the presurgical gross tumour volume
b) 2-cm margin to cover the mediastinal lymph nodes medially and laterally
c) Superior margin extended at least 2 cm above the anastomotic site
d) Boost fields minimum 2 cm margins around the surgical bed
Treatment failure isolated outfield recurrence rate of lymph nodes without tumor progression and distant metastasis was

a) 10 %
b) 8 %
c) 15 %
d) 5 %
Prognostic factor for adenocarcinoma gastroesophageal junctions includes

a) Siewert’s type post-operative residual disease
b) Siewert’s type and TNM status
c) TNM status and post-operative residual disease
d) Siewert’s type, post-operative residual disease and TNM status
Question No 15

Siewert’s typing is helpful in the case of

a) Planning surgical management
b) Prognosis
c) Planning adjuvant treatment
d) Planning preoperative radiotherapy
Adenocarcinoma of which site is commonly associated with Barrett’s oesophagus

a) Siewert’s type 1
b) Siewert’s type 2
c) Siewert’s type 3
d) Siewert’s type 4
Which is the most accurate investigation for evaluating locoregional disease in adenocarcinoma gastroesophageal junction

a) Endoscopic ultrasound  
b) CT Scan  
c) PET-CT Scan  
d) Laproscopy
Gold standard for radical surgery for stomach cancer is

a) D1
b) D2
c) D3
d) D4
Question No 19

Main imaging modality for staging stomach cancer is

a) USS
b) EUS
c) CECT
d) PET scan
Number of lymphnodes – goal of examination by pathologist should include at least

a) 10 nodes
b) 12 nodes
c) 15 nodes
d) 18 nodes
Question No 21

**TNM staging of Stomach cancer - which one is correct**

a) N1- Metastasis in 1 regional lymph node  
b) N2- Metastasis in 2-6 regional lymph nodes  
c) N3- Metastasis in 7 or more regional lymph nodes  
d) N3a- Metastasis in 7-15 regional lymph nodes
Tumor invasion of Muscularis Propria in gastric cancers is Staged as

a) $T_{1a}$
b) $T_{1b}$
c) $T_{2}$
d) $T_{3}$
Study stating non-inferiority of EOX regime is

a) CALGB 80101
b) MAGIC
c) Dutch CRITICS
d) REAL - 2
Question No 24

No of courses of 5FU+Leucovorine in INT-0166 are

a) 3
b) 4
c) 5
d) 6
Adjuvant treatment for adenocarcinoma stomach is not recommended for

a) $p\ T_1N_1M_0$

b) $p\ T_2N_0M_0$

c) $p\ T_3N_2M_0$

d) $p\ T_3N_0M_0$
The nodes anterior to gastric body are called

a) para cardiac lymph nodes
b) gastric nodes
c) pre pyloric nodes
d) devoid of any nodal tissue
Lymph nodes posterior to greater curvature are

a) Lower esophageal nodes
b) Splenic hilar nodes
c) Superior pyloric nodes
d) Mediastinal nodes
Question No28

Which of the following lymph node group are NOT LIKELY to be present after a total gastrectomy

a) para cardiac nodes
b) Greater curvature nodes
c) lesser curvature nodes
d) all of the above
Ideal no of lymph nodes to be harvested in colorectal cancer

a) 7
b) 12
c) 8
d) 10
Lymph node metastasis at IMA root is

a) $N_1$

b) $M_1$

c) $N_2$

d) $T_4$
Correct statement is..

a) TME should be done for all the rectal cancers only
b) TME should be done for distal rectal cancers only
c) TME is recommended for mid & distal rectal cancers
d) None of the above
Question No 32

TME is associated with

a) Autonomic nerve disruption
b) Lower rate of local recurrence
c) Higher rate of rectal wall perforation
d) Higher rate of bleeding
Question No 33

**Chemotherapy increases survival in metastatic colorectal cancer**

a) < 6 months  
b) < 12 months  
c) < 18 months  
d) < 24 month
Question No 34

Which agent is not used in adjuvant setting of colorectal malignancies

a) Oxaliplatin
b) Bevacizumab
c) 5 FU
d) Leucovorine
Question No 35

Which of the following methods of DNA repair is characteristic of double stranded DSSB

a) EBR
b) MR
c) HR
d) All of the above
Question No 36

One of the following is an example of non receptor tyrosine kinase

a) EGFR
b) PDGFR
c) FGFR
d) JKR
Question No 37

Which of the following is an ATP mimic

a) Imatinib
b) HHT
c) Ara C
d) Hydroxyurea
Question No 38

Which of the following is an example of PARP inhibitor?

a) Rhomidipsin
b) Sorafinib
c) Olaparib
d) Ponatinib
Targeted agent approved in the adjuvant treatment of CRC

a) Cetuximab  
b) Bevacizumab  
c) Panitumumab  
d) None of the above
Question No 40

KRAS testing should be done before using

a) Bevacizumab
b) Paninumumab
c) Regorafenib
d) Aflibercept
Hypertension is a side effect for which of the following drug

a) Cetuximab  
b) Bevacizumab  
c) Panitumumab  
d) Regorafenib
Question No 42

Dose of panitumumab is

a) 6mg/kg q 2weeks
b) 6mg/kg q 3weeks
c) 8mg/kg q 3weeks
d) 6mg/kg q 2weeks
**Neoadjuvant chemoradiation in locally advanced rectal cancers**

a) Improves overall survival alone  
b) Improves local control alone  
c) Improves local control and overall survival  
d) Neither improves local control or survival
For low lying locally advanced local cancers investigation of choice for T staging

a) CT Scan Pelvis
b) MRI Pelvis
c) USG Pelvis
d) TRUS
Question No 45

For CRM +ve rectal cancers the radiotherapy plan would be

a) RT alone 5X5 Gy followed by surgery next week
b) RT alone 50 Gy/25 # followed by surgery after 6 weeks
c) Concurrent chemoradiation 50 Gy/25 # followed by surgery after 6 weeks
d) Chemotherapy (4#) followed by surgery after 6 weeks
Combining multidrug regime with CapOx to neo-adjuvant RT results in

a) Better loco-regional control
b) Better overall survival
c) Better tumor downstaging
d) Increased acute toxicity
Preoperative chemoradiation compared to post-operative chemoradiation has

a) Increased acute toxicities
b) Decreased acute toxicities
c) Decreased late toxicities
d) No difference in toxicities
External iliac lymph node is included in the target volume in all the situations except

a) Tumor extends to prostate and seminal vesicle
b) Mid rectal tumors
c) Tumour involves vagina
d) Tumour involves anal canal
Lateral limit of target volume in conventional technique is

a) 2 cm lateral to medial pelvic brim
b) 1.5 cms lateral to medial pelvic brim
c) Just lateral to medial pelvic brim
d) Medial to pelvic brim
Question No 50

RTOG CTV A includes all except

a) rectum and mesorectum
b) internal iliac node
c) presacral area
d) external iliac node
Commonly used conduit after oesophageal resection is**

a) Stomach  
b) Colon  
c) Jejunum  
d) Skin tubes
In Mc Keown Oesophagectomy the anastomosis is made**

a) Intrathoracic above the carina
b) Intrathoracic below the carina
c) Subdiaphragmatic
d) In the neck
Question No 1

**MAGIC Trial is used in which setting**

a) Preop chemoradiation in squamous
b) Preop chemoradiation in adeno
c) Preop chemo in squamous
d) Preop chemo in adeno
Japanese trial which compared adjuvant chemotherapy and preoperative chemotherapy***

a) JCOG 9204  
b) JCOG 9907  
c) JCOG 9314  
d) JCOG 9124
In the RTOG 85-01 trial the local failure at 2 year after CRT alone in Ca Oesophagus was**

a) 35 %
b) 47 %
   60 %
c) 25 %
Which of the following are not associated with an increased risk of oesophageal and GEJ Cancer**

a) Bloom’s Syndrome
b) Fanconi Anemia
c) Howel – Evan’s Syndrome
d) Non of the above
Siewert classifies gastroesophageal junction tumors into***

a) 4 types
b) 5 types
c) 2 types
d) 3 types
Station 7 of lymphnode stations for stomach cancer is**

a) Left gastric  
b) Left gastro-epiploic  
c) Coeliac  
d) Hepatic artery
Which one is not a part of combination of the drug $S_1$?

a) Tegafur
b) Gimeracil
c) Oteracil
d) Olaparib
Carcinoma stomach is one of the commonest tumors seen as per national cancer registry in which state*

a) Delhi
b) Barshi
c) Chennai
d) Kolkata
Lymph node groups included in target volume for post-op RT of subtotal gastrectomy includes all except**

a) Caeliac axis group of lymph nodes
b) Splenic hilar group
c) Left Renal Hilar
d) Peripyloric group
The information needed for volume delineation in gastric cancers **

a) Endoscopic ultrasound/radiologic imaging
b) Complete surgical notes and histopathology
c) All of the above
d) None of the above
Lymph node ratio refers to**

a) Proportion of lymph nodes in colorectal region out of total lymph nodes in the abdomen
b) Proportion of negative nodes compared to total no of lymph nodes in region
c) Proportion of positive nodes out of lymph nodes harvested
d) None of the above
Example of TKI are all the following except**

a) Imabtinib
b) Nilotinib
c) Dasatinib
d) HHT
Aflibercept is approved in which line of mCRC**

a) 1<sup>st</sup> line
b) 2<sup>nd</sup> line
c) 3<sup>rd</sup> line
d) Can be used in all three lines