

Self assessment questions

Questions

SBA 1

A 15-year-old girl presents with an incidental finding of a 7-cm complex cystic mass arising from her left ovary. Which one of the following combination of blood tumour markers is the most appropriate for investigation?

- Ca-125, bHCG
- α FP, CEA, Ca19-9
- bHCG, LDH, estradiol, inhibin
- Ca-125, LDH, bHCG, α FP
- Ca-125, bHCG, estradiol, inhibin

SBA 2

Which one of the following cell lines is the origin of mature cystic teratomas?

- Totipotent germ cells
- Mesoderm
- Ectoderm
- Endoderm
- Pluripotent stem cell

SBA 3

Which one of the following genetic mutations increases the lifetime likelihood of developing uterine leiomyomas (fibroids)?

- Li Fraumeni syndrome
- BRCA 2
- HLRCC
- Peutz-Jeghers syndrome
- Lynch syndrome

SBA 4

Which of the following is the most common mode of inheritance of genetic cancer syndromes?

- Autosomal dominant
- Autosomal recessive
- X-linked dominant
- DNA methylation
- X-linked recessive

SBA 5

Which one of the following interventions does NOT form part of standard care bundles to promote enhanced recovery from surgical interventions?

- Early postoperative feeding
- Early preparation of discharge letters
- Optimal preoperative nutrition
- Use of minimal access surgery
- Avoidance of surgical drains

SBA 6

Which one of the following goals is NOT considered part of the optimal preparation of patients prior to major abdominal surgery?

- Psychological preparation
- Teaching incentive spirometry techniques
- Inspiratory muscle training
- Thromboprophylaxis
- Smoking cessation advice

SBA 7

Which of the following is a risk associated with multiple blood transfusions in women with sickle cell disease during pregnancy?

- Dehydration
- Placental failure
- Iron overload
- Gestational diabetes
- Intrauterine growth restriction

SBA 8

A 38-year-old woman with known sickle cell disease presents at 27 weeks in her first pregnancy with new onset of fever, audible lung crackles and respiratory symptoms, accompanied by a new infiltrate on chest X-ray. Which one of the following options is not likely to be an appropriate treatment?

- High flow oxygen
- Intravenous antibiotics
- Blood transfusion
- Urgent delivery by Caesarean section
- Admission to HDU

SBA 9

Which one of the following drugs should be avoided in pregnant women with known sickle cell disease?

- Enoxaparin
- Erythromycin
- Fentanyl
- Pethidine
- Prostaglandins

SBA 10

Which one of the following contraceptive options should be used with caution (UKMEC 2) for women with sickle cell disease?

- Female sterilization
- Copper IUD
- Mirena IUS
- Progesterone-only pill
- Depo-provera injections

Catherine Aiken PhD MRCOG is a Clinical Lecturer in Obstetrics and Gynaecology at Addenbrooke's Hospital, Cambridge, UK.
Conflicts of interest: none declared.

Answers**SBA 1**

D

Ca-125, LDH, bHCG, α FP are required for investigation of ovarian cysts in premenopausal women.

SBA 2

A

Dermoid cysts or mature cystic teratomas arise from totipotent germ cells, which is why they can differentiate a wide variety of tissue lineages including teeth, hair, bone, and adipose tissue.

SBA 3

C

HLRCC stands for hereditary leiomyomatosis and renal cell cancer. It predisposes to cutaneous leiomyomas, uterine leiomyomas (fibroids), and renal cancer.

SBA 4

A

The majority of cancer predisposition syndromes are inherited in an autosomal dominant manner, so children of an affected individual have a one in two chance of inheriting the same condition. However, reduced penetrance means that some people who inherit a cancer predisposition syndrome will not develop cancer during their lifetime.

SBA 5

B

While early preparation of discharge paperwork may facilitate the logistics of hospital discharge, enhanced recovery programmes are focused on improving the physiological recovery of the patient.

SBA 6

D

Assessing VTE risk in the perioperative period is important, but this should be undertaken at regular defined intervals throughout the perioperative course.

SBA 7

C

Multiple transfusions during pregnancy carry risks of iron overload, in addition to alloimmunisation, transfusion reaction, transmission of viruses, lung injury, overload and might even provoke acute sickling due to hyperhaemolysis syndrome or venous thromboembolism.

SBA 8

D

The clinical scenario suggests acute chest syndrome (ACS), which is a medical emergency. Medical optimization of maternal condition should be prioritized.

SBA 9

D

Pethidine should be avoided in women with SCD because it has a longer lasting depressive effect and is metabolised to norpethidine, a renally excreted cerebral irritant causing seizures.

SBA 10

B

Copper IUDs are considered UKMEC 2 (benefits generally outweigh risks), because of concerns with regard to increased rates of pelvic infection and chance of menorrhagia worsening anaemia.