KEY QUESTIONS IN

# OBSTETRICS AND GYNAECOLOGY

A PICKERSGILL · A MESKHI · S PAUL

Second Edition

# OBSTETRICS AND GYNAECOLOGY

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# Also of interest:

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# KEY QUESTIONS IN

# OBSTETRICS AND GYNAECOLOGY

# Second Edition

# A. PICKERSGILL MRCOG

Lecturer in Obstetrics and Gynaecology, University of Manchester, Manchester, UK

# A. MESKHI MRCOG

Senior SHO in Obstetrics and Gynaecology, Huddersfield Royal Infirmary, Huddersfield, UK

# S. PAUL MRCOG, MD

Specialist Registrar in Obstetrics and Gynaecology, Arrowe Park Hospital, Wirral, UK



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# ABBREVIATIONS

AFP alpha-fetoprotein

APTT activated partial thromboplastin time adult respiratory distress syndrome ARDS CIN cervical intraepithelial neoplasia CPD cephalo-pelvic disproportion computerized tomography CT CVS chorionic villus sampling D&C dilatation and curettage DVT deep vein thrombosis ELA endometrial laser ablation ECV external cephalic version FDP fibrin degradation products FSH follicle-stimulating hormone FTA fluorescent treponemal antibody GnRH gonadotrophin-releasing hormone

GSI genuine stress incontinence

GTN glyceryl trinitrate GTT glucose tolerance test

G-6-PD

HCG human chorionic gonadotrophin

HDL high density lipoprotein

HFEA Human Fertilisation and Embryology Authority

glucose-6-phosphate dehydrogenase

HIV human immunodeficiency virus

HPV human papilloma virus
HRT hormone replacement therapy
INR international normalized ratio
IUCD intrauterine contraceptive device

IUD intrauterine death

IUGR intrauterine growth restriction

IV intravenous

IVP intravenous pyelogram LDL low density lipoprotein LH luteinizing hormone

LLETZ large loop excision of the transformation zone LNG-IUD levonorgestrel-releasing intrauterine device

LUF luteinized unruptured follicle MCH mean cell haemoglobin

MCHC mean cell haemoglobin concentration

MCV mean cell volume

MRI magnetic resonance imaging

mRNA messenger RNA

MSAFP maternal serum alpha-fetoprotein MSSU midstream specimen of urine

vi

OHSS ovarian hyperstimulation syndrome

PCOS polycystic ovarian syndrome PID pelvic inflammatory disease PIH pregnancy-induced hypertension

PMR perinatal mortality rate POP progesterone only pill PT prothrombin time

RDS respiratory distress syndrome

RIF right iliae fossa

SCBU special care baby unit

SHBG sex hormone-binding globulin

SL sublingual

SLE systemic lupus crythematosus

T4 thyroxine

T3 triiodothyronine

TCRE transcervical resection of endometrium TORCH toxoplasma, rubella, cytomegalovirus, herpes

UTI urinary tract infection

VDRL venereal disease reference laboratory VIN vulvar intraepithelial neoplasia

# FOREWORD

It gives me great pleasure to write a foreword to the second edition of Key Questions in Obstetrics and Gynaecology. It is always much more difficult to write and develop multiple choice questions than it is to do a factual text. The authors should be congratulated on making such an excellent addition to the series and I am sure it will help and encourage many obstetricians and gynaecologists in training to further their careers.

RJ Slade FRCS, MRCOG Consultant Gynaecological Surgeon

# PREFACE

### THE EXAMINATION

Despite the recent changes in the Part 2 MRCOG, multiple choice questions (MCO) remain as an integral component of the written examination and there are no plans to remove them at present.

The examination is divided into an initial written paper (MCQ and short essays) and for those successful, an OSCE. Fixed pass marks apply for both parts of the examination. A mark of 175/300 must be achieved in the written paper, made up of 100/200 in the essay papers and 75/100 in the MCQ (as there is no negative marking this is equivalent to 50%). It is not necessary to achieve 50% in both the essays and the MCQ, merely an overall mark. Candidates proceeding to the oral component of the examination must then achieve a pass mark of 60% to pass the whole of the examination. The MCO paper consists of 300 questions, to be completed within 2 hours. The questions are in a Question Book and are in the form of a statement (stem) followed by the questions. There may be only one statement and question. For example:

E Induction of labour is the artificial initiation of cervical dilation and effacement leading to progressive uterine contractions.

Or one statement followed by multiple answers. For example:

# With regard to induction of labour

- 2, Vaginal prostaglandins are recommended initially for all women
- 3. PGF2 is the prostaglandin of choice and should be used at 6-hourly intervals
- 4. Syntocinon should be started at the time of amniotomy
- The total dosage should not exceed 4 mg in a multiparous patient
- 6. With prelabour rupture of the membranes, prostaglandins improve the outcome
- 7. Should not be performed before 41 weeks gestation

An Answer Sheet (see over) is provided separately. On the Answer Sheet each question (1-300) is represented by it's respective number and is followed by 'True' or 'False'. When you have decided on your answer you need to boldly black out the 'lozenge' that represents your answer with the pencil provided. The Answer Sheet is optically read by a document-reading machine (scanner) so care is needed when completing it.

Some candidates prefer to mark True or False in the Question Book as they answer the questions. Care must then be taken when transferring the answers across to the Answer Sheet as mistakes can be made in transcription. We would advise lightly blocking in your answers on the answer sheet as you go along, and then boldly marking over them at the end. Lightly marking the answers allows them to be easily erased (so no smudges can spoil your score) and prevents transcription errors.

The examination is no longer negatively marked. For each correct answer you will score one mark and for each wrong answer (or no response) no marks. Therefore, it is

important to answer all of the questions even if you are unsure of the answer. It has been found that the first answer a participant chooses to an MCO is often the correct one, so if uncertain do not alter your answers.

# THE BOOK

The questions in this second edition of the book are completely new and have been written in a similar format to the new style of examination questions. They are set out as six papers with obstetric and gynaecological questions mixed. We have tried to cover all the main topics and apologize for any omissions. Answers are provided at the back of the book (true answers only - in bold print) with brief explanations for the false answers. The reader is referred to the appropriate topics in Key Topics in Obstetrics and Gynaecology for further information. If that information is not available or supplementary reading is advised, references have been added.

We have tried to ensure that the questions are accurate and unambiguous. Sometimes the more knowledge you obtain the more difficult it becomes to answer a question. Read the questions carefully but do not look for the hidden meanings - there are none. We take responsibility for all of the views expressed. By use of extensive references we hope to show you why we have decided on each answer. You may disagree with some of our thoughts, if so please write (or email) the publishers and let us know. The idea of these questions are to familiarize yourselves with the examination format, to stimulate thought and encourage you to read in greater depth those areas where you are uncertain.

We would like to thank Charlotte, Tini and Gitasri for putting up with us over the last 6 months. We would like to thank Jonathan Ray at BIOS for his encouragement and Mr Roger Jackson, the Examination Secretary at the Royal College of Obstetricians and Gynaecologists for allowing us to reproduce the answer sheet.

Finally, for those amongst you of nervous disposition, the only true answer for the specimen statements on induction of labour is number 4, the others are false. (Reference: Induction of labour, RCOG Guideline 16, July 1998). Good luck.

Andrew Pickersgill Apollo Meskhi Sudipta Paul



# Royal College of Obstetricians and Gynaecologists Part 2 Membership Examination

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# PAPER ONE

Allow 2 hours for completion of this paper

# Regarding early pregnancy loss

- A woman presents for the second time with vaginal bleeding and lower abdominal pain, her cervix is closed. A scan I week previously noted an intrauterine gestation sac. On rescanning she is now found to have an empty uterus. She can be reassurred that she has suffered a complete miscarriage and needs no follow up
- A woman presenting in early pregnancy with heavy vaginal bleeding, an open cervical os and an echogenic area in the uterine cavity should be told that she is having an inevitable abortion and needs an immediate uterine evacuation
- An incomplete miscarriage differs from a complete miscarriage as judged by a closed cervical os in presence of heavy vaginal bleeding
- A Rhesus negative woman presents with a complete miscarriage, the injection of anti-D is unnecessary
- In a woman with a threatened miscarriage, if a scan shows a fetal heart the risk of a miscarriage is 30%

# Raised maternal serum alpha-fetoprotein (MSAFP) concentrations are associated with the following fetal abnormalities

- 6. Polycystic kidney
- 7. Closed spina bifida
- 8. Gastroschisis
- 9. Congenital nephrosis (Finnish type)
- 10. Epidermolysis bullosa
- 11. Tay-Sach's disease
- 12. Teratoma
- 13. Duodenal atresia

# Impotence may be caused by

- 14. Sulphasalazine therapy
- 15. Chronic renal failure

# Recognized causes of non-immune hydrops fetalis include

- 16. Renal agenesis
- 17. Duodenal atresia
- 18. Cystic adenomatous malformation
- 19. Cytomegalovirus infection

In a paper describing the use of a new drug for the treatment of hypertension in pregnancy you read: 'The mean fall in diastolic blood pressure in the treated group (n = 30) was 10 mmHg +/-3 (SD) and in the control group (n = 29) given placebo the mean fall was 4 mmHg +/-2.6 (SD). Using the t-test, p>0.001.' The following statements are correct:

- Assuming a normal distribution, approximately 68% of the treated group would have shown a fall in the diastolic pressure of between 7 and 13 mmHg
- The difference observed in the fall of blood pressure between the two groups did not reach a level of statistical significance
- If the trial was properly conducted, the doctors involved should have known which patients were receiving the active drug and which the placebo
- The most appropriate way to allocate patients to the drug and to the placebo group would have been to give the drug or placebo to alternate patients
- 24. It would be possible to calculate the value of χ (Chi-squared) on the data given

# With regard to hysterectomy

- One in ten women in the UK will have a hysterectomy before becoming menopausal
- 26. Vaginal hysterectomy is performed four times more rarely than abdominal
- 27. Overall mortality is 4.1-14.6/10 000 hysterectomies
- 28. Overall morbidity is 500-1000/10 000 hysterectomies
- Vault prolapse is a common complication of vaginal hysterectomy and can be prevented by suturing the utero-sacral ligaments together
- 30. 30-40% of ovaries can be removed vaginally if desired
- Vaginal hysterectomy is associated with an overall complication rate 40–50% less than for abdominal hysterectomy

# The following drugs administered in pregnancy may have adverse effects on the newborn

- 32. Betablockers
- 33. Barbiturates
- 34. Magnesium sulphate
- 35. Naloxone hydrochloride

# 2 PAPER ONE

# In the UK the following incidences are correct

36. Toxoplasmosis	2/1000				
37. Down's syndrome	1.3/1000				
38. Rhesus sensitization	15/1000				

# The following are not advantages of magnetic resonance imaging (MRI) in investigating cervical tumours

- 39. It is safe
  - 40. It can be used in pregnancy
- 41. MRI demonstrates depth of stromal invasion (in up to 90% of cases)
- 42. It may show total tumour volume
- 43. MRI is superior to clinical staging and CT images

# Ovarian cysts are relative contraindications to the use of

- 44. The combined pill
- 45. Depo-provera
- 46. Norplant

# Prostaglandins

- 47. Are polypeptides
- 48. Hypertonus cannot be reversed by beta-mimetics
- 49. PGF<sub>2n</sub> is 20 times more potent than PGE<sub>2</sub> in causing uterine contractions
- 50. PGE2 is five times more potent than PGF20 in ripening the cervix
- 51. PGF<sub>2a</sub> is commonly used in induction of labour
- 52. PGE2 is the drug of choice in refractory post-partum haemorrhage at Caesarean section
- 53. Are diuretics

# Regarding the progesterone only pill (POP)

- 54. 60% of women using it will ovulate
- 55. Ideally it should be taken just before bedtime
- 56. The Pearl Index is higher in the older reproductive age group
- 57. It is associated with a higher risk of an ectopic pregnancy than for a non-user
- 58. It is at least as effective as the combined contraceptive pill
- 59. Amenorrhoea/oligomenorrhoea occurs in 10-20%
- 60. It is contraindicated in lactating mothers with benign breast disease
- 61. It is not contraindicated in latent diabetes mellitus
- It contains norethisterone and is taken from day 5 of the menstrual cycle for 21 days followed by a 7-day break
- It should always be taken within +/-3 hours of the usual taking time to achieve reliable contraceptive efficacy
- 64. Liver enzyme inducers reduce its efficacy

# The following conditions may deteriorate during pregnancy

- 65. Sarcoidosis
- 66. Systemic lupus erythematosus (SLE)
- 67. Coeliac disease
- 68. von Willebrand's disease
- 69. Crohn's disease

# Psychiatric disorders of childbirth

- Postnatal mental disorder is less likely to be a serious illness than one not associated with childbirth
- Being single, ambivalent about the pregnancy and undergoing antenatal hospital admissions are all risk factors for postnatal depression
- 72. For a well woman with a family history of a serious affective disorder, the risk of postnatal depression is higher than that for a woman with a history of postnatal depression
- 73. Among women with puerperal affective disorder, two-thirds have the manic form
- 74. Treatment with steroids is highly effective
- 75. Maternity blues affect up to 30% of all newly confined women

# In a 26-year-old woman the serum follicle-stimulating hormone (FSH) concentration may be raised in association with

- 76. Acromegaly
- 77. Polycystic ovarian disease
- 78. Hydatidiform mole
- 79. Ovarian agenesis
- 80. Sheehan's syndrome
- 81. GnRH administration

# The following diseases are inherited as autosomal recessive traits:

- 82. Congenital spherocytosis
- 83. Myotonic dystrophy
- 84. Nephrogenic diabetes insipidus
- 85. Congenital heart disease
- 86. Alkaptonuria

# Following a hip fracture, bone densitometry in a 60-year-old woman who is 10 years postmenopausal reveals osteoporosis of the spine and both hips-

- 87. Her bone density will not be improved by prescribing her oestrogen containing HRT
- 88. If given oestrogens, these will act uniformly at both sites to improve her osteoporosis
- 89. Sodium etidronate will reduce the risk of further fractures

# Management of abnormal smears

- 90. A third of woman with a single smear showing mild dyskaryosis have CIN 3
- 91. The risk of invasive malignancy remains equal to that of normal population in women who have undergone excisional treatment for CIN 3
- 92. Following a hysterectomy for the surgical treatment of CIN 3 annual smears are required for the next 5 years if the CIN was completely removed

# Lichen sclerosus

- 93. Manifests itself with pruritus
- Histological features include atrophic thinning of the epidermis and loss of rete ridges
- 95. Is a premalignant condition characterized by cellular atypia
- 96. Is a condition specific to vulval skin
- 97. Surgery is the main treatment modality in modern management
- Progression to invasive carcinoma of the vulva is more likely to occur if lichen sclerosus is associated with squamous cell hyperplasia

# Endometrial cancer

- 99. Constitutes 25-30% of all gynaecological malignancies
- 100. The commonest type is adenosqamous
- 101. Pelvic nodes are involved in 5% of poorly differentiated cases
- 102. Adenosquamous carcinoma has a better prognosis than adenocarcinoma
- 103. Has a greater tendency to metastasize if it involves the lower uterus rather than the fundus

# Regarding syphilis

- 104. This is the commonest cause of painless genital ulcers
- 105. Syphilis can be transferred to the fetus transplacentally in early pregnancy
- 106. VDRL detects antibodies to treponemal cardiolipin antigen
- 107. VDRL is a highly specific test for the diagnosis of syphilis
- 108. A positive VDRL could be a manifestation of SLE
- 109. Fluorescent treponemal antibody (FTA) test has specificity similar to VDRL
- 110. Dark ground microscopy for the diagnosis of syphilis has been abandoned
- 111. Neonatal syphilis syndrome occurs due to transmission of the infection to the fetus after 5 months' gestation
- 112. The patient should be regarded as being infectious for up to 2 years
- 113. Primary syphilis is associated with a generalized rash
- 114. Syphilis may cause Horner's syndrome

# Trigger events that could initiate a risk management protocol include

- 115. Birth of a baby with a structural abnormality
- 116. Admission to SCBU
- 117. Failed trial of instrumental delivery
- 118. Failed termination of pregnancy
- Peritonitis after laparoscopy
- 120. Failed instrumental delivery

# 6 PAPER ONE

# Termination of pregnancy

- 121. Is associated with an increased risk of recurrent miscarriage
- 122. Is associated with an increased risk of pelvic pain

# Sarcoma botryoides

- 123. Is a tumour of teenage years
- 124. Occurs in association with in utero exposure to synthetic oestrogens
- 125. The treatment of choice is combination chemotherapy

# Premenstrual syndrome

- 126. Is a rare condition
- 127. Is diagnosed by retrospective symptom charts
- 128. Hormonal imbalance is a proven underlying cause

# Syntocinon augmentation of labour

- 129. May cause or aggravate neonatal jaundice
- 130. Is more often required in multiparous women
- 131. May have to be reduced as labour progresses

# Factors predisposing to genuine stress incontinence (GSI) include

- 132. Multiple Caesarean deliveries
- 133. Chronic constipation
- 134. Chronic bronchitis
- 135. Oestrogen deficiency
- 136. Gross obesity

# In treating preterm labour with ritodrine, certain caution should be taken with

- 137. Adrenergie stimulants
- 138. Tricyclic antidepressants
- 139. Thiazide diuretics
- 140. Twins
- 141. Aortic stenosis
- 142. Transverse lie

# Endometrial cystic glandular hyperplasia

- 143. Occurs with ovulatory failure
- 144. May predispose to endometrial carcinoma
- 145. Is associated with low oestrogen levels
- 146. Is transmitted by a virus in cheese
- 147. Generally occurs post-menopausally

# Thyrotoxicosis in pregnancy

- 148. Subtotal thyroidectomy is 'safe' during the first trimester
- 149. Propyl-thiouracil should be stopped 6 weeks prior to delivery
- 150. Over-treatment with carbimazole may cause fetal goitre
- 151. Measurement of T4 is helpful in monitoring the disease process
- 152. The disease deteriorates in pregnancy
- 153. Mild disease may not be distinguishable from normal changes of pregnancy in mid-trimester
- 154. An anti-thyroid drug and thyroxine is the optimum treatment
- 155. Propranolol should be added from 36 weeks onwards

# Group B streptococcal infections

- 156. Is the commonest cause of non-iatrogenic bacterial sepsis
- 157, 20-25% of women are carriers
- 158. Mortality rates are 20% in affected neonates
- 159. Infections can be eliminated by screening all women at 28 weeks
- Risk factors include preterm labour, ruptured membranes of greater than 18 hours and intra-partum fever.

# There is a recognized association between gynaecomastia and

- 161. Carcinoma of the stomach
- 162. Normal puberty
- 163. Hyperprolactinaemia
- 164. Carcinoid tumour
- 165. Cirrhosis of the liver
- 166. Klinefelter's syndrome
- 167. 5-alpha reductase deficiency
- 168. Spironolactone
- 169. Phaeochromocytoma

# Asymptomatic bacteriuria

- 170. Is found in 2% of pregnant women
- 171. Is associated with an increase in perinatal mortality
- 172. Predisposes to acute pyclonephritis
- 173. Is defined as a bacterial count of greater than 10 000 organisms/ml
- 174. Should be checked for at each antenatal visit
- 175. Predisposes to glomerulonephritis
- 176. Predisposes to hypertension
- 177. Requires an IVP after pregnancy
- 178. Causes anaemia
- 179. Causes neonatal death
- 180. Causes preterm labour

# Eclampsia

- 181. Less than 10% of cases occur during the post-partum period
- 182. Has a poorer prognosis if it occurs ante-partum than during the intra-partum period
- 183. Hydralazine treatment is contraindicated with chlormethiazole
- 184. Cerebral haemorrhage is the commonest cause of death
- 185. Diuresis is a prodromal symptom prior to a fit
- 186. Peripheral oedema is common
- 187. The circulating blood volume is increased
- 188. Immediate delivery under general anaesthesia is the management of choice
- 189. Oxprenoloi 160 mg per day would be the best antihypertensive therapy
- 190. Delivery is contraindicated before 28 weeks gestation
- 191. Renal failure is the commonest cause of death

# GnRH agonists are used effectively in the treatment of

- 192. Leiomyosarcomas
- 193. Premenstrual tension
- 194. Adenomyosis
- 195. Menstrual migraines
- 196. Hidradenitis suppurativa
- 197. Precocious puberty

# Maternal cardiovascular system (CVS) in pregnancy

- 198. The majority of heart murmurs detected for the first time during pregnancy are due to functional mitral regurgitation
- 199. Anticoagulants administered to patients with heart valve prostheses should be withdrawn at 36 weeks gestation
- 200. In patients with uncorrected chronic rheumatic valvular heart disease, crystalline penicillin alone provides adequate prophylaxis at the time of delivery
- 201. Supraventricular arrhythmias occur with greater frequency than in a non-pregnant woman
- 202. Frusemide is contraindicated for the treatment of heart failure

# The following are true when comparing modern obstetric practices regarding instrumental deliveries

- 203. Forceps can be used if the cervix is not fully dilated, a ventouse cannot
- 204. Forceps are associated with a twofold increase in trauma to the birth canal, but a twofold decrease in cephalohaematomas when compared to a ventouse
- 205. Forceps double the risk of anal sphincter damage and bowel symptoms compared to ventouse

# Vaginal pH

- 206. During reproductive life it is lowest during menstruation
- 207. Rises post-menopausally
- 208. Declines from birth through the first years of life
- 209. Low vaginal pH is caused by cervical secretions
- 210. High pH predisposes to vaginal infections
- 211. Atrophic vaginitis is associated with a high pH
- 212. Oestrogen replacement therapy increases vaginal pH

# Predisposing factors to face presentation include

- 213. Iniencephaly
- 214. Multiple pregnancy
- 215. Placenta praevia
- 216. Increasing maternal age
- 217. Multiparity
- 218. Prematurity
- 219. Polyhydramnios
- 220. Bicornuate uterus

# The following are not associated with hirsutism

- 221. Anorexia nervosa
- 222. Hyperthecosis of the ovary
- 223. Testicular feminization
- 224. Acromegaly
- 225. Juvenile hypothyroidism
- 226. Hilar cell tumour

# Ovarian tumours may be associated with

- 227. Peutz-Jegher syndrome
- 228. Gorlin's syndrome
- 229. Gonadal dysgenesis
- 230. Kaliman's syndrome

# In massive obstetric haemorrhage

- 231. Platelets should be given early
- 232. Fresh frozen plasma should be given early
- 233. Colloids are preferable to crystalloids
- 234. 10% calcium chloride should be given routinely

# Progestogens, when given with oestrogens to post-menopausal women

- 235. Decrease LDL cholesterol
- 236. Cause endometrial hyperplasia
- 237. Protect the patient from developing breast cancer
- 238. May cause depression
- 239. Act as insulin antagonists
- 240. Protect against bone loss

# Deep venous thrombosis (DVT) and pregnancy

- 241. 80% of DVTs occur in the right leg
- 242. Clinical examination misses 50%
- Treatment should be commenced on clinical grounds if the confirmatory tests are not immediately available
- 244. The risk of pulmonary embolism in patients with DVT is 2-5%
- 245. Occurs primary to pulmonary embolism

# Recognized features of Turner's syndrome include

- 246. Recurrent miscarriage
- 247. Elevated serum gonadotrophin levels
- 248. Renal abnormalities
- 249. Coarctation of the aorta
- 250. Red-green colour blindness
- 251. Chromatin positive buccal cells
- 252. Anosmia
- 253. Bone age appropriate for age

# The menstrual cycle

- 254. New endometrial growth begins during menstruation
- 255. In irregular cycles the luteal phase is always constant (14 days) whereas the follicular phase alters
- 256. Ovulation coincides with the LH peak
- 257. A normal day 21 progesterone is a direct indicator of ovulation
- 258. Menstruation occurs following oestrogen withdrawal
- 259. The average size of a follicle at the time of ovulation is 23 mm
- GnRH pulses increase in frequency and amplitude throughout the follicular phase
- 261. Thecal cells of the ovarian stroma exclusively secrete androstenedione

# Intrauterine contraceptive devices (IUCD)

- All types are contraindications to MRI scan
- 263. Increase the risk of preterm delivery
- 264. Induces a foreign body reaction in the endometrium which interferes with blastocyst implantation
- 265. If inserted into the uterus after the age of 40 can be left in situ indefinitely
- 266. Are recommended for renal transplant receipients
- 267. The risk of ascending infection into the uterine cavity is the highest during the first 2-3 weeks after insertion
- 268. Contraceptive efficacy of copper devices is proportional to the weight of the copper loaded on the device
- 269. Protects from ectopic pregnancies as effectively as from intrauterine pregnancies
- 270. Most modern IUCDS are effective for 5 years after insertion
- 271. The commonest reasons for removal are bleeding and pain

# In rupture of the uterus, the following may occur

- 272. Hypotension
- 273. Increased uterine contractions
  - 274. Haematuria
  - 275. Vaginal bleeding
  - 276. Fetal distress

# Causes of pruritus ani include

- 277. Anal fissure
- 278. Diverticulitis coli
- 279. Rectal prolapse
- 280. Ascaris lumbricoides infestation
- 281. Perianal condylomata

# SLE in pregnancy

- 282. There is a high risk of puerperal exacerbation
- 283. Increases the risk of spontaneous miscarriage
- 284. Is associated with symptoms similar to pre-eclampsia
- 285. Should never be treated with azathioprine
- 286. The presence of lupus anticoagulant decreases the risk of thrombosis

# The following conditions can be detected by ultrasound scanning of the fetus

- 287. Duodenal atresia
- 288. Syndactyly
- 289. Hydrops fetalis
- 290. Fetal polycystic kidneys
- 291. Congenital heart block

# Regarding puberty

- 292. Puberty is associated with nocturnal pulses of LH occurring during REM sleep
- 293. Peak height velocity appears after menarche
- 294. Puberty occurs at the average age of 11 in the UK

# Regarding dural tap

- 295. The incidence is 1-2%
- 296. The incidence is operator-dependant
- 297. It has neurological implications
- 298. Post-dural puncture headaches commonly occur immediately with the puncture
- 299. It may be followed by headache in 70% of cases
- 300. A blood patch takes effect within 2-3 days

# ANSWERS TO PAPER ONE

The numbers of the correct answers are given

# Regarding early pregnancy loss

(Abortion spontaneous/recurrent)

With the first two scenarios you cannot rule out an ectopic pregnancy. Unless a woman is haemodynamically compromised inevitable abortions can be managed conservatively. The cervical os is open with an incomplete miscarriage. The type of miscarriage is not important, all Rhesus-negative women who have suffered the loss of a pregnancy require anti-D. The risk of fetal loss is less than 5% after visualization of a fetal heartbeat.

# Raised MSAFP are associated with the following fetal abnormalities

6, 8, 9, 10, 11, 12, 13 (Prenatal diagnosis)

MSAFP is raised in open spina bifida and other neural tube defects (anencephaly). Other associations include advanced gestational age (up to 32 weeks), fetal exomphalos, aplasia cutis, obstructive uropathies, congenital cystic adenomatoid malformations, amniotic band disruption, placental and umbilical cord tumours, maternal liver disease, certain chromosomal disorders, preterm labour and IUGR. MSAFP is not raised if the fetus is affected by cystic fibrosis (but can be if the mother is), Down's syndrome, Duchenne muscular dystrophy, isolated fetal hydrocephaly, congenital adrenal hyperplasia, Potter's syndrome nor in women taking the oral contraceptive pill.

# References

Neilson JP. Antenatal diagnosis of fetal abnormality. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn, Oxford: Blackwell Science, 1995; 121–129.

Williamson RA. Abnormalities of alpha-fetoprotein and other biochemical tests. In: James DK, Steer PJ, Weiner CP, Gonik B, eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994; 643-659.

# Impotence may be caused by

15

Sulphasalazine therapy may cause reversible oligozoospermia.

# Recognized causes of non-immune hydrops fetalis include

17, 18, 19 (Hydrops fetalis)

Renal agenesis is associated with oligohydramnios. Non-immune hydrops is rare but accounts for 3% of overall perinatal mortality. It is caused by fetal anaemia (e.g. alpha thalassaemia, G-6-PD deficiency), cardiac failure (e.g. fetal tachyarrythmia, congenital heart defects, myocarditis), reduced osmotic pressure (hypoproteinaemia) and space-occupying lesions that obstruct venous return (cystic adenomatous malformation, diaphragmatic hernia). Infective agents may lead to haemolysis and subsequent anaemia (e.g. parvovirus, leptospira). Impaired lymphatic drainage has also been implicated (e.g. cystic hygroma, trisomy 18/21).

# Reference

Johnson P, Allan LD and Maxwell DJ. Non-immune hydrops fetalis. In: Studd J, ed. Progress in Obstetrics and Gynaecology, Volume 10. Edinburgh: Churchill Livingstone, 1993; 33–50.

# Statistical analysis of a new drug for the treatment of hypertension in pregnancy 20, 24

The difference observed in blood pressure fall was statistically significant (p > 0.001). In a properly conducted trial (double blind), neither the doctors nor the patients should have known which patients were receiving the active drug and which the placebo. The most appropriate way to allocate patients is to randomize (not to allocate alternately).

# Reference

Swinscow TDV, Campbell MJ. Statistics at Square One, 8th edn. London: BMJ Publishing Group, 1996; 11–30, 52–85.

# With regard to hysterectomy

26, 27, 31 (Abdominal versus vaginal hysterectomy)

One in five women in the UK will have a hysterectomy before becoming menopausal. Overall morbidity is 25-50% (2500-5000/10 000 hysterectomies). Vault prolapse is a relatively uncommon complication of vaginal hysterectomy occurring in 2% which can be prevented by suturing the vault to the uterosacral and cardinal ligaments. Opposing the utero-sacral ligaments reduces the risk of enterocoele formation, 95% of ovaries can be removed vaginally by skilled surgeons.

# The following drugs administered in pregnancy may have adverse effects on the newborn 32, 33, 34, 35

Beta blockers may cause neonatal bradycardias and hypoglycaemia, Barbiturates may precipitate withdrawal effects (not normally immediately). Magnesium sulphate like diazepam, diamorphine and pethidine may cause respiratory depression. Naloxone hydrochloride may precipitate withdrawal in babies born to opiate addicts.

# Reference

British National Formulary, 35; March 1998.

# In the UK the following incidences are correct 36, 37, 38

# The following are not advantages of MRI in investigating cervical tumours

(Radiology)

All false; they are all advantages.

# Reference

Carrington BM, Johnson RJ. The role of computed tomography in the investigation of ovarian and cervical cancer. RCOG PACE review 96/04.

# Ovarian cysts are relative contraindications to the use of

45, 46

The combined pill reduces the incidence of ovarian cysts. Although progesteronebased contraceptives inhibit ovulation they are associated with the development of functional cysts.

# Prostaglandins:

50 (Induction of labour, Post-partum haemorrhage)

Prostaglandins are a family of polyunsaturated 20-carbon fatty acids containing a cyclopentane ring and two aliphatic side chains. PGE<sub>2</sub> is five to ten times more potent than PGF<sub>2n</sub>. PGE<sub>2</sub> is used in induction of labour, PGF<sub>2n</sub> (carboprost tromethamine 250 µg) is the drug of choice in refractory post-partum haemorrhage. Prostaglandins may precipitate pulmonary ocdema.

# References

Prasad RNV, Adaikan PG. Prostaglandins in obstetrics and gynaecology. In: Ratnam SS, Rao KB and Arufkumaran S, eds. Obstetrics and Gynaecology for Postgraduates, Volume I. Hyderabad (India): Orient Longman, 1992; 151–173.

Keirse MJNC. Therapeutic uses of prostaglandins. In: Elder MG, ed. Ballière's Clinical Obstetrics and Gynaecology International Practice and Research – Prostaglandins, Volume 6. No 4. London: Baillière Tindall, 1992; 787–808.

# Regarding the progesterone only pill (POP)

59, 61, 63, 64 (Contraception and sterilization)

Only 40% of women ovulate with it. It should be taken in the early hours of the evening. The Pearl Index is higher in early reproductive life due to higher natural fertility and lower motivation. It is less effective than the combined pill. The POP is taken continuously, recommended for lactating mothers and does not increase the risk of ectopic compared to non-users. If a pregnancy does occur in a woman using a progestogen-only contraceptive, it is more likely to be an ectopic.

### Reference

Webb A. The progesterone only pill. In: Contraception. (Update Postgraduate Centre Series), Reed Healthcare Communications, 1995; 16–19.

# The following conditions may deteriorate during pregnancy 66, 67

Sarcoidosis is unaffected or improves. SLE may also improve or remain unaffected. Von Willebrand's disease improves and Crohn's disease remains the same.

# Psychiatric disorders of childbirth

# 70, 71 (Puerperal psychosis)

The risk of postnatal depression is increased in women with a family history of a serious affective disorder and a history of postnatal depression, but the risk with the second is higher. Among women with puerperal affective disorder a third are manic and two-thirds are depressive. The role of steroid therapy is not clear. Maternity blues affect 60–70% of newly confined women.

# References

Oats M. Psychiatric disorder and childbirth. Current Obstetrics and Gynaecology, 1995; 5: 64–69.

Henshaw CA, Cox JL. Postnatal depression, Current Obstetrics and Gynaecology, 1995; 5: 70–74.

# In a 26-year-old woman the serum FSH concentration may be raised in association with 79, 81

Acromegaly can be associated with hyperprolactinaemia which reduces GnRH pulsatility and therefore FSH would be low. With polycystic ovarian disease LH is raised. HCG is raised with a hydatidiform mole. Sheehan's syndrome is caused by post-partum pituitary necrosis and therefore is associated with low FSH and LH levels.

# The following diseases are inherited as autosomal recessive traits 86

Congenital spherocytosis and myotonic dystrophy are autosomal dominant as are Huntington's chorea, neurofibromatosis, achondroplasia, von Willebrand's disease, tuberous sclerosis, polyposis coli, familial hypercholesterolaemia, adult polycystic kidney disease, multiple exostosis, etc. Congenital heart disease (like neural tube defects, cleft lip and palate and hydrocephaly) has multifactorial inheritance. Nephrogenic diabetes insipidus is X-linked as are red-green colour blindness (8/100 males in UK), fragile X syndrome, pseudohypertrophic Duchenne muscular dystrophy, Becker muscular dystrophy, haemophilia A (factor VIII), haemophilia B (factor IX), glucose-6-phosphate dehydrogenase deficiency, ichthyosis, etc.

Other autosomal recessive conditions are cystic fibrosis, phenylketonuria, glycogen storage disease (von Gierke's disease), adrenogenital syndrome, Tay-Sach's disease, Gaucher disease, thalassaemia and sickle cell disease.

# Reference

Connor M and Ferguson-Smith M. Medical Genetics, 5th edn Oxford: Blackwell Science, 1997; 69–81.

# Hip fracture and osteoporosis

89 (Hormone replacement therapy)

Her bone density will be significantly improved by prescribing her oestrogen containing HRT. Oestrogens do not act uniformly, they have more effect on trabecular (vertebrae) than cortical (appendicular skeleton) bone.

# Management of abnormal smears

90 (Premalignant disease of the cervix)

Almost a third of woman with mild cytological abnormalities have grade 3 CIN. In women who have undergone excisional or destructive treatment for CIN 3, the risk of developing an invasive malignancy is five times greater than in the general population, Following a hysterectomy, if the CIN was completely removed, only one vault smear is advised after a year. Annual smears for 5 years are advisable for the follow up of CIN treated with ablative or destructive techniques.

# References

Hammond R. Management of women with smears showing mild dyskaryosis. BMJ, 1994; 308: 1383–1384.

Jones MH. The management of the mildly dyskaryotic smear. British Journal of Obstetrics and Gynaecology, 1994; 101: 474–476.

Ten guidelines on cervical smears and colposcopy. Based on National Co-ordinating Workshop Guideline 1992 and the Report of the Intercollegiate Working Party 1987.

#### Lichen sclerosus

94, 98 (Vulva)

Lichen sclerosus has malignant potential of 0–10%. Cellular atypia is not a feature and it can occur anywhere on the skin, including non-genital areas in 20% of cases. The patient may remain entirely symptom free. The main treatment modality is topical steroid therapy.

### References

MacLean AB. Lichen sclerosus. RCOG PACE review 95/09.

Maclean AB. Precursors of vulval cancers. Current Obstetrics and Gynaecology, 1993; 3: 149–156.

MacLean AB. Vulval dystrophy — the passing of a term. Current Obstetrics and Gynaecology, 1991; 1: 97–102.

#### Endometrial cancer

99, 103 (Uterine tumours)

Adenocarcinoma is the commonest type of endometrial cancer (80% of cases). The commonest sites of spread are the pelvic lymph nodes (iliac and obturator), followed by para-aortic nodes. Inguinal nodes are rarely involved. Pelvic node metastasis are found in up to 26% of poorly differentiated cases and 5.5% of well differentiated cases. The prognosis of adenocarcinoma and adeno-acanthoma are similar and better than that of adenosquamous carcinoma.

### References

Lawton FG. Early endometrial carcinoma—no more TAH, BSO and cuff. In: Studd J, ed. Progress in Obstetrics and Gynaecology. Volume 10. Edinburgh: Churchill Livingstone, 1993; pp. 403–413.

Irwin CIR. The Management of endometrial carcinoma. British Journal of Hospital Medicine, 1996; 55: 308–309.

Lawton F. The management of endometrial cancer. British Journal of Obstetrics and Gynaecology, 1997; 104: 127–134.

Rose P. Endometrial carcinoma. The New England Journal of Medicine, 1996; 335: 640–648.
Semple D. Endometrial cancer. British Journal of Hospital Medicine, 1997; 57: 260–262.

# Regarding syphilis

104, 105, 106, 108, 111, 112, 114 (Sexually transmitted disease)

Syphilis can be transferred to the fetus at any stage during pregnancy or labour. In early pregnancy this is associated with miscarriage and fetal death, in late pregnancy with fetal/neonatal syphilis syndrome. VDRL is the test still widely used. It detects treponemal cardiolipin antigen and has low specificity. It is positive in a number of autoimmune diseases including SLE. The FTA test has higher specificity than VDRL. Dark ground microscopy is used for the diagnosis of primary and early secondary syphilis. A rash is associated with secondary syphilis. Primary syphilis consists of a chance and local lymphadenopathy.

# References

Davey DA, Whitfield CR. Antenatal care in normal pregnancy and pre-pregnant care. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates. 5th edn. Oxford: Blackwell Science, 1995; 109–120.

Stabile I, Chard T, Grudzinskas G. Clinical Obstetrics and Gynaecology. New York: Springer-Verlag, 1996; 183–190.

# Trigger events that could initiate a risk management protocol include

118, 119, 120 (Risk management)

A trust risk management protocol should be initiated in the case of failed instrumental delivery (not a trial), birth of a baby with undiagnosed structural abnormality, unexpected or late admission of the neonate to the SCBU.

# Termination of pregnancy

121, 122 (Therapeutic abortion and the Human Fertilization and Embryology Act 1990) Recurrent miscarriage is thought to occur due to cervical trauma. Pelvic pain may occur due to complications such as: endometritis, pelvic inflammatory disease and Asherman's syndrome.

#### Reference

Henshaw RC, Templeton AA. Methods used in first trimester abortion. Current Obstetrics and Gynaecology, 1993; 3: 11–16.

# Sarcoma botryoides

125 (Vaginal tumours)

It affects young girls with mean age of 2 years. There is no known association with in utera exposure to synthetic oestrogens.

# Premenstrual syndrome

(Premenstrual syndrome)

Only 5% of women do not experience symptoms of premenstrual syndrome at all. The diagnosis should be based on the prospective symptom chart. The cause is unknown.

# Reference

O'Brian PMS, Abukhalil IEH, Henshaw C. Current Obstetrics and Gynaecology, 1995; 5: 30–35.

# Syntocinon augmentation of labour

129, 131 (Induction of labour)

The incidence of neonatal jaundice is increased following the use of syntocinon. It is stated that increased haemolysis is the cause, but it is not clear whether the syntocinon itself or the infusion fluid is responsible for it. As labour progresses the requirement for syntocinon may be reduced in some cases. If the dose of syntocinon is more than optimum, it may cause prolonged hypertonic uterine contraction and fetal distress. IV Terbutaline, SL amylnitrate or GTN spray may be used to relieve hypertonus. Syntocinon is more often required in nulliparous compared to multiparous women.

# Reference

Beazley JM. Special Circumstances Affecting Labour. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 312–332.

# Factors predisposing to genuine stress incontinence (GSI) include

133, 134, 135, 136 (Urinary incontinence: urodynamics)

Multiple vaginal deliveries (large babies or with instrumental assistance) are associated with an increased risk of GSI, Caesarean deliveries are not.

# References

Cardozo L, Hill S. Urinary Incontinence. RCOG PACE review 96:09.

Kelleher CJ, Cardozo LD. The conservative management of female urinary incontinence. In: The Year Book of The RCOG 1994; 123–135.

Richmond D. The incontinent women: 1. British Journal of Hospital Medicine, 1993; 50, 418–423.

# In treating preterm labour with ritodrine, certain caution should be taken with 137, 138, 139, 140, 141 (Premature labour)

Ritodrine is a beta mimetic drug, which increases the heart rate and plasma glucose concentration. Adrenergic stimulants and tricyclic antidepressants increase the heart rate and may precipitate arrhythmia if used concurrently with ritodrine. Its use is contraindicated in heart disease, thyrotoxicosis, chorioamnionitis etc. It should be used very cautiously in diabetes (thiazide causes hyperglycaemia) and multiple pregnancy. In the 1996 report of the Confidential Enquiry into Maternal Deaths, maternal deaths from pulmonary oedema have been reported following the use of ritodrine. Maintaining a tight fluid balance has been recommended.

### References

Beta-agonists for the care of women in preterm labour. RCOG Guidelines 1a, 1997.
Report on Confidential Enquiries into Maternal Deaths in the United Kingdom, 1991–1993.
London: HMSO, 1996.

# Endometrial cystic glandular hyperplasia

143, 144 (Uterine tumours)

This generally occurs premenopausally and is associated with raised oestrogen levels and anovulatory conditions (PCO). The risk of progression to cancer is low.

# Thyrotoxicosis in pregnancy

150, 153 (Thyroid and pregnancy)

Subtotal thyroidectomy is 'safe' in the second trimester (First trimester-miscarriage, Third trimester-preterm labour). There is no need to stop propyl-thiouracil 6 weeks before delivery, or to add propranolol from 36 weeks. As the T4 level in normal pregnancy increases due to raised thyroid binding globulin level, its measurement is not helpful in monitoring the disease process (free T3, T4 and free thyroxine index are useful). The disease often improves in pregnancy due to immunosuppression because of raised steroid levels. The combination of thyroxine and antithyroid drug is unhelpful, because as the passage of thyroxine through the placenta is negligible, additional thyroxine only increases the requirements for the antithyroid drug. Antithyroid drugs readily cross the placenta and have a suppressive effect on the fetal thyroid gland leading to the formation of a goitre. The optimum treatment is to use the minimum dose of the antithyroid drug necessary to keep the mother euthyroid.

# References

Kennedy RL, Darne, EJ. Disorders of the thyroid gland during pregnancy and the post-partum period. In: Studd J, ed. Progress in Obstetrics and Gynaecology, Volume 11. Edinburgh: Churchill Livingstone, 1994; 125–140.

Ramsay I, Thyroid disease. In: De Swiet M, ed. Medical Disorders in Obstetrics Practice, 2nd edn. Oxford: Blackwell Scientific Publications, 1990; 633–659.

# Group B streptococcal infections

156, 157, 158, 160

Screening all women at 28 weeks can reduce infections.

#### Reference

Van Oppen C, Feldman R. Antibiotic prophylaxis of neonatal group B streptococcal infections. BMJ 1993; 306: 411–412.

# There is a recognized association between gynaecomastia and 161, 162, 163, 165, 166, 167, 168

Gynaecomastia occurs secondary to hypogonadism. This may be acquired (castration, alcoholism, renal failure) or congenital (Klinefelter's syndrome, 5-alpha reductase deficiency). Hypogonadism may also occur secondary to hyperprolactinaemia and reduced gonadotrophins (GnRH therapy, Kallman's syndrome). Pubertal gynaecomastia occurs in about 50% of boys and is usually asymmetrical, resolving within 18 months. Carcinoid tumours secrete serotonin, (oestrogen-secreting tumours of the testis or adrenal, and HCG-producing tumours of the testis and lung may cause gynaecomastia). Phaeochromocytomas secrete catecholamines. Other causes are antiandrogenic drugs (cimetidine, spironolactone, cyproterone) and oestrogenic drugs (digitalis, cannabis, diamorphine).

# References

Drury PL. Endocrinology. In: Kumar PJ, Clark ML. Clinical Medicine. London: Ballière Tindall.

The breast. In: Mann CV, Russell RCG, eds. Bailey & Love's Short Practice of Surgery, 21st edn. London: Chapman & Hall, 1992; 788–821.

# Asymptomatic bacteriuria

171, 172, 180 (Renal tract in pregnancy)

It is found in 5% of pregnant women and is defined as a bacterial count of greater than 100 000 organisms/ml of clean caught mid-stream urine. It predisposes to pyelonephritis in 30% of cases. There is debate about screening at the booking visit but it is not indicated at each visit. It should be treated with antibiotics. Post-partum investigation with an IVP is not necessary. It is associated with preterm labour but does not cause neonatal death.

#### Reference

Davison J. Renal disease, In: De Swiet M, ed. Medical Disorders in Obstetrics Practice, 2nd edn. Oxford: Blackwell Scientific Publications, 1990; 306–407.

## Eclampsia

182, 186 (Pre-eclampsia, eclampsia and phaeochromocytoma)

The incidence of eclampsia is 44% post-partum, 38% ante-partum and 18% intrapartum. Use of hydralazine with chlormethiazole is not contraindicated. ARDS is the commonest cause of death. Oliguria is a feature not diuresis. The blood volume is decreased. Time and mode of delivery depends on the clinical situation. IV hydralazine or labetalol are used to control the raised blood pressure at first instance.

## Reference

Redman C. Hypertension in pregnancy. In: De Swiet M, ed. Medical Disorders in Obstetrics Practice, 2nd edn. Oxford: Blackwell Scientific Publications, 1990; 249–305.

# GnRH agonists are used effectively in the treatment of 193, 195, 196, 197

They are also used in the treatment of leiomyomas, endometriosis, hirsutism, functional bowel disease, menstrual asthma and migraine, dysfunctional bleeding, PCO and prior to endometrial resection/ablation

## Reference

Pickersgill A. GnRH analogues and add-back therapy. Is there a perfect combination? British Journal of Obstetrics and Gynaecology, 1998; 105: 475–485.

## Maternal CVS in pregnancy

201 (Cardiac disease in pregnancy)

Heart murmurs are due to increased blood flow through the internal mammary arteries. Anticoagulants should not be stopped at 36 weeks because of the high risk of thrombosis. Benzyl penicillin plus gentamycin provides adequate prophylaxis. Frusemide is essential in the management of heart failure, but it is not advocated in the initial management of eclampsia.

#### Reference

Whitfield CR. Heart disease in pregnancy. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 216–227.

# The following are true when comparing modern obstetric practices regarding instrumental deliveries

203, 204, 205 (Forceps and ventouse)

For vaginal delivery neither instrument should be used (in modern obstetric practice) unless the cervix is fully dilated (forceps may be used in Caesarean section).

## Vaginal pH 207, 210, 211

At birth neonatal vaginal pH is lowest due to the effect of maternal hormones and it gradually increases thereafter. Both cervical and menstrual discharges are alkaline and therefore increase vaginal pH. Oestrogen replacement therapy decreases vaginal pH.

### 24 ANSWERS - PAPER ONE

## References

Emens JM. Intractable vaginal discharge. Current Obstetrics and Gynaecology, 1993; 3: 41-47.

Lamont RF. Bacterial vaginosis. The Year Book of the RCOG 1994; 149-158.

Whitfield, CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates. 5th edn. Oxford: Blackwell Science, 1995; 4–53.

#### Predisposing factors to face presentation include

213, 214, 215, 216, 217, 218, 219, 220 (Presentations and positions)

Others are sternomastoid tumour, branchial cyst, contracted pelvis, pelvic tumour, fetal goitre, large thorax, cord around the neck etc.

#### Reference

Ritchie JWK. Malpositions of the occiput and malpresentations. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 346–367.

## The following are not associated with hirsutism

223 (Hirsutism)

Anorexia nervosa, hyperthecosis of the ovary, acromegaly, juvenile hypothyroidism and hilar cell tumours are associated with hirsutism.

## Reference

Davies MC, Jacobs HS. Hirsutism. RCOG PACE review 95/11.

## Ovarian tumours may be associated with

227, 228, 229 (Ovarian tumours; non-epithelial)

There is no association with Kallman's syndrome.

## Reference

Eccles DM. Ovarian cancer genetics and screening for ovarian cancer. RCOG PACE review 97/06.

# Massive obstetric haemorrhage

## 233, 234

Initially blood loss should be replaced by blood. Platelets and fresh frozen plasma are needed if coagulation failure develops.

#### Reference

Annexe to Chapter 3. Report on Confidential Enquiries into Maternal Deaths in the United Kingdom, 1988–1990. London: HMSO, 1994.

# Progestogens, when given with oestrogens to post-menopausal women 238, 240

Increase LDL cholesterol, cause endometrial down-regulation, have no preventive effect on breast cancer (may increase the risk) and do not act as insulin antagonists. Although the mechanisms are unclear, progestogens do reduce bone loss.

## Deep venous thrombosis (DVT) and pregnancy

242, 243 (Coagulation and pregnancy)

80% of DVTs occur in the left leg. This is associated with a 16% risk of pulmonary embolism, the risk being highest during first 24 hours after the primary thrombotic episode. Pulmonary embolism can occur as a primary event.

## Reference

Report on Confidential Enquiries into Maternal Deaths in the United Kingdom, 1991–1993. London: HMSO, 1996.

## Recognized features of Turner's syndrome include 247, 248, 249, 250

They are infertile, have raised gonadotrophins secondary to ovarian failure and can only conceive with donor eggs. The majority are XO (associated with chromatin negative buccal cells) although about 10% are associated with the mosaic pattern XO/XX. Anosmia is associated with Kallman's syndrome. Their bone age is delayed for their age. Red-green colour blindness is associated with the absence of one X chromosome.

#### The menstrual cycle

254, 258, 259, 260 (Infertility - I, Menstrual cycle physiology)

Even in normal cycles the average length of the luteal phase is 12-15 days. Ovulation occurs on average 32 hours after the initial LH rise and 16.5 hours after the LH peak. Although a day 21 progesterone is used to diagnose ovulation, it only implies adequate corpus luteal functioning and is therefore an indirect method. Unless follicular tracking occurs at the same time cases of luteinized unruptured follicle (LUF) will be missed. Thecal cells of the ovarian stroma mainly secrete androstenedione but can secrete oestrogens.

## Intrauterine contraceptive devices (IUCD)

263, 264, 267, 270, 271 (Contraception and sterilization)

Levonorgestrel releasing IUCD (LNG-IUCD) do not contain copper and do not need removal prior to an MRI. They should be removed post-menopausally as there is a theoretical risk of pyometra. They are not advised for renal transplant patients who require immunosuppressive therapy because of the theoretical risks of ascending infection. Efficacy is unrelated to the weight of copper, but is proportional to the surface area of the copper. Protection from the ectopic pregnancy is less effective (95%).

## In rupture of the uterus, the following may occur 272, 274, 275, 276

Other features are constant lower abdominal pain without any uterine contractions, maternal tachycardia, abnormal cardiotocography etc. The uterine contractions usually stop after rupture of the uterus.

## Reference

Beazley JM. Maternal injuries and complications. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 377–387.

## Causes of pruritus ani include 277, 279, 281

Ascaris is a roundworm – only threadworms (in the young) cause pruritus. Diverticulitis does not cause pruritus ani. Other causes are lack of cleanliness, excessive sweating, wearing rough or woollen underclothing, anal or perianal discharge, vaginal discharge (e.g. Trichomonas vaginalis), scabies, pediculosis, epidermophytosis, allergy, psoriasis, lichen planus, contact dermatitis, intertrigo, psychoneurosis etc.

## Reference

The rectum. The anus and anal canal. In: Mann CV, Russell RCG, eds. Bailey & Love's Short Practice of Surgery, 21st edn. London: Chapman & Hall, 1992; 1215— 1239, 1240–1275.

## SLE in pregnancy

282, 283, 284 (Immunology of pregnancy)

There is a high risk of puerperal exacerbation as the immunosuppressive action of pregnancy is withdrawn. The disease causes microthrombosis of the placenta increasing the risk of spontaneous miscarriage and pre-eclampsia. Azathioprine may be used if required. Lupus anticoagulant increases the risk of thrombosis.

## Reference

Jones WR. Immunological disorders in pregnancy. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 277–287.

# The following conditions can be detected by ultrasound scanning 287, 288, 289, 290, 291

Duodenal atresia is seen as a double bubble sign. In hydrops fetalis, skin oedema and excessive collection of fluid in serous cavities are characteristic. Congenital heart block is diagnosed by the ventricles beating at a lower rate than the atria (atrioventricular dissociation).

#### Reference

Harman C. The routine 18–20 week ultrasound scan. In: James DK, Steer PJ, Weiner CP, Gonik B, eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994: 661–691.

# Regarding puberty

292, 294

# Dural tap

295, 296, 297, 299

Post-dural puncture headache commonly occurs within 1-2 days. It is treated with a 'blood patch' which is effective immediately.

## Reference

Collins RE, Morgan BM. Regional anaesthesia and obstetrics. Current Obstetrics and Gynaecology, 1995; 5: 91-97.

# PAPER TWO

## Allow 2 hours for completion of this paper

## Necrotizing enterocolitis in the newborn

- 1. Affects male infants more often than female
- 2. Is much more common among infants whose birth weight is less than 1500 g
- 3. The earliest sign is abdominal distension following initiation of oral feeding
- 4. E. coli is the commonest organism recovered from blood cultures
- 5. Thrombocytopenia is the rule
- 6. Bilious vomiting is found
- Intestinal obstruction is a characteristic feature
- 8. Bloody diarrhoea occurs
- 9. Gas in the bowel wall on abdominal X-ray is diagnostic

## A 24-year-old primigravida at 37 weeks gestation has had a blood pressure of 150/100 mm Hg and 4 g of proteinuria for the preceding day. The following findings would be expected

- 10. A raised plasma urate level
- 11. Loss of diurnal variation in blood pressure
- 12. A creatinine clearance of 120-150 ml per minute
- 13. Hyperreflexia
- 14. A low level of FDP
- 15. Hypernatraemia

# The following are more common after an abdominal (rather than vaginal) hysterectomy

- 16. Lung atelectasis
- 17. Febrile morbidity
- 18. Pulmonary embolism

# Monozygotic multiple pregnancy

- 19. Is monoamniotic in 25% of cases
- 20. Incidences are more common in Japan than in North America
- 21. Incidences are more common in pregnancies conceived on clomiphene
- 22. The incidence increases with increasing maternal age
- 23. Such pregnancies are familial
- 24. Is the usual mechanism of conception in triplet pregnancies
- Is associated with higher incidence of fetal abnormalities than polyzygotic pregnancies
- 26. Communicating vessels in the placenta are usually demonstrated

## Depo medroxyprogesterone acetate

- 27. Is the only available licensed depot contraceptive preparation
- 28. Is associated with significant loss of bone mineral density in long-term users
- 29. The duration of its contraceptive efficacy is dose related
- 30. Induces amenorrhoea in 45% in the first year of use
- 31. Has androgenic side effects
- 32. Is contraindicated in women who have previously had an ectopic pregnancy
- 33. Is associated with reduced incidence of PID
- 34. Is contraindicated in sickle cell disease
- 35. Is discontinued by a third of users because of menstrual irregularities

# Regarding miscarriage, which of the following statements are true?

- 36. One in four women will have at least one miscarriage
- 37. One in five first trimester miscarriages are associated with chromosomal anomalies
- 38. One in 100 women experience recurrent miscarriage
- 39. One in five women experience vaginal bleeding in early pregnancy
- 40. One in three spontaneous miscarriages will resolve spontaneously

## In pregnancy

- 41. The incidence of appendicitis is 1 in 2500
- 42. Pancreatitis is associated with 50% mortality
- 43. Asymptomatic bacteriuria may presents with suprapubic pain
- 44. Nephrolithiasis occurs in 1 in 5000-10 000 cases
- 45. Sickle cell disease may present with sharp abdominal pain

#### In labour

- 46. Uterine hypertonia is the commonest type of abnormal uterine activity
- 47. Uterine hypotonia is commoner in parous than in primigravidae
- 48. Supine position is associated with uterine hypotonia
- 49. Adequate pain relief may correct uterine hypertonia
- 50. Uterine hypotonia is associated with fetal hypoxia

# The following indicate abnormal sperm function

- 51. Volume < 2 ml
- 52. Density of 10 million/ml
- 53. 70% abnormal forms
- 54. Motility 40%

## Short stature is associated with

- 55. Androgen insensitivity
- 56. Klippel-Feil syndrome
- 57. Turner's syndrome
- 58. XXX genotype

## There is a recognized association between Down's syndrome and

- 59. Congenital deafness
- 60. Patent ductus arteriosus
- 61. 21 triploidy
- 62. Hypotonia
- 63. 13/21 translocation defect

## The following side effects match

64. Digoxin	Agranulocytosis
65. Methyldopa	Depression
66. Warfarin	Osteoporosis
67. Clomiphene	Alopecia
68. Cimetidine	Mastalgia
69. Norethisterone	Neonatal virilism
70. Danazol Acne	

70. Danazoi Acne

Bromocriptine Hypertension

## Regarding contraception in late reproductive life

- At 50 years of age the pregnancy rate in women not using any contraception is 10-20 per 100 women years
- Contraception should be discontinued with the last menstrual period if this has occurred after the age of 50
- Contraception should be discontinued 1 year after the last menstrual period if this has occurred before the age of 50
- 75. Methods of contraception with a high failure rate in young women are more reliable in the peri-menopausal period
- 76. The indications and contraindications for post-coital contraception are exactly the same in peri-menopausal women as for younger age groups
- Modern low dose combined oral contraceptive pills can be taken in healthy nonsmoking women in the peri-menopausal age range
- Modern cyclical and continuous combined hormone replacement therapy provides reliable contraception
- Older women have the highest incidence of therapeutic abortion of any age group

## New genetics

- 80. The majority of mutations causing genetic diseases are single base substitutions
- 81. There is a specific base substitution with genes in all genetic disorders
- 82. Restriction endonucleases always cut DNA strands at the same point
- 83. Restriction enzymes are useful in diagnosing sickle cell disease
- 84. Introns are important in coding for genetic products
- All patients with alpha-1-antitrypsin deficiency have the same underlying base substitution

#### ARDS

- 86. Is rarely associated with sepsis
- 87. Is commonly associated with aspiration of gastric contents
- 88. Is associated with multiple blood transfusions in only 25% of cases
- 89. Develops within 24 hours in 80% of patients
- 90. Mortality rates vary according to the underlying cause

## Presumptive evidence of ovulation is indicated by

- 91. A biphasic temperature chart during a menstrual cycle
- 92. The development of subnuclear vacuolation in the endometrial glands
- 93. A rise in urinary LH
- 94. A fall in urinary pregnanediol excretion during the third week
- 95. The development of supranuclear vacuolation in the endometrial glands

# Listeria monocytogenes in pregnancy

- 96. Is destroyed by cooking
- 97. Causes a glandular fever-like illness
- 98. Severe diarrhoea is characteristic
- 99. Is best treated with chloramphenicol
- 100. Is a cause of recurrent miscarriage
- 101. May result in neonatal hydrocephalus
- 102. Causes meconium ileus

# Pelvic abscess is a recognized complication of

- 103. Diverticulitis coli
- 104. Crohn's disease
- 105. Ulcerative colitis
- 106. Appendicitis
- 107. Schistosoma hematobium infestation
- 108. Pyometra
- 32 PAPER TWO

## The following are associated with an increased risk of fetal malformations

- 109. Diagnostic amniocentesis
- 110. Poliomyelitis vaccine administered in early pregnancy

## Characteristic features of primary spasmodic dysmenorrhoea include

- 111. Relief of pain by mefenamic acid
- 112. Endometrium in the secretory phase
- 113. Mildly elevated serum prolactin levels
- 114. Ovulation
- 115. Excess production of PGF2, by the endometrium
- 116. Increased production of parathormone

## Genetic counselling includes

- 117. An attempt to eliminate hereditary disease
- 118. Always offering chorionic villus sampling (CVS)

## Which of the following associations are correct

Super comme	
Testicular feminization syndrome	
True hermaphroditism	
Klinefelter's syndrome	
Tall stature	
Turner's syndrome	
Female adrenogenital syndrome	

Super female

## Ectopic pregnancy

119 46 XXX

- 126. The incidence has been declining in the UK over the last few years
- 127. In the UK the incidence is 1/500 births
- 128. Following one ectopic pregnancy the risk of a further ectopic pregnancy is 40-50%
- 129. The incidence of maternal deaths due to ectopic pregnancy in the UK in 1991-93 was 0.3/1000

## Regarding drugs in the neonate, the following match

130. Phenytoin Jaundice

131. Rifampicin Hypoprothrombinaemia

132. Tetracycline Discolouration, dysplasia of teeth and bones

133. Lithium Retention of urine

Maloprim Steven Johnson syndrome

135. Streptomycin Deafness due to VIIth nerve damage

136. Tetracycline Cataract

## Peripartum cardiomyopathy

- 137. Persisting cardiomegaly at 1 year is associated with mortality of over 80%
- 138. Most commonly occurs post-partum
- 139. Is more common with multiple pregnancies, eclampsia and nulliparity
- 140. Normally presents with signs of right sided heart failure
- 141. May necessitate heart transplantation
- 142. Heparin is advised to reduce emboli

#### Causes of raised HCG include

- 143. Carcinoma of the colon
- 144. All forms of trophoblastic disease
- 145. Carcinoma of the bronchus
- 146. Carcinoma of the bladder
- 147. Carcinoma of the stomach

### CIN 3 is characterized by

- 148. Visible lesions at colposcopy
- 149. Histological changes beneath the basement membrane
- 150. Full thickness loss of stratification throughout the epithelium
- 151. Full thickness loss of polarity throughout the epithelium
- 152. Lymph node deposits

## Oligohydramnios is characteristically associated with

- 153. Post-maturity
- 154. Amniotic bands
- 155. Fetal polycystic kidneys
- 156. Rhesus alloimmunization
- 157. Haemangioma of the placenta
- 158. Diabetes mellitus
- 159. Increased levels of amniotic prolactin
- 160. A reduced efficiency of labour
- 161. All cases of renal agenesis of the fetus

### The levonorgestrel loaded IUCD

- 162. Effectively improves dysmenorrhoea
- 163. Does not alter the serum lipid profile
- 164. May reduce the size of fibroids
- 165. Retains contraceptive efficacy for up to 3 years
- 166. Is associated with significant weight gain
- 167. Reduces menstrual blood loss by up to 95% after 1 year of use

#### In amniotic fluid

- 168. Presence of phosphatidyl inositol indicates fetal lung maturity
- A lecithin-sphingomyelin ratio of 2:1 indicates fetal lung maturity in maternal diabetes.
- 170. Absence of phosphatidyl glycerol indicates that the fetal lung is immature
- 171. Phospholipids make up more than 80% of surfactant
- 172. Lecithin contributes about 80% of surfactant after 37 weeks gestation

## The following fall after the menopause

- 173. Serum testosterone levels
- 174. Plasma calcium concentration
- 175. Karyopyknotic index in the vagina
- 176. HDL and coronary heart disease
- 177. Plasma oestradiol concentrations
- 178. Urinary calcium/creatinine ratio
- 179. Interest in sexual intercourse

## In pregnancy above 35 years old the incidence of the following are increased

- 180. Post-maturity
- 181. Anencephaly
- 182. Breech presentation
- 183. Perinatal death
- 184. Closed spina bifida
- 185. Monozygotic twins
- 186. IUGR
- 187. Prolonged labour

## Toxoplasmosis infection in pregnancy

- 188. Occurs from improperly washed raw vegetables
- 189. Can be effectively treated in pregnancy
- 190. The fetus is affected in less than 5% cases
- 191. Less than 20% of fetuses are affected if the mother was affected in previous pregnancies
- 192, 80% of fetuses are affected if infection occurs in the first or second trimester
  - 193. Causes abortion in 20-30% of cases
- 194. Causes jaundice on the first day of life

## The following statements relate to pelvic inflammatory disease (PID)

- 195. 8% of women suffer with tubal factor infertility after one episode
- 196. 40% of women suffer with tubal factor infertility after three or more episodes
- 197. 1% of women are infertile after one episode of mild disease
- 198: 20% are infertile after the first episode of severe disease
- 199. 1% with laparoscopically proven PID have Fitz-Hugh-Curtis syndrome
- 200. 3% will have another episode within a year
- 201. 80% of partners of women with PID will have urethritis

# Folic acid deficiency in pregnancy

- 202. Is more likely to occur in women of low social class
- 203. Is associated with Hirshsprung's disease
- 204. Has no known association with Crohn's disease
- 205. Causes fetal neural tube defects

## With regard to ovarian carcinoma the following screening methods are beneficial

- 206. Ultrasound using colour flow doppler
- 207. CA 125
- 208. Genetics

#### Pethidine

- 209. The maximum dose is 400 mg in 24 hours, and it should be entirely avoided in pre-eclampsia
- 210. Delayed gastric emptying, nausea, vomiting and maternal respiratory depression are known side effects
- 211. If given in labour, prophylactic ranitidine should be administered concurrently

## The following drugs are associated with hirsutism

- 212. Phenytoin
- 213. Diazoxide
- 214. Salicylate
- 215. Digoxin
- 216. Cimetidine

#### Placenta praevia

- 217. Occurs in 2-4% of pregnancies
- 218. Occurs with higher incidence in women who have previously had a D&C
- 219. Is associated with an increased incidence of neonatal respiratory distress syndrome
- 220. Classically presents with painless antepartum haemorrhage late in the second trimester
- 221. One in three women with placenta praevia have no history of antepartum haemorrhage
- 222. Always necessitates Caesarean delivery
- 223. Is associated with maternal mortality of 0.1%
- 224. Is associated with placenta acreta in 15%

#### Atelectasis

- 225. Is a rare postoperative complication after general anaesthesia.
- 226. Has a more aggressive course in non-smokers than smokers
- 227. May present with pyrexia
- 228. The risk increases with increased duration of anaesthesia

## Breech delivery

- 229. Footling breech presentation is an indication for Caesarean section
- 230. Vaginal delivery is impossible if the maternal sacrum is flat
- 231. Ideally the membranes should be kept intact during labour for as long as possible
- 232. In primigravida a trial of labour is contraindicated
- 233. The risk of cord prolapse in labour is highest in flexed breech
- 234. Breech extraction in singleton pregnancy is contraindicated
- 235. The after-coming head entrapped with an incompletely dilated cervix could be released with incisions at 6 and 12 o'clock
- In the early 1990s Caesarean sections for breeches in England accounted for 30% of all Caesarean sections
- 237. Pushing should commence as soon as full dilatation is achieved

A 32-year-old woman, para 4 + 0 has requested a sterilization. She is rather overweight and is found to have second degree uterine prolapse. Routine cervical cytology has shown severe dyskaryosis, confirmed as CIN 3 by colposcopic biopsy. Acceptable management for this woman could be

- 238. Sterilization and treatment of the cervix
- 239. Abdominal hysterectomy
- 240. Manchester repair with sterilization
- 241. Schauta's operation
- 242. Cone biopsy.

# Transverse lie in late pregnancy is associated with

- 243. Renal agenesis
- 244. IUGR
- 245. Microcephaly
- 246. Placenta circumvallata
- 247. Haemangioma of the placenta
- 248. Arcuate uterus
- 249. Multiple pregnancy
- 250. Placenta praevia

# Precocious puberty

- 251. Can be treated with cyproterone acetate
- 252. Is rarely of the familial constitutional type
- 253. Is associated with Albright's syndrome
- 254. Is associated with juvenile hypothyroidism
- 255. Is associated with granulosa cell tumours
- 256. Is associated with sarcoma botryoides
- 257. Is associated with Waterhouse-Friedrichsen's syndrome

## Recognized causes of post-partum shock without excessive visible blood loss include

- 258. Inversion of the uterus
- 259. Intravenous administration of ergometrine
- 260. Rupture of the uterus
- 261. Vaginal haematoma
- 262. An eclamptic fit

#### Partial moles

- 263. Incidence in the UK is 1 in 600 deliveries
- 264. 5% of patients will need treatment for persistent trophoblastic disease
- 265. Do not need follow up with serial HCG
- 266. May be associated with fetal erythrocytes
- 267. Are triploid (one paternal, two maternal)

## Ovarian hyperstimulation syndrome may be associated with

- 268. Clomiphene tartrate
- 269. Human menopausal gonadotrophins
- 270. FSH
- 271. Tamoxifen
- 272. HCG

# Right iliac fossa (RIF) pain occurring at 32 weeks of pregnancy could be due to

- 273. Constipation
- 274. Chronic salpingitis
- 275. A strangulated femoral hernia

## Heparin

- 276. When used in prophylactic doses does not require monitoring of clotting
- 277. For therapeutic use, its anticoagulant effect is monitored by measuring PT
- 278. The target level of PT for a woman on a therapeutic dose of heparin is 1.5-2 times normal
- 279. Osteopenia due to prolonged heparin therapy is reversible after discontinuation of the treatment
- 280. The disadvantage of the low molecular weight heparin is a higher incidence of allergic reactions when compared with unfractionated heparin
- 281. The APTT should be measured 12 hours after starting intravenous heparin therapy
- 282. Heparin associated thrombocytopenia could be life threatening
- 283. Epidural anaesthesia is safe in women on prophylactic dose of unfractionated heparin

#### The transformation zone of the cervix

- 284. Is entirely visible when colposcopy is regarded adequate
- 285. Is the usual site for the development of CIN
- 286. Has the squamo-columnar junction at its ectocervical limit
- 287. May extend to include the vagina in 5% of patients
- 288. Only contains columnar cells
- 289. May contain dysplastic cells

## Breast cancer in pregnancy

- 290. Is characterized by a worse prognosis if it occurs during or shortly after pregnancy
- 291. Could be treated with radiotherapy
- 292. In pregnancy there is a preponderance of unfavourable types of breast cancer
- Pregnancy after breast cancer should be delayed for 2 years because of the poor prognosis
- 294. Breast feeding is not advisable

## Urinary retention

- 295. Is a common gynaecological problem
- 296. Is a side effect of cholinergic drugs
- 297. Is a common complication of early pregnancy
- 298. Could be caused by primary syphilis
- 299. Could be caused by genital herpes
- 300. Could be caused by regional anaesthesia

# ANSWERS TO PAPER TWO

The numbers of the correct answers are given

## Necrotizing enterocolitis in the newborn

1, 2, 3, 4, 5, 6, 8, 9

Intestinal obstruction is not a feature.

#### References

Cockburn F. Neonatal care for obstetricians. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 454-476.

Necrotising enterocolitis. In: Chamberlain GVP, ed. Obstetrics by Ten Teachers, 16th edn. London: Edward Arnold, 1995; 318.

## In proteinuric hypertension the following findings would be expected

10, 11, 13 15 (Pre-eclampsia, eclampsia and phaeochromocytoma)

The creatinine clearance would be expected to be low (normal: 90-120 ml/min) and the FDP level would be higher.

### Reference

Redman C. Hypertension in pregnancy. In: De Swiet M, ed. Medical Disorders in Obstetries Practice, 2nd edn. Oxford: Blackwell Scientific Publications, 1990, 249–305.

# The following are more common after an abdominal (rather than vaginal) hysterectomy 16, 17, 18 (Abdominal versus vaginal hysterectomy)

Unintended visceral damage occurs more often with vaginal surgery.

## Monozygotic multiple pregnancy

25, 26 (Multiple pregnancy)

Only 3% of monozygotic twins are monoamniotic. The incidence is not influenced by geographical area, ovulation induction, maternal age, family etc. (which do influence polyzygotic pregnancies). Triplets are usually polyzygotic.

## Reference

Neilson JP. Multiple pregnancy. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 439–453.

## Depo medroxyprogesterone acetate

29, 30, 31, 33, 35 (Contraception and sterilization)

Norethisterone oenanthate is an alternative. Depo-provera reduces the incidence of the sickle cell crisis, and is not associated with significant bone mineral loss.

## References

Globade B, Ellis S, Murby B, Randall S, Kirkman R. Bone density in long term users of depot medroxyprogesterone acetate. British Journal of Obstetrics and Gynaecology, 1998; 105: 790–794.

Walling M. Injectable and implant contraceptives. In: Contraception. (Update Postgraduate Centre Series), Reed Healthcare Communications, 1995; 22–24.

### Regarding miscarriage, which of the following statements are true?

36, 38, 39 (Abortion spontaneous/recurrent)

Up to 50% of first trimester miscarriages are associated with chromosomal abnormalities, 70% of spontaneous miscarriages will resolve spontaneously.

#### In pregnancy

41, 45 (Abdominal pain in pregnancy)

The mortality associated with pancreatitis is 10%. As the name of the condition indicates, asymptomatic bacteriuria is asymptomatic. If symptoms such as suprapubic pain intervene urinary tract infection needs to be considered. The incidence of nephrolithiasis is 1:1500.

## Reference

Stabile I, Chard T, Grudzinskas G. Clinical Obstetrics and Gynaecology. New York: Springer-Verlag, 1996; 113–114.

#### In labour

48, 49 (Abnormal uterine function in labour)

Hypotonia is the commonest type of abnormal uterine activity. It is commoner in primigravid women although can occur in parous ones. It is not known to be associated with fetal hypoxia.

## Reference

Arulkumaran S. Poor progress in labour including augmentation, malpositions and malpresentations. In: James DK, Steer PJ, Weiner CP, Gonik B. eds. High Risk Pregnancy. Management Options. London: WB Saunders Company, 1994; 1061–1075.

# The following indicate abnormal sperm function

(Male subfertility)

The values are all abnormal for semen analysis, but it is argued that semen analysis does not test sperm function—some men with normal semen analysis are infertile. Sperm function can be tested by the capacitation test or the hamster oocyte penetration test. (Normal semen analysis values are: volume 2-5 ml, density 20-100 million/ml, <50% abnormal forms and motility >50%.)

#### Short stature is associated with

57

Androgen insensitivity and XXX genotype result in tall females. Klippel-Feil syndrome is associated with a short, webbed neck but not stature.

## There is a recognized association between Down's syndrome and 62 (Prenatal diagnosis)

Down's syndrome is a chromosomal disorder caused by trisomy 21 due to nondisjunction (95-98%) and 14/21, 21/22 and 21/21 translocations (2-5%). This syndrome is associated with mental retardation, brachycephaly, microcephaly, mongoloid facies, endocardial cushion defects (e.g. ASD), duodenal atresia (double bubble sign at scan), single palmer crease, short middle phalanx of the fifth finger, infertile boys, subfertile girls etc. Cardiac defects (present in 40%) are the main cause of early death.

#### References

James D. Genetic counselling. In: James DK, Steer PJ, Weiner CP, Gonik B, eds. High Risk Prognancy Management Options. London: WB Saunders Company, 1994; 9-20.Neilson JP, Antenatal diagnosis of fetal abnormality. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 121-139.

# The following side effects match

65, 67, 69, 70

Digoxin may cause gastro-intestinal side effects and cardiac arrythmias but it is not associated with agranulocytosis. Heparin (not warfarin) is a cause of osteoporosis. Cimetidine does not cause mastalgia, but may cause gynaecomastia, agranulocytosis and impotence. Danazol causes acne in the user and may cause virilism of a female fetus. Bromocriptine causes hypotension.

### Reference

British National Formulary, 35; March 1998.

# Regarding contraception in late reproductive life 75, 76, 77

The pregnancy rate is 0-5 pregnancies per 100 women years. Contraception should be continued for 1 year after the last menstrual period in the over 50 age group. It should be continued for 2 years after the last menstrual period in this under 50 age group. HRT has no contraceptive action.

## References

Cogswell D, Randall S. Contraceptive advice for the perimenopausal woman. Trends in Urology, Gynaecology and Sexual Health. November/December, 1996; 46–54.

Gebbie A. Contraception for the over forties. Progress 12: 293-308.

Harper C. Contraception in the perimenopause. In: Contraception (Update Postgraduate Centre Series), Reed Healthcare Communications, 1995; 54–57.

#### Genetics

80, 83

The nucleotide bases of DNA are adenine, guanine, cytosine and thymidine. Bands in DNA occur between adenine and guanine, and cytosine and thymidine. Although the majority of genetic mutations are single base substitutions, more subtle rearrangements of a gene may alter the structure of the mRNA and the protein synthesis. Restriction endonucleases cut DNA at different sites. Exons are important in coding for genetic products. Alpha-1-antitrypsin is the product of a highly polymorphic gene locus called PI (protease inhibitor) containing about 75 alleles. The common or wild-type form of alpha-antitrypsin is called PI-M.

#### Reference

Weatherall DJ. The New Genetics and Clinical Practice, 3rd edn. Oxford: Oxford University Press, 1991; 39–102, 138–192.

#### ARDS

87, 88, 89, 90 (Perioperative complications in obstetrics and gynaecology, Report on Confidential Enquiries into Maternal Deaths in the United Kingdom 1991–1993) ARDS is commonly associated with sepsis (30–40% of cases) and aspiration of gastric contents (30–35% of cases). Mortality rates vary e.g. high (90%) with sepsis, low (10%) with fat embolism.

## Presumptive evidence of ovulation is indicated by

91, 92, 93, 95 (Menstrual cycle physiology)

Urinary pregnanediol excretion during the third week would be expected to rise.

## Listeria monocytogenes in pregnancy

96, 97, 101, 102 (Infection in pregnancy)

Listeria is associated with inadequately heated/reheated and cold foods. During pregnancy it most commonly affects the mother in the third trimester and may initially present as a flu-like illness (fever, backache, myalgia), if the backache is prominent it may mimic a UTI. It is occasionally associated with gastro-intestinal disturbances. Ampicillin is the drug of choice. It may cause an occasional miscarriage, but it is not a cause of recurrent miscarriages. In the affected neonate it may cause jaundice, purulent conjunctivitis, broncho-pneumonia, meningitis and encephalitis. It is associated with meconium-stained liquor.

#### Reference

The Chief Medical Officer. The diagnosis and treatment of suspected listeriosis in pregnancy. Report of a Working Group, 1992. PL/CMO (92) 19.

## Pelvic abscess is a recognized complication of

103, 104, 105, 106, 107 (Pelvic inflammatory disease)

Pyometra is usually an infection confined to the uterine cavity.

## The following are associated with an increased risk of fetal malformations

109 (Prenatal diagnosis)

Amniocentesis is associated with orthopaedic deformities. Other associations include paternal age over 50 (autosomal dominant mutations), advanced maternal age (chromosomal defects), maternal chronic alcoholism and a single umbilical artery (single umbilical vein is not). Poliomyelitis vaccine is not associated with fetal malformations.

#### References

MacLean AB and Cockburn F. Maternal and perinatal infection. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 477–493.

Wilkins-Haug L. Genetic disease and the fetus. In: Frederickson HL, Wilkins-Haug L., eds. Ob/Gin Secrets. Philadelphia: Hanley & Belfus, Inc., 1991; 207–210.

## Characteristic features of primary spasmodic dysmenorrhoea include 111, 112, 114, 115

It is associated with the ovulatory cycle and increased production of PGF<sub>2u</sub> in the endometrium. There is no association with prolactin or parathormone.

### Genetic counselling includes

Taking a detailed family history, discussing prenatal diagnosis, interpreting karyotypic reports etc. It neither attempts to eliminate bereditary disease through counselling nor always offer CVS or amniocentesis.

#### Reference

James D. Genetic counselling. In: James DK, Steer PJ. Weiner CP, Gonik B, eds. High Risk Pregnancy Management Options. London: WB Saunders Company. 1994; 9–20.

# Which of the following associations are correct

121, 122, 123, 125

47XXX is a super female. Testicular feminization is 46 XY. Turner's syndrome is 45 XO.

#### Reference

Neilson JP. Antenatal diagnosis of fetal abnormality. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn, Oxford: Blackwell Science, 1995; 221–239.

#### Ectopic pregnancy

129 (Ectopic pregnancy)

Although declining incidence is true of Scandinavia the incidence in the UK has been increasing. The incidence is 1:150 births. The risk of a further ectopic pregnancy is 15%.

#### Drugs in the neonate - match

130, 131, 132, 133, 134, 136 (Drugs in pregnancy)

Streptomycin can cause deafness due to VIIIth nerve damage.

## Peripartum cardiomyopathy

138, 141, 142

This rare condition (1/1 300-4000 deliveries) has a peak incidence 1-2 months postpartum. If cardiomegaly persists at 5 years mortality is in excess of 80%. It is more common with multiple pregnancies, eclampsia and multiparity in women over 30 years. It normally presents with signs of congestive cardiac failure (fatigue, breathlessness and oedema). It can be associated with emboli so some advise heparin prophylaxis. Treatment is supportive with anti-hypertensives and diuretics. If treatment fails heart transplantation may be necessary.

## Reference

Morrison WL, Petch MC. Peripartum cardiomyopathy. Hospital update. 1991. 693-698.

# Causes of raised HCG include

143, 144, 145, 146, 147

### CIN 3 is characterized by

148, 150, 151 (Premalignant disease of the cervix)

Lymph node deposits and invasion through the basement membrane imply carcinoma. There are no histological changes beneath the basement membrane.

## Oligohydramnios is characteristically associated with

153, 154, 155 (Polyhydramnios/oligohydramnios)

Oligohydramnios is also associated with IUGR (83%), increased fetal distress in labour and meconium aspiration.

## Reference

Stark C. Disorders of the amniotic fluid. In: Frederickson HL, Wilkins-Haug L, eds, Ob/Gyn Secrets. Philadelphia: Hanley & Belfus, Inc., 1991; 217–220.

# The levonorgestrel loaded IUCD

162, 163, 164, 167 (Contraception and sterilization)

Retains contraceptive efficacy for 5-8 years. There is no evidence to support weight gain.

# References

Luukkainen T. The levonorgestrel-releasing IUD. The British Journal of Family Planning, 1993; 19: 221–224.

Sturridge F, Guillebaud J. Gynaecological aspects of levonorgestrel-releasing intrauterine system. British Journal of Obstetrics and Gynaecology. 1997; 104: 285–289.

# In amniotic fluid

170, 171, 172

Phosphatidyl glycerol indicates lung maturity. A lecithin-sphingomyelin ratio of 2:1 indicates fetal lung maturity and this is usually reached by 33-34 weeks. Despite an adequate ratio, maturation delay is found in maternal diabetes, renal disease and identical twins.

## References

Gibson AT. Surfactant and the neonatal lung. British Journal of Hospital Medicine 1997, 58: 381–397.

Ritchie JWK. The fetus, placenta and amniotic fluid. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 73–86.

Roberton NRC. Developments in neonatal paediatric practice. In: Hull D, ed. Recent Advances in Paediatrics, No. 6. Edinburgh: Churchill Livingstone, 1981; 13-50.

## The following fall after the menopause

175, 177, 179 (Menopause)

HDL falls but coronary heart disease increases. Urinary calcium/creatinine ratio increases in association with increasing bone metabolism. Free (serum) testosterone increases because of a fall in the levels of SHBG, but total testosterone levels are lower because of a decreased peripheral conversion of androstenedione.

# In pregnancy above 35 years old the incidence of the following are increased 183, 187

There is no association with post-maturity, anencephaly, spina bifida, prolonged labour or breech. It is associated with dizygotic twins. Perinatal death is increased by three times. Other problems include increased hypertension and other medical problems, arthritis, thromboembolism, fibroids, chromosomal abnormality in the fetus, operative delivery (Caesarean section five times increase), preterm delivery (four times increase) etc.

## Reference

Beazley JM. Special circumstances affecting labour. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 312–332.

# Toxoplasmosis infection in pregnancy

188, 189, 191, 194 (Infection in pregnancy)

Toxoplasmosis is usually caused by ingestion of raw or undercooked meat, but it can occur from food contaminated by cat faeces. Effective treatment can be offered (drugs/termination). The chances of the fetus being affected are 6-15% in the first and 45-65% in the second trimester. Infection only occurs during the primary parasitaemia, so there is no risk from women who are seropositive or who have given birth to an affected baby previously. It rarely causes abortion.

## References

Gravett MG, Sampson JE. Other infectious conditions. In: James DK, Steer PJ, Weiner CP, Gonik B, eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994; 509–550.

MacLean AB, Cockburn F. Maternal and perinatal infection. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 477-493.

## The following statements relate to pelvic inflammatory disease (PID)

195, 196, 197, 198, 201 (Pelvic inflammatory disease)

15% with laparoscopically proven PID have Fitz-Hugh-Curtis syndrome and 33% will have another episode within a year.

## Reference

Bevan C. Pelvic inflammatory disease. RCOG PACE review 98/04.

## Folic acid deficiency in pregnancy 202

Folate deficiency in pregnancy is known to be associated with anticonvulsant therapy, sickle cell disease, maternal megaloblastic anaemia, Crohn's disease, coeliac disease (not Hirshsprung's) and fetal abnormalities. Neural tube defects are associated with, not caused by, folate deficiency.

## Reference

Letsky EA, Warwick R. Haematological problems. In: James DK, Steer PJ, Weiner CP, Gonik B. eds. High Risk pregnancy Management Options. London: WB Saunders Company, 1994; 337–372.

## With regard to ovarian carcinoma the following screening methods are beneficial

Ultrasound using colour flow doppler is not specific. CA 125 is non-specific, but if elevated may act as a marker for recurrence. Only 5% of ovarian carcinomas are thought to arise by inheritance.

#### Pethidine

209, 210, 211 (Analgesia/anaesthesia in labour)

Pethidine is sedative. It is metabolized to norpethidine, which has convulsant properties so should be avoided in pre-eclampsia. Ranitidine or other antacids should be administered together with pethidine, because pethidine delays gastric emptying thus increasing the risk of Mendelson's syndrome.

## References

British National Formulary 35; March 1998

Morgan B. Maternal anaesthesia and analgesia in labour. In: James DK, Steer PJ, Weiner CP, Gonik B. eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994; 1101–1118.

# The following drugs are associated with hirsutism

212, 213, 215 (Hirsutism)

## Placenta praevia

218, 219, 221, 223, 224 (Antepartum haemorrhage)

Placenta praevia occurs in less than 1% of pregnancies. Known associations include multiparity, previous Caesarean section and D&C. It classically presents with painless vaginal bleeding at 35 weeks. Maternal morbidity and mortality are increased. Fetal and neonatal complications include prematurity, IUGR, fetal anaemia, RDS (increased by 22%) and unexpected intrauterine death. Low grade placenta praevia is not a contraindication to vaginal delivery.

## Reference

Stirrat GM. Aids to Obstetrics and Gynaecology for MRCOG, 4th edn. Churchill Livingstone, 1997; 118–120.

#### Atelectasis

227, 228 (Perioperative complications)

Atelectasis is common, especially in smokers where it is more aggressive. It may be associated with secondary infection.

## Breech delivery

229, 231, 234 (Breech)

The risk of cord prolapse in labour is highest with footling breech presentation, hence the indication for caesarean section. Vaginal delivery in breech presentation is not impossible in women with a flat sacrum, but caution should be exercised as the risk of feto-pelvic disproportion is higher. Estimated fetal weight and pelvic dimensions are more important than primigravidity in predicting the chance of successful vaginal breech delivery. In labour the membranes should be kept intact for as long as possible. Pushing should also be delayed for as long as possible in order to avoid fetal head entrapment by an incompletely dilated cervix. If this occurs incisions at 4 and 8 o'clock should be made. In the early 90s Caesarean section in England for breech presentation accounted for 15% of all Caesareans.

#### Reference

Saunders NJ. The management of breech presentation. British Journal of Hospital Medicine, 1996; 56(9): 456–458.

# Acceptable management options following sterilization request by a 32-year-old woman with uterine prolapse and CIN 3 240

Sterilization and treatment of the cervix will not help with her prolapse, nor will a cone biopsy. Abdominal hysterectomy is less preferable than a vaginal hysterectomy and repair, and is associated with higher morbidity especially in overweight women. A radical hysterectomy of any sort (Wertheim's/Schauta's) is not indicated. It could be argued that vaginal hysterectomy is the only acceptable management option.

## Transverse lie in late pregnancy is associated with 247, 248, 249, 250

Renal agenesis is associated with oligohydramnios. Others are prematurity (not IUGR), IUD, polyhydramnios, fundal attachment of the placenta, contracted pelvis, pelvic tumour, etc.

#### Reference

Ritchie JWK. Malpositions of the occiput and malpresentations. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 346–367.

## Precocious puberty

251, 253, 255

The familial constitutional type accounts for the majority. It is associated with Albright's syndrome, does not lead to precocious sexual activity and can also be treated with GnRH analogues. Sarcoma botryoides, although found in children, is not a cause. Waterhouse–Friedrichsen's syndrome is associated with meningococcaemia. Hypothyroidism is associated with delayed puberty.

# Recognized causes of post-partum shock without excessive visible blood loss include 258, 259, 260, 261, 262

Others are intravenous administration of local anaesthetics, myocardial infarction, diabetic coma, septic shock etc.

## Reference

Duff P, Kopelman JN. Sudden postpartum collapse. In: Studd J, ed. Progress in Obstetrics and Gynaecology, Volume 6. Edinburgh: Churchill Livingstone, 1987; 223–240.

#### Partial moles

263, 266 (Gestational trophoblastic disease)

Partial moles are triploid (two paternal, one maternal). 0.5% will need treatment for persistent trophoblastic disease. They all need follow up with serial HCG.

## Reference

Newlands ES. Trophoblastic disease. RCOG PACE review 96/10.

# Ovarian hyperstimulation syndrome may be associated with

269, 270, 271, 272 (Infertility - II)

May also be associated with clomiphene citrate.

## Reference

Management and prevention of ovarian hyperstimulation syndrome (OHSS). RCOG Guideline, 5 January 1995.

# RIF pain occurring at 32 weeks of pregnancy could be due to 273, 275

Salpingitis does not occur during pregnancy. Femoral or inguinal hernias can present with pain.

## Heparin

276, 279, 282, 283 (Coagulation and pregnancy)

Only therapeutic doses of heparin require monitoring. APTT is used to assess the therapeutic effect of heparin. APTT should be measured 4-6 hours after starting heparin therapy aiming for APTT ratio 1.5-2. Late onset (i.e. immunomediated) thrombocytopenia is associated with paradoxical thrombosis and could be life threatening. Low molecular weight heparin does not cause allergic reactions but may prolong the clotting time for longer and make epidurals relatively contraindicated.

#### References

Farquharson RG. Heparin, osteoporosis and pregnancy. British Journal of Hospital Medicine, 1997; 58: 205–207.

Horn EH. Anticoagulants in pregnancy. Current Obstetrics and Gynaecology, 1996; 6: 111–118.

#### The transformation zone of the cervix

284, 285, 287, 289 (Premalignant disease of the cervix)

The squamo-columnar junction is at its endocervical limit. It also contains squamous epithelium. Dysplasia is a histological diagnosis.

#### Breast cancer in pregnancy

290, 291, 292, 293 (Cancer in pregnancy)

Breast cancer in pregnancy is associated with early spread due to the increased blood supply, which adversely affects the prognosis. Radiotherapy is acceptable provided the fetus is adequately shielded. Pregnancy after breast cancer is allowed after 2 years (in the absence of recurrence) and has a good prognosis. There are no contraindications to breast feeding.

## Reference

Pregnancy after breast cancer. RCOG Guideline 12, July 1997.

#### Urine retention

298, 299, 300 (Urinary incontinence: urodynamics)

This is a relatively rare problem in gynaecological practice. Besides the causes mentioned it can occur as a result of using anti-cholinergic drugs and pelvic masses obstructing the urethra.

#### Reference

Khullar V, Cardozo L. Drugs and bladder. Current Obstetrics and Gynaecology, 1995; 5: 110–116.

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# PAPER THREE

Allow 2 hours for completion of this paper

#### Sickle cell disease in pregnancy

- 1. Is characterized by reduced globin molecule formation
- 2. In the UK, crisis occurs in 20% of pregnancies in affected women
  - 3. In the UK, crisis is associated with 1-2% maternal mortality
- Known complications include miscarriage, late fetal loss and type! IUGR
  - 5. Is associated with an increased incidence of urinary tract infection
- The risk of sickle cell crisis could be reduced by using TED stockings, keeping the woman warm and well hydrated
  - 7. Is a recognized contraindication to the use of prophylactic heparin in pregnancy
- 8. Spinal is preferred to epidural anaesthesia
- Perinatal mortality rate in UK is 4-6 times greater than that of the normal population
- Haemoglobin electrophoresis of the male partner of a woman with sickle cell trait is important before counselling
- 11. Antenatal diagnosis of sickle cell disease is currently available
- The preferred mode of contraception for women with sickle cell disease is the IUCD

## Colposcopy

- Is only considered to be adequate if the upper margin of the transformation zone is completely seen
- Glycogen is readily stained by iodine
- Acetic acid causes protein coagulation in cells and thus white staining of the abnormal squamous epithelium
- Colposcopically, HPV infection always shows features of intra-epithelial neoplasia
- 17. 'Schiller test negative' is synonymous with an iodine negative area
- With increasing severity of intra-epithelial neoplasia, the punctuation becomes increasingly fine
- Aceto-white changes indicate immature squamous metaplasia
- 20. Is an effective method in the diagnosis of VIN

# Match the following oral contraceptive pills with their correct constituents

21. Marvelon	30 pg ethinyloestradiol	150 µg desogestrel
22. Microgynon	30 µg ethinyloestradiol	150 µg levonorgestrel
23. Neogest	30 µg ethinyloestradiol	250 µg levonorgestrel
24. Femodene	30 ug ethinyloestradiol	150 µg gestodene

## Primary pruritus vulvae

- 25. Is commonly associated with perineal and anal itch
- 26. Is commonly caused by vaginal discharge
- 27. Improves at night
- 28. Vulval skin biopsy is mandatory for diagnosis
- 29. Psychological sequel are possible
- 30. Is commoner in young women

# The Confidential Enquiries into Maternal Deaths in the United Kingdom (1991-93) reported that

- 31. The mortality rate following Caesarean section was 1/1000 operations
- 32. Avoidable factors were present in over 75% of anaesthetic deaths
- 33. The use of antacids regularly during labour protects against Mendelson's syndrome
- 34. More women died from post-partum haemorrhage than antepartum haemorrhage
- 35. 50% of deaths from amniotic fluid embolism occurred before the onset of labour

## The risk of an endometrial cancer

- 36. In nulliparous women is twice that of a women with one child
- 37. Is raised in women on tamoxifen
- 38. Is increased in women with an early menarche
- 39. Is increased in women with a late menopause
- 40. Is decreased in women with diabetes mellitus
- 41. Is reduced by eigarette smoking
- 42. Is reduced by repeat prolonged lactation
- 43. Is increased in users of continuous combined HRT

### HIV infection

- 44. In the UK 200 babies are born each year to women infected with HIV
- 45. About 20% of babies born to women infected with HIV are themselves infected
- Over half of HIV infected women in London are known to their obstetricians at the time of delivery
- 47. Breastfeeding doubles the risk of HIV transmission in HIV infected women
- There is evidence that Caesarean delivery reduces the risk of the vertical transmission of HIV
- 49. The prevalence of HIV infection world-wide is 1/1000 adult population
- 50. Over 70% of HIV positive adults are thought to be women

## Colposuspension

- 51. Burch colposuspension for GSI has success rates up to 90% in the short-term
- 52. Is a first line management for a woman with predominantly stress symptoms
- 53. Has lower complication rates than vaginal operations
- 54. Can lead to detrusor instability
- 55. Can lead to worsening detrusor instability
- 56. Is associated with a 20% incidence of urinary retention postoperatively
- 57. Should be performed using a supra pubic catheter in order to keep the bladder empty during the operation
- 58. Is associated with increased risk of rectocoele postoperatively
- 59. May cause the occurrence of a cystocoele

## Chorioamnionitis

- 60. Anaerobic infection is characteristic
- 61. Cannot occur in the presence of intact membranes
- 62. Should be immediately delivered by Caesarean section

## Thyrotoxicosis in pregnancy and the neonate

- 63. Propyl-thiouracil is safe during breast feeding
- 64. Neonatal thyrotoxicosis does not occur if the mother is euthyroid
- 65. Neonatal thyrotoxicosis is normally apparent within 24 hours of birth
- 66. Neonatal thyrotoxicosis is reversible

# Vaginal carcinomas

- 67. Are most commonly secondary tumours
- 68. Constitute less than 0.1% of genital tract malignancies
- 69. The peak incidence is in the fourth and fifth decades
- 70. The minority are squamous

# In normal spontaneous labour

- 71. Artificial rupture of membranes shortens the length of first stage
- 72. 50% of women will rupture membranes spontaneously by 4 cm dilatation
- 73. Moulding of the fetal head implies cephalopelvic disproportion
- 74. Contraction strength is stronger in multiparous women
- 75. Cardiotocography has reduced intrapartum fetal loss
- 76. Endogenous oxytocin plays an early role

## Painful bleeding from the anus is a recognized feature of

- 77. Prolapsed rectum
- 78. Anal fissure
- 79. Endometriosis coli
- 80. Perianal haematoma
- 81. Recto-vaginal fistula

## Regarding barrier methods of contraception

- 82. They reduce the risk of transmission of herpes simplex infection
- 83. Use of the diaphragm is associated with an increased risk of male urinary tract infections
- 84. They reduce the risk of cross infection from the bacteria chlamydia
- 85. The advantages of latex barrier contraceptives over the polyurethane ones is that the second is easily destroyed by oil-based lubricants
- 86. They reduce the risk of transmission of hepatitis A, B, HIV and Neisseria infections during vaginal intercourse

## Jaundice appearing on the third day and still present at 2 weeks of age may be due to

- 87. Haemolytic disease of the newborn due to Rhesus incompatibility
- 88. Galactosaemia
- 89. Atresia of the bile duct
- 90. Phenylketonuria
- 91. Neonatal hyperthyroidism
- 92. Neonatal hypothyroidism
- 93. TORCH infection

## Phaeochromocytoma in pregnancy

- 94. Characteristically presents under 20 years of age
- 95. May produce paroxysms of hypertension
- 96. May secrete dopamine
- 97. Causes a high output of 5-hydroxyindoleacetic acid in the urine
- 98. Is a recognized cause of impaired glucose tolerance

## Regarding sexual function

- 99. Intact cognitive process is important for normal sexual function
- 100. Orgasm in the female partner is not necessary for fertilization to occur
- 101. 30% of women in their thirties are anorgasmic
- 102. Orgasmic dysfunction means sexual dysfunction
- 103. Intensive sexual counselling can improve sexual function in 90% of women
- 104. The commonest type of female sexual dysfunction is vaginismus
- 105. Dyspareunia can lead to sexual dysfunction
- 106. Sexual function can be improved by using vaginal lubricating creams

#### Acute inversion of the uterus

- 107. Is associated with preterm delivery
- 108. Is a recognized consequence of genital prolapse
- 109. Is more common in twin than singleton pregnancies
- 110. Is a recognized complication of ergometrine administration
- 111. Occurs more commonly when the placenta is sited in the fundus of the uterus
- 112. Is common after prolonged labour
- 113. Is treated by the hydrostatic method of O'Sullivan

## Common causes of vaginal discharge in a prepubertal girl include

- 114. Ectopic ureter
- 115. Neisseria gonorrhoae
- 116. Enterobius vermicularis
- 117. Foreign body
- 118. Ovarian dysgerminoma
- 119. Candidiasis

# Following PID there is an increased risk of

- 120. Hysterectomy
- 121. Ectopic pregnancy

# Gestational trophoblastic tumours

- 122. Can occur following a normal delivery
- 123. Are always choriocarcinoma after a full-term pregnancy
- 124. May occur after an ectopic pregnancy
- 125. May also secrete oestrogens and progesterones
- 126. Secrete multiple forms of hCG
- 127. May present with persistent post-partum haemorrhage

## Placental abruption

- 128. Is associated with a perinatal mortality rate of 9/1000 births
- 129. Has a recurrence rate of 16%
- 130. Is associated with cocaine use
- 131. When associated with premature labour should be treated with tocolytics
- 132. Can reliably be excluded by an ultrasound scan
- 133. If confirmed, expectant management is contraindicated
- 134. If large, is an indication for Caesarean section
- 135. Could lead to an increased level of D-dimers in blood
- 136. The amount of vaginal blood loss should be used as a guide for the estimation of the degree of abruption

## The following are elevated in women with polycystic ovarian disease

- 137. Serum FSH
- 138. Serum TRH
- 139. Serum 17-hydroxyprogesterone
- 140. Serum oestradiol
- 141. Serum androstendione

#### Perinatal death

- 142. Congenital abnormalities account for 20% of all causes
- 143. Unexplained deaths in neonates over 2500 g account for 40% of cases

# Peri-operative complications

- 144. Hypovolaemic shock may be the first manifestation of concealed post-operative bleeding
- 145. Postoperative internal bleeding may manifest with progressive anaemia
- 146. Pyrexia in the postoperative period may be a sign of an ileus
- 147. Pyrexia in the postoperative period may be a sign of haematoma
- 148. Pyrexia in the postoperative period may be associated with venous thrombosis
- 149. Once a vaginal vault haematoma has occurred it should be drained surgically

## The biophysical profile

- 150. The disadvantage of this test is that it only measures indices of chronic fetal hypoxia
- 151. The use of this test can reduce perinatal mortality by over 10 times in high risk pregnancies
- 152. Correlates closely with fetal umbilical cord blood pH
- 153. An amniotic fluid pocket depth of less than 8 cm late in the third trimester indicates chronic fetal hypoxia
- 154. Perinatal mortality exceeds 80/1000 when BPP is less than four
- 155. Biophysical profile has a higher specificity than the non-stress test

## Late complications of radiotherapy include

- 156. Leukopenia
- 157. Erythema
- 158. Bladder fibrosis
- 159. Vaginal stenosis

## Radiological tests in pregnancy

- 160. Fetal weight estimations via ultrasound are more accurate when the fetal weight is around 3500-4500 g
- 161. The radiation dose of CT pelvimetry is higher than with X-ray pelvimetry
- 162. The dose of radiation to which the women is exposed during a venogram is higher than the dose of radiation at pelvimetry
- 163. Ventilation/perfusion scan exposes the patient to a higher dose of radiation than X-ray pelvimetry

# Cervical cancer and pregnancy

- 164. Treatment should not be deferred as this worsens the prognosis
- 165. In early pregnancy cervical cancer is better treated by termination of pregnancy and radical surgery or radiotherapy
- 166. Vaginal delivery promotes direct spread
- 167. If diagnosed in late pregnancy a Caesarean Wertheim's hysterectomy should be performed or Caesarean section should be followed by radiotherapy after achieving fetal maturity at 36 weeks

#### Which of the following are true of Fallopian tube tumours?

- 168. The commonest are papillary adenosarcomas
- 169. May be suggested clinically by a watery vaginal discharge
- 170. May be suggested hystologically on a cervical smear
- 171. Surgery is the optimum treatment
- 172. Adjuvant chemotherapy may have a role

#### Cardiac disease and maternal mortality

- The mortality from myocardial infarction is higher in the puerperium compared with early pregnancy
- 174. In the early 1990s substandard care was documented in the majority of cases of death associated with cardiac disease
- 175. Mortality in women with Eisenmenger's syndrome approximates 100% when pregnancy is continued to term
- 176. In women with Eisenmenger's syndrome termination of pregnancy does not offer significant improvement in survival rates over continuation of pregnancy
- 177. Fallot's tetralogy is associated with mortality rates of over 40%

#### The following associations are correct

W. C. St. P. Transporter and Co.	a com distribus
179. Heparin	Two different types of thrombocytopenia
180. Syntocinon	Hypertensive crisis
181. Syntometrine	Cardiac arrest
182. Warfarin	5% risk of fetal chondrodysplasia
183. Chloramphenicol	Neonatal haemolysis
184. Sulphonamides	'Grey baby' syndrome
185. Anticonvulsants	Fetal neural tube defects
186. Nitrous oxide	Megaloblastic anaemia
187. Metronidazole	Oculogyric crisis

Fetal distress

## Minimal access surgery

178 Marcain

- 188. Is a cost effective alternative to laparotomy
- 189. Requires less postoperative analgesia than vaginal surgery
- 190. If visceral damage occurs during laparoscopic surgery, laparotomy is indicated
- Laparoscopically assisted vaginal hysterectomy is associated with lower intraoperative blood loss than open abdominal surgery

### Urge incontinence

- 192. This is an involuntary loss of urine preceded by a sudden strong desire to void
- Symptoms of stress, urge, urgency and frequency are highly specific for urge incontinence
- 194. Pelvic floor exercises are an effective form of treatment
- 195. Detrusor instability can only be diagnosed if cystometry shows an intravesical pressure rise >15 cm H<sub>2</sub>O at filling or on provocation
- Increased trabeculation of the bladder on cystoscopy could be a sign of detrusor instability

### Epidural analgesia

- 197. Is associated with long-term backache
- 198. Is relatively contraindicated within 12 hours of administration of low molecular weight heparin
- 199. Previous Caesarean delivery is a contraindication
- 200. Cardiorespiratory collapse is a known complication
- 201. Mendelson's syndrome is a known complication
- 202. Reduces pelvic floor muscle tone
- 203. Solely should be used for the treatment of hypertension in labour

# Regarding complications of IUCDs

- 204. Absent threads suggest expulsion or perforation
- 205. Absent threads are an indication for hysteroscopy
- 206. The commonest reason for an intrauterine pregnancy is partial expulsion of the coil
- 207. The incidence of expulsion is 1/1000 insertions
- 208. The incidence of PID in IUCD users after 20 days of insertion equals the background incidence for the population

# Amniocentesis assists in the diagnosis of

- 209. Tay-Sach's disease
- 210. Cystic fibrosis
- 211. Rhesus allo-immunization

#### Conditions associated with ulcerative vulval lesions include

- 212. Behcet's syndrome
- 213. Ulcerative colitis
- 214. Herpes simplex
- 215. Chancroid

Forty patients participated in a randomized controlled trial of complete bed rest versus ambulation in the management of proteinuric hypertension in pregnancy. The measurement of urinary oestriol (mmol/l) in the two groups was as follows

	Rested group	Ambulatory group
	(n = 20)	(n = 20)
Mean	52.1	365.6
SD	270.3	197.1
Range	180-1200	115-860
2 00	TALLER	1000 - 0.000

t = 2.08 Difference between means = 155.7 p = 0.022

The following statements are true

- 216. The standard error of the mean for the 'rested' group was 270.3
- 217. Patients were allocated alternately to 'ambulant' and 'rested' groups
- 218. The observed differences did not occur by chance
- 219. The value 't' refers to a test for the difference between the means
- 220. In the ambulant group 95% of the oestriol values were between 365.6 +/-197.1

### HRT is always contraindicated with

- 221. Recent history of breast cancer
- 222. Previous endometrial cancer
- 223. Previous DVT
- 224. Surgery
- 225. Diabetes mellitus

## A single Barr body is found in association with

- 226. Klinefelter's syndrome
- 227. Down's syndrome male
- 228. Turner's syndrome
- 229. Pituitary hypoplasia
- 230. Adrenogenital syndrome
- 231. Testicular feminization syndrome
- 232. Male with 21-hydroxylase deficiency
- 233. Superfemale

## Which of the following gastrointestinal associations are true?

234. Diverticulitis Intestinal fistula

235. Ulcerative colitis Radiologically detected 'skip lesions'

236. Crohn's disease Right sided hydronephrosis

Paralytic ileus Hypokalaemia

238. Prevention of colonic carcinoma HRT

### Achondroplasia

- 239. Can be excluded by a normal femur length at 18 weeks scan
- 240. Is the most common lethal anomaly
- 241. Survivors are usually infertile
- 242. Inheritance is autosomal recessive
- 243. Causes mental retardation
- 244. Can be diagnosed by amniocentesis

## The following are true associations

- 245. Abnormally high FSH level in the follicular phase of the menstrual cycle is associated with an increased risk of spontaneous miscarriage
- 246. Activated protein C resistance is associated with an increased risk of recurrent miscarriage
- 247. Women on immunosuppressive therapy have an increased incidence of spontaneous miscarriage

## The following placentally transmitted infections that harm the fetus may be linked

248. Cheddar cheese Listeria monocytogenes 249. Sheep faeces Toxoplasma gondii

250. Oysters Hepatitis A

251. Milking cows Chlamydia psittaci

# Magnesium sulphate

- 252. Causes respiratory depression before loss of deep tendon reflexes
- 253. Is proven to prevent eclamptic fits in pre-eclamptic women
- 254. Is excreted by the kidney, so doses must be reduced in women with protinuric hypertension
- 255. May cause diplopia, slurred speech and feelings of warmth
- 256. Overdose is treated with calcium carbonate

# The following features are found in idiopathic hirsutism

- 257. Increased FSH secretion
- 258. Decreased SHBG
- 259. Dexamethasone suppresses renal function
- 260. Idiopathic hirsutism may be treated successfully by the oral contraceptive pill
- 261. Idiopathic hirsutism may be treated with the loop diuretic spironolactone
- 262. Plasma testosterone > 4 μmol / 1

## Rubella

- 263. Infection occurring early in the second trimester has a less than 1% risk of neonatal rubella syndrome
- Once diagnosed immediate treatment with immunoglobulin reduces the risk of congenital malformation
- 265. The rubella haemagglutination inhibition test becomes positive within 4 days of the infection
- 266. Viraemia precedes the rash
- 267. Conjunctivitis is a characteristic feature

## Hyperprolactinaemia

- 268. Carbergoline has fewer side effects than bromocriptine
- 269. Bromocriptine may cause renal failure
- 270. Surgery is advocated for pituitary tumours with frontal lobe extension

## Regarding ovarian cysts

- A 4 cm endometrioma can be successfully treated with GnRH analogues
- 272. They are present in 6% of asymptomatic women
- 273. Functional cysts are more likely to regress in younger women
- 274. The risk of ovarian cysts being malignant in premenopausal women is about 2%
- 275. Ovarian cysts can be confirmed to be benign if CA 125 levels are normal
- 276. Ovarian cysts often develop as luteinized unruptured follieles which occur in about 10% of cycles in infertile couples

# Diagnostic amniocentesis at 16 weeks gestation is associated with an increased incidence of

- 277. Preterm labour
- 278. Talipes equinovarous

#### The umbilical cord

- 279. Contains nerves
- 280. Contains lymphatics
- 281. Vellamentous insertion is associated with congenital abnormality of the fetus
- 282. Fetal abnormalities are found in 40% cases of single umbilical artery
- 283. Umbilical artery blood flow is a reliable predictor of fetal distress
- During cordocentesis, the transplacental approach is usually preferred with an anterior placenta
- 285. Chances of cord prolapse increase greatly if the length is more than 35 cm

#### 64 PAPER THREE

# A 25-year-old smoker at 32 weeks is found to have a growth-retarded baby on one scan. Which of the following may be associated with these findings?

- 286. Increased fetal plasma viscosity
- 287. A decrease in placental production of thromboxane and prostacyclin
- 288. Ingestion of more than 120 g alcohol daily
- 289. Essential hypertension
- 290. Oligohydramnios

## and what would you do if a subsequent Doppler showed reversed end-diastolic flow?

- 291. Deliver immediately
- 292. Give steroids and then deliver immediately

### Breastfeeding

293. Is associated with less than a 2% chance of pregnancy if the woman is amenorrhoeic

## Dysfunctional uterine bleeding

- 294. Mefenamic acid reduces mean blood loss by 10%
- 295. In the short term hysteroscopic treatment is superior to hysterectomy
- 296. TCRE is safer than ELA
- Progestins are more effective than danazol in endometrial preparation for a TCRE/ ELA
- 298. Tranexamic acid reduces mean blood loss by over 50%

#### PID

- 299. Chlamydia have been isolated in over 50% of cases of PID in the UK
- 300. Neisseria can be isolated in about 15% of cases of PID in the UK

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# ANSWERS TO PAPER THREE

The numbers of the correct answers are given

### Sickle cell disease in pregnancy

3, 5, 6, 9, 10, 11

Sickle cell disease is characterized by the formation of an abnormal globin molecule (substitution of valine for glutamic acid residue at amino acid 6 position of the beta-globin chain). In the UK, sickle cell crisis occurs in 35% of affected pregnant women and is associated with 1–2% maternal mortality and a 4–6 times increase in perinatal mortality. Miscarriage, late fetal loss, type 2 IUGR, proteinuric hypertension, sepsis and thrombo-embolism are known complications. The use of heparin in prophylactic doses should be considered if the risk of thrombo-embolism is unacceptably high. Epidural is preferred because of a lower risk of hypotension. Antenatal diagnosis is currently available via CVS, amniocentesis and cordocentesis and recombinant DNA techniques. The IUCD is associated with a theoretical risk of infection and crisis. The POP is recommended.

### Reference

Howard RJ, Tuck SM. Sickle cell disease and pregnancy. Current Obstetrics and Gynaecology, 1995; 5: 36–40.

#### Colposcopy

13, 14, 15 (Premalignant disease of the cervix)

Colposcopic features of intraepithelial neoplasia are not necessarily present with HPV infection. The 'Schiller test negative' is synonymous with positive iodine staining. With increasing severity of intra-epithelial neoplasia the punctuation becomes coarser. Aceto-white staining may be present without immature squamous metaplasia, but with increasing immaturity aceto-white staining becomes more intense. Colposcopy is much less effective for the diagnosis of VIN than for CIN.

## Reservence

Shafi MI. Controversies in colposcopy. British Journal of Hospital Medicine, 1997; 58: 246–247.

#### Match

21. 22

Neogest is a progesterone-only preparation. Femodene contains half the dose of gestodene stated.

#### Reference

Mims. October 1996, 298.

### Primary pruritus vulvae

29 (Pruritus vulvae)

Primary pruritus vulvae is commoner in older women. It has no apparent primary cause and does not generally involve the anal area. Itching does not improve at night and when prolonged it could lead to depression and suicidal thoughts. Vulval skin biopsy is unnecessary unless a premalignant condition or malignancy is suspected.

### References

Evans S. Vulval skin disease and the gynaecologist. British Journal of Hospital Medicine, 1997; 57: 579–581.

Iffland C, Marwood R. Gynaecological aspects of vulval disease. Obstetrics and gynaecology. In: Maternal and Child Health. 1996; May: 130–135.

Maclean AB. Precursors of vulval cancers. Current Obstetrics and Gynaecology, 1993; 3: 149–156.

Sarhanis P, Blackett AD. Sharp F. Intraepithelial neoplasia of the anogenital area: a multicentric condition. Current Obstetrics and Gynaecology, 1996; 6: 92-97.

# The Confidential Enquiries into Maternal Deaths in the United Kingdom (1991-93) reported that

32, 34 (The Confidential Enquiries into Maternal Deaths in the United Kingdom (1991–93))

The mortality from Caesarean section was 0.39/1000 (103 in total). Use of antacids cannot protect from Mendelson's syndrome. Only 40% of deaths from amniotic fluid embolism occurred before delivery. Avoidable factors were present in 85% of anaesthetic deaths. Eight women died from PPH compared to seven from APH.

#### Reference

Report on Confidential Enquiries into Maternal Deaths in the United Kingdom, 1991– 1993. London: HMSO, 1996.

#### The risk of an endometrial cancer

36, 37, 38, 39, 41, 42 (Uterine tumours)

The risk of developing endometrial cancer is affected by a number of factors. The risk is increased 7.5 times in Tamoxifen users, is doubled if menarche has occurred before 12 years and in diabetic patients. It is also increased in nulliparous, obese and hypertensive women and those with hyper-oestrogenic conditions. Prolonged lactation with increased parity are protective factors as is use of combined oral contraceptives and continuous combined HRT. The incidence of an endometrial cancer in smokers is 10–30% lower than in non-smokers.

### References

Lawton FG. Early endometrial carcinoma—no more TAH, BSO and cuff. In: Studd J, ed. Progress in Obstetrics and Gynaecology. Volume 10. Edinburgh: Churchill Livingstone, 1993; 403–413.

Lawton F. The management of endometrial cancer. British Journal of Obstetrics and Gynaecology, 1997; 104: 127–134.

Rose P. Endometrial carcinoma. The New England Journal of Medicine, 1996; 335: 640–648.
Semple D. Endometrial cancer. British Journal of Hospital Medicine, 1997; 57: 260–262.

#### HIV infection

#### 44, 45, 47, 48

The prevalence of HIV infection around the world is 1:250. Around 40% of the affected population are women. The incidence of HIV positivity varies among countries and urban and rural population. Only 16% of HIV positive women in London are known to care givers at the time of delivery. Caesarean section reduces the risk of transmission of HIV infection to the baby by 50%.

#### References

Johnstone FD. HIV and pregnancy. British Journal of Obstetrics and Gynaecology, 1996; 103: 1184–1190.

Mercey D, Nicoll A. We should routinely offer HIV screening in pregnancy. British Journal of Obstetrics and Gynaecology, 1998; 105: 249–251.

Newell M-L, Peckham CS. HIV-1 infection in pregnancy. RCOG PACE review. 96/05.
Olaitan A, Johnson M. Gynaecological problems in women infected with HIV.

Current Obstetrics and Gynaecology, 1994; 4: 189-192.

## Colposuspension

51, 54, 55, 56 (Urinary incontinence: urodynamics)

The diagnosis of GSI should not be presumed in all patients with predominantly stress incontinence symptoms. The first line of management in such a patient is urodynamic assessment and/or non-surgical methods where appropriate. After this colposuspension should be considered for GSI. A urethral catheter is needed during this operation, with an inflated balloon in order to ensure correct placement of stitches and adequate bladder neck elevation. This operation has high success rate, but also a high incidence of complications, such as enterocoele, urinary retention, de novo detrusor instability. This operation can cure a cystocoele.

#### References

Cardozo L, Hill S. Urinary incontinence. RCOG PACE review 96/09.

Eckford SD, Keane D. Surgical treatment of urinary stress incontinence. British Journal of Hospital Medicine, 1992; 48: 308–313.

Hilton P. The Stamey procedure for stress incontinence. Current Obstetrics and Gynaecology, 1991; 1: 103–108.

Monga AK, Stanton SL. The Burch colposuspension. Current Obstetrics and Gynaecology, 1994; 4: 210–214.

#### Chorioamnionitis

#### 60

It can occur with intact membranes. Vaginal delivery is the preferred method.

## Reference

Divers M. Infection and preterm labour, RCOG PACE, review 95/12.

# Thyrotoxicosis in pregnancy and the neonate

66 (Thyroid and pregnancy)

Breastfeeding is contraindicated with antithyroid drugs. Although rare, neonatal

thyrotoxicosis is caused by maternal thyroid-stimulating antibodies (IgG) which readily cross the placenta. If they are in sufficient quantities they may stimulate the baby's thyroid making it thyrotoxic. These antibodies can be present in women with a history of Grave's disease who may be hypo or euthyroid at the time. Following birth, neonatal thyrotoxicosis may be apparent immediately (untreated women), but it is more likely to be delayed for a few days (the effect of maternal antithyroid drugs) or weeks (transplacental immunoglobulins initially block the thyroid-stimulating antibodies before they are broken down). Neonatal thyrotoxicosis is transient and normally regresses in 2-6 months as the antibodies are broken down.

#### Reference

Ritchie JKW. Diabetes and other endocrine diseases complicating pregnancy. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 262–276.

### Vaginal carcinomas

67 (Vaginal tumours)

The peak incidence of the vaginal cancer is in sixth and seventh decades. They constitute 1-2% of genital tract malignancies, 90% are squamous.

## In normal spontaneous labour

71 (Normal labour)

In the majority of women, the membranes remain intact at 4 cm dilatation. Moulding is a normal phenomenon of labour and does not necessarily mean cephalopelvic disproportion. Contraction strength is stronger in nulliparous women. Despite its widespread use, cardiotocography has not reduced intra-partum fetal loss. Prostaglandins play an early role in labour, oxytocin comes into action in the later part.

## References

Beazley JM. Natural labour and its active management. In: Whitfield CR, ed. Dewharst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 293–311.

Care of the fetus during labour. In: Enkin MW, Keirse MJNC, Renfrew MJ, Neilson JP, eds. A Guide to Effective Care in Pregnancy and Childbirth, 2nd edn. Oxford: Oxford University Press, 1995; 207–220.

# Painful bleeding from the anus is a recognized feature of 78, 79, 80

A prolapsed rectum is not usually associated with bleeding. Recto-vaginal fistulas are associated with faeculant vaginal discharge. If untreated perianal haematoma may rupture to discharge some clotted blood.

## Reference

The rectum. The anus and anal canal. In: Mann CV, Russell RCG, ed. Bailey & Love's Short Practice of Surgery, 21st edn. London: Chapman & Hall Medical, 1992; 1215-1239, 1240-1275.

### Regarding barrier methods of contraception

82 (Contraception and sterilization)

Use of the diaphragm is associated with an increased risk of female UTIs. Chlamydia is not a bacteria. Latex barrier contraceptives are easily destroyed by oil-based lubricants. Hepatitis A is transmitted via the oral-faecal route

#### Reference.

Smith C. Barrier methods. In: Contraception. (Update Postgraduate Centre Series).Reed Healthcare Communications, 1995; 33–36.

# Jaundice appearing on the third day and still present at 2 weeks of age may be due to 88, 89, 92 (Neonatology)

Neonatal jaundice appears within 24 hours in Rh-incompatibility and TORCH infection. Other causes are breast milk jaundice and neonatal hepatitis syndrome.

#### Reference

Jaundice in the newborn infant. In: Chamberlain GVP, ed. Obstetrics by Ten Teachers, 16th edn. Oxford: Edward Arnold, 1995; 318.

#### Phaeochromocytoma in pregnancy

95, 98 (Pre-eclampsia, eclampsia and phaeochromocytoma)

It is a rare cause of hypertension, diagnosed by history and examination (sweating, palpitation, paroxysmal hypertension), elevated urinary vanilyl mandellic acid, renal scan or MRI. Phaeochromocytomas secrete catecholamines. Surgical removal under alpha-adrenergic blockade is the treatment of choice.

## Reference

Redman C. Hypertension in pregnancy. In: De Swiet M, ed. Medical Disorders in Obstetrics Practice, 2nd edn. Oxford: Blackwell Scientific Publications, 1990; 249–305.

## Regarding sexual function

99, 100, 105, 106 (Sexual function)

Anorgasmia is not uncommon in women. About 10% of women in their thirties are anorgasmic. Orgasmic dysfunction and sexual dysfunction are not synonymous. Intensive counselling and education can improve sexual function in 65%. Frigidity is the commonest type of sexual dysfunction in women.

# Acute inversion of the uterus

109, 111, 113

There is no direct relation with preterm delivery, genital prolapse or ergometrine administration. It is not common, but occurs more frequently after prolonged labour.

## Reference

Beazley JM. Complications of the third stage of labour. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn., Oxford: Blackwell Science, 1995; 368–376.

#### Common causes of vaginal discharge in a prepubertal girl

116 (Paediatric gynaecology)

Although all the other conditions (except ovarian dysgerminoma) can cause vaginal discharge they are uncommon causes. Threadworms (Enterobius vermicularis) are one of the commonest causes along with vulvitis and secondary vaginitis (due to poor hygeine) and amoebiasis. Other causes of discharge include systemic corticosteroid therapy (giving rise to candidiasis) and sarcoma botryoides.

### Following PID there is an increased risk of

120, 121 (Pelvic inflammatory disease)

The increased risk of hysterectomy is eight times, that of an ectopic is seven times.

#### Reference

Joshi UY. Pelvic inflammatory disease. Hospital Update, February, 1993; 80-88.

#### Gestational trophoblastic tumours

122, 123, 124, 125, 126, 127 (Gestational trophoblastic disease) Incidence following a normal delivery is 1 in 40 000 - 50 000.

#### Reference

Newlands ES. Trophoblastic disease. RCOG PACE review 96/10.

#### Placental abruption

128, 130, 135 (Antepartum haemorrhage)

Placental abruption has a recurrence rate of 6-10%. It is associated with cigarette smoking, cocaine use, pre-eclampsia and sudden uterine decompression. Its maternal complications include hypovolaemic shock (and associated coagulopathy), acute renal failure, and post-partum haemorrhage. Expectant management is acceptable if the fetal condition is satisfactory and greater maturity is to be achieved, but tocolytics are contraindicated. Ultrasound scan can easily miss out small abruptions or abruption of the posteriorly sited placenta and therefore should not be relied upon for diagnosis. Immediate delivery is necessary if signs of fetal compromise are present, but Caesarean section is not necessary if the fetus is dead. The revealed blood loss is a poor guide to the degree of placental abruption.

## Reference

Roye JC, Malley RJ. Bleeding in late pregnancy. In: James DK, Steer PJ, Weiner CP, Gonik B. eds. High Risk Pregnancy Management Options. London: WB Saunders Company. 1994; 119–136.

# The following are elevated in women with polycystic ovarian disease (PCOD)

141 (Polycystic ovarian disease [PCOD])

Levels of LH, testosterone, androstendione, oestrone are elevated. Levels of FSH, oestradiol, progesterone, 17-hydroxyprogesterone are reduced.

#### Perinatal death

#### 142

The commonest cause of perinatal death is asphyxia, the second and third are congenital anomalies (20%) and prematurity (15%) respectively. In neonates weighing over 2500 g unexplained deaths constitute 10% of cases.

## Reference

Stirrat GM. Aids to Obstetrics and Gynaecology for MRCOG, 4th edn. Edinburgh: Churchill Livingstone, 1997; 165–168.

#### Peri-operative complications

144, 145, 146, 147, 148 (Perioperative complications in obstetrics and gynaecology)
Spontaneous drainage of a vaginal vault haematoma is possible. Haematomas that are infected may give rise to a temperature.

## The biophysical profile

151, 152, 155 (Biophysical profile - assessing the at risk fetus)

The major advantage of the biophysical profile is that it encompasses measurements of the markers of both acute and chronic fetal hypoxia. It is a highly reliable assessment of fetal well-being. The incidence of false negative result of biophysical scoring has been shown to be 0.8/1000, whilst the incidence of false negative result of non-stress test (CTG) is three per 1000. When less than four it is associated with a perinatal mortality more than 20 per 1000. Amniotic fluid pocket depth of 2–8 cm is normal.

## Reference

Harman C, Menticoglan S, Manning F, Albar H, Morrison I. Prenatal fetal monitoring: Abnormalities of fetal behavior. In: James DK, Steer PJ, Weiner CP, Gonik B. eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994; 693–734.

# Late complications of radiotherapy include

158, 159 (Radiotherapy)

Leukopenia, erythropenia, thrombocytopenia and erythema are early complications of radiotherapy, whilst bladder fibrosis, vaginal stenosis and fistula formation are late complications.

## Reference

Sproston ARM. Non-surgical treatment of cervical carcinoma. British Journal of Hospital Medicine, 1994; 52: 30–34.

## Radiological tests in pregnancy

Fetal weight estimation via ultrasound is less accurate at the extremes of weight. The radiation dose of CT pelvimetry (for a similar amount of information) is lower than that of X-ray pelvimetry. The radiation exposure at venogram is 0.5 rad vs. 0.5-1.1 rad at X-ray pelvimetry. The dose of radiation of a ventilation/perfusion scan is about one tenth of that of an X-ray pelvimetry.

#### Cervical cancer and pregnancy

165 (Cancer in pregnancy)

In general a delay in the treatment of cervical cancer in pregnancy adversely affects the prognosis. Thus it should be commenced as soon as possible, but due to the nature of treatment (fetal damage or potential loss of fertility) certain delays are acceptable. Vaginal delivery promotes vascular and lymphatic spread. When cancer is diagnosed in early pregnancy termination of pregnancy and surgery or radiotherapy are advisable. In late pregnancy delaying delivery by 1–2 weeks (until 28 weeks) could make significant differences to the fetal maturity which might be acceptable to the woman.

## The following are true of Fallopian tube tumours

169, 171, 172 (Fallopian tubes)

The commonest are adenocarcinomas which can be suggested cytologically on a cervical smear.

#### Cardiac disease and maternal mortality

173 (Cardiac disease in pregnancy)

Myocardial infarction is associated with 40-50% mortality in the puerperium but rarely causes deaths in the first trimester. In the early 1990s, substandard care was documented in 27% of cases of maternal death associated with cardiac disease. In women with Eisenmenger's syndrome the mortality is 30-50% if the pregnancy is continued to term and 7% if terminated. Fallot's tetralogy is associated with mortality rates of 4-20%.

#### References

De Swiet M, ed. Medical Disorders in Obstetric Practice. Oxford: Blackwell Scientific Publications. 1994.

Oakley CM. Pregnancy and heart disease. British Journal of Hospital Medicine, 1996; 55: 7: 423-426

# The following associations are correct

179, 181, 182, 185, 186

Marcain is not known to be associated with fetal distress, though an epidural block can cause fetal heart decelerations. Heparin is associated with immediate-onset (i.e. non-idiosyncratic) thrombocytopenia, which has little clinical importance, and late onset (i.e. immunomediated) thrombocytopenia. Syntometrine is known to be associated with hypertensive crisis, syntocinon is not. Cardiac arrest is a rare complication of syntometrin when a high bolus dose is given. Sulphonamides used in late pregnancy are associated with neonatal haemolysis and chloramphenicol is associated with 'grey baby' syndrome. Continuous or repeat usage of nitrous oxide interferes with B12 metabolism and can cause megaloblastic anaemia. Metoclopramide is associated with oculogyric crisis.

#### Reference

British National Formulary, 35; March 1998.

## Minimal access surgery

188, 191 (Minimally invasive surgery)

Analgesic requirements are similar to vaginal surgery. Sometimes visceral damage can be repaired laparoscopically.

#### 74 ANSWERS - PAPER THREE

#### Urge incontinence

192, 195, 196 (Urinary incontinence: urodynamics)

The named or any other symptoms are non-specific, Pelvic floor exercises are for treatment of weakness of pelvic floor muscles associated with GSI.

## References

Kelleher CJ, Cardozo LD. The conservative management of female urinary incontinence. The Year Book of The RCOG 1994, 123–135.

Cardozo LD, Hill S. Urinary incontinence. RCOG PACE review 96/09.

Richmond D. The incontinent women: 1. British Journal of Hospital Medicine, 1993; 50: 418–423.

Richmond D. The incontinent women: 2. British Journal of Hospital Medicine, 1993; 50: 490-492.

#### Epidural analgesia

198, 200, 202 (Analgesia/anesthesia in labour)

Epidurals are not associated with long-term back problems. An epidural can safely be used following a Caesarean section. Mendelson's syndrome is a known complication of general anaesthesia. Epidurals reduce the tone of the pelvic floor muscles and may be associated with an increased incidence of fetal head malrotation and instrumental delivery (not conclusive). They are associated with more frequent use of oxytocin in labour, but do not reduce its efficacy. Although they reduce peripheral resistance one should not rely exclusively on their anti-hypotensive effect and antihypertensive therapy should be administered in addition.

#### References

Collins RE, Morgan BM. Regional anaesthesia and obstetrics. Current Obstetrics and Gynaecology, 1995; 5: 91–97.

Enkin M, Keirse MJNC, Renfrew M, Neilson J. A Guide to Effective Care in Pregnancy and Childbirth, 2nd edn. Oxford: Oxford University Press, 1995; 247–261.

Lewis M. Epidural and spinal anaesthesia in labour. Current Obstetrics and Gynaecology, 1996; 6: 67–73.

Russell R, Reynolds F. Back pain, pregnancy, and childbirth. BMJ, 1997; 314: 1062-1063.

## Regarding complications of IUCD

206, 207, 208 (Contraception and sterilization)

Threads can be retracted into the uterine cavity whilst the IUCD remains in situ. They can effectively be detected by scan when normally sited.

## References

Newton J. IUD safety and acceptability: recent advances. Current Obstetrics and Gynaecology, 1993; 3: 28–36.

Newton J. Intrauterine contraceptive devices (IUCDs) and the levonorgestrel intrauterine system (IUS). In: Contraception. (Update Postgraduate Centre Series), Reed Healthcare Communications, 1995; 28–32.

#### Amniocentesis assists in the diagnosis of

209, 210 (Prenatal diagnosis)

It helps in monitoring rhesus allo-immunization, not diagnosing it.

## Conditions associated with ulcerative vulval lesions include

212, 214, 215

Other associations are Crohn's disease and syphilis.

## In a randomized controlled trial, the following statements are true 218, 219

The standard error of the mean is not the same as the standard deviation (standard error of the mean = SD/n). It was a randomized trial. Only 68% (1 SD) of the oestriol values were between 365.6 +/- 197.1 (95% values = 2 SD).

#### Reference

Swinscow TDV, Campbell MJ. Statistics at Square One, 8th edn. London: BMJ Publishing Group, 1996; 11–30, 52–85.

#### HRT is always contraindicated with

## 221 (Hormone replacement therapy)

There are some women with breast cancer who request HRT, many would argue that this is an absolute contraindication. Hypertension, PE, DVT and endometrial cancer are no longer considered to be contraindications. Surgery and diabetes mellitus are not contraindications.

## A single Barr body is found in association with 226, 229, 230

Barr bodies occur in association with an inactive second X chromosome, which condenses into a heterochromatic mass. A male with Down's syndrome (47 XY) is most likely to have an extra chromosome 21, and will have only one X chromosome. Turner's syndrome (45 XO) has no inactive X chromosome. 47 XXY has one inactive X chromosome. A 'woman' with testicular feminization syndrome is genetically male (46 XY). A male with 21-hydroxylase deficiency has a normal genotype (46 XY). A superfemale (XXX) will have two Barr bodies.

## Reference

Chromosomal basis of heredity. In: Thompson MW, McInnes RR, Willard HF, eds. Thompson & Thompson Genetic Medicine, 5th edn. Philadelphia: WB Saunders Company, 1991; 13–30.

# Which of the following gastrointestinal associations are true? 234, 236, 237, 238

Fistula formation occurs in 5% cases of diverticulitis. 'Skip lesions' are a feature of Crohn's disease. The radiological features of ulcerative colitis are loss of haustration especially in the distal colon (earliest sign), ulceration, pseudopolyposis and pipe-stem colon (in chronic cases). A recent report in *The Lancet* suggests that HRT reduces the risk of colonic carcinoma.

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#### Reference

Irving MH, Catchpole B. ABC of colorectal diseases. BMJ Publishing Group, 1992;

#### Achondroplasia

Achondroplasia is an autosomal dominant condition characterized by short extremities, which can be diagnosed by measuring femur length in the third trimester. It is neither lethal, nor it is associated with infertility or mental retardation.

#### Reference

Barr DGD, Goel KM. Disorders of bone and collagen. In: Campbell AGM, McIntosh N, eds. Forfar and Arneil's Textbook of Paediatrics, 4th edn, 1992; 1621–1691.

### The following are true associations

246 (Abortion spontaneous/recurrent)

There may be an association with high LH levels in the follicular phase. There is no evidence to support the association with immunosuppressive therapy.

### The following placentally transmitted infections that harm the fetus may be linked

Listeria monocytogenes is associated with soft cheese, påté, undercooked chicken and hot dogs and prepared foods like coleslaw. Toxoplasma gondii can be transmitted indirectly by eating contaminated meat from sheep, cows and pigs. It can also be transmitted directly by contact with cat faeces. Chlamydia psitraci is associated with sheep and milking them. Oysters and raw shellfish are associated with hepatitis A but this does not affect the fetus.

## Magnesium sulphate

#### 255

Deep tendon reflexes are lost before respiratory depression occurs. It reduces the incidence of further fits in eclampsia (Collaborative Eclampsia Trial), but it has not yet been proved to be useful in preventing the first fit. It is excreted by the kidney and doses need to be reduced if renal function is poor (oliguria). Overdoses are treated with calcium gluconate.

#### Reference

Management of eclampsia. RCOG Guideline 10, 1996.

# The following features are found in idiopathic hirsutism

258, 260, 262 (Hirsutism)

FSH secretion is unaffected. Dexamethasone suppresses adrenal function. The oral contraceptive pill increases SHBG therefore decreasing free androgens. Spironolactone acts on the distal tubule.

#### Rubella

266 (Infection in pregnancy)

Although the risks to the fetus are lower in the second trimester they are above 1% (6.4 at 4 months, 1.7 at 5 months). Immunoglobulin does not reduce the risk of congenital malformation, it is too late. The rubella haemagglutination test will become positive within 2 weeks of exposure. Viraemia and virus excretion precede clinical manifestations by 5-7 days. Other characteristics are arthralgia, lymphadenopathy and a mild pyrexial illness.

### References

MacLean AB, Cockburn F. Maternal and perinatal infection. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 477–493.

Pastorek JG. Viral diseases. In: James DK, Steer PJ, Weiner CP, Gonik B, eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994; 481–507.

## Hyperprolactinaemia

268, 269, 270 (Hyperprolactinaemia)

Bromocriptine can cause retroperitoneal fibrosis, a rare cause of renal failure.

#### Regarding ovarian cysts

272, 273, 274, 276 (Ovarian tumours: epithelial)

GnRH analogues are ineffective for treating adhesions and large endometriomas (>3 cm). Only 50% of women presenting with Stage One ovarian carcinoma have raised CA 125 levels.

## Reference

Salat-Baroux J, Merviel PH, Kutten F. Management of ovarian cysts. BMJ, 1996; 313: 1098.

# Diagnostic amniocentesis at 16 weeks gestation is associated with an increased incidence of 277, 278 (Prenatal diagnosis)

Amniocentesis is associated with spontaneous abortions (0.5-1%), IUD, fetal respiratory difficulty at birth and allo-immunization, but not deep vein thrombosis, meconium ileus, cleft lip and cleft palate, and fetal heart rate alterations in late pregnancies.

## Reference

Ramsay PA, Fisk NM. Amniocentesis. In: James DK, Steer PJ, Weiner CP, Gonik B, eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994; 735–744.

#### The umbilical cord

282, 284

It contains two arteries and one vein, remnant of the yolk sac, Wharton's jelly and the allantois (occasionally). It absorbs water from the amniotic fluid. Vellamentous insertion is associated with vasa praevia and fetal haemorrhage, not fetal abnormality.

Umbilical artery blood flow is not reliable when predicting fetal distress. The umbilical cord is normally about 50 cm in length (7-180 cm range), cord prolapse is associated with polyhydramnios, footling breeches etc.

#### Reference

The placenta, cord and membranes. In: Chamberlain GVP ed. Obstetrics by Ten Teachers, 16th edn. Oxford: Edward Arnold, 1995; 7–14.

## The following may be associated with IUGR

286, 288, 290, 292 (Intrauterine growth retardation)

It is hypothesized that the thromboxane:prostacyclin ratio in the placenta increases leading to vasoconstriction and platelet aggregation in the placental microvasculature, thereby reducing the blood flow to the fetus. IUGR is also associated with chromosomal abnormalities, pre-eclampsia (not normally essential hypertension), chronic maternal diseases, substance abuse, multiple pregnancy etc. Dopplers are only useful in growth retarded babies. Reversed end-diastolic flow is associated with a 25-40% mortality rate. Steroids should be given as they reduce the incidence of intra-ventricular haemorrhage within an hour but delaying delivery for the sake of lung maturity is not advisable.

#### References

Alcohol Consumption and Pregnancy. RCOG Guideline 9, 1996.

Beattie RB, Whittle MJ. The Management of IUGR. In: Bonnar J, ed. Recent Advances in Obstetrics and Gynaecology, No 19. Edinburgh: Churchill Livingstone, 1995; 35–44.

Pearce JM, Robinson G. Fetal growth and intrauterine growth retardation. In: Chamberlain G, ed. *Turnbull's Obstetrics*, 2nd edn. Edinburgh: Churchill Livingstone, 1995; 299–312.

# Breastfeeding

293

## Dysfunctional uterine bleeding

295, 298 (Menorrhagia - I)

Mefenamic acid reduces mean blood loss by 20%. Hysteroscopic treatment is superior to hysterectomy in terms of operative complications and postoperative recovery. ELA is safer than TCRE. Progestins are less effective than danazol or GnRH analogues in endometrial preparation.

#### Reference

Overton C, Hargreaves J, Maresh M. A national survey of the complications of endometrial destruction for menstrual disorders: the MISTLETOE study. British Journal of Obstetrics and Gynaecology, 1997; 104: 1351–1359.

#### PID

299, 300 (Pelvic inflammatory disease)

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# PAPER FOUR

Allow 2 hours for completion of this paper

## Features characteristically associated with haematocolpos in a 16-year-old girl include

- 1. Acute urinary retention
- 2. Failure of canalization of the Müllerian ducts
- 3. Persistence of the cloacal membrane
- 4. Primary infertility
- 5. Failure of fusion of the Müllerian ducts
- 6. Endometriosis
- 7. Co-existent developmental abnormalities of the mesonephric duct system
- 8. Closed spina bifida

## The following characteristics match

<ol><li>Klinefelter's syndrome</li></ol>	Developmental failure of mesonephric duct
10. Testicular feminization	Developmental failure of urogenital sinus
11. Uterine agenesis	Developmental failure of Wolffian ducts
12. Hydatid cysts of Morgani	Paramesonephric remnants

#### Enterocoele

- 13. Can be congenital
- 14. Is a true hernia
- 15. Characteristically contains a loop of bowel
- 16. Is associated with dyschesia

#### Regarding azoospermia in men with normal FSH levels

- 17. Can be treated with corticosteroids
- 18. Can be treated with testosterone
- 19. Occurs with a germinal tubular defect of the testis
- 20. Is associated with absent vas deferens

## Features of cytomegalovirus infection of the newborn include

- 21. Diffuse rash
- 22. Microcephaly
- 23. Asymptomatic
- 24. Diagnosis from a culture of urine sample
- 25. Hepatomegaly
- 26. Cataract

## Serum changes suggestive of a premature menopause include

- 27. Elevated prolactin
- 28. Elevated LH
- 29. Low oestrone
- 30. Elevated androstenedione
- 31. Low 17-B oestradiol
- 32. Low FSH

#### Gestational hypertension

- 33. Plasma urate measurement is useful in the differential diagnosis
- 34. About 30% of pre-eclamptics are multiparous
- 35. Most cases of pre-eclampsia occur in the age group 16-19 years
- 36. The presence of twins increases the chance of eclampsia
- 37. Eclampsia is the main cause of maternal death

## Ectopic pregnancy

- 38. Following a positive pregnancy test and an ultrasound scan showing an empty uterus a laparoscopy should be performed
- 39. Following laparoscopic linear salpingostomy, trophoblastic activity may continue in up to 20% of cases
- Following conservative laparoscopic surgery the risk of a further ectopic is 15%
- 41. Following an ectopic pregnancy 15% will have another ectopic pregnancy
- 42. Following the diagnosis of an unruptured ectopic pregnancy antiprogestogens can be used for conservative therapy

A woman who is 12 weeks pregnant with a viable fetus is thought to have CIN III at colposcopy. A biopsy result revealed micro-invasive carcinoma. Treatment options include

- 43. Terminating the pregnancy and then treating the CIN
- 44. Performing a cone biopsy
- 45. Continuing with the pregnancy until viable (24 weeks), administering steroids and transferring to a unit with adequate neonatal facilities, performing a Caesarean hysterectomy

#### Spontaneous preterm labour has a recognized association with

- 46. Maternal hypertension
- 47. Previous cautery of the cervix
- 48. Previous cryosurgery to the cervix
- 49. Fetal oesophageal atresia
- 50. Bicornuate uterus
- 51. Chorioangioma of the placenta
- 52. Placental abruption
- 53. Raised maternal plasma AFP at 16 weeks and a normal fetus
- 54. Maternal hyperthyroidism
- 55. Asymptomatic bacteriuria

A 35-year-old nulliparous woman presents with anaemia secondary to menorrhagia. An ultrasound scan with saline suggests the presence of multiple 4-5 cm uterine leiomyomas, some intruding into the cavity. Which of the following options are appropriate for her management?

- 56. Commence GnRH analogues and operate after 9 months
- 57. Perform an emergency myomectomy
- 58. Transfuse and then send home on a prostaglandin synthetase inhibitor
- 59. Consider her for an endometrial resection/ablation
- Consider her for laparoscopic myomectomy after GnRH analogues and HRT for 6 months
- 61. Consider her for embolization utilizing her right femoral vein

#### Match

62.	Mifepristone	Shrinks fibroids
63.	Depo-provera	Significant bone loss

64. HRT Reduced incidence of colonic carcinoma

65. GnRH + HRT Significant bone loss

#### ARDS

 ARDS is associated with prolonged anaesthesia and large volume blood transfusion

## With regard to closed laparoscopy (blind insertion of the Verres needle then trocar) the following statements are correct

- Insertion of the Verres needle is associated with greater morbidity than the insertion of the trocar
- 68. Reported mortality rates are 4.09-77/100 000
- 69. The overall complication rate is 5.7/1000
- 70. Accredited gynaecologists cause more complications than trainees
- 71. The total incidence of visceral injury is 0.83/1000 of which 2.5% succumb
- 72. The total incidence of vascular injury is 0.75/1000 with a mortality rate of 0.8%
- 73. The lower mortality rate with vascular injury reflects its prompt diagnosis and treatment whereas 38% of visceral injuries are missed at the time of the procedure
- The overall laparotomy rate for Verres needle injury is 3.9-4.2/1000 laparoscopies
- 75. The incidence of incisional hernia is 0.3%

## Abnormally high concentrations of HCG in pregnancy are associated with

- 76. Fetal erythroblastosis
- 77. Anencephaly
- 78. Chorioangioma of the placenta
- 79. Carneous mole
- 80. Iniencephaly
- 81. Maternal alcoholism

## Chronic pelvic pain

- 82. Accounts for 5% of gynaecological referrals
- Post-coital aching, deep dyspareunia, pain of variable location and nature radiating through to the back suggests pelvic congestion syndrome
- 84. Pain occurring more than once a month, associated with abdominal distension and relieved by defaecation suggests endometriosis.
- 85. If pelvic congestion exists GnRH agonists and add-back HRT are effective

# The following are inherited as autosomal co-dominant trait

- 86. Rhesus group
- 87. Breast cancer

## Chlamydia

- 88. 70% of affected women and 50% of affected men are asymptomatic
- 89. Incidence in UK is approximately 10/100 000
- 90. Adequate screening and treatment reduces the incidence of ectopic pregnancies

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## Recognized causes of cystic swelling of the breast include

- 91. Fibroadenosis
- 92. Ductal carcinoma
- 93. Hyperprolactinaemia
- 94. Degeneration within a colloid carcinoma
- 95. Dysgerminoma of the ovary
- 96. Granulosa cell tumour

## A 23-year-old pregnant woman at 16 weeks has 2+ proteinuria. The following investigations should be carried out

- 97. 24-hour urine for protein estimation
- 98. Suprapubic aspiration of urine
- 99. Serum protein estimation
- 100. Renal scan
- 101. IVP

## Ovarian hyperstimulation syndrome (OHSS)

- 102. Incidence is 4% following standard ovulation induction
- 103. When more than 30 oocytes are recovered there is a one in four chance of severe OHSS developing
- 104. Severe OHSS is characterized by ovaries greater than 15 cm diameter
- 105. May occur in one ovary
- 106. Is associated with an increased risk of venous thromboembolism
- 107. Can be prevented by giving pregnanediol immediately after oocyte recovery

## Factors predisposing to maternal pulmonary aspiration of gastric contents during labour include

- 108. Decrease in gastric motility
- 109. The use of muscle relaxants
- 110. The effect of progesterone on the cardiac sphincter
- 111. The administration of oral magnesium trisillicate
- 112. Epidural analgesia

## Intrahepatic cholestasis in pregnancy is characteristically associated with

- 113. Elevated total bile salts in the blood
- 114. Elevated plasma levels of the direct bilirubin fraction
- 115. Generalized pruritus in the absence of jaundice is the most common symptom
- 116. A positive direct Coomb's test in the neonate
- 117. Elevated serum acid phosphatase activity
- 118. Appearance in the third trimester
- 119. Racial variation
- 120. Neonatal jaundice

## Associations of polycystic ovarian disease (PCOD) include

- 121. Loss of body hair
- 122. Failure of follicular maturation
- 123. Obesity
- 124. Insulin dependant diabetes mellitus
- 125. Adrenal hyperplasia
- 126. Hyperprolactinaemia

## The following occur more frequently in pregnancy than in the non-pregnant state

- 127. Erythema nodosum
- 128. Carpal tunnel syndrome
- 129. Migraine
- 130. Cholestatic jaundice
- 131. Duodenal ulcer
- 132. Asthma
- 133. Pulmonary tuberculosis
- 134. SLE
- 135. Rheumatoid arthritis
- 136. Neurofibromatosis
- 137. Sarcoidosis

#### Ovarian cancer

- 138. The relative risks of developing ovarian cancer is 1%
- 139. If a woman carries the BRAC-1 gene her lifetime risk is almost 50%

# Maternal oestrogen excretion during the last trimester of pregnancy is raised

- 140. With bed rest
- 141. By ampicillin therapy
- 142. In multiple pregnancy
- 143. By mandelic acid therapy
- 144. In rhesus sensitized pregnancy
- 145. In diabetes mellitus
- 146. In placental sulphatase deficiency
- 147. In adrenal hypoplasia
- 148. In renal agenesis
- 149. In sickle cell anaemia

### With regard to miscarriage

- 150. Asherman's syndrome is a recognized complication of spontaneous miscarriage
- 151. Giving misoprostol then mifepristone 48 hours later has been shown to be 95% effective in managing miscarriages under 12 weeks
- 152. Incomplete abortion should not be managed with vaginal prostaglandins

### Occipito-posterior position

- 153. Is common in anthropoid pelvis
- 154. Occipito-frontal is the presenting diameter
- 155. Accounts for 10-20% of vertex presentations in late pregnancy and early labour
- 156. Early rupture of membranes is common
- 157. About 90% rotate to occipito-anterior position as labour progresses
- 158. Persistent occipito-posterior should be delivered by Caesarean section

# Regarding family planning

- 159. The progesterone only pill is as likely to fail as a copper coil
- 160. The condom is more effective than the diaphragm
- 161. Billing's method is similar to using the sponge when comparing failure rates
- 162. The levonorgestrel-releasing coil is as effective as Norplant in its first 2 years of use
- 163. Coitus interruptus is more effective than spermicides used alone
- 164. Male sterilization is less effective than female sterilization
- 165. Avoiding intercourse for 3–4 days around ovulation is a more reliable method of family planning than the progesterone only pill
- 166. Femidom (the female condom) is twice as strong as normal condoms

## Nuchal translucency

167. Is diagnostic test for a chromosomal disorder

#### Cordocentesis

168. Prior fetoscopic localization of blood vessels is essential

## Amniocentesis may be indicated

- 169. In diagnosing an intrauterine infection
- 170. At 36 weeks with rhesus-immunization

## Side effects of the levonorgestrel releasing IUCD include

- 171. Acne
- 172. Hirsutism
- 173. Mastalgia
- 174. Breast atrophy
- 175. Mood changes

#### Match

170. 3	Maternal renal cortical necrosis	Post-partum naemorrnage
177. 1	Placental sulphatase deficiency	Fetal ichthyosis
	Acute polyhydramnios	Dizygotic twins
179. 1	Maternal serum alpha-fetoprotein >3 MOM	Gastroschisis
180. 1	Raised maternal plasma factor VIII	Placental abruption
181. 1	Pre-eclampsia	Sickle cell disease
182. 1	Primary post-partum haemorrhage	Thrombocytopenic purpura
183. 1	Eclampsia	Nephrotic syndrome

## A geneticist's wife is very friendly with the man next door. The geneticist is concerned because he has noticed similarities between his son and the neighbour. He will be reassured if

- 184. Both his son and his neighbour are achondroplastic
- 185. Both his son and his neighbour have haemophilia
- 186. Both his son and his neighbour are A Rh positive
- 187. Both his son and his neighbour have testicular feminization syndrome
- 188. Both his son and his neighbour have Duchenne muscular dystrophy
- 189. The neighbour has cystic fibrosis
- 190. The neighbour has true Klinefelter's syndrome
- 191. The neighbour has beta-thalassaemia major
- 192. The neighbour has Down's syndrome
- 193. The neighbour has no children

#### Ritodrine

- 194. May cause hypokalaemia
- 195. Is less effective in ruptured membranes
- 196. Must not be used with steroids to stop preterm labour in diabetic patients
- 197. Has been shown to improve outcome on its own by prolonging pregnancy
- 198. The effective dose range is 150-350 µg/min
- 199. Has a negative chronotropic action on the heart
- 200. Causes peripheral vasodilatation
- 201. Can be used as a bolus to reverse uterine hypertonus

## Causes of the largest pocket of amniotic fluid being greater than 7 cm include

- 202 Listeria infection
- 203. Normal pregnancy
- 204. Renal agenesis
- 205. Imperforate anus
- 206. Anencephaly
- 207. Iniencephaly
- 208. Hydrocephaly
- 209. Polycystic kidney

## Regarding non-contraceptive effects of the combined oral contraceptive pill

- 210. It reduces menstrual loss in 20-30% of women
  - 211. It reduces the incidence of PID by 50%
  - 212. It increases the incidence of duodenal ulcers
  - 213. It reduces the incidence of an ectopic pregnancy by 30%
  - 214. It increases the incidence of fibroids by 17% after 5 years of use
  - 215. It reduces the incidence of benign breast disease
  - 216. It increases the incidence of myocardial infarction by 10 times in smokers
  - 217. It increases the incidence of the breast cancer if used as a teenager
  - 218. The increased risk of breast cancer is lifelong
  - The risk of venous thrombo-embolism with a non-gestodene containing pill is half that of a gestodene containing preparation (30 as opposed to 60/100 000 women)

### The following pairs are characteristically linked

220.	Neonatal convulsions	Hypercalcaemia
221.	Hepatosplenomegaly	Galactosaemia

222. Polyhydramnios Tracheo-oesophageal fistula

223. Neonatal cyanosis Glucose-6-phosphate dehydrogenase deficiency

224. Blue sclera Osteogenesis imperfecta

#### Amniotic fluid embolism

- 225. Is associated with artificial rupture of membranes
- 226. Is universally fatal
- Maternal mortality due to amniotic fluid embolus has increased during last the two decades
- 228. In the early 1990s in the UK the majority of maternal deaths occurred due to substandard care

#### CIN

229. Takes 3-10 years to become carcinoma in situ

## In iron deficiency anaemia

- Depletion of iron stores is the earliest event to occur and the reduction of serum iron levels the latest
- 231. The drop in MCHC occurs before the fall in MCV
- 232. MCV is a better index of iron deficiency than haemoglobin concentration

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## Bacterial vaginosis

- 233. Is associated with a 10 times increased risk of preterm labour
- 234. Could be asymptomatic
- 235. Is associated with increased risk of infections after gynaecological surgery
- 236. Does not occur in virgins
- 237. The incidence is higher in women attending termination clinics than in those attending gynaecological outpatients' departments

### Bleeding in pregnancy

- 238. Antepartum haemorrhage is defined as vaginal blood loss of more than 15 ml, prior to delivery of the fetus
- 239. One in 10 women will bleed at some point
- 240. Clotting abnormalities are known associations
- 241. Antepartum haemorrhage is associated with feto-maternal transfusion
- 242. 30% of all bleeding episodes in pregnancy occur in third trimester

## Reversible impairment of spermatogenesis occurs with

- 243. Klinefelter's syndrome
- 244. Hypopituitarism
- 245. Alcohol intake
- 246. Sulphasalazine
- 247. Anabolic steroids
- 248. Acute pyelonephritis

## External cephalic version (ECV)

- 249. Is most effective with an extended breech
- 250. Is contraindicated after the onset of labour
- 251. Is more likely to fail in nulliparous women
- 252. Is associated with preterm labour and uterine rupture

## The incidence of cancer in pregnancy

- 253. The incidence of breast cancer in pregnancy is higher in the advanced age group
- 254. The prevalence of carcinoma of the cervix in pregnancy is around 5-10/10 000
- 255. Carcinoma of the vagina is extremely rare

## Cardiac disease in pregnancy

- 256. The prevalence of cardiac disease in the Western world is 0.1%
- Marfan's syndrome and Takayasu's syndrome are associated with coarctation of aorta and require delivery by Caesarean section
- 258. Palpitations are a common finding in pregnancy and usually do not require treatment
- 259. T wave inversion in lead III is a normal finding
- 260. Primary pulmonary hypertension is a contraindication to pregnancy

## Urinary complications of gynaecological surgery

- 261. Unrecognized urinary tract trauma can present clinically similar to peritonitis
- 262. Urinary fistula may occur several weeks after gynaecological surgery
- 263. May present with an ileus

### Fetal risks from a diabetic pregnancy include

- 264. Skeletal abnormalities
- 265. Cardiovascular abnormalities
- 266. Caudal regression syndrome with an incidence of 1/1000 diabetic pregnancies

31

- 267. Macrosomia
- 268. Symmetrical growth retardation
- 269. A 7% chance of major congenital anomalies

## Chickenpox

- 270. Occurs in approximately 1 in 20 000 pregnancies
- 271. In the first trimester is associated with fetal varicella syndrome in 3%, and if it occurs late in pregnancy is associated with perinatal infection in up to 60%
- Zoster immunoglobulin should be given if the maternal IgG levels are raised prior to delivery
- 273. Severe maternal infection should be treated with zidovudine
- 274. Is caused by a highly infectious DNA herpes virus, it can be prevented by using a live attenuated vaccine

#### Viral infection of the cervix

- 275. Human papilloma virus (HPV) types 16 and 18 are the RNA viruses most commonly associated with cervical cancer
- 276. Human papilloma virus infection can regress spontaneously
- Viral infections involving the cervical squamous epithelium are only manifested by dyskaryosis
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### Spinal analgesia

- 278. Has a quicker onset of action than an epidural block
- 279. Is a technically more demanding procedure than an epidural block
- 280. Ideally should be widely used for pain relief in labour

#### Vulval cancer

- 281. Constitutes under 1% of all gynaecological malignancies
- 282. 2-3% of malignant tumours of the vulva are basal cell carcinomas
- 283. The squamous cell type is the commonest vulval cancer, constituting 50% of cases
- 284. Clinical staging is reliable
- If less than 2 cm in diameter and with unilateral positive regional lymph node metastasis it is stage III disease
- Spreads to the external iliac and obturator lymph nodes before involving deep and superficial inguinal and femoral nodes
- 287. Is associated with cervical cancer

#### Caesarean scar dehiscence

- 288. The incidence after a classical incision is 20-30%
- 289. The incidence after a lower segment uterine incision is less than 0.5%
- 290. The incidence after a De Lee incision equals that of a classical scar
- 291. Commonly presents with the clinical picture of massive internal bleeding
- 292. May occur before the onset of labour

#### Prognosis of endometrial cancer

- 293. 50% of endometrial cancers occur in the premenopausal age group
- 294. Five year survival rate stage for stage is similar to that of cervical cancer
- 295. Over 75% of women with endometrial cancer die of this disease
- 296. Adenoacanthoma of the endometrium has a very poor prognosis
- 297. Adverse prognostic factors include advanced age
- 298. Positive peritoneal cytology has no prognostic value

#### Hepatitis

299. HBsAg is the earliest marker of hepatitis infection

#### Cervical caps

300. Cannot be used in women with cervical dyskaryosis

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# ANSWERS TO PAPER FOUR

The numbers of the correct answers are given

Features characteristically associated with haematocolpos in a 16-year-old girl include

1, 2, 3, 6 (Abnormality of genital tract, Amenorrhoea, primary and secondary) It is associated with primary amenorrhoea in girls with normal secondary sexual characteristics. It may arise because canalization of the fused Müllerian ducts fails to occur. Failure of fusion of the Müllerian ducts may result in double or bicornuate uteri. The uterus is derived from the paramesonephric duct, the mesonephric duct is unimportant in females and coexistent abnormalities are rare. There is no association with closed spina bifida. Other associations include reduplication of the metanephric duct.

#### The following characteristics match

12 (Abnormality of genital tract, Amenorrhoea, primary and secondary)

Klinefelter's syndrome is associated with testicular development and the development of the mesonephric duct (forming the prostate, seminal vesicle and ductules) but the testes do not function. In testicular feminization the urogenital sinus develops and may be thickened, there are absent tubes and ovaries but testes are present. The external genitalia fail to develop due to androgen insensitivity. Uterine agenesis is caused by failure of the development of Müllerian ducts.

#### Enterocoele

13, 14, 15 (Genital prolapse)

Dyschesia (difficulty in emptying the bowel) is associated with a rectocoele

# Regarding azoospermia in men with normal FSH levels

20 (Male subfertility)

No medical treatment is of any use. A germinal tubular defect of the testis would be associated with raised FSH levels.

# Features of cytomegalovirus infection of the newborn include

22, 23, 24, 25, 26 (Infection in pregnancy)

The rash is purpuric, Other associations include IUGR, intracerebral calcification, cerebral atrophy, seizures, psychomotor delay, learning disorders, expressive language delay, thrombocytopenia, haemolytic anaemia, splenomegaly, jaundice, deafness, chorio-retinitis, optic atrophy, pneumonitis, dental abnormalities, long bone radiolucencies etc.

## References

MacLean AB, Cockburn F. Maternal and perinatal infection. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates. 5th edn, Oxford: Blackwell Science, 1995; 477–493.

Pastorek JG. Viral diseases. In: James DK, Steer PJ, Weiner CP, Gonik B, eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994; 481–507.

# Serum changes suggestive of a premature menopause include

28, 30, 31 (Menopause)

Oestrone and FSH levels increase. There is no change with prolactin levels.

# Gestational hypertension

33, 34, 36 (Pre-eclampsia, eclampsia and phaeochromocytoma)

Most cases of pre-eclampsia occur in the age group 21-25 years. ARDS is the main cause of maternal death.

### Reference

Redman C. Hypertension in pregnancy. In: De Swiet M, ed. Medical Disorders in Obstetries Practice, 2nd edn. Oxford: Blackwell Scientific Publications 1990; 249– 305.

### Ectopic pregnancy

39, 41 (Ectopic pregnancy)

The woman might require a laparotomy, or this may be a complete miscarriage or a viable early pregnancy. Following conservative laparoscopic surgery the risk of a further ectopic pregnancy is 7%. Antiprogestogens have not been found to be useful, whereas methotrexate, potassium and prostaglandins have been used successfully.

# Treatment options for a woman who is 12 weeks pregnant who is revealed to have a micro-invasive carcinoma

43, 45

A cone biopsy is not an option.

# Spontaneous preterm labour has a recognized association with

49, 50, 51, 52, 53, 54, 55

Maternal hypertension is not associated with preterm labour, PIH is an important reason for introgenic prematurity. There is no evidence that cryosurgery, LLETZ or cautery increase the risk of preterm labour.

# Appropriate management options for a 35-year-old woman with multiple uterine leiomyomas

(Fibroids)

Fibroid shrinkage (up to 49%) will occur after 3 months of GnRH therapy, further slight reductions may follow, thus surgery should be scheduled after 3 not 9 months. GnRH analogues alone should not be used for more than 6 months. There is no indication to perform an emergency myomectomy. Transfusion would be an option but prostaglandin synthetase inhibitors are unlikely to be of benefit in the long-term. Endometrial resection/ablation can be used to treat sub-mucus fibroids of 5 cm or under. Laparoscopic myomectomy would be an option in conjunction with resecting the sub-mucus fibroid. GnRH analogues are advised prior to laparoscopic treatment, giving them with HRT will not shrink the fibroids. Embolization would be an option but canulization utilizes the artery (not the vein).

#### Match

62, 64

Depo-provera is not associated with significant bone loss. GnRH + HRT prevents significant bone loss.

#### ARDS

66

# With regard to closed laparoscopy the following statements are correct

68, 69, 70, 71, 72, 73, 74, 75 (Minimally-invasive surgery)

Insertion of the trocar is associated with greater morbidity than insertion of the Verres needle.

# Abnormally high concentrations of HCG in pregnancy are associated with 76, 78

Other causes are multiple pregnancy, hydatidiform mole, wrong gestational age etc.

### Reference

Davey DA. Normal pregnancy: anatomy, endocrinology and physiology. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 87–108.

### Chronic pelvic pain

82, 83 (Chronic pelvic pain)

Pain occurring more than once a month, associated with abdominal distension and relieved by defaccation suggests irritable bowel syndrome. Medroxyprogesterone acetate may help but if pelvic congestion exists, GnRH agonists and add-back HRT are not effective.

#### Reference

William Stones R. Chronic pelvic pain. RCOG PACE review 97/01.

# The following are inherited as autosomal co-dominant trait

86

There is some evidence to suggest that certain breast cancers may be inherited as autosomal dominant conditions. Other co-dominant traits include ABO, Kell, MNS blood groups, haptoglobin, HLA system, adenylate kinase and acid phosphatase.

### Reference

Connor M, Ferguson-Smith M, Medical Genetics, 5th edn. Oxford: Blackwell Science, 1997; 69–81.

### Chlamydia

88, 90

Incidence in UK is approximately 100/100 000

#### Reference

CMO's Expert Advisory Group on Chlamydia trachomatis. Department of Health, London.

# Recognized causes of cystic swelling of the breast include

91, 94

Ductal carcinoma causes nipple discharge. Hyperprolactinaemia causes galactorrhoea. Other causes are papillary cystadenoma, galactocoele, serocystic disease of Brodie, lymphatic cyst etc.

### Reference

The breast. In: Mann CV, Russell RCG, eds. Balley & Love's Short Practice of Surgery, 21st edn. London: Chapman & Hall Medical, 1992; 788–821.

# A 23-year-old pregnant woman at 16 weeks has 2+ proteinuria. The following investigations should be carried out.

97, 99, 100 (Renal tract in pregnancy)

An MSSU is sufficient to rule out a UTI as a cause. An IVP is unnecessary, it is indicated for the investigation for recurrent UTIs and haematuria.

### Reference

Davey DA. Hypertensive disorders of pregnancy. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 175–215.

### Ovarian hyperstimulation syndrome (OHSS)

102, 103, 105, 106 (Infertility-II)

Severe OHSS is characterized by ovaries greater than 12 cm diameter. It may occur in one ovary (assisted reproductive techniques are used in women with just one ovary).

# Reference

RCOG Guideline 5, January 1995

# Factors predisposing to maternal pulmonary aspiration of gastric contents during labour include

108, 109, 110

Magnesium trisillicate reduces gastric acidity and does not predispose to aspiration of gastric contents. Epidural analgesia does not affect the cardiac sphincter.

# References

Hospital practices. In: Enkin MW, Keirse MJNC, Renfrew MJ, Neilson JP, eds. A Guide to Effective Care in Pregnancy and Childbirth, 2nd edn. Oxford: Oxford University Press, 1995; 197–207.

Ritchie JWK. Obstetric operations and procedures. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 388–400.

# Intrahepatic cholestasis in pregnancy is characteristically associated with 113, 114, 115, 118, 119

It usually appears in the third trimester, is characterized by generalized pruntus due to elevated bile salts in the blood as a consequence of intrahenatic cholestasis caused by raised oestrogen levels in the blood. It is more common in women of Asian origin. There is a positive family history in 44% of cases: It recurs in 45% cases. It is associated with preterm labour (59%), intrauterine death and post-partum haemorrhage (8-22%). It is not associated with a positive direct Coomb's test or neonatal jaundice. Serum alkaline phosphatase level is elevated.

### References

Fagan EA. Disorders of the liver, biliary system and pancreas. In: De Swiet M, ed. Medical Disorders in Obstetrics Practice, 2nd edn. Oxford: Blackwell Scientific Publishers, University Press, 1994; 426-520.

Williamson C, Nelson-Piercy C, Liver disease in pregnancy. British Journal of Hospital Medicine, 1997, 58(5): 213-216.

## Associations of polycystic ovarian disease (PCOD) include

122, 123, 125, 126 (Polycystic ovarian disease [PCOD])

Failure of follicular maturation, hirsutism, obesity (25%), adrenal hyperplasia (10%), hyperprolactinaemia (15%) and insulin resistance (75%) leading to non-insulindependent diabetes mellitus are associated with PCOD.

# The following occur more frequently in pregnancy than in the non-pregnant state 127, 128, 130, 134, 136

### Reference

De Swiet M, ed. Medical Disorders in Obstetrics Practice, 2nd edn. Oxford: Blackwell Scientific Publications, 1994.

#### Ovarian cancer

(Ovarian tumours: epithelial) 138, 139

### Reference

Eccles DM. Ovarian cancer genetics and screening for ovarian cancer. RCOG PACE review 97/06.

# Maternal oestrogen excretion during the last trimester of pregnancy is raised 140, 142, 144, 145, 149

It is raised in cases of hyperplacentosis. It is decreased in placental sulphatase deficiency, adrenal hypoplasia, IUGR, acute pyelonephritis and therapy with antibiotics, aspirin and phenylbutazone.

# References

Chard T, Macintosh MCM. Biochemical screening for Down's syndrome. In: Studd J, ed. Progress in Obstetrics and Gynaecology, Volume 11. Edinburgh: Churchill Livingstone, 1994; 39-52.

Davey DA. Normal pregnancy: anatomy, endocrinology and physiology. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 87–108.

# With regard to miscarriage

(Abortion spontaneous/recurrent)

Asherman's syndrome is a complication of septic abortion and/or over-zealous curettage. Mifepristone is given before misoprostol. Vaginal prostaglandins are acceptable practice and could be safer alternatives to surgical evacuation

### Occipito-posterior position

153, 154, 155, 156, 157 (Presentations and positions)

Vaginal delivery is preferred, unless difficult.

### Reference

Ritchie JWK. Malpositions of the occiput and malpresentations. In: Whitfield CR, ed. Dewharst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 346–367.

### Regarding family planning

159, 161, 162, 163, 166 (Contraception and sterilization)

User failure rates per 100 women years:

POP	1.2
Copper coil	0.3-4
Condom	3.6
Diaphragm	1.9
Billing's method	10-25
Sponge	9-25
LNG-IUCD	0.2
Norplant in its first 2 years of use	0.2
Coitus interruptus	6.7
Spermicides used alone	9-25
Male sterilization	0.02
Female sterilization	0.13
Sympto-thermal	3.6

# Reference (for all contraceptive questions):

Guiellebaud J. Contraception. Your Questions Answered. Edinburgh: Churchill Livingstone, 1985.

## Nuchal translucency

(Prenatal diagnosis)

Nuchal translucency is a screening test. It is neither diagnostic for chromosomal disorders nor is it associated with neural tube defects. In the absence of a chromosomal disorder it may be associated with congenital heart defects.

#### Cordocentesis

(Prenatal diagnosis)

Insertion of the cord in the placenta and blood vessels are localized with ultrasound.

### Amniocentesis may be indicated

(Prenatal diagnosis)

It is only indicated in rhesus-immunization if the antibody titre is rising. Nowadays scans and cordocentesis are more readily used.

### Side effects of the levonorgestrel-releasing IUCD include

171, 172, 173, 175 (Contraception and sterilization)

Progestogens promote glandular development in the breast.

### Match

176, 177, 179, 181, 182 (Post-partum haemorrhage, Prenatal diagnosis) Acute polyhydramnios is usually associated with monozygotic twins. Though the kidney may be affected in eclampsia, nephrotic syndrome is a different entity. Placental abruption leading to DIC will reduce the levels of factor VIII.

### Reference

Rogers M, Barneston R StC. Diseases of the skin. In: Campbell AGM, McIntosh N, eds. Forfar and Arneil's Textbook of Paediatries, 4th edn. Edinburgh: Churchill Livingstone, 1992; 1693-1727.

# Geneticist's wife and neighbour

187, 189, 190, 192

The geneticist will only be reassured if the neighbour is infertile or dead. He may feel reassured about the X-linked conditions (haemophilia and Duchenne muscular dystrophy) but it does not rule out the neighbour as a father.

### References

Neilson JP. Antenatal diagnosis of fetal abnormality and Whitfield CR. Blood Disorders in Pregnancy. In: Whitfield CR, ed. Devchurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 221-239, 228-250.

Griffin JE, Wilson JD. Disorders of the testes and Mendell JR, Griggs RC. Inherited, metabolic, endocrine, and toxic myopathies. In: Isselbacher KJ, Braunwald E, Wilson JD, Martin JB, Fauci AS, Kasper DL, eds. Harrison's Principles of Internal Medicine, 13th edn. New York: McGraw-Hill. Inc., 1994; 2006-2017, 2383-2393.

### Ritodrine

194, 195, 198, 200 (Premature labour)

It can be used in diabetic patients but blood glucose must be monitored closely, as both ritodrine and steroid increase it (insulin requirement may increase up to 30 times). The outcome improves because of enhanced lung maturity by the steroids. There is no evidence that prolonging pregnancy by ritodrine will have any further beneficial effects. It must not be used as a bolus dose because of its negative inotropic action and positive chronotropic action on the cardiovascular system.

101

# References

Beta-agonists for the care of women in preterm labour. RCOG Guideline 1a, 1997.
Report on Confidential Enquiries into Maternal Deaths in the United Kingdom, 1991–1993. London: HMSO, 1996.

# Causes of the largest pocket of amniotic fluid being greater than 7 cm include 202, 203, 205, 206, 207 (Polyhydramnios/oligohydramnios)

Seven centimetres is normal and not polyhydramnios. Polyhdramnios occurs when the greatest depth of amniotic fluid is over 8 cm. As the question asks for causes greater than 7 cm this includes the causes of polyhydramnios. Other causes include maternal diabetes, cardiac and renal disease, hydrops fetalis, multiple pregnancy (12%), fetal cardiac arrhythmia, severe deflexion of the fetal head (due to functional obstruction of the oesophagus), facial clefts and neck masses interfering with swallowing, duodenal and oesophageal atresia, achondroplasia, chorioangioma of the placenta etc.

### Reference

Stark C. Disorders of the amniotic fluid. In: Frederickson HL, Wilkins-Haug L, eds. Ob/Gyn Secrets. Philadelphia: Hanley & Belfus Inc., 1991; 217–220.

# Regarding non-contraceptive effects of the combined oral contraceptive pill 211, 215, 216, 217

It reduces menstrual loss in 60-80% of women. There is evidence that the incidence of duodenal ulcers is reduced. Ectopic pregnancies are reduced by 90%. The incidence of fibroids is reduced by 17% after 5 years of use. After 10 years of stopping the pill the risk of breast cancer is reduced to the background level. Although the first part of statement 219 is true, the figures are not. They should be 15 and 30 respectively (60 is the risk during pregnancy).

# References

McPherson K. Third generation oral contraception and venous thromboembolism. BMJ 1996; 312: 68-69.

Owen Drife J. The Benefits and Risks of Oral Contraceptive Today, 2nd edn. London: Parthenon Publishing Group; 1996.

# The following pairs are characteristically linked 221, 222, 223, 224

Hypocalcaemia causes neonatal convulsions.

# Reference

Cockburn F. Neonatal care for obstetricians. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 454-476.

#### Amniotic fluid embolism

### 225 (Amniotic fluid embolus)

Amniotic fluid embolism occurs with an incidence of 1/80 000 pregnancies. Maternal age more than 35 years, high parity, over distension of the uterus, use of syntocinon, intrauterine manipulations (e.g. artificial rupture of membranes), hypertonic uterine activity, and partial or complete rupture of the uterus are all risk factors. Maternal mortality due to amniotic fluid embolism has fallen slightly during last two decades but it is fatal more than 80% of the time. Substandard care has been documented in 20% of cases in the early 1990s.

### References

Report on Confidential Enquiries into Maternal Deaths in the United Kingdom, 1991–1993. London: HMSO, 1996.

Still DR. Postpartum haemorrhage and other problems of the third stage. In: James DK, Steer PJ, Weiner CP, Gonik B. eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994; 1167-1181.

#### CIN

229 (Premalignant disease of the cervix)

### Reference

Anderson MC. The natural history of cervical intraepithelial neoplasia. Current Obstetrics and Gynaecology. 1991; 1: 124–129.

### In iron deficiency anaemia

# 232 (Anaemia in pregnancy)

Iron deficiency first manifests with depletion of the iron stores. Reduction in haemoglobin concentration occurs last. Low red blood cell indices (MCV, MCH and MCHC) are helpful in the diagnosis. As iron deficiency anaemia develops the MCV falls first followed by a drop in MCHC and hypochromia occurs. The drop in haemoglobin occurs after the reduction in serum iron levels.

### Bacterial vaginosis

# 234, 235, 237

The risk of preterm labour in association with bacterial vaginosis is two and a half times increased. Bacterial vaginosis can occur in virgins, but the incidence is low.

### References

Emens JM. Intractable vaginal discharge. Current Obstetrics and Gynaecology, 1993; 3: 41–47.

Lamont RF. Bacterial vaginosis. The Year Book of the RCOG 1994, 149-158.

### Bleeding in pregnancy

### 240, 241 (Antepartum haemorrhage)

Bleeding before 24 weeks of pregnancy is a threatened miscarriage, therefore the definition should include 'after 24 weeks of gestation'. One in five women will bleed at some point in pregnancy and only 4% of all bleeding episodes occur in third trimester.

### Reference

Neilson JP. Antepartum haemorrhage. In: CR Whitfield, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, Fifth edn. 1995; 164–174.

# Reversible impairment of spermatogenesis occurs with 245, 246, 247, 248

Klinefelter's syndrome and hypopituitarism cause irreversible impairment. If excessive, alcohol intake can result in irreversible damage. Treatment of UTIs and pyelonephritis can affect sperm production.

### Reference

Paul S. Infertility. In: Paul S. ed. An Essential Book in Obstetrics and Gynaecology. Vol. 1. Calcutta: Standard Book House, 1996; 126–153.

## External cephalic version (ECV)

251, 252 (Breech)

Extended legs make ECV technically difficult and increase the risk of failure. ECV can be performed in early labour. It is associated with preterm labour and uterine rupture as well as cord accident, placental abruption and sensitization of a rhesus-negative woman.

# References

Burr RW, Johanson RB. Breech presentation; is external cephalic version worthwhile? In: Studd J, ed. Progress in Obstetrics and Gynaecology, Volume 12, Edinburgh: Churchill Livingstone, 1996; 87–98.

Harrold A, Owen P. External cephalic version. British Journal of Hospital Medicine. 1997, 57(4): 157–158.

# The incidence of cancer in pregnancy

253, 254, 255 (Cancer in pregnancy)

# Cardiac disease in pregnancy

258, 259, 260 (Cardiac disease in pregnancy)

The prevalence of cardiac disease in the Western world is estimated to be 1%. Marfan's syndrome is associated with dissecting aortic ancurysms. Takayasu's arteritis may cause narrowing of the vessels around the aortic arch and also ancurysmal dilatation. Uncorrected coarctation of the aorta should be delivered by Caesarean section, Marfan's do not automatically need a Caesarean. Palpitations and soft systolic heart murmur are common findings in pregnancy and are not necessarily indicative of cardiac disease.

# Reference

Oakley, CM. Pregnancy and heart disease. British Journal of Hospitul Medicine, 1996, 55(7): 423–426.

# Urinary complications of gynaecological surgery

261, 262, 263 (Perioperative complications)

104 ANSWERS - PAPER FOUR

### Fetal risks from a diabetic pregnancy

264, 265, 266, 267, 268, 269 (Diabetes and pregnancy)

Asymmetrical growth retardation can also occur in a diabetic pregnancy if the diabetes is long-standing or associated with diabetic angiopathy.

### Reference

London MB, Gaffe SG. Diabetes mellitus. In: James DK. Steer PJ, Weiner CP, Gonik B. eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994; 277–297.

# Chickenpox

271, 274

Occurs in approximately 1:2000 pregnancies. Zoster immunoglobulin should be given if the maternal IgM levels are raised prior to delivery. IgG is a marker of previous infection whereas IgM is a marker of recent infection. Acyclovir should be used to treat severe or progressive infections.

### Reference

Gilbert GL. Chickenpox during pregnancy. BMJ, 1993; 306: 1079-1080.

### Viral infection of the cervix

276 (Premalignant disease of the cervix)

Papilloma viruses are DNA viruses. HPV type 16 and 18 as well as 31, 33 and 35 are found in over 90% of invasive cervical cancers. Dyskaryosis is one of the manifestations of viral infections of cervical epithelium. Others include invasive cancer and koilocytosis.

#### References

Blomfield PI. Wart virus and cervical cancer. Current Obstetrics and Gynaecology, 1991; 1: 130–136

MacLean AB, Macnab FCM. The role of viruses in gynaecological oncology. In: Studd J, ed. Progress in Obstetrics and Gynaecology, Volume 12, 1996; 402–417.

### Spinal analgesia

278 (Analgesia/anaesthesia in labour)

Spinal analgesia is easier to administer than an epidural. It has a quicker onset and shorter action than an epidural so it is not recommended for use in labour.

### Reference

Lewis M. Epidural and spinal anaesthesia in labour. Current Obstetrics and Gynaecology, 1996; 6: 67-73

#### Vulval cancer

282, 285, 287 (Vulva)

Vulval carcinoma constitutes 5% of all gynaecological malignancies. Squamous cell carcinoma is the commonest type constituting 80-90% of vulval cancers. Its clinical staging is very unreliable. Spread occurs first to the superficial and deep inguinal and femoral nodes, then to the external iliac and obturator nodes. 15-30% of women with vulval cancer have/will develop cervical cancer.

### References

Evans S. Vulval skin disease and the gynaecologist. British Journal of Hospital Medicine 1997, 57(11): 579–581.

Helm CW, Shingleton HM. The management of squamous cell carcinoma of the vulva. Current Obstetrics and Gynaecology, 1992; 2: 31–37.

### Caesarean scar dehiscence

289, 292 (Caesarean section)

The incidence of scar dehiscence after a previous classical incision is the highest at about 9%. A De Lee incision has a lower incidence of this complication and is advised if possible. The clinical picture of a massive haemorrhage at the dehiscence of the uterine scar is uncommon.

# Prognosis of endometrial cancer

294, 297 (Uterine tumours)

Only 25% of cases occur in premenopausal age. About 25% of women affected by endometrial cancer die of this disease. Adenoacanthoma has a good prognosis. Positive peritoneal cytology has adverse prognostic value.

# References

Irwin CJR. The management of endometrial carcinoma. British Journal of Hospital Medicine, 1996; 55: 308–309.

Lawton FG. Early endometrial carcinoma – no more TAH, BSO and cuff. In: Studd J, ed. Progress in Obstetrics and Gynaecology, Volume 10. Edinburgh: Churchill Livingstone, 1993; 403–413.

Lawton F. The management of endometrial cancer. British Journal of Obstetrics and Gynaecology, 1997; 104: 127–134.

Rose P. Endometrial carcinoma. The New England Journal of Medicine, 1996; 335: 640-648.

Semple D. Endometrial cancer. British Journal of Hospital Medicine, 1997; 57: 260–262.

# Hepatitis

299

# Cervical caps

Barrier methods protect against the development of cervical dyskaryosis.

# PAPER FIVE

# Allow 2 hours for completion of this paper

### Norplant

- 1. Contains five rod-shape capsules for sub-dermal insertion
- 2. Initial plasma levels (day 1) are 10 times higher than at 6 months
- 3. Is associated with an increased risk of developing functional ovarian cysts
- If inserted on the first day of the menstrual cycle does not require extra contraceptive cover
- 5. If inserted within 21 days of delivery does not require extra contraceptive cover
- If inserted within 21 days of termination of pregnancy does not require extra contraceptive cover
- 7. Causes irregular vaginal bleeding in 60-100% of users in the first year
- 8. Failure rates differ with each year of use
- 9. It is the most successful, reversible, long-term contraceptive agent to date
- 10. Raised progestogen levels persists for 28 days after removal of implants

### Currently the 5 year survival for patients with vulval cancer

- 11. In stage four disease is 20%
- 12. Is 75% if lymph nodes are not involved
- 13. Is 10% if lymph nodes are involved

### Vulval skin

14. Is exquisitely sensitive to radiation

# Amniotic fluid embolism may present with

- 15. Adult respiratory distress
- 16. Cardiovascular collapse
- 17. Haemorrhage
- 18. Sudden death

# Methotrexate in the treatment of ectopic pregnancy

- 19. Is contraindicated if a fetal heart beat is seen outside the uterine cavity
- 20. Is accompanied by an immediate fall in serum beta HCG levels
- Is successful in >90% of selected cases

### Anaemia in pregnancy

- 22. Iron requirements are at their highest level in the late third trimester
- 23. Vitamin B12 deficiency is the commonest cause of megaloblastic anaemia
- 24. The overall incidence of megaloblastic anaemia in the UK is 5%

### VIN

- 25. Presents with vulval itching
- 26. VIN associated cancers are commoner in young women
- 27. VIN has a malignant potential similar to CIN
- 28. The risk of progression of VIN to invasive cancer is greater in older women

#### TENS

- 29. Electrodes should be placed over the posterior rami of T10-L1 and S2-4
  - 30. Works by stimulating large sensory fibres

# Breech presentation

- 31. The incidence at 32 weeks gestation is 16%
  - 32. The commonest type is the flexed breech
  - 33. Is associated with handicap rates of 20% regardless of mode of delivery
  - Fetal weight estimation via ultrasound scan in late third trimester is more useful than X-ray pelvimetry in deciding the mode of delivery
  - Undiagnosed breech is associated with increased perinatal mortality and morbidity
  - 36. Up to a third of all breech presentations could first be diagnosed in labour

# Vulval cancer and pregnancy

- Radical surgery for vulval cancer in pregnancy is contraindicated, especially because of the increased risk of abortion from the general anaesthetic
- 38. Vaginal delivery is contraindicated if vulval cancer is diagnosed in pregnancy

# Dyspareunia can be associated with

- 39. Hydrosalpinx
- 40. Bechet's syndrome
- 41. Appendicitis

# 108 PAPER FIVE

### Delivery in women with cardiac disease

- Elective forceps delivery is the preferred mode of delivery for woman with cardiac disease
- Ergometrine should not be used for the routine prophylaxis of post-partum haemorrhage but can be used in the treatment of primary post-partum haemorrhage
- Syntocinon is the drug of choice for the management of primary post-partum haemorrhage
- Eight hourly intramuscular injections of ampicillin 500 mg and gentamycin 80 mg provide adequate prophylaxis against endocarditis in labour

## Risk factors for developing cervical cancer include

- 46. Smoking
- 47. Late menopause
- 48. Early age of first intercourse
- 49. Precocious puberty
- 50. Low social class

### Cephalo-pelvic disproportion (CPD)

- 51. Is associated with a high head at 37 weeks of pregnancy
- 52. Prolonged latent phase of labour and significant caput are the signs
- 53. Mild degree of fetal head moulding in labour is a sign of CPD
- 54. The diagnosis should never be made without trial of labour

#### Warfarin

- 55. Is teratogenic when given at 10-12 weeks of pregnancy
  - 56. If a pregnancy occurs whilst a woman is on warfarin termination is advised
  - 57. Microcephaly and optic nerve atrophy are known associations
  - 58. Breastfeeding is contraindicated
  - 59. Based on the INR, therapeutic ranges should always be between 2 and 2.5
  - 60. Warfarin should be converted to heparin therapy late in the third trimester where possible
- If a woman on warfarin starts to labour 10 mg of vitamin K IM will reverse the hypocoagulation effectively
- If a woman on warfarin starts to labour Caesarean section is the preferred mode of delivery

# With regard to Paget's disease of vulva

- 63. The incidence of underlying adenocarcinoma is 5%
- Adenocarcinoma in association with Paget's disease occurs only locally in the lower genital tract
- 65. If Paget's disease involves the perianal area the risk of rectal cancer is 10%
- 66. Paget's disease is a squamous intraepithelial neoplasia

# Neonatal risks in a diabetic pregnancy are

- 67. Hyperglycaemia
- 68. Anaemia
- 69. Hyperbillirubinaemia
- 70. Birth trauma
- 71. Hypermagnesaemia
- 72. Hypocalcaemia
- 73. Increased risk of developing diabetes in late life.

### Problems in the puerperium

- Eight weeks after delivery about 40% of women still experience at least one health problem
- 75. The incidence of post-partum anaemia is 25-30%
- Prophylactic antibiotics at Caesarean section reduce the risk of puerperal febrile morbidity by a third and serious post-partum infection by 25%
- 77. Perincal pain persists for more than 2 months after delivery in 30% of women
- 78. Megapulse and ultrasound post-partum significantly improve perineal pain
- Mefenamic acid is more effective than paracetamol in relieving post-partum perineal pain

# The incidence of vulvo-vaginal candidiasis is increased

- 80. In pregnancy
- 81. In HIV positive patients
- 82. In women with oestrogen implants
- 83. In renal transplant patients
- 84. By injection of depo-medroxyprogesterone acetate
- 85. By levonorgestrel implants
- 86. By use of the modern combined oral contraceptive pill
- 87. The incidence has increased over the last years

#### Amniocentesis

- 88. Prevents polyhydramnios
- 89. Down's syndrome can be diagnosed by radioimmunoassay of amniotic fluid
- 90. Positive Kleihauer test is a recognized complication

### With regard to the management of recurrent miscarriage

- Subcutaneous heparin with steroids should be used as a first line therapy for the treatment of recurrent miscarriage associated with abnormal maternal blood clotting
- 92. GnRH analogues are highly effective in women with high basal LH level
- 93. HCG luteal phase support is an effective treatment in preventing miscarriage

### Fetal hypoxia

- When acute, leads to loss of fetal breathing movements, flexor tone and heart rate accelerations
- 95. When chronic manifests with oligohydramnios

### In the diagnosis of early pregnancy

- 96. Radio-immunoassays can detect beta HCG levels of 5 IU/I
- 97. Radio-immunoassays can detect beta HCG in serum 9 days after ovulation
- 98. Urinary beta HCG radio-immunoassays become positive before serum ones
- Transvaginal scans allow for the earlier diagnosis of pregnancy than biochemical methods
- Transvaginal scans allow for the earlier diagnosis of pregnancy than transabdominal scans
- 101. A beta HCG level of more than 5 IU/l is diagnostic of pregnancy
- Doubling serum beta HCG every 4 days is indicative of an intrauterine pregnancy

# Perioperative death

 Is defined as a death under anaesthesia, during surgery and up to 42 days after surgery

# Recognized indications for a GTT include

- 104. Single episode of glycosuria in early pregnancy
- 105. Family history of diabetes
- 106. Previous baby more than 4 kg
- 107. Polyhydramnios
- 108. Fetal macrosomia
- 109. When random blood glucose level exceeds 11 mmol/l

### Regarding sterilization

- 110. The incidence of failure of female sterilization is 2-5/1000
- 111. 80-90% of failures of female sterilization are operator dependent
- 112. Male sterilization is a safer procedure than female sterilization
- Laparoscopic sterilization has a higher success rate than sterilization at Caesarean section
- 114. Quinacrine pellets have been used effectively

### The following postoperative complications match

115. DVT	Day 2-3
116. Paralytic ileus	Day 7-10
117. Atelectasis	Day 3-4
118. Wound dehiscence	Day 3-4
119. Secondary haemorrhage	Day 3-5

### Haemoglobinopathies

- 120. Alpha-thalassaemia major deteriorates during pregnancy
- 121. HbH occurs when 2 alpha globin genes are absent, and is associated with severe anaemia
- 122. Haemoglobin Barts occurs when 3 alpha chain genes are absent
- Haemoglobin electrophoresis in a patient affected with beta-thalassaemia major shows absence of haemoglobin A<sub>2</sub>

# Mifepristone

- 124. Is a better tolerated and more effective post-coital contraceptive agent when compared to the Yuzpe regime
- 125. Can be used effectively in the conservative treatment of molar pregnancies
- 126. When given just before the LH surge delays ovulation
- 127. Has a 3-5 times greater affinity for the progesterone receptor than progesterone itself
- 128. Has anti-glucocorticoid effects

### Match the contraceptives with the correct contraindications

129.	OCP	Dubin-Johnson syndrome
130.	POP	Recent trophoblastic disease

13L LNG-IUD Wilson's disease 132. OCP Vincent's angina

### Polyhydramnios

- 133. Is diagnosed if the liquor volume at term is greater than 1000 ml
- 134. Is associated with an increased intrauterine pressure in over 60% of eases.
- 135. Is associated with an increased incidence of leg oedema
- 136. Is associated with poorly controlled diabetes
- 137. Is found more often with dizygotic than monozygotic twins

# Regarding cervical cytological screening

- 138. The Jordan spatula allows better sampling of the endocervical canal than the Ayres spatula
- 139. After a cone biopsy a cytobrush is preferred to an Ayres spatula for cytological follow up
- 140. If the squamo-columnar junction is invisible cytological screening loses its value and should be abandoned
- 141. Residual VAIN on the vault after hysterectomy can be adequately monitored with vault smears
- 142. In post-menopausal women an Ayres spatula is the best way to sample the cervix

# Drugs contraindicated whilst breastfeeding include

- 143. Rifampicin
- 144. Nalidixic acid
- 145. Fluoxetine
- 146. Senna

# Leukoplakia

147. Is an irregular thickening and whitening of the vulval skin that is seen in several pathological conditions

### The following maternal diseases can affect the neonate

- 148. Idiopathic thombocytopenic purpura
- 149. Chickenpox
- 150. Herpes simplex
- 151. Syphilis
- 152. Hyperthyroidism

### With regard to staging of endometrial cancer

- 153. Presence of cervical stromal invasion is stage IIb
- 154. Positive peritoneal cytology is characteristic for stage IIIa
- 155. A tumour invading bladder and bowel mucosa is stage IVa

### The incidence of endometrial cancer

- 156. It is the third commonest cancer in women in the UK
- 157. Has been declining over the last decade
- 158. Is higher in the developing countries

### Gonorrhoea

- 159. Gonococci are Gram-negative diplococci specifically affecting genital tract epithelium
- 160. Transmission of the organism occurs more readily from women to men than vice versa
- 161. The gonococcus is fastidious requiring carbon dioxide for its growth
- 162. Is adequately isolated with a high vaginal swab
- 163. Is associated with arthritis in 1% of cases
- 164. Late stage disease may present with collapse from a ruptured aortic aneurysm

# Confidential Enquiry into Stillbirths and Deaths in Infancy

- 165. Sub-optimal care caused 78% of the intrapartum related deaths
- 166. Is an attempt to identify ways in which late fetal losses, stillbirths and deaths in infancy might be prevented
- 167. The fourth biannual report was released in 1997
- 168. Intrapartum mortality rates have decreased steadily over the last years

# In hepatitis B infection

- 169. HBe Ag is a marker of low infectivity
- 170. HBe Ab is a marker of low infectivity
- 171. HBc lgG is a medium term marker of previous exposure to HBV
- 172. HBc IgM is an indicator of acute infection

### 114 PAPER FIVE

### In the diagnosis of bacterial vaginosis

- 173. Clue cells are bacterial
- 174. Vaginal pH is > 3.5
- 175. A positive amine test is demonstrated by the presence of a fishy smell when adding 10% HCl to a slide containing the vaginal discharge

### With regard to urodynamics

- 176. The normal peak flow rate is at least 15 ml/s for a voided volume of at least 150 ml
- 177. Reduced maximum urine flow rate ( < 15 ml/s) indicates outflow obstruction
- 178. A low compliant bladder is diagnosed by a detrusor pressure of at least 10 cm H<sub>2</sub>O for a filled volume of 500 ml
- 179. Maximum detrusor pressure during voiding is less than 60 cm H<sub>2</sub>O

### Miscarriage and termination of pregnancy

- 180. WHO defines an abortion as the expulsion or extraction from its mother of a fetus or an embryo weighing 500 g or less
- In UK law spontaneous abortion is defined as pregnancy loss before 24 weeks gestation
- 182. The upper limit for social termination of pregnancy is 24 weeks

# Misoprostol

- 183. Is prostaglandin E2
- 184. Is more expensive than gemeprost
- 185. Oral administration requires a much higher dose than vaginal administration
- 186. 800 mg is the minimal effective dose for medical termination of pregnancy

# Chorionic villus sampling (CVS)

- 187. Is safe before 8 weeks, with a fetal loss rate of 3-4%
- 188. Can be used to diagnose neural tube defects earlier than amniocentesis
- 189. If the procedure fails, later amniocentesis is contraindicated
- 190. Sampling is best achieved by taking 10-20 mg of villi from the chorion laeve
- 191. Results are quicker than amniocentesis and as reliable

# Regarding treatment of pruritus vulvae

- 192. Topical application of oestrogen cream is a universally effective treatment method
- 193. Topical testosterone cream is an effective therapy
- 194. Betnovate is a more potent steroid than dermovate

### Congenital dislocation of the hip (CDH)

- 195. Is more common in females than males
- 196. Is associated with breech presentation at term
- 197. Is bilateral in more than 50% of cases
- 198. Is associated with amniocentesis
- 199. Is associated with polyhydramnios
- 200. Its incidence is influenced by the method of breech delivery

### Radiotherapy

- 201. Ionizing radiation affects the genetic material of the cell
- 202. Cells with high mitotic rate are preferentially killed
- 203. Hypoxic cells have higher radiosensitivity
- 204. Is a treatment of choice for stage III vaginal cancer
- 205. Is a first line treatment for recurrent gynaecological cancer
- Can be used to relieve lymphatic obstruction of the lower limb in advanced gynaecological cancer
- 207. Is a first line treatment for patients with a locally advanced cancer of the cervix

# The following drugs administered during pregnancy are correctly paired

208. L-Thyroxine	Neonatal thyrotoxicosis
209. α-Methyldopa	Fetal tachycardia
210. Chlorothiazide.	Maternal pancreatitis
211. Glibenclamide	Neonatal hyperglycaemi

212. Phenytoin sodium Maternal anaemia secondary to B12 deficiency

# Clear cell adenocarcinoma of the vagina

- 213. Is a childhood tumour of infants who have been exposed to diethylstilboestrol in utero
- 214. Chemotherapy is the treatment of choice

# Ergometrine

- 215. Like oxytocin, causes contraction of the myoepithelial cells in the maternal breasts
- 216. Its onset of action is 45 seconds after intravenous injection

#### Bartholin's carcinomas

217. 25% of Bartholin's carcinomas present as an abscess

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### Rubella is linked to

- 218. Neonatal anaemia
- 219. Spontaneous abortion
- 220. Neonatal purpura
- 221. Congenital deafness

### Surgical management of urinary incontinence

- 222. Marshall-Marchetti-Kranz procedure is associated with periosteitis pubis in 1%
- 223. Porcine dermis could be used for Stamey procedure for GSI
- 224. The needle suspension of the bladder neck is associated with a 15% incidence of voiding difficulties and de novo detrusor instability
- 225. If treatment of urinary incontinence with perjurethral injections of collagen fails other surgical procedures are necessary

# Extremely premature infants

- 226. Are at high risk for sudden infant death at home
- 227. Have a 10% risk of bilateral blindness
- 228. Have a 1% risk of severe sensorineural deafness
- 229. Have an almost 1% risk of major sensorineural impairment
- 230. Are at risk of later hospital admissions for medical and surgical indications

### Donor insemination

- 231. Is no longer required since the introduction of intracytoplasmic sperm injection (ICSI)
- 232. Decreased success rates occur with frozen as opposed to fresh samples
- 233. All donors are screened once for HIV
- 234. Is regulated by HFEA
- 235. Any donor is limited to the number of families they can create

# Meconium aspiration

- 236. Is always associated with low Apgar score at 5 minutes
- 237. Is common in post-term pregnancies

### Primary amenorrhoea is characteristically associated with

- 238. Down's syndrome
- 239. Kallman's syndrome
- 240. Turner's syndrome
- 241. Testicular feminization syndrome
- 242. XXX karyotype
- 243. Edward's syndrome

### Post-coital bleeding can be caused by

- 244. CIN 3
- 245. IUCD

### Recognized complications of eclampsia include

- 246. Cerebral haemorrhage
- 247. Hypothermia
- 248. Renal cortical necrosis

### The following are not associated with an increase in the risk of acquiring PID

- 249. Early commencement of sexual relations
- 250. Frequent intercourse
- 251. Pelvic surgery
- 252. Recurrent candidal infections
- 253. IUCD in a stable relationship

### Face presentation

- 254. Incidence is 1 in 200 deliveries
- 255. First stage is prolonged
- 256. There is an increased chance of a cord prolapse
- 257. Presenting diameter is submento-vertical
- 258. At term mento-posterior position can safely be delivered vaginally
- Vacuum extraction is safe when performed by a skilled person under epidural analgesia

# After the menopause the following may occur

- 260. Reduction in vaginal acidity
- 261. Loss of libido
- 262. Memory loss
- 263. Gonadotrophin secretion falls
- 264. Osteoblastic activity increases

### The following mortalities match

265. Perinatal Stillbirths and live births up to 14 days per 1000 live births

266. Post-neonatal Deaths after 28 days of birth to 1 year

267. Neonatal Deaths within 7 days of birth

### Treatment of the premenstrual syndrome

- 268. Patient response to placebo is around 90%
- 269. Pyridoxine and oil of evening primrose are highly effective in treatment of mild cases
- Levonorgestrel-loaded IUD can be successfully used in conjunction with hormonal therapy in women refusing a hysterectomy
- Combined surgical and hormonal therapy may be successful in management of severe cases
- 272. Diuretics have been proven to be effective

# Epilepsy in pregnancy

- 273. Multiple anticonvulsant therapy is preferred as it has a better prophylactic effect in reducing the risk of convulsions
- 274. Anticonvulsants can be discontinued before pregnancy if a woman has been symptom-free for 2 years.
- 275. A woman on anticonvulsants planning a pregnancy should be started on low dose folate 3 months before discontinuing contraception in order to reduce the risk of neural tube defects
- 276. Epileptic women in pregnancy should be treated with carbamazepine
- Anticonvulsants in late pregnancy are known to be associated with Vitamin K deficiency in the neonate
- 278. Anticonvulsant levels are better monitored in saliva
- 279. A woman requiring anticonvulsants in pregnancy can be reassured that the fetal abnormalities liable to occur due to these medications can be diagnosed by ultrasound and the pregnancy terminated if necessary
- 280. Anticonvulsant therapy reduces the risk of intrauterine fetal death
- The low dose combined oral contraceptive pill is the contraceptive of choice for a woman on anticonvulsants

### Post-partum period and diabetes

- 282. A diabetic woman should be discouraged from breastfeeding
- 283. The contraceptive of choice is the combined oral contraceptive pill
- 284. IUCD should not be used

### Bacteroides infection is associated with

- 285. Endotoxic shock
- 286. Premenarcheal vaginal bleeding
- 287. Disseminated intravascular coagulation
- 288. Leucopenia
- 289. Renal tubular or cortical necrosis
- 290. Puerperal sepsis
- 291. B. fragilis colonization of the vagina

### In pregnancy

- To reduce the maternal mortality from road traffic accidents, three point harness seat belts are recommended
- 293. Most drugs are safer for use in the second trimester of pregnancy than in the first, because increasing placental maturation provides more effective protection for the fetus from the effects of therapeutic levels of the drugs
- 294. Visual display units are associated with increased risk of miscarriage
- 295. Vertical transmission of hepatitis C is less likely to occur than B, but it can affect the fetus

#### Match

296. BRAC 1	Chromosome 17
297. Cystic hygroma	Chromosome 21
298. Choroid plexus cysts	Chromosome 18
299. Holoprosencephaly	Chromosome 13

#### UTIS

 E. coli is cultured in mid-stream urine specimens in 80% of women with urinary tract infection

# ANSWERS TO PAPER FIVE

The numbers of the correct answers are given

### Norplant

3, 4, 7, 8, 9

Consists of 6 capsules releasing levonorgestrel and is efficacious for 5 years. 24 hours after insertion, the plasma levels are 1-2 ng/ml, falling to 0.25-0.4 ng/ml by 6 months (4-5 times higher initially). From then on they remain constant. If implanted on days 2-5 of the menstrual cycle, barrier methods are advised for 7 days. It can be implemented from 21 days post partum (using a barrier method for 7 days) and on days 1-5 after a termination. Progesterone levels become undetectable within 48 hours of removal of the capsules.

### References

L. Mascurenhas, J. Newton. Contraceptive implants. In: Studd J, ed. Progress in Obstetrics and Gynaecology, Volume 12. Edinburgh: Churchill Livingstone, 1996. Long-acting progestogen-only contraception. Drugs and Therapeutics Bulletin, 1996; 34: 93–96.

# Currently the 5 year survival for patients with vulval cancer

12 (Vulva)

The survival rate falls from 75% if the lymph nodes are not involved, to 40% in lymph node-positive patients.

#### Reference

Helm CW, Shingleton HM. The management of squamous cell carcinoma of the vulva. Current Obstetrics and Gynaecology, 1992; 2: 31–37.

#### Vnival skin

14 (Radiotherapy, Vulva)

### Amniotic fluid embolism may present with

15, 16, 17, 18 (Amniotic fluid embolism)

Other presentations include septic or anaphylactic shock, aspiration pneumonitis, pulmonary embolism, myocardial infarction. Disseminated intravascular coagulopathy can lead to haemorrhagic complications.

#### References

Report on Confidential Enquiries into Maternal Deaths in the United Kingdom, 1991-1993, London: HMSO, 1996.

Still DR. Postpartum haemorrhage and other problems of the third stage. In: James DK, Steer PJ, Weiner CP, Gonik B. eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994; 1167–1181.

### Methotrexate in the treatment of ectopic pregnancy

19, 21 (Ectopic pregnancy)

HCG levels often increase initially, monitoring of serum beta HCG ensures cessation of trophoblastic activity.

### Anaemia in pregnancy

24 (Anaemia in pregnancy)

Iron requirements in pregnancy are at their highest level at 32 weeks. Megaloblastic anaemia is commonly due to folate deficiency. Vitamin B12 deficiency is rare.

### Reference

Stirrat GM. Aids to Obstetrics and Gynaecology for MRCOG, 4th edition. Edinburgh: Churchill Livingstone. 1997; 78–79.

#### VIN

26, 28 (Vulva)

Itching is not necessarily a feature of VIN. The malignant potential of VIN is lower than that of CIN. The risk of progression of VIN to cancer is higher in elderly and immunosuppressed patients.

### References

Evans S. Vulval skin disease and the gynaccologist. British Journal of Hospital Medicine, 1997; 57: 579–581.

Maclean AB. Precursors of vulval cancers. Current Obstetrics and Gynaecology, 1993; 3: 149–156

Sarhanis P, Blackett AD, Sharp F. Intraepithelial neoplasia of the anogenital area: a multicentric condition. Current Obstetrics and Gynaecology, 1996; 6: 92–97.

### TENS

29. 30 (Analgesia/anaesthesia in labour)

### Breech presentation

31, 33, 34, 36 (Breech)

The incidence of breech presentation declines from 16% at 32 weeks to 3-4% at 40 weeks. The incidence of flexed breech is 25%; extended breech is the commonest at 65%. About one third of breeches are first diagnosed in labour, but this is not found to be associated with increased perinatal mortality.

### References

Burr RW, Johanson RB. Breech presentation: is external cephalic version worthwhile? Progress in Obstetrics and Gynaecology, 12: 87-96.

Saunders NJ. The management of breech presentation. British Journal of Hospital Medicine, 1996; 56(9): 456–458.

# Vulval cancer and pregnancy

(Cancer in pregnancy)

Although surgery does increase the risks of abortion, radical vulvectomy with bilateral groin node dissection may be performed in the first half of pregnancy. Vaginal delivery is not contraindicated either after radical vulvectomy, or in women with the cancer if the lesion is remote from the introitus.

# Dyspareunia can be associated with

39, 40, 41 (Dyspareunia)

### Delivery in women with cardiac disease

43, 45 (Cardiac disease in pregnancy)

Elective forceps delivery is not necessary in all women with cardiac disease. However, instrumental assistance should be considered if the second stage of labour becomes prolonged or cardiac disease is severe. Ergometrine should not be routinely used for prophylaxis of post-partum haemorrhage, to avoid blood pressure fluctuations, but it is recommended for the management of primary post-partum haemorrhage. Syntocinon is the drug of choice for prophylaxis.

### References

De Swiet M, ed. Medical Disorders in Obstetric Practice. Oxford: Blackwell Scientific Publications, 1994.

Oakley CM. Pregnancy and heart disease. British Journal of Hospital Medicine. 1996; 55: 423-426.

### Risk factors for developing cervical cancer include

46, 48, 50 (Cancer of the cervix)

Precocious puberty is not associated with sexual promiscuity. Late menopause is a risk factor for endometrial and breast cancer.

# Cephalopelvic disproportion (CPD)

(Cephalopelvic disproportion)

CPD should be suspected with a high fetal head after 39 weeks of gestation, a prolonged latent phase of labour, poor application of the fetal head to the cervix, when slow progress in labour is associated with contractions becoming irregular and weak, and progressive fetal head moulding. Mild degrees of moulding are not necessarily signs of CPD, as safe delivery of the fetus is possible. Caput is not a sign of CPD, but it may obscure moulding and make the diagnosis of CPD difficult. The diagnosis of CPD can be made without a trial of labour in rare cases like a large hydrocephalus.

### Reference

Pelvimetry-Clinical indications. March 1998, Guideline No. 14.

### Warfarin

57, 59, 60, 62 (Coagulation and pregnancy)

Warfarin embryopathy is associated with drug administration at 6-9 weeks of pregnancy. Therefore, if the pregnancy has occurred while a woman was on warfarin, termination is not necessary if the drug was discontinued before six weeks' gestation. Warfarin embryopathy also includes chondrodysplasia and neurological abnormalities. Warfarin is not contraindicated in a breastfeeding mother. An INR of 2-2.5 is sufficient for DVT prophylaxis but is too low for treatment of emboli (2-3) or use with prosthetic heart valves (3-4.5). It should be substituted with heparin at 2-3 weeks before delivery in order to reduce the risk of post-partum haemorrhage and fetal intracranial haemorrhage. If a woman on warfarin starts to labour, 10 mg of vitamin K should be administered together with fresh frozen plasma to achieve immediate reversal of anticoagulant effects. Caesarean delivery is preferred to vaginal in order to minimize the risks of fetal intracranial haemorrhage.

### Reference

Horn EH. Anticoagulants in pregnancy. Current Obstetrics and Gynaecology, 1996; 6: 111–118.

### With regard to Paget's disease of vulva

Paget's disease is a non-squamous, premalignant condition. The incidence of underlying adenocarcinoma is 25%. Adenocarcinoma can occur locally or at distant sites (e.g. breast, urinary tract). When Paget's disease involves the perianal area the risk of rectal carcinoma is 70%.

### Reference

MacLean AB. Precursors of vulval cancers. Current Obstetrics and Gynaecology 1993; 3: 149–156.

# Neonatal risks in diabetic pregnancy are

69, 70, 72, 73 (Diabetes and pregnancy)

Neonatal risks include hypoglycaemia, polycythaemia, hypomagnesaemia. The risk of developing diabetes in late life is estimated at 1% against 0.1% for the general population.

# References

Johnstone FD. Pregnancy management in women with insulin-dependent diabetes. British Journal of Hospital Medicine. 1997; 58(5): 207-210.

Pearson JF. Pregnancy and complicated diabetes. British Journal of Hospital Medicine, 1993; 49(10): 739–742.

Vaughan NJA. Diabetes in pregnancy. Current Obstetrics and Gynaecology, 1994; 4: 155–159.

# Problems in the puerperium

75, 79

Puerperal morbidity is extensive. Eight weeks after delivery about 80% of women experience at least one health problem. Prophylactic antibiotics at Caesarean section reduce the risk of puerperal febrile morbidity to a third and serious post-partum infection to a quarter. In 8-10% of women perineal pain persists for more than eight weeks.

## Reference

Glazener CMA. Postpartum problems. British Journal of Hospital Medicine, 1997; 58(7): 313–316.

# The incidence of vulvo-vaginal candidiasis is increased

80, 81, 82, 83, 87

Progestogen implants and injections reduce the risk of vaginal candida infection. Modern combined oral contraceptive pills do not increase the risk of vulvo-vaginal candidiasis.

#### References

Emens JM. Intractable vaginal discharge. Current Obstetrics and Gynaecology, 1993; 3: 41-47.

Thomas EJ, Rock J. Benign Gynaecological Disease. Oxford: Health Press. 1997; 52-58.

#### Amniocentesis

90 (Prenatal diagnosis)

Amniocentesis is used to drain amniotic fluid in polyhydramnios in order to provide symptomatic relief to the mother and to prolong pregnancy, but it cannot prevent polyhydramnios. Down's syndrome is diagnosed by chromosomal analysis of the fetal cells in the amniotic fluid.

# With regard to the management of recurrent miscarriage

(Abortion spontaneous/recurrent)

Therapy with steroids and heparin has a high incidence of maternal complications and potential side effects on the developing fetus. GnRH analogues are not effective and there is no evidence to support the use of HCG.

### Reference

Rai R. Regan L. Recurrent miscarriage. PACE review No 96/08.

# Fetal hypoxia

94, 95

#### References

Alfirevic Z, Neilson JP. Fetal growth retardation: methods of detection. Current Obstetrics and Gynaecology, 1993; 3: 190–195.

Harman C, Menticoglou S, Manning F, Albar I, Morrison I. Prenatal fetal monitoring. Abnormalities of fetal behaviour. In: James DK, Steer PJ, Weiner CP, Gonik B (eds). High Risk Pregnancy Management Options. London: WB Saunders Company. 1994; 693–734.

### In the diagnosis of early pregnancy

96, 97, 100 (Ectopic pregnancy)

Rises in HCG are first seen in serum (9 days after ovulation) then urine (at 13 days). Levels of more than 25 IU/l are necessary to diagnose a pregnancy. Pregnancy is diagnosed earlier with biochemical methods than with transvaginal scans. Ectopic pregnancy is more likely under the circumstances described in 102.

### Perioperative death

(Report on the National Confidential Enquiry into Perioperative Deaths)

Is defined as a death under anaesthesia, during surgery and up to 30 days after surgery.

# Recognized indications of GTT include

105, 107, 108 (Diabetes and pregnancy)

GTT is indicated in the presence of a single episode of glycosuria in late pregnancy or two episodes in early pregnancy and when the previous baby was more than 4.5 kg at birth. Random blood glucose more than 11 mmol/l indicates that glucose tolerance is abnormal, therefore a GTT is not necessary.

### Reference

Maresh MJA. Glucose intolerance in pregnancy. PACE review No 97/03.

### Regarding sterilization

110, 112, 113, 114 (Contraception and sterilization) 30-40% of failures are thought to be operator-dependent.

### Reference

Sokal DC, Zipper J, King T. Transcervical quinacrine sterilisation: clinical experience. In: Wilson (ed). The development of new technologies for female sterilisation. Intern Journal of Gynecology and Obstetrics, 1995; 51 (suppl. 1): 557–569.

# The following postoperative complications match

115, 118 (Perioperative complications)

Paralytic ileus is normally present by days 3-4. Atelectasis occurs in the first couple of days. Wound dehiscence can occur at any time. Secondary haemorrhage by definition occurs after 7 days.

# Haemoglobinopathics

Alpha thalassaemia major is incompatible with life; all four genes for alpha globin are absent and haemoglobin electrophoresis shows gamma tetramers known as haemoglobin Barts which is unable to carry oxygen. Absence of three genes of alpha globin leads to beta tetramer formation known as haemoglobin H, and increased concentrations of fetal haemoglobin. In beta-thalassaemia major, HbA<sub>2</sub> and HbF are present and HbA<sub>1</sub> is absent.

### Reference

Malpas JS, Story P. Diseases of the blood. In: Kumar PJ, Clark ML, eds. Clinical Medicine. London: Ballière Tindall, 1988; 260–301.

### Mifepristone

### 124, 127, 128

When given just before the LH surge, mifepristone has no effect on ovulation or the length of the luteal phase. Mifepristone is useful in the conservative management of miscarriage.

# Match the contraceptives with the correct contraindications 129, 130

Copper IUCDs are contraindicated in Wilson's disease. Vincent's angina is a pharyngeal infection treated with metronidazole.

### Polyhydramnios

### 135, 136 (Polyhydramnios/oligohydramnios)

Polyhydramnios at term is diagnosed when the liquor volume is greater than 2000 ml, the amniotic fluid index is greater than 20 or the largest amniotic pool is greater than 8 cm. It is more common in monozygotic twins. In poorly controlled diabetes, fetal hyperglycaemia and polyuria are the possible causes. Polyhydramnios causes uterine over-distension and pressure on the inferior vena cava, thus reducing venous return from the lower limbs which causes oedema.

### Reference

Stark C. Disorders of the amniotic fluid. In: Frederickson HL. Wilkins-Haug L, eds. Ob/Gyn Secrets. Philadelphia: Hanley & Belfus Inc., 1991; 217–220.

### Regarding cervical cytological screening

# 138, 139 (Premalignant disease of the cervix)

Amongst the currently available sampling devices, the one mainly used for sampling the ectocervix is the Ayres spatula. The endocervix is better sampled with Jordan and Aylesbury spatulas, cytobrush and Cervex. These devices should be used for cytological follow-up after cone biopsy and when the squamo-columnar junction is invisible (e.g. in post-menopausal women). In practical terms the cytobrush allows better sampling of the endocervical canal than Ayres spatula but should not be used alone. Cytological screening is necessary even if the squamo-columnar junction is invisible, but the endocervical canal should be sampled. Residual VAIN may remain beyond suture lines and be inaccessible to cytological follow-up.

### References

Macgregor JE. What constitutes an adequate cervical smear? British Journal of Obstetrics and Gynaecology, 1991; 98: 6-7.

Sasieni P. Cervical sampling devices. BMJ 1996; 313: 1275-1276.

# Drugs contraindicated whilst breastfeeding include 145, 146

Rifampicin is excreted in the breast milk in amounts too small to be harmful. Nalidixic acid is thought to be safe but one case of haemolytic anaemia has been reported. Fluoxetine is not recommended. Senna and other anthraquinones increase gastric motility and may cause diarrhoea.

#### Reference

British National Formulary. 36; March 1998.

# Leukoplakia

147

### Reference

Maclean AB. Precursors of vulval cancers. Current Obstetrics and Gynaecology, 1993; 3: 149–156.

### The following maternal diseases can affect the neonate

148, 149, 150, 151, 152 (Infection in pregnancy, Thyroid and pregnancy)

### Reference

MacLean AB, Cockburn F. Maternal and perinatal infection. In: Whitfield CR. ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates. 5th edn. Oxford: Blackwell Science, 1995; 477–491.

# With regard to staging of endometrial cancer

153, 154, 155

### References

Irwin CJR. The Management of endometrial carcinoma. British Journal of Hospital Medicine, 1996; 55: 308–309.

Semple D. Endometrial cancer. British Journal of Hospital Medicine, 1997; 57: 260–262.

#### The incidence of endometrial cancer

This is the ninth commonest cancer in women in the UK. Its incidence is higher in developed countries and is on the increase,

#### References

Rose P. Endometrial carcinoma. The New England Journal of Medicine, 1996; 335: 640–648.

Semple D. Endometrial cancer. British Journal of Hospital Medicine, 1997; 57: 260–262.

#### Gonorrhoea

### 161, 163 (Sexually transmitted disease)

Gonococci are Gram-negative diplococci that attack the columnar epithelium of the endocervix and the transitional epithelium of the urethra. Transmission of the organism occurs more readily from infected men to women than vice versa (50% compared with 20%). It is not adequately isolated with a high vaginal swab. Late stage syphilitic disease may present with collapse from a ruptured aortic aneurysm.

# Confidential Enquiry into Stillbirths and Deaths in Infancy

166 (Confidential Enquiry into Stillbirths and Deaths in Infancy (CESDI))

The Confidential Enquiry into Stillbirths and Deaths in Infancy was established in 1992. The reports are released annually; the fourth report was released in 1997. The intrapartum mortality rates have stayed constant. However, 78% of the deaths were criticized for sub-optimal care that would have made a difference to 52% of the outcomes and may have made a difference to a further 25% of outcomes.

### In hepatitis B infection

170, 172

HBe Ag is a marker of high infectivity. HBc IgG is a permanent marker of previous exposure to HBV.

### Reference

Stabile I, Chard T, Grudzinskas G. Clinical Obstetrics and Gynaecology. New York: Springer-Verlag, 1996; 190.

### In the diagnosis of bacterial vaginosis

Clue cells are large epithelial cells with bacteria attached to their surface. Vaginal pH is >4.5. 10% KOH is used for the amine test.

### References

Lamont RF. Bacterial vaginosis. The Year Book of the RCOG 1994; 149-158.

MacDermott RIJ. Bacterial vaginosis. British Journal of Obstetrics and Gynaecology, 1995; 102: 92–94.

### With regard to urodynamics

176, 179 (Urinary incontinence: urodynamics)

Urine flow less than 15 ml/s may also indicate inadequate detrusor function. Low compliance is diagnosed by a detrusor pressure of at least 10 cm H<sub>2</sub>O for a filled volume of 300 ml, or a rise of at least 15 cm H<sub>2</sub>O for a filled volume of 500 ml.

#### References

Cardozo L, Hill S. Urinary incontinence. RCOG PACE review 96/09.

Jarvis GJ. Female urinary incontinence – which patients? – which tests? The Year Book of The RCOG 1994; 111–120.

Richmond D. The incontinent woman: 1. British Journal of Hospital Medicine, 1993; 50: 418–423.

# Miscarriage and termination of pregnancy

180, 181 (Therapeutic abortion)

There is no such thing as a social termination.

# Misoprostol

(Therapeutic abortion)

This is a PGE<sub>1</sub> analogue, which is becoming increasingly popular due to its lower cost. Similar doses are used for vaginal and oral administration. Although it has been used in a dose of 800 mg there is a strong evidence that 200 mg is as effective.

### Reference

Henshaw RC, Templeton AA. Methods used in first trimester abortion. Current Obstetrics and Gynaecology, 1993; 3: 11–16.

# Chorionic villus sampling (CVS)

(Prenatal diagnosis)

CVS is usually performed between 10 and 14 weeks with a 3-4% rate of fetal loss occuring within 6 weeks. It cannot diagnose neural tube defects, but is indicated for parental chromosomal abnormalities. X-linked diseases and for certain metabolic disorders (e.g. Hurler's syndrome). Amniocentesis is recommended if CVS fails. Cells are collected from the chorion frondosum, and 10-50 mg of tissue is normally required. Chromosomal analysis is performed by cell culture (within 10 days), rapid karyotyping or fluorescent in sinu hybridization (FISH, within 2 days). The false positive rate is more than for amniocentesis.

### References

Holzgrave W, Miny P. Chorionic villus sampling. In: James DK, Steer PJ, Weiner CP, Gonik B, eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994; 635–642.

Neilson JP. Antenatal diagnosis of fetal abnormality. In: Whitfield CR ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 221–239.

# Regarding treatment of pruritus vulvae

(Pruritus vulvae)

Oestrogen and testosterone creams may relieve vulval itching in a proportion of cases, but these are not effective treatments: Topical graduated steroids are the most effective treatment and are widely used as a first line therapy. The potency of steroids decreases in the following order: dermovate (clobetasol), betnovate (betamethasone), hydrocortisone.

# References

Evans S. Vulval skin disease and the gynaecologist. British Journal of Hospital Medicine, 1997; 57: 579–581.

Maclean AB. Precursors of vulval cancers. Current Obstetries and Gynaecology, 1993; 3: 149–156.

# Congenital dislocation of the hip (CDH)

195, 196, 198

The incidence of CDH is 15.7/1000 Caucasians, and 4.9/1000 Afro-Caribbeans. The incidence is 4-6 times higher in girls than boys. There is a higher incidence in breech babies (15.7% compared to 3% for the general population). It is bilateral in 10-15% of cases, 60% are left sided, and 20% right sided. It is associated with oligohydramnios that can occur secondary to amniocentesis. Its incidence is not influenced by the method of breech delivery.

### Radiotherapy

201, 202, 204, 206, 207 (Radiotherapy)

Ionizing radiation causes cellular death by interfering with its genetic material. Hypoxic cells are more radio-resistant than normally oxygenated ones. Whether or not radiotherapy should be used as a first line treatment for recurrent gynaecological cancer depends on primary treatment given, site of recurrence, patient's condition and other factors.

# The following drugs administered during pregnancy are correctly paired 210

Thyroxine does not pass through the placenta in significant amounts, it may interfere with neonatal screening but does not cause thyrotoxicosis. Methyldopa causes a fetal bradycardia. Glibenclamide causes neonatal hypoglycaemia. Phenytoin sodium causes megaloblastic anaemia due to folic acid deficiency (prophylactic folic acid should be taken by pregnant women on phenytoin).

### Reference

British National Formulary, 36; March 1998.

### Clear cell adenocarcinoma of the vagina

(Vaginal tumours)

This commonly occurs in young women (aged 15-27), not infants. Radiotherapy or radical surgery are used for treatment.

### Ergometrine

216

Ergometrine does not act on the myoepithelial cells of the breasts. It produces tonic contraction of the uterus with superimposed rapid clonic contractions. It also causes vasoconstriction (contraindicated in peripheral vascular and heart disease). Unlike oxytocin, it has no antidiuretic effect.

### Reference

Beazley JM. Natural labour and its active management. In: Whitfield CR. ed. Devchurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn, Oxford: Blackwell Science, 1995; 293–311.

#### Bartholin's carcinomas

217

## Reference

Maclean AB. Precursors of vulval cancers. Current Obstetrics and Gynaecology, 1993; 3: 149–156.

#### Rubella is linked to

218, 219, 220, 221 (Infection in pregnancy)

Other effects on the baby are splenomegaly, jaundice, meningoencephalitis, thrombocytopenia, cataract, glaucoma, heart disease, microcephaly, mental retardation. Late findings are diabetes, thyroid problems, precocious puberty and progressive rubella panencephalitis.

#### References

MacLean AB, Cockburn F. Maternal and perinatal infection. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates. 5th edn. Oxford: Blackwell Science, 1995; 477-493.

Pastorek JG. Viral diseases. In: James DK. Steer PJ, Weiner CP, Gonik B, eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994; 481–507.

## Surgical management of urinary incontinence

222 (Urinary incontinence: urodynamics)

The needle suspension of the bladder neck is associated with an incidence of 5% of voiding difficulties and 5% of *de novo* detrusor instability. Porcine dermis is used for sling procedures. If initial treatment of urinary incontinence with periurethral injections of collagen fails a repeat injection may be successful and should be considered.

#### References

Cardozo L, Hill S. Urinary incontinence. RCOG PACE review 96/09.

Eckford SD, Keane D. Surgical treatment of urinary stress incontinence. British Journal of Hospital Medicine, 1992; 48: 308–313.

Hilton P. The Stamey procedure for stress incontinence. Current Obstetrics and Gynaecology, 1991; 1: 103–108.

Richmond D. The incontinent woman: 1. British Journal of Hospital Medicine, 1993; 50: 418–423.

# Extremely premature infants

226, 227, 230

About 33% of them require later hospital admissions. The risk of severe sensorineural deafness is 10%.

## Reference

Knoches Al, Doyle LW. Long-term outcome of infants born preterm. In: Rice GE, Brennecke SP, eds. Ballière's Clinical Obstetrics and Gynaecology International Practice and Research. Preterm Labour and Delivery. London: Ballière Tindall, 1993; 633–651.

#### Donor insemination

232, 234, 235 (Infertility - II)

Despite the introduction of intra-cytoplasmic sperm injection (ICSI) it is still required.

All donors are screened twice for HIV.

## Meconium aspiration

237

It is not always associated with low Apgar score at 5 minutes.

#### Reference

Cockburn F. Neonatal care for obstetricians. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 454–476.

## Primary amenorrhoea is characteristically associated with 239, 240, 241

XXX karyotype is associated with premature menopause. There is no association with Down's syndrome, and Edward's syndrome is fatal.

## Post-coital bleeding is caused by

(Intermenstrual, post-coital and post-menopausal bleeding)

CIN 3 is preclinical and asymptomatic. IUCD is not a recognized cause of post-coital bleeding.

## Recognized complications of eclampsia include

246, 248 (Pre-eclampsia, eclampsia and phaeochromocytoma)

Others are placental abruption, hypovolaemia, thrombocytopenia, pulmonary oedema, ARDS, heart failure, renal failure, hepatic failure, DIC, hyperpyrexia etc.

## Reference

Redman C. Hypertension in pregnancy. In: De Swiet M, ed. Medical Disorders in Obstetrics Practice, 2nd edn. Oxford: Blackwell Science, 1990; 249–305.

# The following are not associated with an increase in the risk of acquiring PID 250, 252, 253 (Pelvic inflammatory disease)

Most of the answers are associated with an increased risk of PID, as are recurrent chlamydial infections and multiple sexual partners. In contrast to Key Topics in Obstetrics and Gynaecology, current evidence suggests that there is no increased risk with modern coils used in monogamous relationships. Highest infection rates are seen following insertion through the first 20 days in high risk women.

#### Reference

Bevan C. Pelvic inflammatory disease. RCOG PACE review 98/04.

## Face presentation

254, 255, 256, 257 (Presentations and positions)

In mento-posterior position the presenting diameter is mento-vertical (13 cm in a term fetus) and cannot safely be delivered vaginally. Vacuum extraction is absolutely contraindicated.

## Reference

Ritchie JWK. Malpositions of the occiput and malpresentations. In: Whitfield CR, ed. Devchuest's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 346–367.

## After the menopause the following occur

260, 261, 262 (Menopause)

Gonadotrophin secretion increases. Osteoblasts are bone-forming, their activity is reduced.

#### The following mortalities match

266 (Perinatal mortality)

Perinatal mortality is stillbirths and live-births up to seven days per 1000 total (still and live) births. Deaths within 28 days of birth describes neonatal mortality.

## Treatment of premenstrual syndrome

268, 270, 271 (Premenstrual syndrome)

Although pyridoxine and oil of evening primrose are widely used, there is no evidence to prove their efficacy. Neither is there any evidence to support benefits from the use of diuretics.

## Reference

O'Brian PMS, Abukhalil IEH, Henshaw C. Current Obstetrics and Gynaecology, 1995; 5: 30–35.

## Epilepsy in pregnancy

274, 277, 278, 279, 280 (Epilepsy and pregnancy)

The management of pregnancy in an epileptic patient should be planned at a preconception clinic, where anticonvulsants can be discontinued if the woman has remained free of fits for 2 years, or multiple therapy changed to mono-therapy as this reduces the risk of occurrence of fetal anomalies. High dose folate supplements should be given to a woman on anticonvulsants preconceptually. There is no need to change other anticonvulsants to carbamazepine if the symptoms are well controlled as the risks of each are similar and a change of drug could increase the risk of convulsions. Anticonvulsants reduce the risk of intrauterine fetal death, but increase the risk of vitamin K deficiency and, subsequently, bleeding in the neonatal period. Anticonvulsants increase the risk of failure of low dose combined oral contraceptives, therefore high dose pills should be prescribed.

#### References

Rubin PC. Epilepsy in pregnancy. Current Obstetrics and Gynaecology, 1992; 2: 149–152.
Rutherford JM, Rubin PC. Management of epilepsy in pregnancy: therapeutic aspects.
British Journal of Hospital Medicine, 1996; 55: 620–622.

## Post-partum period and diabetes

Breastfeeding and the use of an IUCD are not contraindicated. Among hormonal methods of contraception the POP or a triphasic pill are advised.

## References

Johnstone FD. Pregnancy management in women with insulin-dependent diabetes. British Journal of Hospital Medicine, 1997; 58(5): 207–210.

Vaughan NJA. Diabetes in pregnancy. Current Obstetrics and Gynaecology, 1994; 4: 155–159.

#### Bacteroides infection is associated with

285, 287, 288, 290

Pre-menarcheal vaginal bleeding refers to sarcoma botryoides. Bacteroids infection is also associated with pelvic and septic thrombophlebitis. B. fragilis is uncommon in the vagina, the main species are the melaninogenicus/oralis group.

## In pregnancy

292, 295

Most drugs are safer for use in the second trimester of pregnancy than in the first, because organogenesis is complete. Visual display units are not hazardous.

#### References

Sen A. Seat belts in pregnancy. BMJ, 1992; 304: 586-587.

Working with visual display units in pregnancy, RCOG Guideline 6, 1996.

#### Match

296, 297, 298, 299

Down's syndrome (chromosome 21) is associated with cystic hygroma. Choroid plexus cysts are associated with Edward's syndrome (chromosome 18) and Patau's syndrome (chromosome 13) is associated with holoprosencephaly.

#### UTIS

300

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# PAPER SIX

Allow 2 hours for completion of this paper

## Recognized causes of vaginal bleeding in an 8-year-old girl include

- Sarcoma botryoides
- Polyostotic fibrous dysplasia
- 3. Craniopharyngioma
- 4. Use of diethylstilboestrol by her mother in a previous pregnancy
- 5. Vaginal adenosis
- 6. Trichomonas vaginalis infection
- 7. Dysgerminoma of the ovary
- 8. Post-encephalitic syndrome
- Wilson's disease
- 10. Foreign body

#### Match

11. Endometrial cancer	Five year survival 45%
12. Vulval cancer	Peak incidence in 60s age group
13. Endometrial cancer	Peak incidence in 50s age group
14. Cervical intraepithelial neoplasia	Peak incidence in 20s age group

#### Blood transfusion in pregnancy

- 15. Suppresses the haemopoiesis in women with sickle cell disease
- 16. May precipitate sickle cell crisis
- 17. The CLASP trial reliably proved that low dose aspirin is associated with an increased risk of transfusion

## Non-surgical management of urinary incontinence

- 18. Pelvic floor exercises are more successful in older patients than in younger ones
- 19. Faradism with pelvic floor exercises confers significantly higher success than pelvic floor exercises alone
- 20. The success rate of vaginal cones in the treatment of GSI is 70%
- 21. Bladder drill has up to 90% success and a low recurrence rate

## Litigation

22. Currently obstetric claims constitute more than 30% of claims against trusts

#### Preterm breech

- 23. Has a higher incidence of growth retardation than its cephalic counterpart
- 24. Has a higher incidence of stillbirth and neonatal death rate than its cephalic counterpart regardless of the mode of delivery
- Vaginal delivery is associated with a higher risk of entrapment of the aftercoming head than a breech at term
- 26. During labour the risk of cord prolapse is higher compared with a term breech
- 27. Prophylactic forceps delivery of after-coming head reduces neonatal morbidity
- At less than 28 weeks breeches should preferably be delivered via Caesarean section to reduce trauma to the baby

## The effect of pregnancy on cancer

- 29. The prognosis of cervical cancer is not altered stage for stage by pregnancy
- 30. The prognosis of vulval carcinoma is not altered stage for stage
- 31. The prognosis of breast cancer is unchanged compared with non-pregnant women
- 32. There is no adverse effect on the prognosis of melanoma
- 33. The 5 year survival of women who had breast cancer diagnosed in pregnancy is 25%

## Regarding third generation combined oral contraceptive pills

- The risk of venous thrombo-embolism in desogestrel/gestodene pill users is equal to that in pregnancy
- Desogestrel/gestodene-containing pills are more lipid friendly than the second generation progestogen-containing pills
- Desogestrel/gestodene-containing pills could be advantageous in older smokers requesting the pill, or unsuitable for other forms of contraception
- Current UK recommendations for oral contraception users include the following: 'Second generation pills should not be changed to third generation ones under any circumstances'

## Perinatal mortality

- The perinatal mortality rate (PMR) in the UK in the mid 1990s was 7–8 per 10 000 total births
- 39. Is lowest for the second baby and doubles for the first and fourth child
- 40. Is increased six-fold in multiple births
- 41. Is lowest in the social classes two and three
- 42. Increases steadily from teenage until the mid-thirties when its rate rapidly rises
- 43. PMR is a sensitive indicator of the standard of obstetric care

## Hyperplasia

- 44. Adenomatous hyperplasia is synonymous with simple hyperplasia
- Simple hyperplasia is characterized by increased glandular-stromal ratio in the absence of cellular atypia
- 46. Simple hyperplasia has no malignant potential
- 47. Complex and adenomatous hyperplasia have identical malignant potential

## Post-partum haemorrhage

- 48. Routine oxytocins in the third stage reduces post-partum blood loss by 30-40%
- 49. The blood flow through the placenta at term is 500-800 ml/min
- 50. Syntometrine is as effective as oxytocin alone in hypertensive women

## The risks associated with diabetes in pregnancy

- The incidence of major fetal abnormalities in diabetic women is 3 times greater than in non-diabetic women
- 52. There is an increased risk of urinary tract infection
- 53. The prevalence of pre-eclampsia in diabetic pregnant women is 30-40%
- 54. The prevalence of preterm labour in diabetic women is 5%
- 55. Diabetic ketoacidosis in pregnancy is associated with fetal loss of 50%

## Regarding post-coital contraception

- Because it contains progesterone the levonorgestrel-releasing coil should be used preferentially as a post-coital device
- A single dose of 600 mg of mifepristone taken within 72 hours of unprotected intercourse is an effective post-coital contraceptive agent
- Levonorgestrel 0.75 mg (two doses 12 hours apart) started within 72 hours of unprotected intercourse is effective for the prevention of unwanted pregnancy

## The following are associated with endometrial cancer

- 59. Granulosa cell tumours of the ovary
- 60. Tamoxifen
- 61. Polycystic ovarian syndrome
- 62. Diabetes (insulin resistance)
- 63. Opposed oestrogen

## Caesarean delivery

- 64. Lower segment sections are associated with less blood loss than classical ones and a 20 times lower risk of scar dehiscence
- 65. Vaginal delivery after two previous sections is not allowed
- A Pfannenstiel incision from a previous Caesarean section implies a transverse lower uterine incision
- 67. If the lower segment incision is insufficient for delivery of the fetus, a 'F' extension is recommended as opposed to an inverted 'T'

## Vesico-vaginal fistula may be caused by

- 68. Radiotherapy
- 69. Malignancy
- 70. Childbirth

## Fetal effect of analgesia in labour

- 71. Both regional analgesia and opioids are associated with abnormal CTGs
- Naloxone injection should routinely be administered to neonates if opioids have been used in labour
- Neonates require more naloxone if the woman has been using patient-controlled analgesia

## Hydatidiform mole may present with

- 74. Hypertension
- 75. Fitting
- 76. Wernicke's encephalopathy

## Risk of thrombo-embolic disease and pregnancy

- 77. Risk is twice as high as in the non-pregnant state
- 78. Prolonged bed rest is associated with an increased risk
- 79. Multiple pregnancy is a risk factor
- 80. Prolonged rupture of membranes is associated with an increased risk
- 81. Cardiac disease and acute chest infection are risk factors
- 82. The risk of thrombo-embolic complications is higher with an emergency Caesarean section than with an elective
- 83. The risk of recurrence after one previous episode and without prophylaxis is 1-5%
- 84. The measurement of arterial blood gases is a highly sensitive method for diagnosing pulmonary embolism

## Delayed puberty

- 85. Associated with Kallman's syndrome
- 86. Associated with juvenile hypothyroidism
- 87. Associated with hypoprolactinaemia
- 88. Anorexia nervosa is a common cause
- 89. GnRH analogues can be used for treatment
- 90. A combined low dose pill is the best treatment
- 91. Is defined as the absence of pubic and axillary hair by the age of 14 years

#### Endometriosis

- The commonest symptoms associated with mild endometriosis are spasmodic dysmenorrhoea, deep dyspareunia and pelvic pain
- Viable endometrial cells found in peritoneal fluid at the time of menstruation confirm that retrograde menstruation is the cause
- GnRH analogues combined with HRT can be commenced together when diagnosis is confirmed
- Endometriotic deposits contain lower concentrations of progestin receptors than normal endometrium.
- 96. Is associated with an increased risk of spontaneous abortion
- 97. If a woman is found to have endometriosis affecting her Fallopian tubes, they should be removed prior to IVF to improve the success rate

## Match the drugs to the correct side effects when used in late pregnancy

98. Chlormethiazole Respiratory depression

Hvdralazine Bradycardia

100. Phenytoin Congenital abnormalities 101. Diazepam Hypotonia in the neonate

#### With regard to ovarian cancer

- 102. Over 75% of women with ovarian cancer will die from the disease
- 103. 50% will present with stage three to four disease

## Hyperprolactinaemia can be caused by

- 104. Chronic renal failure
- 105. Primary hypothyroidism
- 106. Cimetidine
- 107. Quinagolide
- 108. Chest wall injury

## Maternal mortality

- 109. Includes those caused by ectopic pregnancy
- 110. Is highest in social classes four and five
- 111. Avoidable factors are present in 35-40% of cases
- 112. Hypertension is the biggest single cause
- 113. Is higher in patients over the age of 40 years

## Treatment of CIN

- 114. Amongst excisional biopsy methods, the large loop excision of the transformation zone (LLETZ) is the most traumatic
- 115. Untreated CIN 1 will regress over 2 years in almost 50% of women
- 116. Almost 20% of women with untreated CIN 3 will have invasive lesions after 10 years
- 117. Local ablation is the most acceptable method of treating dyskaryotic cells
- 118. Laser cone biopsy is preferential to loop diathermy or knife cone biopsies because it provides a better quality specimen for histological diagnosis
- Clear excisional margins on a cone biopsy indicate complete excision of cervical glandular intraepithelial neoplasia (CGIN)
- 120. CO2 laser causes significantly deeper destruction of tissue than cold coagulation
- 121. The depth of tissue destruction with cryocautery is 4 mm
- 122. Cryocautery is the treatment of choice when gland clefts are affected by CIN
- 123. Electro-diathermy causes better local destruction than cryocautery

## Detrusor instability

124. When detrusor instability coexists with GSI the detrusor problem should always be treated first

#### Vulval carcinoma is associated with

- 125. Smoking
- 126. Syphilis
- 127. Lymphogranuloma venereum
- 128. Nulliparity

## Interactions of the combined oral contraceptive pill with other drugs

- 129. Carbamazepine reduces its efficacy
- 130. A woman taking a drug that is a liver enzyme inducer who wants to take the pill can safely be prescribed a high dose preparation
- 131. Penicillin reduces its efficacy

## Twin pregnancy

- 132. The incidence increases with parity
- 133. The perinatal mortality of the first twin is higher
- 134. Pre-eclampsia is more common
- 135. The incidence is about 1 per 80-90 births
- 136. Is generally caused by superfecundation
- 137. Preterm delivery occurs in about 50% of cases
- 138. The leading twin presents by the head in about 75% of cases
- 139. Dichorionic twin is synonymous with dizygosity

## Management of endometrial cancer

- 140. When presented with intermenstrual bleeding, a pipelle biopsy and transvaginal scan (to measure endometrial thickness) should be used for diagnosis
- 141. The advantage of a pipelle biopsy is a fast diagnosis when compared with formal D&C
- Endometrial resection could be employed in early endometrial cancer if fertility is to be retained
- 143. Stage 1 is better managed by radical hysterectomy
- 144. Responds well to progestogen therapy only if the tumour is of high grade
- 145. High dose progesterones could be used in stage 4 disease
- 146. Tamoxifen decreases the number of progesterone receptors in the endometrium
- Both radical surgery and chemotherapy are recognized modalities of treatment for recurrent disease
- 148. Extra-pelvic disease is better treated surgically

#### Uterine sarcomas

149. Overall survival rate is 30%

## Recognized associations of persistent ductus arteriosus in the neonate include

- 150. True congenital rubella syndrome
- 151. Marfan's syndrome
- 152. A continuous murmur over the left upper chest
- 153. Pulmonary oligaemia
- 154. The administration of indomethacin prenatally

## Radiotherapy in the management of gynaecological cancer

- 155. Has a success rate similar to surgery
- 156. Is associated with a lower complication rate than surgery
- Adjuvant radiotherapy is advised when cervical cancer is incompletely excised or when nodal metastases are present
- 158. Radiotherapy is a preferred modality of non-surgical treatment of ovarian cancer
- 159. Central pelvic recurrence of cervical cancer is better treated with radiotherapy
- 160. Brachytherapy is a type of radiotherapy with the use of an external source of irradiation

#### Viral infections of the genital tract

- 161. HPV types 6 and 11 are associated with benign epithelial lesions
- 162. Genital warts may regress spontaneously
- 163. Podophyllin is safe in pregnancy
- 164. Trichloroacetic acid is contraindicated during pregnancy
- Primary genital HSV infection necessitates screening for other STDs and contact tracing
- 166. Genital herpes infection is caused solely by HSV type 2

#### Lymphogranuloma venereum

- 167. Is caused by chlamydia trachomatis
- 168. When primary, commonly heals rapidly without leaving a scar
- 169. May lead to vaginal, urethral and anal stricture formation
- 170. Clindamycin is the antibiotic of choice

## Predisposing factors for an ectopic pregnancy include

- 171. Previous candidal infection
- 172. Congenital anomalies of the genital tract
- 173. The progesterone only pill
- 174. Combined oral contraceptive pill
- 175. Treatment with diethylstilboestrol in a previous pregnancy
- 176. Artificial insemination
- 177. Late reproductive life

## The following match

178. Commonest cause of abnormal vaginal discharge	Trichomonas vaginalis
179. Greenish vaginal discharge	Bacterial vaginosis
180. Greyish vaginal discharge	Trichomonas infection
181. Adherent creamy-white vaginal discharge	Chlamydial infection

#### Vaginal adenosis

182. Is a benign condition occurring due to exposure to diethylstilboestrol in utero

## Genuine stress incontinence (GSI)

- 183. Accounts for 60% of cases of urinary incontinence
- Topical oestrogen application is an effective therapy for GSI occurring in a young healthy woman

#### Perinatal medicine

- 185. A neonate with a birth weight of < 1500 g is termed extremely low birth weight
- 186. The majority of stillbirths are of unknown cause and remain unpredictable and unpreventable
- 187. Early fetal loss is defined as loss between 20 and 23 weeks and 6 days of pregnancy

## Mifepristone

- 188. Has a glucocorticoid action
- 189. Has uterotonic action
- 190. Is luteolytic
- 191. Should be avoided in women with recent topical steroid therapy
- 192. Is contraindicated in chronic renal failure
- 193. Should not be used in patients with haemorrhagic disorders

## Medical termination of pregnancy is associated with

- 194. 5% ongoing pregnancy
- 195. Lower incidence of PID than surgical termination

## Pre-eclampsia

- 196. Is usually diagnosed at about 18 weeks' gestation
- 197. Is associated with thrombocytopenia
- 198. Should never be treated with diazepam
- 199. Cannot be diagnosed in the absence of albuminuria
- 200. May cause haemolysis

## Klinefelter's syndrome is associated with

- 201. Azoospermia
- 202. Dextrocardia

## Predisposing factors for ARDS are

- 203. Dorsal kyphoscoliosis
- 204. Epidural analgesia

# The management of a woman in pregnancy with a history of herpes infection (but with no visible lesions at present) includes

- 205. Weekly antenatal cultures from the genital tract
- 206. Anticipated vaginal delivery
- 207. Obtaining cultures from the mother and the neonate following delivery
- 208. Isolation and notification
- Risk of neonatal infection is approximately 1 in 10 and can be reduced by acyclovir or vibramycin.

## Spermicides

- 210. Are bacteriostatic
- 211. Nonoxynol 9 has a detergent as its active agent
- 212. Nonoxynol 9 is known to cause vaginal ulcerations

## Regarding HIV infection the following are true

- 213. IV drug abuse accounts for the infection of 10-15% of pregnant patients in the UK
- 214. Pregnancy may precipitate AIDS in HIV-positive women
- 215. Postnatally it may be transmitted to the baby in more than 60% cases.
- 216. Kaposi's sarcoma is a common presentation
- 217. Of the 250 or more HIV births per year, 80% are undiagnosed at the time of birth
- 218. 50% of cases infected with HIV will be asymptomatic for up to 4 years
- 219. HIV may be transmitted via artificial insemination of donor sperm
- 220. Spread of HIV is 20-50 times less likely via vaginal intercourse than via anal intercourse and can be reduced by using Nonoxynol

#### Preterm labour

- 221. Is associated with a past history of preterm labour
- Is associated with uterine abnormalities, smoking and a maternal pre-pregnancy weight of less than 50 kg
- 223. The use of ritodrine has been shown to improve perinatal outcome
- 224. A high vaginal swab should be taken in the presence of ruptured membranes
- Epidural analgesia should not be used because of the possibility of an occult placental abruption

## The expulsion rate of IUCD is higher

- 226. In younger women
- 227. In fundal-seeking devices
- 228. If inserted straight after first trimester termination of pregnancy

## Regarding postoperative complications

- 229. Hernia after a Pfannenstiel incision is commoner at the wound angles
- 230. Lymph collection after pelvic surgery occurs only in the form of leg swelling

## Recurrent miscarriage

- 231. Paternal chromosomal abnormalities are found in a third of couples
- 232. Robertsonian translocation is the commonest chromosomal abnormality found in the parents
- 233. The incidence of PCOS is higher in these women compared to the normal population
- 234. 15% of women with antiphospholipid antibodies suffer from recurrent miscarriage

## A high head at term is associated with

- 235. Small angle of inclination of the pelvis
- 236. Afro-Caribbean race
- 237. Cephalopelvic disproportion

## With regard to acute PID

- 238. It is generally caused by a sexually acquired pathogen
- 239. Penicillin and metronidazole are sufficient in treating the majority of infections
- 240. Bacterial vaginosis does not predispose to an increased risk
- 241. Up to 50% of women with gonococcal infection develop salpingitis

## Progestogens

- 242. Medroxyprogesterone acetate is more androgenic than norethisterone
- 243. Levonorgestrel is more androgenic than norethisterone
- 244. Medroxyprogesterone increases oestradiol levels
- 19-norsteroid derivatives have more deleterious effects on lipid profiles than medroxyprogesterone acetate
- 246. When used alone progestogens may halt bone-mineral loss in post-menopausal women

## Regarding the Yuzpe method

- 247. It has a higher success rate in preventing unwanted pregnancy than IUCD used for post-coital contraception
- 248. It is contraindicated when unprotected intercourse has occurred with missed combined oral contraceptive pills

## Small for gestational age neonates

- 249. Have excessive weight loss in the first 48 hours
- 250. Have increased liver glycogen storage
- 251. Have a body length less retarded than the body weight
- 252. In the UK make up over 50% of the low birth-weight babies.
- 253. Have a decreased number of cells in each organ
- 254. Have an increased risk of hypothermia
- 255. Have an increased risk of hyperglycaemia
- 256. Have an increased risk of learning disorders in the long term

## The following risk factors are positively correlated

257. Cervical carcinoma Oral contraceptive pill 258. Ovarian carcinoma Oral contraceptive pill

259. Endometrial carcinoma Late menarche 260. Breast carcinoma Levonorgestrel

## In a newborn, cord blood measurements of Hb 13 g/dl, bilirubin 55 µmol/l and blood group B rhesus positive suggest

- 261. Rhesus incompatibility is the most likely diagnosis
- 262. The diagnosis could be ABO incompatibility
- 263. The direct bilirubin will be elevated
- 264. The residual albumin binding capacity will be low
- 265. The baby had an intrauterine transfusion within the previous 2 weeks

## With regard to chemotherapy for trophoblastic disease

- 266. Methotrexate alone is the initial treatment
- Following combined chemotherapy for resistant disease there is a risk of irreversible alopecia
- Following combined chemotherapy for resistant disease there is a risk of acute myeloid leukaemia
- Following combined chemotherapy for resistant disease there is a risk of colonic carcinoma

## Cord prolapse is associated with

- 270. Increasing maternal age
- 271. Postmaturity
- 272. Circumvallate placenta
- 273. Prematurity
- 274. High parity
- 275. Keilland's forceps delivery
- 276. Multiple pregnancy

## In radiotherapy for cervical carcinoma

- 277. Point A is 2 cm lateral from the cervical canal and 2 cm above the lateral vaginal fornices
- 278. Point B is 2 cm lateral from the midline and 5 cm above the lateral vaginal fornices

## Diabetes and pregnancy

- 279. The incidence of diabetes mellitus in women of reproductive age is 0.3%
- 280. Currently the Caesarean delivery rate for diabetic women is 50%
- 281. Gestational diabetes is associated with increased incidence of fetal malformations
- 282. The hourly insulin dose for the 'sliding scale' is calculated by dividing the daily insulin dose in late pregnancy by 12

## Anovulation is characteristically associated with

- 283. Turner's syndrome
- 284. Bulimia nervosa
- 285. Premenstrual tension
- 286. Sheehan's syndrome
- 287. Dysmenorrhoea

## Neonatal jaundice occurring within 12 hours of birth may be caused by

- 288. Urinary tract infection
- 289. Bile duct atresia

## In cervical cancer screening

- 290. The percentage of the population covered is an important contributing factor to the success of a screening program
- 291. Two thirds of women with invasive cervical cancer have never been screened
- The incidence of cervical adenocarcinoma is falling due to the NHS screening programme
- 293. The reported frequency of false negative smears is up to 40%
- 294. The incidence of false negative smears is correlated with the size of the lesion

## Treatment of bacterial vaginosis

- 295. Oral metronidazole 2 g as a single dose or 400 mg BD for 7 days could be used. 5 g of 2% clindamycin cream vaginally for 7 days is an alternative
- 296. Male partners should also be treated

# Regarding urinary incontinence

- 297. Leaking urine is always an abnormal finding in healthy young women
- 298. Urinary incontinence is a condition of involuntary loss of urine
- 299. About 17% of women with urinary incontinence have a combination of genuine stress incontinence and detrusor instability
- 300. Clinical diagnosis is confirmed by urodynamics in 80-90% of cases

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# ANSWERS TO PAPER SIX

The numbers of the correct answers are given

## Recognized causes of vaginal bleeding in an 8-year-old girl include

1, 2, 3, 8, 10 (Paediatric gynaecology)

Causes of vaginal bleeding may be secondary to cancer – sarcoma botryoides, foreign body, sexual abuse, rarely infection and precocious puberty, polyostotic fibrous dysplasia (Albright's syndrome), craniopharyngioma, and post-encephalitic syndrome. Wilson's disease is a recessively inherited disorder of copper metabolism.

#### Match

12, 13, 14

Overall, the 5 year survival for women with endometrial cancer is currently 65%.

## Blood transfusion in pregnancy

15, 16

Blood transfusion in women with sickle cell disease improves blood and tissue oxygenation, and reduces the propensity for sickle cell crisis. Also, it temporarily suppresses production of new host red cells. Over-transfusion could lead to a hyperviseous state and increase the risk of sickle cell crisis. An increased risk of blood transfusion in women on aspirin has been suggested by the CLASP study, which demonstrated that the incidence of blood transfusion in women on low dose aspirin was higher than in the control group. This was thought to be a chance finding (rather than reliable evidence) as the incidence of post-partum haemorrhage was not increased.

#### References

CLASP Collaborative Group. CLASP: A randomised trial of low-dose aspirin for the prevention and treatment of pre-eclampsia among 9364 pregnant women. Lancet, 1994; 343: 619–629.

De Swiet M. The use of low dose aspirin in pregnancy. RCOG PACE Review 96/03. Howard RJ, Tuck SM. Sickle cell disease and pregnancy. Current Obstetrics and Gynaecology, 1995; 5: 36-40.

## Non-surgical management of urinary incontinence

20

Pelvic floor exercises are more successful in younger patients, because improved muscle tone is easier to achieve in this group. Faradism added to pelvic floor exercises does not confer a significant advantage when compared with pelvic floor exercises alone. Bladder drill is highly successful (up to 90% quoted), but the recurrence rate of urinary incontinence is high.

#### References

Barrington FW. The management of the urge syndrome. In: Studd J, ed. Progress in Obstetrics and Gynaecology, Volume 12. Edinburgh: Churchill Livingston, 1996; 259–276.

Cardozo L, Hill S. Urinary incontinence. RCOG PACE review 96/09.

Eckford SD, Keane D. Surgical treatment of urinary stress incontinence. British Journal of Hospital Medicine, 1992; 48: 308–313.

Kelleher CJ, Cardozo LD. The conservative management of female urinary incontinence. The Year Book of the RCOG 1994; 123–135.

Richmond D. The incontinent woman: 1. British Journal of Hospital Medicine, 1993; 50: 418–423.

#### Litigation

22

#### Preterm breech

23, 24, 25, 26 (Breech)

Vaginal delivery of the preterm breech is associated with an increased risk of cord prolapse due to a poor fit of the maternal pelvic soft tissue and fetal breech, and an increased risk of head entrapment due to a relatively large fetal head. Though prophylactic forceps delivery has been practised aiming to reduce trauma to the fetal head during its passage through the pelvis, there is no evidence of any benefit gained by this. At less than 28 weeks of pregnancy the mode of delivery does not make any difference to the degree of fetal trauma.

#### Reference

Penn ZJ. The preterm breech. PACE review. No 95/04.

## The effect of pregnancy on cancer

29, 30, 33 (Cancer in pregnancy)

The prognosis of breast cancer when diagnosed in pregnancy is significantly worse because of the late diagnosis and higher chance of metastasis. Pregnancy has an adverse effect on the prognosis of melanoma.

## Reference.

Pregnancy after breast cancer. RCOG Guideline No 12, July 1997.

## Regarding third generation combined oral contraceptive pills 35, 36

The risk of venous thrombo-embolism in desogestrel/gestodene pill users is half that in pregnancy. This is because third generation pills are associated with a lower risk of arterial disease, and as arterial disease produces 20-times higher mortality than venous thrombo-embolism, the use of third generation pills can be justified in this case. Changes can be considered if no second generation pill suits the woman, she does not want to take non-steroidal contraception, and understands and accepts the risk of thrombo-embolic complications associated with desogestrel/gestodene-containing pills.

#### Reference

Crook D. Do different brands of oral contraceptives differ in their effects on cardiovascular disease. British Journal of Obstetrics and Gynaecology, 1997; 104: 516–520.

#### Perinatal mortality

## 39, 40, 41 (Perinatal mortality)

The perinatal mortality rate in the UK in the mid-1990s was 7-8 per 1000 total births. It is lowest for the social classes two and three, and is highest in social class five. The lowest PMR has been demonstrated in mothers 25-29 years old and is higher in teenagers and women of an advanced age. Other factors associated with perinatal mortality rate are birth weight, race, maternal health, smoking and maternal education. This is a multi-factorial parameter with a significant contribution from social and organizational factors. It has different definitions in different countries and improved neonatal care has made a significant contribution.

## Reference

Whitfield CR. Vital statistics and derived information for obstetricians. In: CR Whitfield ed. Dewharst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Blackwell Science, 1995; 494–510.

## Hyperplasia

#### 45, 47

Adenomatous is complex hyperplasia; simple is cystic (glandular) hyperplasia. The risk of developing endometrial cancer in a woman with a simple endometrial hyperplasia is 1% in 15 years.

## References

Anderson MC, Robboy J. Aetiology and histopathology of endometrial hyperplasia and carcinoma. Current Obstetrics and Gynaecology, 1997; 7: 2–7.

Oram DH, Jeyarajah AR. Diagnosis and management of endometrial hyperplasia. Current Obstetrics and Gynaecology, 1997; 7: 8–15.

## Post-partum haemorrhage

48, 49 (Post-partum haemorrhage)

Syntometrine is more effective than oxytocin when used alone.

## Reference:

Ekeroma A, Ansary A. Stirrat GM. Management of primary postpartum haemorrhage. British Journal of Obstetrics and Gynaecology, 1997; 104: 275–277.

## The risks associated with diabetes in pregnancy

51, 52, 55 (Diabetes and pregnancy)

The prevalence of pre-eclampsia is 14%, and preterm labour 17%.

#### References

Johnstone FD. Pregnancy management in women with insulin-dependent diabetes. British Journal of Hospital Medicine, 1997; 58: 207–210.

Pearson JF. Pregnancy and complicated diabetes. British Journal of Hospital Medicine, 1993; 49: 739–742.

Vaughan NJA, Diabetes in pregnancy. Current Obstetrics and Gynaecology, 1994; 4: 155–159.

## Regarding post-coital contraception

57, 58

The LNG-IUD is more expensive and more difficult to insert than a copper coil. It has not been evaluated as a post-coital contraceptive device.

## The following are associated with endometrial cancer

59, 60, 61, 62 (Uterine tumours)

Unopposed oestrogen, obesity and nulliparity are also associated.

#### Reference

Semple D. Endometrial cancer. British Journal of Hospital Medicine, 1997; 57(6): 260-262.

## Caesarean delivery

64, 67 (Caesarean section)

Vaginal delivery after two previous Caesarean sections is possible and there is evidence to suggest that it is safe. It is possible to combine a Pfannenstiel incision with any type of uterine incision.

# Vesico-vaginal fistula may be caused by

68, 69, 70

The commonest cause is introgenic.

# Fetal effect of analgesia in labour

71, 73

Regional analgesia is associated with fetal heart rate decelerations due to reduced placental blood flow secondary to reduced peripheral resistance, whilst opioids pass through the placental barrier and have a direct effect on the fetal heart. Naloxone may become necessary if neonatal respiration is depressed due to high dose opioid administration in labour. It should not be used routinely because it may precipitate withdrawal in babies born to opiate addicts.

#### References

Enkin M, Keirse MJNC, Renfrew M, Neilson J. A Guide to Effective Care in Pregnancy and Childbirth, 2nd edn. Oxford: Oxford University Press, 1995; 247–261.

Morgan B. Maternal anaesthesia and analgesia in labour. In: James DK, Steer PJ, Weiner CP, Gonik B eds. High Risk Pregnancy Management Options. London: WB Saunders Company, 1994; 1101–1118.

## Hydatidiform mole may present with

74, 75, 76 (Gestational trophoblastic disease)

Might present with hyperemesis, recurrent vaginal bleeding, hypertension, fitting and memory loss (Wernicke's encephalopathy – from thiamine deficiency)

## Risk of thrombo-embolic disease and pregnancy

78, 81, 82, 83 (Coagulation and pregnancy)

The risk of thrombo-embolism in pregnancy is increased 6-fold. Other risk factors include maternal age over 35 years, obesity, grand multiparity, gross varicose veins, pre-eclampsia and operative delivery. The measurement of arterial blood gases for the diagnosis of pulmonary embolism has low sensitivity and specificity.

## References

Report on Confidential Enquiries into Maternal Deaths in the United Kingdom, 1991–1993. London: HMSO, 1996.

Report of the RCOG Working Party on Prophylaxis against thromboembolism in Gynaecology and Obstetrics. March 1995.

Ray JG, Ginsberg JS. Thromboembolic disease during pregnancy: A practical guide for obstetricians. In: J Bonner ed. Recent Advances in Obstetrics and Gynaecology. 1995; 63–75.

## Delayed puberty

85, 86, 91 (Menarche)

Associated with hyperprolactinaemia. Anorexia nervosa is not a common cause. Pulsatile GnRH can be used for treatment.

#### Endometriosis

94, 95, 96 (Endometriosis)

The commonest symptoms associated with mild endometriosis are congestive dysmenorrhoea, deep dyspareunia and pelvic pain. Viable endometrial cells found in peritoneal fluid at the time of menstruation may suggest that retrograde menstruation could be a cause. The exact actiology remains a mystery. Endometriotic deposits often only contain progestin receptors found in lower concentrations than normal endometrium. Fallopian tubes should only be removed (to improve success rates prior to IVF) if there are bilateral hydrosulpinges, which are not often found with endometriosis.

#### Reference

Odukoya OA, Cooke ID. Endometriosis: a review. In: J Studd ed. Progress in Obstetrics and Gynaecology. 12: 327–345.

## Match the drugs to the correct side effects when used in late pregnancy

98, 101 (Epilepsy in pregnancy)

Hydralazine causes a tachycardia. Phenytoin does not cause congenital abnormality in late pregnancy.

## Reference

British National Formulary. 35; March 1998.

## With regard to ovarian cancer

102 (Ovarian tumours: epithelial)
75% present with stage 3 to 4 disease.

## Hyperprolactinaemia can be caused by 104, 105, 106, 108 (Hyperprolactinaemia) Ouinagolide is a treatment.

## Maternal mortality

109, 110, 113

Maternal mortality over the age of 40 years was 20.6 per 100 000 maternity (1991–93). Avoidable factors were present in 44.6% of cases (1985–93). Thromboembolism is the biggest single cause.

## Reference

Report on Confidential Enquiries into Maternal Deaths in the United Kingdom, 1991— 1993. London: HMSO, 1996.

#### Treatment of CIN

115, 116, 121, 123 (Premalignant disease of the cervix)

Among excisional biopsy techniques, the cone biopsy is the most traumatic but has the highest success rate – over 90%. The quality of material for histological diagnosis obtained by laser excision is no better than that obtained by loop diathermy or knife conization. CGIN is characterized by skip lesions, therefore clear margins of excision cannot guarantee complete excision. Local ablative techniques do not provide material for histological diagnosis, therefore where severe dyskaryosis is present excisional biopsies are recommended. Amongst ablative treatment methods the CO<sub>2</sub> laser causes tissue destruction to a depth of 2–3 mm and cold coagulation to a depth of 3–4 mm. Cryocautery is the treatment of choice for small superficial lesions.

#### References

Houghton SJ, Luesley DM. LLETZ – diathermy loop excision. Current Obstetrics and Gynaecology, 1995; 5: 107–109.

Shafi MI, Jordan JA. The treatment of CIN. Current Obstetrics and Gynaecology, 1991; 1: 137–142.

#### Detrusor instability

Pelvic floor exercises and the bladder drill should be performed at the same time. This may lead to an improvement in symptoms making surgery unnecessary.

#### References

Cardozo L, Hill S. Urinary incontinence. RCOG PACE review 96/09.

Richmond D. The incontinent woman: 2. British Journal of Hospital Medicine, 1993; 50: 490–492

## Vulval carcinoma is associated with

125, 126, 127, 128 (Vulva)

#### References

Maclean AB. Precursors of vulval cancers. Current Obstetries and Gynaecology, 1993; 3: 149–156.

Evans S. Vulval skin disease and the gynaecologist. British Journal of Hospital Medicine, 1997; 57: 579–581.

Sarhanis P, Blackett AD, Sharp F. Intraepithelial neoplasia of the anogenital area: a multicentric condition. Current Obstetrics and Gynaecology, 1996; 6: 92-97.

## Interactions of the combined oral contraceptive pill and other drugs 129, 130, 131

## Twin pregnancy

132, 134, 135, 137, 138 (Multiple pregnancy)

The perinatal mortality of the second twin is higher. It is generally caused by fertilization of two ova by two sperms following one act of coitus (dizygotic) or division of the fertilized ovum (monozygotic). Superfecundation means fertilization of two ova with two sperms following two separate acts of coitus in the same cycle (rare). Monozygous twins may be dichorionic.

#### Reference

Neilson JP. Multiple pregnancy. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 439–453.

## Management of endometrial cancer 145, 147

Transvaginal scanning is not of any proven value in the diagnosis of endometrial cancer in premenopausal women. Pipelle biopsy of endometrium offers the advantage of avoiding general (or regional) anaesthesia, the diagnosis is not necessarily achieved more rapidly. Endometrial cancer is a contraindication for endometrial resection at any stage. The current management of stage 1 endometrial cancer is controversial and some would argue that a radical hysterectomy is the treatment of choice, particularly for high grade tumours or deep myometrial invasion. The response to progestogen therapy is poorer the higher the grade of the tumour. Progestogen therapy is used in stage 4 endometrial cancer for palliation. Tamoxifen increases the number of progesterone receptors thus increasing the effectiveness of progesterone therapy. Extrapelvic disease is better treated with radiotherapy.

## References

- Buxton E.J. Surgical management of endometrial cancer. Current Obstetrics and Gynaecology, 1997; 7: 16–21.
- Horowitz IR, Shingleton HM. The role of chemotherapy and radiotherapy in the treatment of endometrial carcinoma. Current Obstetrics and Gynaecology, 1997; 7: 22-29.
- Lawton F. The management of endometrial cancer. British Journal of Obstetrics and Gynaecology, 1997; 104: 127–134.
- Woolas R, Oram D. Current developments in the management of endometrial cancer.
  In: The Year Book of the RCOG 1994; 181–193.

## Uterine sarcomas

149

## Reference

Olah KS, Kingston RE. Uterine sarcomas. Progress in Obstetrics and Gynaecology, 11: 427–445.

## Recognized associations of persistent ductus arteriosus in the neonate include 150, 152

It is not a feature of Marfan's syndrome (aortic regurgitation is common). After birth the blood will flow from the aorta towards the lungs if the ductus remains patent (due to high systemic resistance compared to low resistance of the pulmonary bed) leading to pulmonary hyperaemia. Prenatal administration of indomethacin is associated with premature closure of the ductus.

## Reference

Whitfield CR. Heart disease in pregnancy. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn. Oxford: Blackwell Science, 1995; 216–217.

## Radiotherapy in the management of gynaecological cancer

155, 157 (Radiotherapy)

Although the success rates of surgery and radiotherapy are similar, the complication rate of radiotherapy is higher. Currently chemotherapy is preferred to radiotherapy for treatment of ovarian cancer as it has a lower complication rate. Exenterative surgery is the preferred mode of treatment of central pelvic recurrences. Brachytherapy is a type of radiotherapy with an intracavity radiation source.

#### References

- Horowitz IR, Shingleton HM. The role of chemotherapy and radiotherapy in the treatment of endometrial carcinoma. Current Obstetrics and Gynaecology, 1997; 7: 22–29.
- Sproston ARM. Non-surgical treatment of cervical carcinoma. British Journal of Hospital Medicine, 1994; 52: 30–34.

## Viral infections of the genital tract

161, 162, 165 (Sexually transmitted disease)

Genital warts could be treated in pregnancy with electrocautery, laser or trichloroacetic acid. Podophyllin is contraindicated in pregnancy. In pregnancy, 50% of genital herpetic infections are caused by HSV1 and 50% by HSV2.

#### References

Crook T, Farthing A. Human papillomavirus and cervical cancer. British Journal of Hospital Medicine, 1993; 49: 131–132.

Maclean AB, Macnab FCM. The role of viruses in gynaecological oncology. In: Studd J, ed. Progress in Obstetrics and Gynaecology, Volume 12. 1996; 403-417.

Stabile I, Chard T, Grudzinskas G. Clinical Obstetrics and Gynaecology. New York: Springer-Verlag 1996; 184.

#### Lymphogranuloma venereum

167, 168, 169

Tetracycline is the antibiotic of choice.

## Predisposing factors for an ectopic pregnancy include

172, 173, 177 (Ectopic pregnancy)

The OCP is not associated with an increased risk. The risk increases as a result of exposure to diethylstilboestrol in utero. Artificial insemination is not associated with a higher risk, but IVF, GIFT etc., are. Chlamydia is associated with it, not candida.

## The following match

In the UK candidiasis and bacterial vaginosis and candida infection are commoner than trichomonal infection. Greenish vaginal discharge is characteristic of trichomonal infection, whilst bacterial vaginosis commonly has a greyish discharge. Chlamydia is rarely associated with a colourless, odourless discharge; candidiasis is associated with the thick white discharge described.

#### References

Emens JM. Intractable vaginal discharge. Current Obstetrics and Gynaecology, 1993; 3: 41–47.

Lamont RF. Bacterial vaginosis. The Year Book of the RCOG 1994. 149–158.
Thomas EJ, Rock J. Benign Gynaecological Disease. Oxford: Health Press. 1997.
52–58.

## Vaginal adenosis

182

#### GSI

183 (Urinary incontinence: urodynamics)

Topical oestrogen application could be an effective therapy for GSI in postmenopausal women.

## References

Bidmean J, Cardozo L. Detrusor instability. RCOG PACE review 98/03.
Cardozo L, Hill S. Urinary incontinence. RCOG PACE review 96/09.

#### Perinatal medicine

186, 187 (Perinatal mortality)

The terms used for classifying birth weight are: low birth weight < 2500 g; very low birth weight < 1500 g; extremely low birth weight < 1000 g.

## Mifepristone

189, 190, 193 (Therapeutic abortion)

Mifepristone is an antiprogestogen. It has antiglucocorticoid action and is contraindicated in women with prolonged systemic steroid administration or chronic adrenal failure. Other contraindications include smoking in those over 35 years of age, haemorrhagic disorders, and when ectopic pregnancy is not ruled out.

## References

British National Formulary. 36; March 1998.

Henshaw RC, Templeton AA. Methods used in first trimester abortion. Current Obstetrics and Gynaecology, 1993; 3: 11–16.

## Medical termination of pregnancy is associated with

195 (Therapeutic abortion)

Although with medical management the incidence of complete abortion is 95%, the incidence of ongoing pregnancy is less than 1%. Therefore, adequate follow-up is very important to rule out retained products of pregnancy or a viable pregnancy.

## Reference

Henshaw RC, Templeton AA. Methods used in first trimester abortion. Current Obstetrics and Gynaecology, 1993; 3: 11–16.

## Pre-eclampsia

197, 200 (Pre-eclampsia, eclampsia and phaeochromocytoma)

It is diagnosed after 20 weeks by definition. Diazepam is not contraindicated. The criteria for diagnosis are hypertension and proteinuria (not albuminuria).

## Reference

Redman C. Hypertension in pregnancy. In: De Swiet M, ed. Medical Disorders in Obstetrics Practice, 2nd edn. Oxford: Blackwell Science, 1990; 249–305.

## Klinefelter's syndrome is associated with 201

Other features include tall height, small testes, gynaecomastia, educational difficulties without any major shift in IQ score etc. The incidence is 1 in 600 at birth. Kartagener's syndrome is associated with dextrocardia and infertility.

#### Reference

Neilson JP. Antenatal diagnosis of fetal abnormality. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates, 5th edn, Oxford: Blackwell Science, 1995; 121–139.

## Predisposing factors for ARDS are

203

It is associated with general anaesthesia.

#### Reference

Craft TM, Upton PM, eds. Key topics in Anaesthesia. Oxford: BIOS Scientific Publishers, 1993; 19–21.

# The management of a woman in pregnancy with a history of herpes infection (but with no visible lesions at present) includes

206, 207 (Infection in pregnancy)

Weekly cultures are not cost effective. A Caesarean section is indicated only in the presence of active lesion. The incidence of neonatal herpes is 2:100 000 live births in the UK (1:3000 to 1:20 000 live births in USA). Up to 60% of babies with neonatal herpes are born to mothers with no symptoms or signs of the disease at delivery. The infection is neither notifiable nor requires isolation. The risk of neonatal herpes is 50% with primary attack in the mother at delivery and 5% with recurrent attack at delivery. The mortality is 60% in the affected neonates. Vidarabine and acyclovir improve survival in neonatal herpes, but the survivors with herpes encephalitis have severe neurological impairment.

## Reference

Pregnancy and the neonate. In: Adler MW, Weller I, Goldmeier D, eds. ABC of Sexually Transmitted Diseases. 2nd edn. London: BMJ Publishing Group. 1990; 57–60.

## Spermicides

210, 211, 212 (Contraception and sterilization)

## Reference

Smith C. Barrier methods. Contraception. In: Contraception. Edition 95, 33–36. Reed. Healthcare Communications.

## Regarding HIV infection the following are true

215, 217, 218, 219 (Infection in pregnancy)

26% of pregnant women with HIV get infected through IV drug abuse (themselves or their partners), 58% of mothers are infected heterosexually from abroad; only 6% have no risk factors. Pregnancy appears to have no deleterious effects upon HIV disease. Transmission rates vary but are reported to be 25–30% in Europe. Postnatal transmission rates of up to 60% have been described in Africa. When mothers acquire the infection postnatally the risks of transmission are 29%. Avoiding breastfeeding can reduce the rates by half, and anti-retroviral therapy can further reduce it by two thirds. Caesarean section may also reduce it. Overall, using these measures rates can be reduced to 5–8%. Kaposi's sarcoma is a rare presentation. Anal intercourse is associated with a twofold increased risk of acquiring HIV from an infected man, vaginal intercourse is a lower risk activity. Using barrier methods and/or spermicides (Nonoxynol) can reduce transmission during sexual intercourse. Sperm donors are screened twice before their semen is released for use; this reduces but does not eliminate the risk.

## References

Mercey, D. Antenatal HIV testing. BMJ, 1998; 316: 241-242.

Norman S, Johnson M, Studd J. HIV infection in women. In: Studd J. ed. Progress in Obstetrics and Gynaecology. Volume 10. Edinburgh; Churchill Livingstone, 1993; 231–246.

#### Preterm labour

221, 222, 224 (Premature labour)

There is no evidence that the use of ritodrine improves perinatal outcome. Its use is recommended to delay delivery for 48 hours for the steroids to act. Epidural analgesia is not contraindicated.

## The expulsion rate of IUCD is higher

226 (Contraception and sterilization)

# Regarding postoperative complications

229 (Perioperative complications)

Pelvic cysts can also occur as lymph collections.

## Recurrent miscarriage

232, 233 (Abortion spontaneous/recurrent)

Paternal chromosomal abnormalities are only found in 5% of couples. Polycystic ovaries are found in 56% compared with a background incidence of 22% (the background incidence of PCOS is 2%). 15% of women suffering from recurrent miscarriage have persistently elevated titres of antiphospholipid antibodies.

## Reference

Rai R, Regan L. The management of recurrent miscarriage. PACE Review No 96/08.

#### A high head at term is associated with

## 236, 237 (Cephalopelvic disproportion)

The other associations of the high head at term are low-lying placenta, pelvic mass, high angle of inclination.

## With regard to acute PID

## 238 (Pelvic inflammatory disease)

Penicillin and metronidazole are inadequate treatments, they will not eradicate chlamydia which is responsible for the majority of cases of PID in the UK (erythromycin or a tetracycline is indicated). Bacterial vaginosis does predispose to an increased risk. 10-20% of women with gonococcal infection develop salpingitis.

#### Progestogens

#### 244, 245, 246

Medroxyprogesterone acetate and dydrogesterone are less androgenic than norethisterone and levonorgestrel. Medroxyprogesterone acetate reduces levels of SHBG which increases free oestradiol.

#### Reference

Pickersgill A. GnRH analogues and add-back therapy. Is there a perfect combination? British Journal of Obstetrics and Gynaecology, 1998; 105: 475-485.

#### Regarding the Yuzpe method

The reverse is true for the IUCD. It should be used when a pill has been missed at the start of a cycle.

#### Reference

Glasier A. Emergency contraception and RU486. In: Contraception. Edition 95, 44–45. Reed Healthcare Communications.

# Small for gestational age neonates

## 251, 254, 256

They have excessive heat loss in the first 48 hours. The glycogen content of the liver is less, predisposing them to hypoglycaemia. The commonest cause of low birth-weight babies in the UK is prematurity. The majority of the small for gestational age neonates have a normal number of cells in each organ (except in cases of symmetric growth restriction affecting the fetus in the phase of cellular hyperplasia).

#### References

Common disorders of the newborn infant. In: Johnson PGB, ed. Vulliamy's The Newborn Child, 7th edn. Edinburgh: Churchill Livingstone, 1994; 69–82.

Pearce JM, Robinson G. Fetal growth and growth retardation. In: Chamberlain G, ed. *Tumbull's Obstetrics*, 2nd edn. Edinburgh: Churchill Livingstone, 1995; 299–312.

# The following risk factors are positively correlated

257

The oral contraceptive pill protects against ovarian carcinoma. Like ovarian carcinoma, endometrial carcinoma is associated with an early menarche and late menopause. There is no convincing evidence to link breast carcinoma to levonorgestrel.

In a newborn cord blood measurements of Hb 13 gm/dl, bilirubin 55 µmol/l and blood group B rhesus positive suggest 261, 262, 264

#### Reference

Jaundice in the newborn infant. In: Chamberlain GVP, ed. Obstetrics by Ten Teachers, 16th edn. London: Edward Arnold, 1995; 325–327.

#### With regard to chemotherapy for trophoblastic disease

268, 269 (Gestational trophoblastic disease)

Methotrexate is used in combination with folinic acid. The alopecia is reversible. There is also an increased risk of breast carcinoma following combined chemotherapy for resistant disease.

#### Reference

Newlands E.S. Trophoblastic disease. RCOG PACE review 96/10.

#### Cord prolapse is associated with

273, 274, 275, 276

Other causes are breech presentation (6%, 40-50% of all cord prolapse), rupture of the membranes with a high head, transverse lie, brow and face presentation, occipitoposterior position, cephalopelvic disproportion, manual rotation of head, vellamentous insertion of cord etc. Incidence is 1/200-300 deliveries.

## Reference

Ritchie JWK. Malpositions of the occiput and malpresentations. In: Whitfield CR, ed. Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduates. 5th edn. Oxford: Blackwell Science, 1995; 346-367.

## In radiotherapy for cervical carcinoma

278 (Radiotherapy)

Point B is 5 cm lateral from the midline and 2 cm above the lateral vaginal fornices.

#### Reference

Sproston ARM. Non-surgical treatment of cervical carcinoma. British Journal of Hospital Medicine, 1994; 52: 30–34

## Diabetes and pregnancy

279 (Diabetes and pregnancy)

The Caesarean section rate in women with diabetes mellitus is 30%. Gestational diabetes gradually develops during pregnancy and does not impose any threat to the fetal formation process. The hourly dose of insulin should be calculated by dividing pre-labour daily dose of insulin by 24.

## References

Johnstone FD. Pregnancy management in women with insulin-dependent diabetes. British Journal of Hospital Medicine, 1997; 58: 207-210.

Pearson JF. Pregnancy and complicated diabetes. British Journal of Hospital Medicine, 1993; 49: 739–742.

Vaughan NJA. Diabetes in pregnancy. Current Obstetrics and Gynaecology, 1994; 4: 155–159.

## Anovulation is characteristically associated with

283, 286 (Infertility - I)

Anovulation is associated with anorexia nervosa. Premenstrual tension occurs in ovulatory cycles. It is not a cause of dysmenorrhoea.

## Neonatal jaundice occurring within 12 hours of birth may be caused by 288

Bile duct atresia takes longer to develop into jaundice.

## Reference

Jaundice in the newborn infant. In: Chamberlain GVP, ed. Obstetrics by Ten Teachers, 16th edn. London: Edward Arnold, 1995; 325–327.

## In cervical cancer screening

290, 291, 294 (Premalignant disease of the cervix)

The cervical screening programme was started in 1988. Although there have been significant falls in the incidence of squamous cell carcinoma of the cervix (7% a year) the incidence of adenocarcinoma has not fallen. The frequency of false negative smears is reported to be 2-20%.

## Reference

Patnick J. Has screening for cervical cancer been successful? British Journal of Obstetrics and Gynaecology, 1997; 104: 876–878

## Treatment of bacterial vaginosis

295

No benefit from treatment of the male partner has been demonstrated.

#### References

Lamont RF. Bacterial vaginosis. The Year Book of the RCOG 1994; 149-158.

MacDermott RIJ. Bacterial Vaginosis. British Journal of Obstetrics and Gynaecologists 1995; 102: 92-94.

## Regarding urinary incontinence

299 (Urinary incontinence: urodynamics)

Urinary incontinence should be objectively demonstrable, and cause social and hygiene problems to qualify as such. Up to 50% of healthy women leak urine occasionally. This does not cause hygienic or social problems and therefore does not need investigating or treating. The majority of studies suggest that urodynamics confirms the clinical diagnosis in 55-75% of cases.

#### References

Bidmean J. Cardozo L. Detrusor instability. RCOG PACE review 98/03.

Cardozo L. Hill S. Urinary incontinence. RCOG PACE review 96/09.

Jarvis GJ. Female urinary incontinence - which patients? - which tests?. The Year Book of the RCOG 1994; 111–120.

Richmond D. The incontinent woman: 1. British Journal of Hospital Medicine, 1993; 50: 418–423.

Richmond D. The incontinent woman: 2. British Journal of Hospital Medicine, 1993; 50: 490–492.