

**Vinnytsya National Pirogov Memorial Medical University**

**Clinical Cases in  
Obstetrics and Gynecology**

*Dmytro Konkov  
Olha Bulavenko*

**Vinnytsya - 2018**

UDC 618

LBC 57.1

K 72

***Edited by***

**Dmytro Konkov** MD, PhD, UAOG, Associate Professor of Department Obstetrics and Gynecology №1, Vinnytsya National Pirogov Memorial Medical University, the Chairman of University Medical Simulation Centre (department obstetrics and gynecology)

**Olha Bulavenko** MD, PhD, UAOG, Professor, The Chairman of Department Obstetrics and Gynecology №2, Vinnytsya National Pirogov Memorial Medical University, President of the Ukrainian Association Medical Educational Simulation Technologies

*Medicine is an ever-changing science. As new research and clinical experience broaden our knowledge, changes in treatment and drug therapy are required. The authors of this book have checked with sources believed to be reliable in their efforts to provide information that is complete and generally in accord with the standards accepted at the time of publication. The clinical cases are designed to be a study companion to PreTest MRCOG: Obstetrics and Gynecology, 1st edition. In this textbook, the objective is to cover conditions most common in clinical practice, while highlighting disorders that regularly appear on board exams. Case vignettes and questions allow you to test your knowledge with detailed information about associated clinical findings, diagnostic tests, differential diagnosis, treatment, and prognosis on the next page of the textbook. Once you learn the answers to the cases, we challenge you to quiz yourself on other details related to the diagnoses.*

*We hope these clinical cases will be useful both to the students as an overview of obstetric and gynecologic essentials as well as to the experienced practitioner as a review of frequently encountered diagnoses and commonly tested clinical facts.*

The first reviewer - **Makarchuk Oksana**, MD, PhD, UAOG, Professor, The Chairman of Department of Midwifery and Gynaecology of postgraduate study faculty, The Ivano-Frankivsk National Medical University

The second reviewer – **Krasnov Volodymyr**, MD, PhD, Professor, , The Chairman of Department of Pedagogics Psychology Medical and Pharmaceutical Law, the Shupyk National Medical Academy of Postgraduate Education

Printed in Ukraine, Vinnytsya 2018

**Konkov D.G., Bulavenko O.V.**

**K 72** Clinical Cases in Obstetrics and Gynecology / D.G. Konkov, O.V. Bulavenko. – Vinnytsya: LLC «Nilan-Ltd», 2018. – 414p.  
ISBN 978-966-924-720-9

**UDC 618**

**LBC 57.1**

**ISBN 978-966-924-720-9**

© **Konkov D.G., Bulavenko O.V.**, 2018

© **LLC «Nilan-Ltd»**, 2018

## Contents

Contents		v
Abbreviations		1
Contributors		3
Approach to the patient		4
Approach to clinical problem solving		12
Approach to reading		14
Clinical Cases with Explanation	<b>1 - 72</b>	19
Obstetrics and gynecology flashcards	<b>1 - 116</b>	165
USMLE cases		243
Obstetrics	<b>1 - 16</b>	243
Gynecology	<b>1 - 16</b>	291
Questionnaire from USMLE with explanation		335
Diseases and disorders of the female reproductive system		335
Breast	<b>1 - 6</b>	335
Uterus	<b>1 - 10</b>	337
Ovary, fallopian tube, and broad ligament	<b>1 - 7</b>	338
Cervix	<b>1 - 5</b>	340
Vagina/vulva	<b>1 - 3</b>	340
Menstrual disorders	<b>1 - 15</b>	341
Menopause	<b>1 - 11</b>	344
Pelvic relaxation and urinary disorders	<b>1 - 2</b>	346
Female fertility/infertility	<b>1 - 24</b>	346
Neoplasms	<b>1 - 14</b>	350
Infections	<b>1 - 7</b>	352
Pregnancy, labor and delivery, the fetus, and the newborn		355
Pregnancy complications	<b>1 - 32</b>	355
Uncomplicated pregnancy	<b>1 - 48</b>	360
Labor, delivery, and the postpartum period (including placental abnormalities)	<b>1 - 52</b>	370
Fetus and newborn	<b>1 - 32</b>	382
Perinatal infections	<b>1 - 15</b>	389
Clinical case scenarios	<b>1 - 9</b>	393
Listing of Cases		406
Listing by Case and Disorder (Alphabetical)		406
References		410

## ABBREVIATIONS

AC	abdominal circumference
AFI	amniotic-fluid index
AGS	atypical glandular cells
AMA	advanced maternal age
APTT	activated partial thromboplastin time
ASC	atypical squamous cells
AUB	abnormal uterine bleeding
BC	birth centre
BD	binocular distance
BMI	body mass index
BP	blood pressure
BPD	biparietal diameter
BV	bacterial vaginosis
CBC	complete blood count
CHC	combined hormonal contraception
CIN	cervical intraepithelial neoplasia
CMV	cytomegalovirus
CO	cardiac output
COC	combined oral contraceptive
CRL	crown rump length
CS	caesarean section
CST	contraction stress test
CT	computed tomography
CTG	cardiotocograph
CVA	costovertebral angle
CVS	chorionic villus sampling
D & C	dilation and curettage
DHEAS	dehydroepiandrosterone
DIC	disseminated intravascular coagulopathy
DVT	deep venous thrombosis
EAS	external anal sphincter
EC	emergency contraception
ECV	external cephalic version
EDD	expected due date
EFW	estimated fetal weight
EGA	estimated gestational age
EOC	epithelial ovarian carcinoma
ERPC	evacuation of retained products of conception
FL	femur length
FNA	fine needle aspiration
FSH	follicle-stimulating hormone
GBS	group B Streptococcus
GDM	gestational diabetes mellitus
GnRH	gonadotropin-releasing hormone
GSUI	genuine stress incontinence
GTD	gestational trophoblastic disease
HBsAg	hepatitis B surface antigen
HC	head circumference
hCG	human chorionic gonadotrophin
HELLP	haemolysis, elevated liver enzymes and low platelets
HMB	heavy menstrual bleeding

## ABBREVIATIONS

HPV	human papillomavirus
HR	heart rate
HRT	hormone replacement therapy
HSG	hysterosalpingogram
HSIL	high grade squamous intraepithelial lesion
INR	international normalized ratio
IUGR	intrauterine growth retardation
IUP	intrauterine pregnancy
IUS	intrauterine system
IVP	intravenous pyelogram
LLETZ	large loop excision of the transformation zone
LMP	last menstrual period
LMWH	low molecular weight heparin
LSIL	low grade squamous intraepithelial les
MAP	mean arterial pressure
MCA-PSV	middle cerebral artery peak systolic velocity
MCV	mean corpuscular volume
MRI	magnetic resonance imaging
MRSA	methicillin-resistant Staphylococcus aureus
MS- AFP	maternal serum alpha-feto protein
NAAT	nucleic acid amplification testing
NIL	negative for intraepithelial neoplasia
NIPT	non-invasive prenatal test
NSAIDs	nonsteroidal anti-inflammatory drugs
NST	non-stress test
NT	nuchal translucency
OAB	overactive bladder
OC	obstetric cholestasis
OGTT	oral glucose tolerance test
PAPP-A	pregnancy-associated plasma protein-A
PCOS	polycystic ovary syndrome
PE	preeclampsia
PID	pelvic inflammatory disease
PIH	pregnancy-induced hypertension
POP	progestogen-only pill
PPROM	preterm prelabour rupture of membranes
RBCs	red blood cells
RDS	respiratory distress syndrome
RR	respiratory rate
SGOT	serum glutamic-oxaloacetic transaminase
SLE	systemic lupus erythematosus
SV	stroke volume
TEDS	thromboembolic stockings
TPN	total parenteral nutrition
TTTS	twin-to-twin transfusion syndrome
TVT	tensionless transvaginal tape
UAE	uterine artery embolization
VBAC	vaginal birth after caesarean
VIN	vulvar intraepithelial neoplasia
VZV	varicella zoster virus
WCC	white cell count

## **CONTRIBUTORS**

**Taran Oksana**, MD, PhD, UAOG, Associate Professor of Department Obstetrics and Gynecology №1, The Vinnytsya National Pirogov Memorial Medical University

**Klivak Vitaliy**, PhD, assistant of Department Obstetrics and Gynecology №2, The Vinnytsya National Pirogov Memorial Medical University, trainer of University Medical Simulation Centre (department obstetrics and gynecology)

# Listing of Cases

## Listing by Case and Disorder (Alphabetical)

<b>DISEASE</b>	<b>CASE PAGEs</b>
<b>1</b>	<b>2</b>
ABDOMINAL PAIN IN PREGNANCY (OVARIAN TORSION)	<u>67</u>
ABDOMINAL PAIN IN PREGNANCY (OVARIAN CYST)	<u>79, 157, 307</u>
ABORTION, SEPTIC	<u>85, 187, 193</u>
ACUTE APPENDICITIS DURING PREGNANCY	<u>187</u>
ACUTE HEPATITIS B (HBV) INFECTION	<u>227</u>
ACUTE PANCREATITIS DURING PREGNANCY	<u>201</u>
ADVANCED MATERNAL AGE WITH FALSE-POSITIVE FIRST-TRIMESTER GENETIC SCREENING	<u>249</u>
AMENORRHEA (INTRAUTERINE ADHESIONS)	<u>81, 237, 239, 301</u>
AMNIOTIC FLUID EMBOLISM	<u>117, 185</u>
AMENORRHEA (PRIMARY)	<u>83, 239</u>
AMENORRHEA (SHEEHAN SYNDROME)	<u>51, 211</u>
ANEMIA IN PREGNANCY (THALASSEMIA)	<u>71</u>
AORTIC STENOSIS IN PREGNANCY	<u>205</u>
ARREST OF STAGE 1 OF LABOR	<u>284</u>
ASTHMA DURING PREGNANCY	<u>207</u>
BACTERIAL VAGINOSIS	<u>99, 219, 291</u>
BARTHOLIN'S ABSCESS	<u>155, 219</u>
BICORNUATE UTERUS	<u>213</u>
BREAST ABSCESS AND MASTITIS	<u>91, 183</u>
BREAST CARCINOMA	<u>189</u>
BREECH PRESENTATION	<u>175, 177, 179</u>
CANDIDIASIS	<u>219</u>
CARDIOPULMONARY ARREST IN PREGNANCY	<u>185</u>
CERVICAL CANCER	<u>49</u>
CERVICAL INTRAEPITHELIAL NEOPLASIA (CIN)	<u>231, 293</u>
CERVICAL POLYP	<u>221</u>

CHLAMYDIA CERVICITIS	<u>225</u>
CHOLELITHIASIS DURING PREGNANCY	<u>199</u>
CHORIOAMNIONITIS	<u>127</u>
CHRONIC HEPATITIS B IN PREGNANCY	<u>209</u>
COMPLETE HYDATIDIFORM MOLE	<u>111</u>
COMPLETED MISCARRIAGE	<u>37, 189</u>
CONTRACEPTION	<u>75, 321</u>
CYTOMEGALOVIRUS INFECTION IN PREGNANCY	<u>167,</u>
DEEP VENOUS THROMBOSIS IN PREGNANCY	<u>77, 211</u>
DISSEMINATED INTRAVASCULAR COAGULATION	<u>185</u>
DYSFUNCTIONAL UTERINE BLEEDING	<u>215, 398</u>
DYSMENORRHEA	<u>217, 309, 317</u>
ECLAMPSIA	<u>145, 201</u>
ECTOPIC PREGNANCY	<u>69, 107, 161,</u> <u>191, 193, 195,</u> <u>304, 408</u>
ENDOMETRIAL CARCINOMA	<u>233, 327</u>
ENDOMETRIAL HYPERPLASIA	<u>233</u>
ENDOMETRIAL POLYP	<u>231, 312</u>
ENDOMETRIOSIS	<u>239</u>
FALSE-POSITIVE ELEVATED MS-AFP SCREENING TEST BUT NORMAL FETUS	<u>253</u>
FETAL ASPHYXIA	<u>153</u>
FETAL BRADYCARDIA (CORD PROLAPSE)	<u>53, 151</u>
FETAL DISTRESS	<u>115, 123, 124,</u> <u>277</u>
FIBROADENOMA OF THE BREAST	<u>61</u>
FOLLICULAR CYST	<u>223</u>
GESTATIONAL DIABETES	<u>211, 265</u>
GESTATIONAL HYPERTENSION	<u>203, 205</u>
GONOCOCCAL CERVICITIS	<u>35, 227</u>
HEALTH MAINTENANCE, AGE 66 YEARS	<u>21</u>
HELLP SYNDROME	<u>129, 165</u>
HEPATITIS C (HCV) INFECTION	<u>229</u>
HYDATIDIFORM MOLE	<u>235</u>
HYPEREMESIS GRAVIDARUM	<u>113, 209, 402</u>
HERPES GENITALIS	<u>221</u>
INCOMPLETE ABORTION	<u>189</u>



INEVITABLE ABORTION	<u>191, 409</u>
INFERTILITY	<u>65, 235, 237, 314</u>
INTRA-AMNIOTIC INFECTION	<u>97</u>
INTRAUTERINE FETAL DEMISE	<u>197,</u>
INTRAUTERINE FETAL GROWTH RESTRICTION	<u>169, 259</u>
KALLMANN'S SYNDROME	<u>215</u>
LABOR (NORMAL)	<u>29, 139, 243</u>
LARGE FOR GESTATIONAL AGE	<u>171</u>
MAYER-ROKITANSKY-KUSTER-HAUSER SYNDROME	<u>215</u>
MENOPAUSE	<u>241, 329</u>
MISSED MISCARRIAGE	<u>109, 191</u>
MITRAL STENOSIS IN PREGNANCY	<u>207</u>
NECROTIZING FASCIITIS	<u>27</u>
NONREACTIVE NST	<u>256</u>
OVARIAN CARCINOMA	<u>233, 332</u>
PARVOVIRUS INFECTION IN PREGNANCY	<u>93, 167</u>
PELVIC INFLAMMATORY DISEASE	<u>165, 227, 229,</u> <u>293</u>
PELVIC ORGAN PROLAPSE	<u>103, 225, 402</u>
PEPTIC ULCER DISEASE DURING PREGNANCY	<u>201</u>
PERIMENOPAUSE	<u>25</u>
PERINEAL RUPTURE	<u>141</u>
PERIPARTUM CARDIOMYOPATHY	<u>207</u>
PLACENTA ACCRETA	<u>33, 177</u>
PLACENTA PREVIA	<u>45, 175, 269</u>
PLACENTAL ABRUPTION	<u>47, 141, 173, 405</u>
POLYCYSTIC OVARIAN SYNDROME	<u>101, 239, 399</u>
POSTMENOPAUSAL BLEEDING	<u>43, 217</u>
POSTPARTUM ENDOMYOMETRITIS	<u>95, 181</u>
POSTPARTUM HEMORRHAGE	<u>87, 137, 181,</u> <u>183, 199, 286</u>
POSTTERM PREGNANCY	<u>195, 280, 284</u>
PREECLAMPSIA	<u>149, 203, 400</u>
PREECLAMPSIA AND HEPATIC RUPTURE	<u>61</u>
PRENATAL CARE	<u>105</u>
PRETERM LABOR	<u>73, 131, 195,</u> <u>197, 261</u>

PREMATURE OVARIAN FAILURE	<u>237</u>
PREMATURE RUPTURE OF MEMBRANES AT TERM	<u>197</u>
PUBERTAL DELAY, GONADAL DYSGENESIS	<u>89</u>
PULMONARY EMBOLUS	<u>57, 147, 189, 213</u>
PYELONEPHRITIS	<u>209</u>
RECURRENT PREGNANCY LOSS	<u>165</u>
RH ALLOIMMUNIZATION	<u>165, 251</u>
RUBELLA INFECTION IN PREGNANCY	<u>167</u>
SALPINGITIS, ACUTE	<u>55</u>
SECONDARY POSTPARTUM HAEMORRHAGE	<u>119</u>
SEPTIC MISCARRIAGE	<u>159</u>
SEPTIC PELVIC THROMBOPHLEBITIS	<u>213</u>
SEVERE PREECLAMPSIA	<u>135, 205, 272</u>
SHOULDER DYSTOCIA	<u>39, 131, 179</u>
SYPHILIS INFECTION IN PREGNANCY	<u>181</u>
THECA LUTEIN CYSTS	<u>223</u>
THREATENED MISCARRIAGE	<u>31, 193, 245</u>
TOXIC SHOCK	<u>229</u>
TOXOPLASMOSIS INFECTION IN PREGNANCY	<u>169</u>
TRICHOMONAS VAGINITIS	<u>221</u>
TWIN PREGNANCY	<u>169, 171</u>
UNCOMPLICATED PREGNANCY	<u>406</u>
URETERAL INJURY AFTER HYSTERECTOMY	<u>41</u>
URINARY INCONTINENCE	<u>19, 223, 225, 323</u>
UTERINE INVERSION	<u>23, 183</u>
UTERINE LEIOMYOMA	<u>59</u>
UTERINE RUPTURE	<u>121</u>
VAGINAL INTRAEPITHELIAL NEOPLASIA	<u>231</u>
VASA PREVIA	<u>173</u>
VULVAR SQUAMOUS CELL CARCINOMA	<u>334</u>

## REFERENCES

1. Obstetrics and Gynecology. PreTest MRCOG / Bulavenko O.V., Konkov D.G. – Vinnytsya: LLC “Nilan-LTD.”, 2017. – 244 p.
2. Sakala Elmar Peter. USMLE. Step 2 CK. Lecture notes 2017. Obstetrics and Gynecology / Elmar Peter Sakala// Kaplan Medical New York, NY. – 2017. – 289 p.
3. Case files. Obstetrics and Gynecology / Eugene C. Toy, Benton Baker III, Patti Jayne Ross, John C. Jennings // The McGraw-Hill Companies 2010. - 508 p.
4. 100 cases in Obstetrics and Gynecology / Cecilia Bottomley and Janice Rymer. – London: Hodder Education., 2008. – 265 p.
5. USMLE step 3 (Secrets) / Theodore X. O’Connell, Thomas E. Blair, Ryan A. Pedigo. “Elsevier Inc.”, 2016. – 414 p.
6. USMLE step 3 (Lecture Notes 2017–2018) Pediatrics, Obstetrics/Gynecology, Surgery, Epidemiology/Biostatistics, Patient Safety / Kaplan medical., 2017. – 821 p.
7. Blueprints obstetrics & gynecology / Tamara L. Callahan, Aaron B. Caughey. — 6th ed. Lippincott Williams & Wilkins., 2013. – 506 p.
8. Core Clinical Cases In Obstetrics and Gynaecology / Janesh K. Gupta, Gary Mires and Khalid S. Khan. – 2<sup>nd</sup> ed. Hodder Education., 2006. – 179 p.
9. Obstetrics and gynecology.—6th ed. / Douglas W. Laube. Lippincott Williams & Wilkins., 2010. – 497 p.
10. Obstetrics : normal and problem pregnancies / [edited by] Steven G. Gabbe [et al.].—6th ed. Elsevier Inc., 2012. – 1292 p.
11. NMS obstetrics and gynecology. – 7th ed. / editor, Samantha M. Pfeifer. Lippincott Williams & Wilkins., 2012. – 522 p.
12. Obstetrics and gynaecology (Clinical cases uncovered) / Maggie Cruickshank, Ashalatha Shetty. Wiley-Blackwell., 2009. – 200 p.

Vinnitsya National Pirogov Memorial Medical University

**Clinical Cases**  
**Obstetrics and Gynecology**

**D. Konkov & O. Bulavenko**

The monograph was approved for publication 01.09.2018. Format 60x84/16.  
Offset paper. Font "Times". Laser printing.  
25,9 conventional quires. Total circulation 80 copies. Order 151.

Publisher and manufacturer LLC "Nilan-Ltd."  
Certificate of entry the subject of publishing in the State Register of  
publishers, manufacturers and distributors of publishers, manufacturers and distributors  
series ДК № 4299 from 04.11.2012  
PO Box 8825, 600th Anniversary Str., 21, Vinnitsya, 21007  
Phone: +38 (0432) 69 67 69, +38 (0432) 603 000