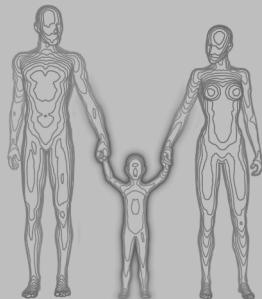


FAMILY MEDICINE



IN **3** BOOKS

Edited by
Professor **O.M. HYRINA**,
Professor **L.M. PASIYEVSHVILI**,
Professor **L.S. BBINETS**

BOOK **3**

SPECIAL PART. MULTIDISCIPLINARY GENERAL MEDICAL PRACTICE

APPROVED

by the Ministry of Education and Science
of Ukraine as a textbook for students of higher
medical educational establishments

PUBLISHED

in accordance with the Order of the Ministry
of Health of Ukraine No. 502 of 22 June 2010
as a national textbook for students of higher
medical educational establishments

RECOMMENDED

by the Academic Council of Bogomolets National
Medical University to be published as a textbook
«Family Medicine» in three books, edited by
Professor O.M. Hyrina, Professor L.M. Pasiyeshvili

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The textbook is committed to provide current information regarding family physician practice, considering the multidisciplinary aspect of general medical practice. The textbook contains practical recommendations for family physicians in the management of patients with nosologies at the stage of primary medical care, focuses on the clinical manifestations, diagnostic criteria, treatment and prevention algorithms within the occupational competence framework of family physician, as well as the guidelines for interaction with healthcare professionals who provide specialized care.

The textbook corresponds to the curriculum on the specialty «General Practice/Family Medicine» and is intended for use by students of higher medical educational establishments, internship doctors, family physicians/GPs and pediatricians.

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Contents

List of abbreviations	8
Chapter 1. Obstetrics	
1.1. Anatomy and physiology of female body (<i>V.H. Karpenko</i>)	9
1.1.1. Anatomy of female reproductive system	9
1.1.2. Main female sex hormones	9
1.1.3. Diagnosis of early pregnancy	10
1.2. Check up and prenatal care of pregnant (<i>O.O. Vorontsov</i>).....	13
1.3. Prenatal psychoprophylactic training of responsible paternity	22
1.4. Drug therapy in pregnancy.....	25
1.5. Early gestosis (<i>V.H. Karpenko</i>)	30
1.5.1. Rare forms of early gestosis	33
1.5.2. Treatment of early gestosis	34
1.6. Late gestosis (<i>V.H. Karpenko</i>)	36
1.7. Postpartum period (<i>L.S. Babinets</i>).....	41
Chapter 2. Gynecology	
2.1. Tumors of genital organs (<i>V.H. Karpenko</i>).....	42
2.1.1. Tumors of external genitalia.....	42
2.1.2. Tumors of vagina	43
2.1.3. Tumors of the cervix.....	44
2.2. Dysfunctional (abnormal) uterine bleeding.....	46
2.3. Disorders of sex development in children and adolescents.....	51
2.3.1. Delayed puberty	53
2.4. Inflammatory genital diseases in girls and adolescent girls.....	55
2.5. Female genital inflammatory diseases	57
2.6. Perimenopause	59
2.7. Family planning (<i>N.M. Pasiyeshvili</i>)	68
2.7.1. Types of contraception	68
2.7.2. Family planning issues	81
2.7.3. Topical issues of infertile couple	84
Chapter 3. Allergology.....	
3.1. Allergic rhinitis (<i>N.M. Zhelezniakova</i>).....	89
3.2. Urticaria	92
3.3. Food allergy	93
3.4. Pollinosis (<i>T.M. Pasiyeshvili</i>)	99
3.4.1. Pollinosis in children	100
3.5. Pharmacotherapy of allergic diseases (<i>N.M. Zhelezniakova</i>).....	103
Chapter 4. Systemic allergic vasculitis (<i>V.M. Zhdan, M.Yu. Babanina</i>).....	
Chapter 5. Dermatology (<i>S.A. Bondar</i>)	
5.1. Pyodermitites.....	126
5.1.1. Features of clinical forms	127
5.1.2. Treatment and prevention of pyoderma	130
5.2. Mycoses	131

CONTENTS

5.2.1. Keratomycosis.....	132
5.2.2. Pseudomycosis.....	132
5.2.3. Dermatophytosis	133
5.2.4. Candidosis	136
5.3. Parasitic skin diseases (dermatozoonoses)	137
5.3.1. Pediculosis.....	137
5.3.2. Scabies	138
5.4. Viral dermatoses.....	139
5.4.1. Catarrhal fever (Herpes simplex)	139
5.4.2. Shingles (Herpes zoster).....	140
5.4.3. Warts (verrucae).....	141
5.5. Allergic skin diseases	141
5.5.1. Dermatitis	141
5.5.2. Eczema	145
5.5.3. Atopic dermatitis	147
5.5.4. Psoriasis	150
5.6. Sexually transmitted infections (<i>A.A. Nalizhytyi</i>).....	152
5.6.1. Syphilis	152
Chapter 6. Neurology (<i>O.L. Tovazhnianska</i>).....	159
6.1. Headache	159
6.1.1. Primary headache.....	159
6.1.2. Secondary headache.....	160
6.1.3. Headache diagnosis and patient's route	161
6.1.4. Headache treatment.....	161
6.2. Acute disorder of cerebral circulation.....	162
6.3. Encephalopathic syndrome	167
6.4. Paroxysmal neurological conditions.....	169
6.4.1. Epileptic seizure.....	169
6.4.2. Paroxysmal states of non-epileptic origin	170
6.5. Syndromes of the peripheral nervous system disorders	172
6.6. Neurological syndromes caused by somatic pathology	175
Chapter 7. Basics of geriatrics and gerontopharmacology (<i>A.A. Zazdravnov</i>).....	184
Chapter 8. Otorhinolaryngology (<i>S.M. Pukhlyk</i>).....	193
8.1. Ear pain.....	193
8.1.1. Diseases accompanied by otalgia.....	193
8.1.2. Inflammatory diseases of the outer and middle ear	195
8.1.3. Neoplasms of the external auditory canal and middle ear.....	198
8.2. Pain in the pharynx	199
8.2.1. Diseases accompanied by sore throat.....	199
8.2.2. Inflammatory diseases of the pharynx.....	201
8.2.3. Malignant pharyngeal tumors.....	208
8.2.4. Malignant neoplasms of the larynx	208
8.3. Disorders of nasal breathing.....	209
8.3.1. Inflammatory diseases of the nose	209
8.3.2. Inflammatory diseases of the sinuses (sinusitis).....	213
8.3.3. Foreign bodies in the nasal cavity.....	215
8.3.4. Nasal and nasopharyngeal neoplasms.....	216
8.3.5. Nasal septal injuries	217

CONTENTS

8.3.6. Adenoid hypertrophy	218
8.3.7. Nasal injuries	218
8.3.8. Difficulty laryngeal breathing.....	219
8.4. Nasal bleeding.....	223
8.5. Hearing loss	224
8.5.1. Diseases accompanied by hearing loss.....	225
8.6. Purulent discharge from the ear	229
8.6.1. Diseases associated with purulent discharge from the ear	230
8.6.2. Malignant tumors of nasal cavity and sinuses	231
8.7. Voice disorders.....	232
8.8. Rhinolalia	234
Chapter 9. Ophthalmology (P.A. Bezditko).....	236
9.1. Refractive errors in children and adults.....	236
9.2. Diseases of conjunctiva	238
9.2.1. Inflammatory conjunctival diseases of exogenous etiology	238
9.2.2. Allergic conjunctivitis	243
9.2.3. Degenerative dystrophic conjunctival changes	245
9.2.4. Tumors of conjunctiva.....	246
9.3. Eyelid diseases.....	246
9.3.1. Congenital anomalies of the eyelids	247
9.3.2. Acquired diseases of the eyelids	248
9.3.3. Tumors of the eyelids	250
9.4. Diseases of the lacrimal organs	251
9.4.1. Congenital diseases of the lacrimal organs.....	251
9.4.2. Neoplasms of the lacrimal passages.....	252
9.5. Corneal diseases	253
9.5.1. Subjective and objective symptoms.....	253
9.5.2. Characteristic clinical forms.....	254
9.6. Uveal diseases	258
9.6.1. Choroidal inflammatory diseases	258
9.6.2. Choroidal neoplasms	260
9.7. Lens diseases	261
9.7.1. Congenital cataract	261
9.7.2. Acquired lens opacity.....	262
9.7.3. Lens dislocation	263
9.7.4. Present-day methods of lens diseases treatment	264
9.8. Glaucoma	264
9.8.1. Primary glaucoma	264
9.8.2. Secondary glaucoma	270
9.8.3. Congenital glaucoma.....	271
9.9. Retinal diseases	273
9.9.1. Retinal vascular disease.....	273
9.9.2. Acute circulatory disorders of the retinal vessels.....	275
9.9.3. Diabetic retinopathy.....	277
9.9.4. Retinal and chorioretinal degeneration.....	278
9.9.5. Hereditary retinal degeneration	279
9.9.6. Retinal inflammatory diseases	281
9.9.7. Retinal detachment	282
9.9.8. Tumors of the retina.....	283
9.9.9. Retinal damage in patients with AIDS	284

CONTENTS

9.10. Optic nerve diseases	285
9.10.1. Inflammatory diseases of the optic nerve	285
9.10.2. Toxic (dystrophic) lesions of the optic nerve	286
9.10.3. Vascular diseases of the visual analyzer.....	287
9.10.4. Choked disc	288
9.10.5. Atrophy of the optic nerve	288
9.10.6. Optic nerve tumors.....	289
9.10.7. Developmental abnormalities of the optic nerve	290
9.11. Orbit diseases.....	290
9.12. Visual organ injuries	292
9.12.1. Mechanical injuries.....	292
9.12.2. Eye burns.....	295
9.12.3. Ultraviolet damage to the eyes.....	297
Chapter 10. Pediatrics	299
10.1. Anatomy and physiology of newborn and neonatal care (<i>Ya. I. Venher</i>)	299
10.1.1. Anatomy and physiology of child in the neonatal period.....	299
10.1.2. Physiological (transient) states in the neonatal period.....	300
10.1.3. Newborn sleep	307
10.1.4. Primary examination of child after discharge from the maternity unit.....	308
10.1.5. Newborn care.....	309
10.1.6. Hygiene rules to follow with children of the first year of life	310
10.2. Breastfeeding a newborn (<i>V.I. Velychko</i>).....	313
10.2.1. Qualitative and quantitative composition of breast milk.....	314
10.2.2. Regimen and diet of nursing woman	315
10.3. Feeding children of the first year of life (<i>H.O. Danylchuk, N.S. Shnayder</i>)	320
10.3.1. Feeding on demand	320
10.3.2. Introduction of complementary foods in breastfeeding period	323
10.3.3. Premature baby feeding.....	327
10.3.4. Formula feeding	331
10.3.5. Mixed feeding.....	339
10.4. Nutrition for children aged 1—3 years (<i>V.I. Velychko</i>)	340
10.5. Preventive vaccination (<i>T.V. Frolova</i>).....	345
10.5.1. Basics of vaccination	345
10.5.2. Classification of vaccines	345
10.5.3. Present-day vaccine components.....	347
10.5.4. Vaccines provided by family physician. Modern vaccination schedule	348
10.5.5. Key issues while providing vaccination	350
Chapter 11. Psychiatry (<i>V.I. Korostiy</i>)	352
11.1. Anxiety disorders	352
11.1.1. Phobic anxiety disorders.....	354
11.1.2. Other anxiety disorders	356
11.1.3. Obsessive-compulsive disorder.....	357
11.1.4. Treatment program for anxiety disorders.....	360
11.2. Depression	366
Chapter 12. Phthisiology (<i>O.S. Shevchenko</i>)	377
12.1. Strategies for TB control	377
12.2. TB prevention	378
12.2.1. Vaccination	378

CONTENTS

12.2.2. Chemoprophylaxis.....	381
12.2.3. Infection control	382
12.3. Tuberculosis detection	383
12.3.1. Active detection.....	385
12.3.2. Passive detection	389
12.3.3. Diagnosis of tuberculosis at different levels of medical care	391
12.3.4. Formulation of diagnosis	395
12.4. TB treatment	398
Chapter 13. Surgery	405
13.1. Pediatric surgery (<i>V.S. Konoplitskyi</i>).....	405
13.1.1. Traumatic disease	405
13.1.2. Inflammatory and purulent-septic diseases in children.....	412
13.1.3. Acute and chronic digestive tract diseases	423
13.2. General surgery (<i>L.S. Babinets, B.O. Mihenko</i>)	436
13.2.1. Wounds and wound infection	436
13.2.2. Breast diseases.....	443
13.2.3. Diseases of the thoracic and abdominal cavities	448
13.2.4. Emergency surgical diseases of the abdominal cavity	481
13.2.5. Purulent outpatient surgery.....	501
13.2.6. Benign tumors	515
13.3. Diseases of the great vessels (<i>L.S. Babinets, B.O. Mihenko</i>)	518
13.3.1. Lower limb varicose vein disease	518
13.3.2. Acute superficial vein thrombophlebitis of the lower limbs.....	520
13.3.3. Acute deep vein thrombosis of the lower limbs	521
13.3.4. Occlusive diseases of the lower limb great arteries	523
13.3.5. Post-thrombophlebic lower limb syndrome	526
13.3.6. Thrombosis and embolism of the upper and lower peripheral arteries (acute arterial insufficiency).....	528
13.3.7. Acute embolism and thrombosis of mesenteric vessels (acute mesenteric ischemia).....	530
13.4. Proctology (<i>T.I. Tamm</i>).....	531
13.4.1. Acute and chronic proctological diseases	531
13.4.2. Diarrheal-inflammatory syndrome	542
13.4.3. Rectal prolapse syndrome.....	548
13.5. Thermal and chemical damage (<i>B.O. Mihenko, L.S. Babinets</i>)	549
13.5.1. Thermal burns.....	550
13.5.2. Chemical burns	554
13.5.3. Electrical injury	555
13.5.4. Cold injury	555
13.6. Traumatology and orthopedics (<i>B.O. Mihenko, L.S. Babinets</i>).....	559
13.6.1. Acute damage to bones and joints.....	559
13.6.2. Congenital and chronic lesions of bones and joints.....	572
13.7. Urology (<i>V.M. Lisovyi, I.A. Harahatyi</i>)	586
13.7.1. Dysuric disorders, urinary incontinence	586
13.7.2. Infectious and inflammatory diseases of the genitourinary system	588
13.7.3. Prostate gland enlargement.....	596
13.7.4. Emergency care in urological diseases	601
Annexes.....	610

List of abbreviations

AACE	— angiotensin-converting enzyme	Lzd	— linezolid
ACS	— acute coronary syndrom	MBT	— Mycobacterium tuberculosis
ACTH	— adrenocorticotrophic hormone	MDRTB	— multidrug-resistant tuberculosis
ADH	— antidiuretic hormone	Mfx	— moxifloxacin
AIDS	— human acquired immunodeficiency syndrome	MRI	— magnetic resonance imaging
ALV	— artificial lung ventilation	MSCT	— multislice spiral computed tomography
Am	— amikacin	MVP	— mitral valve prolapse
Amx/Clv	— amoxicillin / clavulanic acid	NCD	— neurocirculatory dystonia
ARB	— acid resistant bacteria	NDTB	— newly diagnosed TB
BA	— bronchial asthma	NSAID	— nonsteroidal anti-inflammatory drug
BMI	— body mass index	Ofx	— ofloxacin
BP	— blood pressure	OTB	— other case of TB
Cfx	— ciprofloxacin	PAS	— paraaminosalicylic acid
Cfz	— clofazimine	PCR	— polymerase chain reaction
CHD	— coronary heart disease	PE	— pulmonary embolism
Clr	— clarithromycin	PR	— pulmonary regurgitation
Cm	— capreomycin	Pt	— protonamide
CMAC	— Central Medical Advisory Commission	Q	— fluoroquinolone group preparations
CNS	— central nervous system	R	— rifampicin
COPD	— chronic obstructive pulmonary disease	Rfb	— rifabutin
CRF	— chronic respiratory failure	RifTB	— Rifampin-resistant tuberculosis
Cs	— cycloserine	RR	— respiratory rate
DHR	— delayed hypersensitivity reaction	RTA	— recombinant tuberculosis allergen
DOT	— days of treatment	S	— streptomycin
DST	— drug sensitivity test	SSS	— sick sinus syndrome
E	— ethambutol	T3	— triiodothyronine
Et	— ethionamide	T4	— thyroxine
FEV1	— forced expiratory volume per 1 sec	TAI	— treatment after interruption
FVC	— forced vital capacity	TB	— tuberculosis
GERD	— gastroesophageal reflux disease	TFTB	— treatment failure of tuberculosis
Gfx	— gatifloxacin	Trz	— terizidone
H	— isoniazid	TTH	— thyrotropic hormone
HIV	— human immunodeficiency virus	TU	— tuberculin unit
HR	— heart rate	US	— ultrasonography
Km	— kanamycin	WPW syndrome	— Wolff-Parkinson-White syndrome
LDL	— low density lipoprotein	XDR-TB	— extensively drug-resistant tuberculosis
Lfx	— levofloxacin	Z	— pyrazinamide
LTBI	— latent tuberculosis infection		

Chapter 1

OBSTETRICS

1.1. ANATOMY AND PHYSIOLOGY OF FEMALE BODY

1.1.1. Anatomy of female reproductive system

External genitalia: pubic symphysis (mons pubis), greater and smaller (shy) lips (labia majora pudendi and labia minora pudendi), clitoris (clitoris), hymen (hymen), greater vestibular (Bartholin) glands (glandulae vestibulares majores, glandulae Bartholini), vulvar vestibule (vestibulum vaginae), urethra (urethra feminina), perineum (perineum).

Internal genitalia: vagina (vagina s. colpos), uterus (uterus), uterine adnexa (adnexa uteri), uterine tubes or fallopian tubes (tubae uterinae), ovaries (ovaria).

The main vessels providing the blood supply to external genitalia include internal pudendal artery (a. pudenda interna) extending from a. illiaca interna, external pudendal artery (a. pudenda externa) — a branch of a. illiaca externa, which sometimes extends from femoral artery, obturator artery (a. obturatoria) extending from a. illiaca interna. Veins of the same name pass parallel to the arteries.

The blood supply to internal genitalia is provided by uterine artery (a. uterina) — a branch of a. illiaca interna, partially by ovarian artery (a. ovarica), extending from abdominal part of the aorta and a. renalis. Uterine artery ramifies to vagina — vaginal artery (a. vaginalis), and at the fundus of uterus it is divided into r. fundi (to the fundus), r. tubarius (to the fallopian tube) and r. ovaricus (to the ovaries).

The blood supply to ovaries and fallopian tubes is mainly provided by ovarian artery (a. ovarica). Veins passing parallel to the arteries of the same name create multiple plexuses anastomosing with each other.

Sympathetic and parasympathetic nervous systems provide innervation.

The lymphatic system of female genitalia consists of large network of lymphatic vessels and nodes.

1.1.2. Main female sex hormones

Genital glands are responsible for producing sex hormones: estrogen and progesterone.

Estrogens are produced by the connective tissue of follicular tunica and progesterone — by corpora lutea. Estrogens can be divided into high active (estradiol, ovarian or follicular hormone) and low active (estriol/theelol). All listed hormones are steroids, since they have steroid ring in their base and differ only in their sidechains. During preg-

CHAPTER 1

nancy, estrogenic hormones provide uterine growth, morphological and functional restructuring of neuromuscular system. Placenta performs estrogen function starting from 13—14 weeks of pregnancy. Estrogens increase both blood circulation in the uterus and level of oxygen partial pressure. They stimulate myometrium breathing function and facilitate redox processes in it, preparing neuromuscular system of uterus to active contractions. Insufficient estrogen production commonly leads to primary poor uterine contraction strength.

Hormones of the corpus luteum (progesterone and luteinizing hormone) and substances with the same effect are called ***gestagens***. Progesterone is also one of the steroid hormones produced by granulosa cells developing after ovulation. During pregnancy, placenta produces progesterone, but it also can be secreted by adrenal cortex.

The pituitary gland, its frontal lobe mainly, produces hormones, which are very important in the pregnancy period. Currently, there are three known gonadotrophic hormones: follicle-stimulating (prolactin A), luteinizing (prolactin B) and lactotrophic (lactogenic) hormones. Moreover, during pregnancy the ovum produces the agent with gonadotrophic effect — human chorionic gonadotropin. The posterior pituitary lobe produces alpha hypophamine (oxytocin) and beta hypophamine (antidiuretic hormone).

Placenta provides complex functions maintaining normal prenatal development of fetus: gas exchange, trophic, endocrine, excretory and protective functions. Also, it has antigenic and immune properties. All main functions of placenta primarily depend on uteroplacental and fetoplacental circulation.

From the first day of embryo development, two cell layers appear, namely, the outer layer forms trophoblast which directly contacts with endometrium, the internal one forms embryoblast. By the end of the second week of embryogenesis, the rapid development of villi in trophoblast can be observed; elements of connective tissue grow into the villi, which further can serve as the basis for the blood vessels development.

The formation of placental barrier ends up to 12th week of prenatal development. Placenta produces a number of hormones, in particular, chorion gonadotropic hormone, placental lactogenic hormone, placental growth hormone, progesterone and estrogen. Some of them are produced by placental tissue itself, while the others are recombined from precursors coming from mother or fetus.

1.1.3. Diagnosis of early pregnancy

Diagnosis of early pregnancy is based on anamnesis, data of clinical and additional methods of examination, such as ultrasound and special markers (biological reactions are not currently used). Anamnesis includes the date of last menstruation, regularity of menstruation, enlargement of breasts and secretion of colostrum (probable signs of pregnancy). Change of taste, smelling, morning nausea and vomiting, food disgust (possible signs of pregnancy) should also be considered.

In later pregnancy, some typical signs can appear on the face skin, abdominal raphe, around nipples, namely, pigment spots (chloasma uterinum) and stretch marks (so-called striae gravidarum).

While performing vaginal examination, physician should pay attention to such probable signs of pregnancy as the vaginal mucosa condition, cyanosis of cervix mucosa, uterus enlargement, increase in its contractility.

The most important probable signs of pregnancy are:

- sign of Gegar — softening of the uterus in the cervix area;
- sign of Genter — ridge-like thickening in the midline of the anterior surface of the uterus, which doesn't extend to its bottom and posterior wall;
- sign of Piskachek — asymmetry of the uterus;
- sign of Snegiriov — uterine contraction during examination;
- sign of Gorvitz—Gegar — easy repositioning of the uterus to hyperreflexia;
- sign of Gubarev—Gauss — insignificant shift of the uterine cervix caused by its softening.

The final determination of pregnancy and gestational age are carried out with special markers based on reactions with chorionic gonadotropin (examination of morning urine of pregnant woman) as well as with ultrasound using vaginal sensors (high resolution of ultrasound sensors allows diagnosing the early pregnancy).

Examination of pregnant. While registering in the maternity welfare center or general practitioner for the examination, the following documents are used:

- 111/o-form includes the history of life, information about previous pregnancies, menstrual function, data of physical and vaginal examination, the size of pelvis and laboratory data in dynamics. After examination, they determine the risk group, tactics for further examination measures. Ultrasound examination should be performed according to the Order of Ministry of Health of Ukraine No. 503 (dated December 18, 2002) at the periods 9—11 weeks (with obligatory measurement of fetal cervical skin fold), 16—21 and 32—36 weeks considering the following indications: intrauterine growth restrictions (IUGR), placental insufficiency, pathological changes in fetal cardiotocogram, severe obstetric pathology to determine fetal biophysical profile. Thus, 111/o-form contains all the information about pregnancy, childbirth and postnatal period.
- 113/o-form consists of 3 sections and reflects the work of maternity welfare center, family practitioner and obstetrics department as well as department for newborn and children's clinic (Scheme 1.1).

According to the Order of the Ministry of Health of Ukraine No. 455 (dated November 13, 2001), the maternity leave is issued for 126 days (70 calendar days before the childbirth and 56 after) starting from the 30th week of pregnancy. In case of preterm or multiple birth delivery, complications during the delivery or after it, 14 extra calendar days are added.

Women belonging to I—IV categories of Chernobyl Nuclear Power Plant victims are issued the maternity leave from 27th week of pregnancy for 180 days (90 days before and 90 days after the childbirth).

Physician should measure the external dimensions of woman's pelvis according to which they assess the size of the small pelvis to provide the successful labor.

Four measurements should to be carried out:

1. Distantia spinarum — the distance between anterior superior iliac spine (spina iliaca anterior) is up to 25—26 cm.