Taking patients' complaints and history

ALGORITHM 1

Determination of gestational age of the pregnancy and probable day of delivery

1. According of WHO(Women Organization Health) a date which we get is considered the date of births, deducting 3 calendar months backwards from the 1th day of the last menstruation;

2. Method Negele: from the 1th day of the last menstruation to deduct 3 calendar months and add 7 days. For example: date of beginning of the last menstruation – on January, 26. We add 7 days – we get on February, 2. From February, 2 we deduct backwards 3 months. Term of births – on a November, 2.

3. Date of non-permanent sexual intercourse. If to the number, when sexual intercourse happened, to add 273 days, the got number will be considered the date of the expected births.

4. Date of ovulation. For determination of term of births it is needed from the first day of the expected menstruation which did not come, to take away 14 days and to the got number add 273 days.

5. Date of the first feeling of motions of fetus. That to get the date of births in primapara, to the day of the first feeling of motions of fetus to add 20 weeks, and inmultipara - 22 weeks.

ALGORITHM 2

Taking of the history in the pregnant woman

I. Anamnesis (in translation from Greek - flashback, reminder) is the taking of information about the origin and motion of disease. At the inspection of pregnant in detail obstetric anamnesis is found out. Finding is added to the individual card of pregnant and postpartum patient.

Communication skillis:

Hello, call themselves and Genial expression, gentle of the conversation tone Clarify how contact the patient contact to to Correct the survey, especially regarding the intimate details of history taking

A woman is asked in special order:

1. Passport data. The last name, name, patronymic, age, profession, place of work, address.

2. Reasons, that forced a woman to appeal for the medical help (stopping of menstruation, bloody disharge, increase of frequency of urination, enlargement of milk glands, pains in a abdomen or back and in.).

3. Domestic anamnesis. Heredity: psychical diseases, alcoholism, drug addiction, lacks of development and other diseases which can be inherited or be had unfavorable influence on development of fetus.

4. Carried more early disease. Rachitis, effecting on deformations of pelvis; infectious diseases which can affect sexual development of girl, illnesses of liver, heart, lungs.

5. Menstrual function:

1) age of menarhe (the first menstruation);

2) term of establishment of regular menstrual function;

3) duration of cycle;

4) duration of bleeding;

5) type of menstruation - painfull, recurrence, regularity;

6) bloodloss;

7) character of menstruations after the beginning of sexual life, births, abortions;

8) data of the first day of the last menstruation;

6.Secretory function:

1) presence of discharge from sexual ways;

2) quantity, character of the discharge (bloody, festering, mucous, watery).

7. Sexual function:

1) age of beginning of sexual life;

2) what marriage and his duration;

3) health of man (alcoholism, tuberculosis, gonorrhoea, Syphilis);

4) application of contraceptives, duration, efficiency

5) presence of sterility in anamnesis, its duration, methods of medical treatment.

8. Genital function or obstetric anamnesis:

1) quantity of pregnancies;

2) result of every pregnancy: births, abortion, ectopic pregnancy, stillborn, features of motion of pregnancy, births, post-natal period;

3) quantity of living children, their mass at birth, features of development.

9. Gynaecological diseases, operations on the pelvic organs.

10. Motion of the given pregnancy – what term the complications were in, as treated oneself – ambulatory or in permanent establishment, what methods of medical treatment were used.

11. Fetal movement:

a) data of the first fetal movement;

δ) intensity and frequency of movement.

ALGORITHM 3

Taking of gynecological patients history

Communication skillis:

Hello, and call themselves Genial expression, gentle of the conversation tone Clarify patient how contact the contact to to Correct the survey, especially regarding the intimate details of history taking

Gynaecological anamnesis is taken in such order:

1. Passport data. The last name, name, patronymic, age, profession, place of work, address.

2. Reasons, that forced a woman to appeal for the medical help (stopping of menstruation, bloody disharge, increase of frequency of urination, enlargement of milk glands, pains in a abdomen or back and in.).

3. Domestic anamnesis. Heredity: psychical diseases, alcoholism, drug addiction, lacks of development and other diseases which can be inherited or be had unfavorable influence on development of fetus.

4. Carried more early disease. Rachitis, effecting on deformations of pelvis; infectious diseases which can affect sexual development of girl, illnesses of liver, heart, lungs.

Gynecological history:

- I. Menstrual function.
 - 1. In what age do the menstruations begin?
 - 2. In which age do they become regular?
 - 3. How many days does the menstruation last?
 - 4. In how many days does the menstruation repeat?
 - 5. What quantity of blood is lossed during menstruation?
 - 6. Are the menstruations regular?
 - 7. Is menstruation accompanied by the unpleasant feeling?
 - 8. When the last menstruation was?
 - 9. Did the character of menstrual function during this disease change?
- II. Sexual function.
 - 1. In what age does the sexual life begin?
 - 2. Do you use oral contraceptives? Which exactly? What their efficiency?
 - 3. Did the character of sexual function during this disease change?
- III. Generative function.
 - 1. How many pregnancies were?

- 2. How did pass each of them, which complications were present? What every pregnancy finished by?
- 3. How many births were? How did they pass? Which complications were predent?
- 4. How did post-natal periods pass?
- 5. How many abortions were? What term of pregnancy did they come in?
- 6. How many artificial abortions were?
- IV. Secretory function.
 - 1. Is any discharge from sexual ways are present?
 - 2. What character of discharge? Their color? Smell?
 - 3. Does the character of discharge during a menstrual cycle change?
 - 4. Did secretory function change during disease ?

Communication skillis:

Hello. call themselves and Genial of conversation expression, gentle tone the Clarify how contact the patient to to contact Correct the survey, especially regarding the intimate details of history taking

Taking of the complaints and history in postpartum woman

I. **Anamnesis** (in translation from Greek - flashback, reminder) is the taking of information about the delivery. A woman is asked in special order:

1. Passport data. The last name, name, patronymic, age, profession, place of work, address.

2. Domestic anamnesis. Heredity: psychical diseases, alcoholism, drug addiction, lacks of development and other diseases which can be inherited or be had unfavorable influence on development of fetus.

3. Carried more early disease. Rachitis, effecting on deformations of pelvis; infectious diseases which can affect sexual development of girl, illnesses of liver, heart, lungs.

4. Menstrual function:

1) age of menarhe (the first menstruation);

2) term of establishment of regular menstrual function;

3) duration of cycle;

4) duration of bleeding;

5) type of menstruation - painfull, recurrence, regularity;

6) blood loss;

7) character of menstruations after the beginning of sexual life, births, abortions;

8) data of the first day of the last menstruation;

5.Secretory function:

1) presence of discharge from sexual ways;

2) quantity, character of the discharge (bloody, festering, mucous, watery).

6. Sexual function:

1) age of beginning of sexual life;

2) what marriage and his duration;

3) health of man (alcoholism, tuberculosis, gonorrhoea, Syphilis);

4) application of contraceptives, duration, efficiency

5) presence of sterility in anamnesis, its duration, methods of medical treatment.

7. Genital function or obstetric anamnesis:

1) quantity of pregnancies;

2) result of every pregnancy: births, abortion, ectopic pregnancy, stillborn, features of motion of pregnancy, births, post-natal period. Result of last pregnancy, complications in labor, fetal weight, height.

3) quantity of living children, their mass at birth, features of development.

8. Gynaecological diseases, operations on the pelvic organs.

9. Duration of the last pregnancy – what term the complications were in, as treated oneself – ambulatory or in permanent establishment, what methods of medical treatment were used.

Physical examination of the patient

ALGORITHM 5

Determination of physiological blood loss

Physiological blood loss – 0.5 % from body weight
 For example: female weight is 50kg. Physiological blood loss for her is 250 ml.
 Female weight is 80kg. Physiological blood loss for her is 400 ml

ALGORITHM 6

Leopolds' maneuvers

Necessary tool	Not needed	
Position of	The pregnant lies on the back. The doctor	
patient	sitting to the right from pregnant.	
Order	<i>The first maneuver</i> . The hands of both hands very tightly are laid horizontally, in the area of uterine fundus. Carefully press on a uterine fundus.	The level of uterine fundus location and part of fetus, located in a fundus, is determined. Gestational age is determined.



The second maneuver. Both hands are placed on the lateral surfaces of uterus at the level of umbilicus. By turns by a right and left hand palpation of fetal parts is performed. Carefully pressing by hands and fingers of hands on the lateral surfaces of uterus, dense, smooth, wide and shiny part is determined from one side - the back of fetus, from opposite – small parts are palpated.

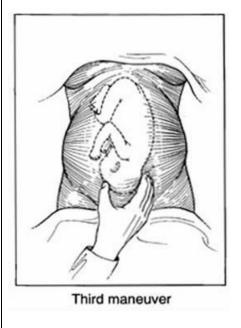


Second maneuver

The third maneuver. By a right hand presented part of fetus is grasped (large finger from one side and four - from the opposite side of lower segment of uterus). The character of presented part and its

Presented part station is determined.

By this maneuver the lie, position,variety, and also uterine tone, quantity of amniotic fluid waters and fetal movement, are determined. station is determined.



Presented part station determined.

is

Fourth maneuver. A doctor is standing towards patient's feet. The hands of both hands are located on the lateral surfaces of lower uterine segment and carefully try to insert the fingers between presented part and pelvic inlet.



ALGORITHM 7

Determination of the expected fetal weight

For determination of the expected weight of fetus (EFW) it is necessary to know the height of standing of uterine fundus (UF) and circumference of abdomen(AC) of pregnant.

Volscov' formula:

 $EFW = UF \times AC$

For example: UF= 32 cm, AC = 100 cm. Multiply: 32x100, we received 3200cm. The expected weight of fetus is 3200 g.

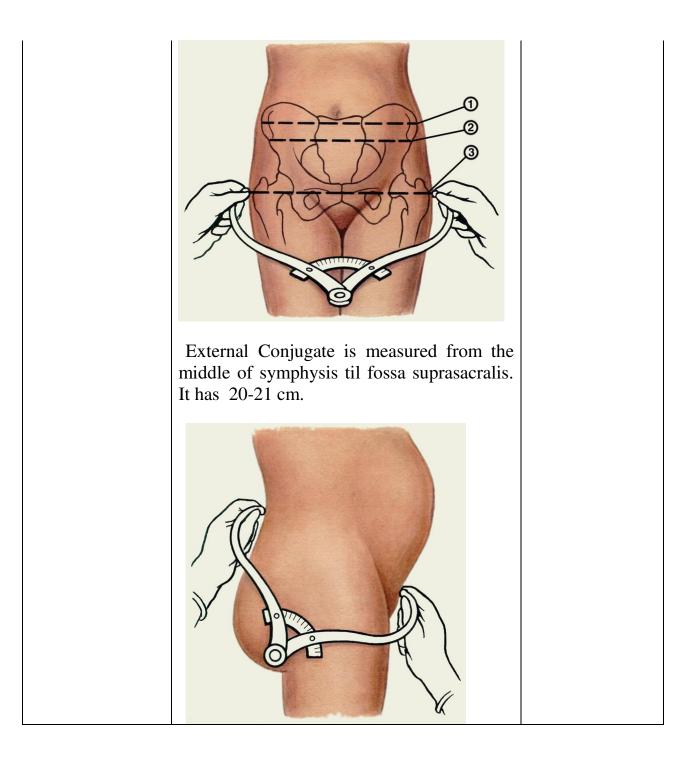
Yacubova' formula: $EFW=(AC+UF): 4 \times 100$

For example: UF= 32 sm, AC = 100 sm. Adding 32+100, we get 132, dividing on 4, we get 33, multiply on 100, we have the expected fetal weight -3300 g.

ALGORITHM 8

Measuring of external sizes of pelvis

Necessary tool	Pelvimeter	
Position of	The pregnant occupies position, lying on a	
patient	bed on the back with extended feet.	
Order	Distantia spinarum (2) - is measured	The formula of
	between liac spines. It has 25-26 cm.	pelvis is written down so:
	Distantia cristarum (1)- is measured	aown so:
	between the prominent points of iliac bones	25-28-31-20cm
	In has 28-29 cm.	
	<i>Distantia trochanterica</i> (3) - is measured between the prominent parts of trochanter major. It has 30-31 cm.	



Measuring of Solovjov Index

Solovjov Index - the average circumference of the radiocarpal joint.

It has 14-16 cm. An index is used for estimation of thickness of pelvic bones.

ALGORITHM 10

Measuring of internal pelvic sizes

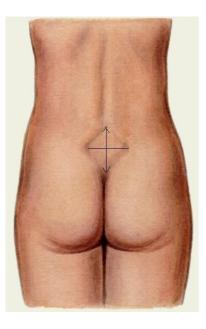
Necessary tool	Pelvicometer, centimeter tape, sterile gloves.	
Position of	The pregnant lies on a gynaecological arm-	
patient	chair.	
Order	1. To perform vaginal research.	The diagonal conjugate can
	2. During research to rich by the middle finger of right hand of sacral promontorium.	be measured only at patients with a
	3. By the index finger of the left hand to mark a point on right, near lower symphysis touches a palm.	wun a contracted pelvis.
	4. To show a right hand out of vagina.	In normal pelvis - doctor
	5. To measure distance from the end of middle finger to the noted point by pelvicometer or centimeter tape.	cannot reach the promontorium of the sacrum
	6. For estimation obstetric conjugate, from the received sizes minus 2 cm. In normal pelvis diagonal conjugate has 12.5-13 cm.	

ALGORITHM 11

Indirect methods of obstetric conjugate determination.

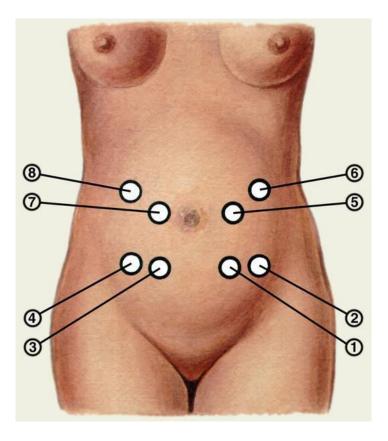
1. From diagonal conjugate minus 1.5 - 2cm. (13cm- 2cm= 11cm)

- 2. From external conjugate minus 9 cm (20 cm 9 cm = 11 cm)
- 3. Vertical distance of Michaels' rhomb. In normal pelvic it has 11cm.



To perform fetal heart rate auscultation according to fetal lie, position and presentation.

Necessary tool	Obstetric stethoscope	
Position of patient	the back with extended feet.	
Order	Stetoscope is located on the place of the most clear feeling of fetal movement on the anterior abdominal wall. One end of watering-can of stetoscope is very tightly pressed on the pregnant's abdomen, the second end of stetoscope a doctor puts to the area of ear. Fetal heart tones are most distinctly listened from the side of the back of fetus, to the left - at the first position, to the right - at the second position, below the umbilicus – at cephalic presentation, above – at breech presentation.	The rate of fetal heart tones is - 120-140per minute. Tones of heart are double, rhythmic, do not correspond with the pulse of pregnant.



According fetal lie, presentation and position the fetal heart rate is auscultated in next points:

- 1 Longitudinal lie, cephalic presentation, left sided anterior
- 2- Longitudinal lie, cephalic presentation, left sided posterior
- **3-** Longitudinal lie, cephalic presentation, right sided anterior
- 4 Longitudinal lie, cephalic presentation, right sided posterior
- 5 Longitudinal lie, breech presentation, left sided anterior
- 6- Longitudinal lie, breech presentation, left sided posterior
- 7- Longitudinal lie, breech presentation, right sided anterior
- 8 Longitudinal lie, breech presentation, right sided posterior

Diagnostic manipulations on phantom

ALGORITHM 13

Perineal protective maneuvers

Necessary tool	Sterile serviette	
Position of	Patient in labor lies on the back on a bed or	
patient	occupies any comfortable for her position	
Order	1. Prevention of preterm fetal head	
	extension.	
	A destan also a the value of the left hand	
	A doctor places the palm of the left hand	
	on symphysis and fingers are located on the	

presented head. During pushing efforts the fingers flexed fetal head.



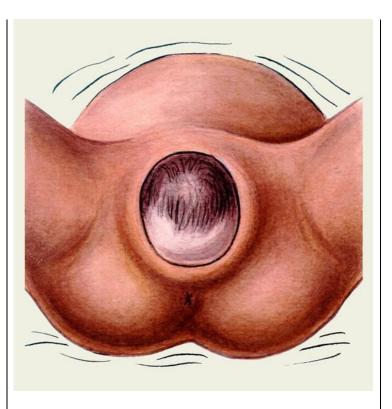
2. The delivery of the fetal head in the pauses of pushing efforts by increasing of vaginal opening. In pauses between pushing efforts the thumb and index fingers of the right hand extend the vulvar muscles. These two moments of obstetric help are performed on duty.

3. Decreasing of perineal tension by borrowing the tissues from the upper parts of the sexual organs to the lover.

During pushing efforts the thumb finger of the right hand from the one side and the four fingers from the other side on the region of sexual organs make the fold from skin to decrease tension on the perineal region.

4. Regulating of pushing efforts.

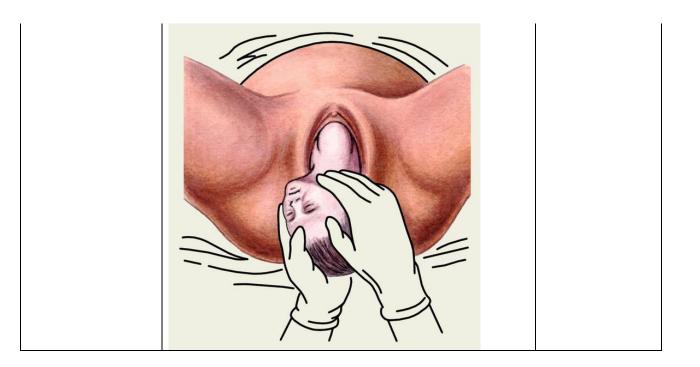
In the moment when the fetal head is delivered to the level of parietal tubes a midwife asks the woman in labor deeply to breathe the opened mouth. Fetal head is delivered in this moment.



After delivery of fetal head sucking of mucus from respiratory tracts is performed.

5. Delivery of the shoulders.

A doctor takes the fetal head for mentotemporal region by the hands of both hands and apply downward supporting of the fetal head till formation of the fixative point between upper part of anterior shoulder and lover symphysis. After – upwards supporting for firstly delivery of posterior shoulder. After – the index fingers of both hands inserted from the side of the back under the arms of fetus and send his trunk up for delivery.



Primary care of new-born

Patient' position	Patient lies on a Rahmanov' bed on the	Note
ration position	back.	NOLE
Necessary tool	Sterile gloves	
Stages of	Technique of conducting of primary	Note
conducting	care of new-born	
1. Reception of	1. A nurse takes a child lays it out on the	The contact of
new-born	mother' abdomen	child with the
		abdomen of
	2. Dries a child by a preliminary warmed-	mother is
	up sterile diaper.	conducted with
		the purpose of
	3. Dresses a little cap and socks on the	contact "skin to
	child.	the skin" and
		creation of
	4. Covers by a dry clean diaper and blanket.	"thermal
		chainlet".
2. Estimation of	In the first minute after birth of	chamiet .
new-born after a	neonatologist, and in the case of his	
	absence an obstetrician estimates new-	
scale Apgar.		
	born after a scale Apgar.	
3. I stage of the	1. To change gloves by sterile.	Treatment of
care of umbilical		umbilical cord
cord	2. Through 1 min after the birth of child to	by antiseptic is
	impose 2 sterile clamps on an umbilical	not conducted.

	cord.	
	3. By sterile scissors to cut an umbilical	
	cord between clamps.	
4. The first	During 30 min after birth is conducted the	
applying to the	first applying of child to the mother'	
breasts.	breasts.	
5. Measuring of	Through 30 min after birth a nurse takes	
temperature	the temperature of child body by an	
	electronic thermometer in an axylary area	
6. Conducting of	At the end of the first hour after conducting	
prophylaxis of	of contact of mother and child "eyes in	
ophthalmia	eyes" a midwife repeatedly change gloves	
	by sterile and conducts the prophylaxis of	
	ophthalmia by the applying the $0,5\%$	
	erythromicyn or a 1% tetracyclin ointment	
	on the child conjunctive.	
7. Contact the	The contact the "skin to the skin" proceeds	
"skin to the skin"	in a maternity hall at least 2 hours on	
	condition of the satisfactory state of mother	
	and child.	
8. The II stage of	1. A child is carried on the warmed table	
umbilical cord	for new-born.	
care		
	2. On an umbilical cord 0,3-0,5 cm from	
	an umbilical ring impose a sterile clips.	
	3. An umbilical cord is opened.	
9. Weighing,	After completion of contact "skin to the	
determination of	skin" nurse weighs a child, growth is	
antropometric	measured, circumference of head, thorax.	
indexes of child.	incustred, encumerence of neud, thorax.	
indexes of child.		
10		
10. Primary	1. Neonatologist, and at his absence the	
medical review	obstetrician conduct a primary medical	
and transferring in	examination.	
a ward.	2. A midwife dresses to the child clean	
	movable indicators, little cap, socks,	
	gloves.	
	3. Cover a child together with mother by a	
	blanket and transferred in the ward of	
	common staying of mother and child.	

Necessary tool	Centimeter' tape
Position c	The pregnant occupies position lying on he
patient	back with extended feet.
Order	1. By a right hand, beginning of centimeter
	tape is fixed to the middle of the symphysis.
	The end is touch in a midline to the uterine
	fundus. The left hand determines the uterine
	height. It is marked on the tape.
	2. The onset of centimeter's tape is taken by
	the left hand, a tape is stretched out under
	the back of pregnant at the level of iliac
	spines, at the level of umbilicus for
	estimation of circumference of the abdomen

Estimation of uterine height and circumference of the abdomen

ALGORITHM 16

Manual placental separation and removal

Necessary tool	Sterile gloves, sterile napkin	
Position of	Woman in labor lies on the back on a bed	The abdomen of
patient		patient is
		covered by a
		sterile napkin
Order	1. By the index and thumb fingers of the left	The back side of
	hand the pudendal cleft is opened.	palm is to be
		turned to the
	2. The right hand is helding in cone enter in a vagina.	sacrums
	3. On an umbilical cord a hand is brought into the cavity of uterus, find the placental edge.	
	4. The left hand in this moment takes place on the uterine fundus and helps right.	
	5. Pulverulent motions of the right hand entered between a placenta and wall of uterus, a placenta is separated from the wall	

of uterus.	
6. Sipping by the left hand for an umbilical cord, placenta is drawn out, a right hand still remains in an uterus.	
7. By a right hand the cavity of uterus is inspected once again, that to make sure in absence of tailings of placenta.	
8. We get a hand out of cavity of uterus.	

Inspection of cervix in Sims' speculum

Position of patient Necessary tool Preparation of patient	The gynaecological inspection is helded on a gynaecological arm-chair. A woman lies on the back with half-bent in knee and heeps. Sims' speculum, sterile gloves To evacuate urinary bladder and rectum, for some indications - necessary to	
Order	perform an evacuant enema. 1. By the thumb and index fingers of	
	the left hand sexual labias are opened.	Рис. 40. Ложкоподібне дзеркало Сілса і підіймач
	right hand and inserted into vagina, turning it firstly in oblique, later in	

direct position to pudendal cleft.

3. To put a speculum on the back wall of vagina and slightly press on it.



4. The retractor is inserted in parallel direction inside the vagina and pressing into anterior vaginal wall.



5. The cervix is inspected.

6. After cervical inspection the speculum and retractor are removed in reverse order: retractor - at first, then speculum.

ALGORITHM 18

Inspection of cervix in Cusco speculum

Position of patient	The gynaecological inspection is	
	performed on a gynaecological arm-chair.	
	A woman lies on the back with half-bent in	

	knee and heeps.	
Necessary tool	Cusco speculum, sterile gloves	рисало Куско
Preparation of	To evacuate a urinary bladder and rectum,	
patient	if it is necessary cleansing enema is made.	
Order	 Sterile gloves are dressed. By the thumb and index fingers of the left hand labias major are opened in the lower third. A speculum is inserted in vagina, placing blades parallel to the pudendal cleft. 	A speculum is fixed by lock in some conditions.
	4. After insertion of the speculum inside it is returned on 90 0, blades are opened so that vaginal part of cervix was found between blades.	

5. After the cervical inspection b	blades	
are removed from vagina.		

ALGORITHM 19 Taking smears for cytological examination

Position of	A woman lies on a gynaecological arm-chair on	
patient	the back with half-bent in knee and heeps.	
Necessary tool	Cusco or Sims speculum, Folchman' spool, spatula Eyra or cervix brush for taking smears, pincers, wadding marble, subject slide, sterile gloves.	alle a
Preparation of patient	 A patient is present on gynaecological arm-chair. To insert a gynaecological speculum into a vagina, to examine a speculum. 	
Order	1. The material for research is taken from the anterior lateral vault making a scrub. To put the material on the slide.	Carefully by the wadding marble clutched in
	Vagina () () () () () () () () () ()	pincers, tailings of mucus are taken off from the cervix.
	2. By other instrument (the best – by a brush) the material is taken from cervicolumnar junction – tranzition zone. For this purpose a brush is rotated into the channel of cervix on 360°. The received material is putted on subject slide, revolving a brush.	
	3. If on the cervix there are some changes, a smear is taken also from the pathologically changed areas exposed during colposcopy.	
	5. A speculum is removed.	

|--|

Taking of smears from a vagina for bacteriological examination

Position of	A woman lies on the back with half-bent in	
patient	knee and heeps.	
Necessary tool	Cusco or Sims' speculum, Folcman' spoon,	
	Eyra' spatula or cervixbrush for taking	
	smears, pincers, wadding marble, subject	
	slide, sterile gloves.	
Preparation of	1. The patient is presented in	
patient	gynaecological arm-chair.	
	2. To insert a gynaecological speculum into	
	a vagina, to examine the cervix in speculum.	
Order	1.A smear is taken from a posterior fornix,	
	cervical channel and urinary orifice by a	
	vaginal gynaecological spatula, uterine	
	sound or cervixbrush. To put the scrub and	
	to put the material on slide.	
	2. A speculum is removed.	
	-	
	3. The surname of the women is written in	
	the special list, the material is sent to the	
	histological laboratory.	

ALGORITHM 21

Taking of smear for gonorrhoea

Position of	A woman lies on the back with half-bent in	
patient	knee and heeps.	
Necessary tool	Cusco or Sims' speculum, Folcman' spoon,	
	Eyra' spatula or cervixbrush for taking	
	smears, pincers, wadding marble, subject	
	slide, sterile gloves.	
Preparation of	1. The patient is presented in	
patient	gynaecological arm-chair.	
	2. To insert a gynaecological speculum into	
	a vagina, to examine the cervix in speculum	

Order	1. A smear is taken from a posterior fornix, cervical channel and urinary orifice by a vaginal gynaecological spatula, uterine sound or cervixbrush. To put the scrub and to put the material on slide.
	2. A speculum is removed.
	3. The surname of the women is written in the special list, the material is sent to the histological laboratory.

Bimanual (pelvic) examination

Position of patient	A woman lies on the back with half-bent	
NT	in knee and heeps.	
Necessary tool	Sterile gloves	
Preparation of	1. The patient is present in gynaecological	
patient	arm-chair (before research urinary bladder	
	and rectum are evacuated).	
Order	1 With thumb and index fingers of the left	If a woman is
	hand labia major are spreded.	nor delivere,
		and vagina is
		narrow, at
		research a mid
		finger is entered
		at first, the back
		wall of vagina is
		pushed back,
		then an index
		finger is entered.
	2. The middle and index fingers of the right	
	hand are inserted into vagina, nameless and	
	little finger are pressed to palm, and thumb	
	finger is facing the pubis.	
	3. Fingers are placed into anterior fornix,	
	the cervix is pushed backwards.	
	4. By an external hand carefully press on a	

anterior abdominal wall in direction to the fingers, which are located in vagina. If the uterus is placed in position of anteversioanteflexio, it will be found between the fingers of external and internal hands.



5. The fingers of internal and external hands are located to the right from an uterus. Right adnexa are examined.

6. The fingers of internal and external hands are located to the left of uterus. The left adnexa are examined.

7. The fingers of right hand are removed from vagina.