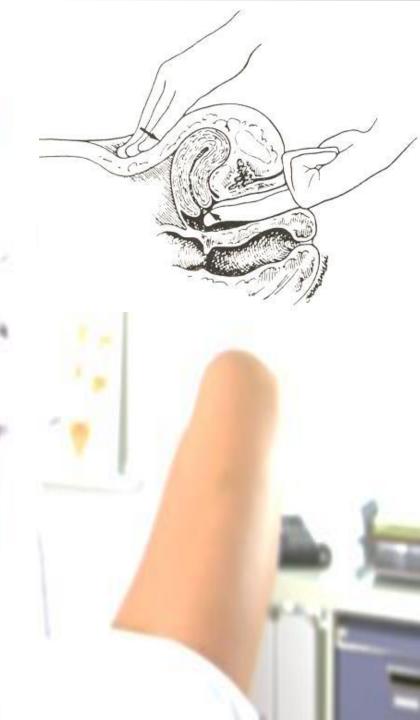
JSC "Astana Medical University" Obstetrics and gynecology department



Content

- Anamnesis
- -the main aspects
- -the common cases
- Gynecological examination
- -examination of external genital organs
- -bimanual vaginal-abdominal examination
- -rectal and vaginal-rectal examination
 - Instrumental Research Methods
 - Tissue biopsy and cytology
- Special examination methods
- -laboratory diagnostics of pathogens



Anamnesis

- age;
- complaints
- family history;
- lifestyle, nutrition, bad habits, working and living conditions;
- past illnesses;
- menstrual and reproductive functions, the character of contraception;
- gynecological diseases and operations on the genitals;
- the history of the present disease.
- physical examination

Anamnesis | the common cases

- Amenorrhea absence of menstruation;
- **Hypomencastral syndrome** is expressed in reduction (hypomenorrhoea), shortening (oligomenorrhea), and decreasing (opsonomena) of menstruation.
- Menorrhagia bleeding associated with the menstrual cycle.
- Metrorrhagia is an acyclic uterine bleeding that is not associated with the menstrual cycle and usually occurs with various ovarian disorders due to disturbances in ovulation processes.
- Menometrorrhagia bleeding in the form of profuse menstruation, continuing in the intermenstrual period.
- Algodismenorea painful menstruation.

Gynecological examination

*is carried out on the gynecological chair.

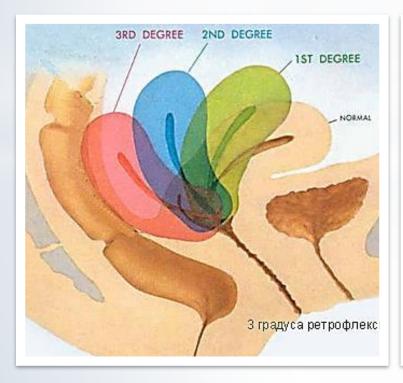
In a healthy, mature, nonpregnant and unkempt woman, the vertical position of the genitalia is considered normal (typical).

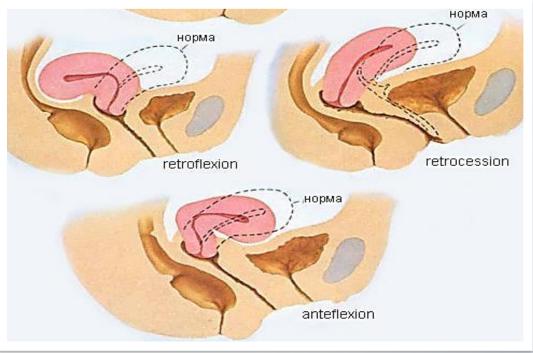


Gynecological examination

The normal position of female genital organs is provided by:

- own tone of genital organs;
- the relationship between internal bodies and the activity of the diaphragm, abdominal wall and pelvic floor;
- ligamentous apparatus of the uterus (suspension, fixation and holding).





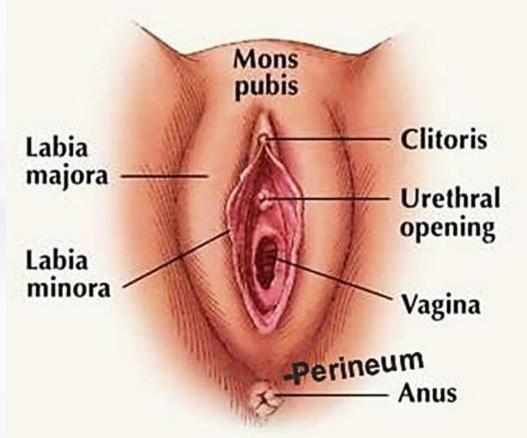
Source: Pract Midwife. 2015 Sep; 18(8):27-9. Introducing educational theory: vaginal examination. Killingley J.

Examination of external genitalia

Examination of external genitalia: the condition and magnitude of small and

Examination of external genitalia: the condition and magnitude of small and greater the labia; condition of the mucous membranes; the size of the clitoris; degree and nature of development of the hairline; a condition of a perineum; pathological.

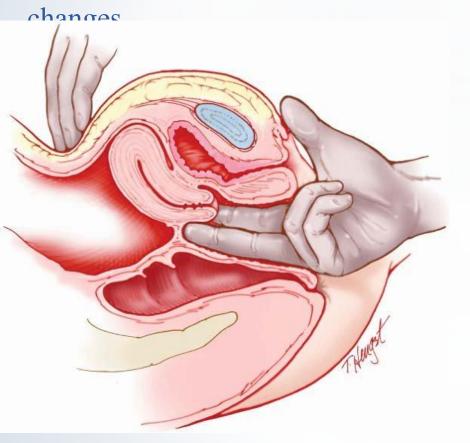
Pay attention also to the gaping of the genitals;

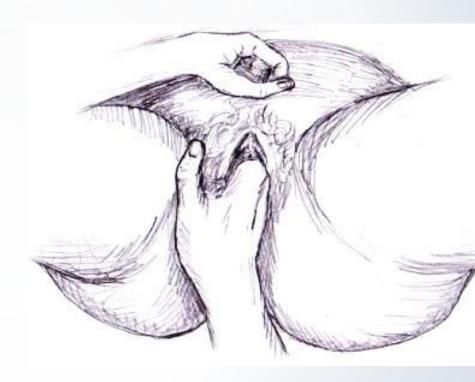


Source: Pract Midwife. 2015 Sep;18(8):27-9. Introducing educational theory: vaginal examination. Killingley J.

Bimanual vaginal-abdominal examination

The index and middle fingers of one hand (usually right), dressed in a glove, are inserted into the vagina. The other arm (usually the left one) is placed on the anterior abdominal wall. The right hand palpates the walls of the vagina, its arches and cervix, determine the volume of formation and anatomical

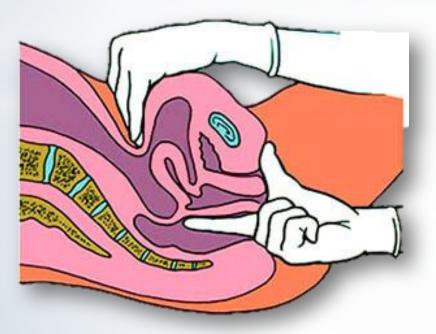




Rectal and vaginal-rectal examination

- is mandatory in postmenopause
- to clarify the status of the uterine appendages
- should be given to all women over 40

• the tone of the sphincters of the anus and the state of the ic floor muscles volumetric formations



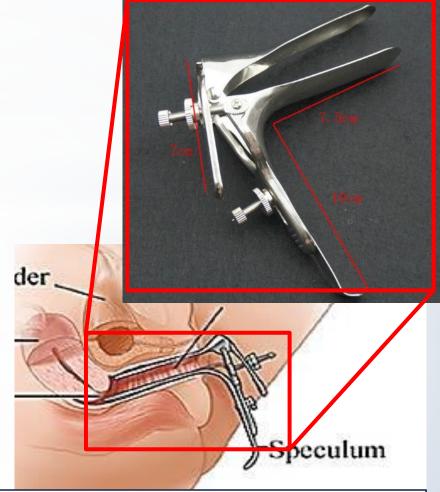


Instrumental examination methods

!!!To women, leading sex life.

Timely recognition of diseases of the cervix, erosions, polyps and other pathology is possible by mirrors.

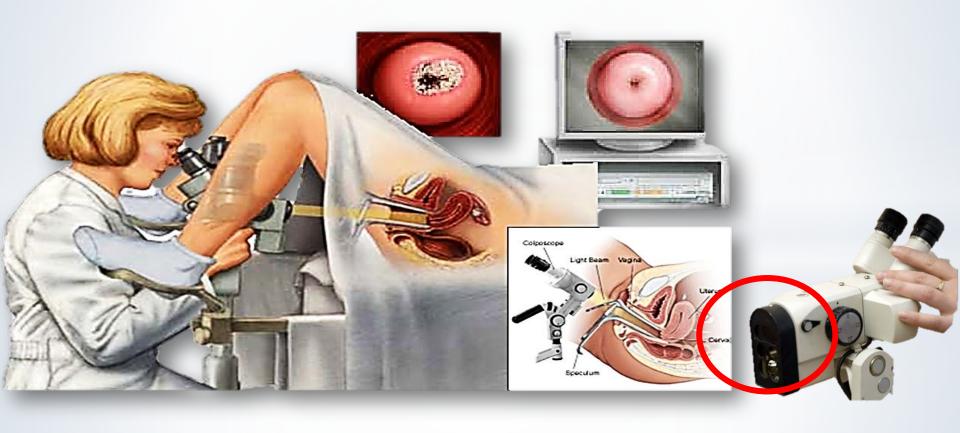




Source: Gynecology, 4th edition, 2012, Savelieva G.M., Breusenko V.G., page 14

Endoscopic methods.

Colposcopy - examination of the vaginal part of the cervix with an increase in dozens of times with the help of a colposcope; can be simple (review colposcopy) and extended (using additional tests and dyes).



Source: American Cancer Society, American Society for Colposcopy and Cervical Pathology, and American Society for Clinical Pathology screening guidelines for the prevention and early detection of cervical cancer, Debbie Saslow PhD, Diane Solomon, MD, Herschel W. Lawson MD, Maureen Killackey MD, Shalini L. Kulasingam PhD, Joanna Cain MD, Francisco A. R. Garcia MD, MPH, Ann T. Moriarty MD, Alan G. Waxman MD, MPH, David C. Wilbur MD, Nicolas Wentzensen MD, PhD, MS, Levi S. Downs MD Jr, Mark Spitzer MD, Anna-Barbara Moscicki MD, Eduardo L. Franco DrPH, Mark H. Stoler MD, Mark Schiffman MD, Philip E. Castle PhD, MPH, Eva R., Myers MD, MPH, ACS-ASCCP-ASCP Cervical Cancer Guideline Committee.

Colposcopic microscopy

examination of the vaginal part of the cervix with an optical system (contrast luminescent colpomicroscope or colpomicroscope Hamo - type of hysteroscope).

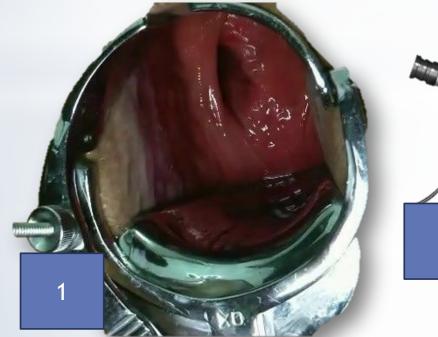


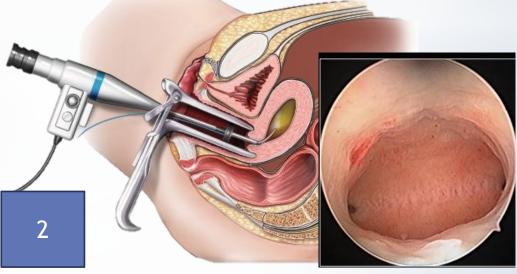
Source: Gynecology, 4th edition, 2012, Savelieva G.M., Breusenko V.G., page 22

Hysterocervical examination and Hysteroscopy

Hysterocervicaloscopy - examination with the help of optical systems of the internal surface of the uterus and the cervical canal.

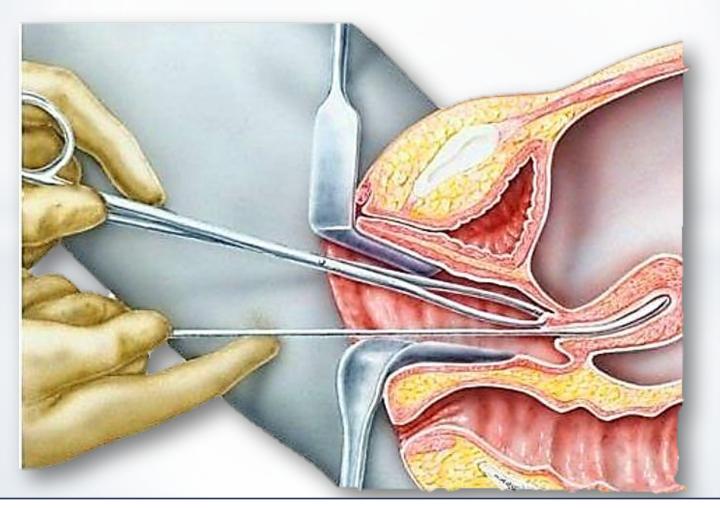
Hysteroscopy can be diagnostic and operating. Diagnostic hysteroscopy is currently the optimal method of diagnosing all types of intrauterine pathology.





Probing the uterus

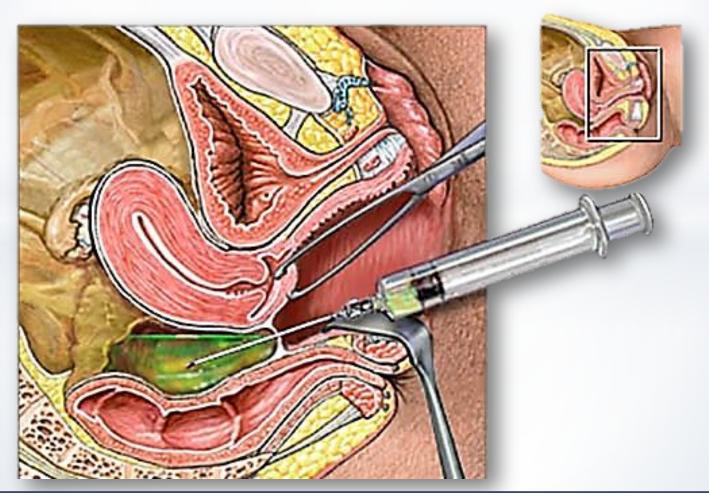
an invasive diagnostic method used to establish position and direction of the uterine cavity, its length



Source: Gynecology, 4th edition, 2012, Savelieva G.M., Breusenko V.G., page 30

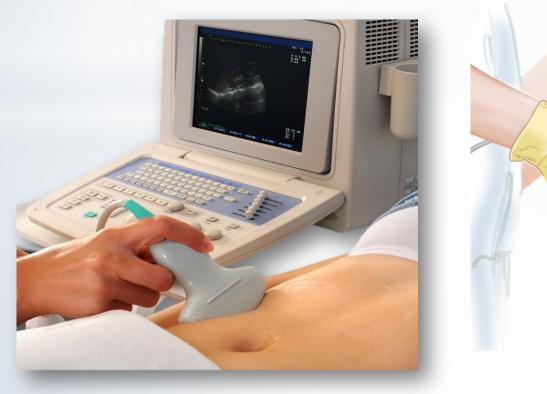
Puncture of abdominal cavity through posterior vaginal arch.

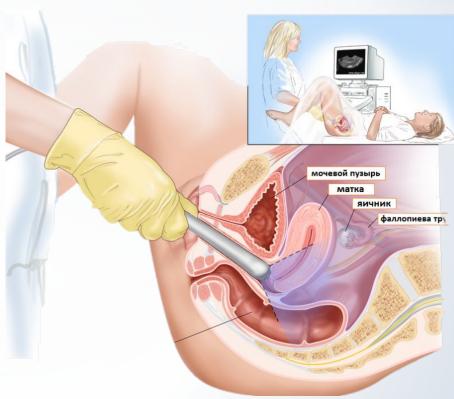
This puncture is performed when it is necessary to ascertain the presence or lack of free fluid (blood, pus) in the cavity of the small pelvis



Ultrasound

The ultrasound technique assumes an assessment of the location of the uterus, its size, outer contour and internal structure. The size of the uterus is subject to individual and is determined by a number of factors (age, number of previous pregnancies, phase of the menstrual cycle). The size of the uterus is determined by longitudinal scanning (length and thickness), the width is measured with transverse scanning.





X-ray methods of research

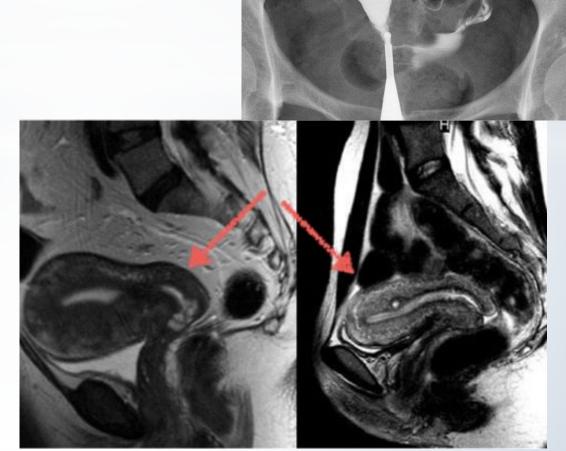
Hysterosalpingography (at present - rarely)

X-ray examination of the skull

Computed tomography (CT)

Magnetic resonance imaging (MRI)



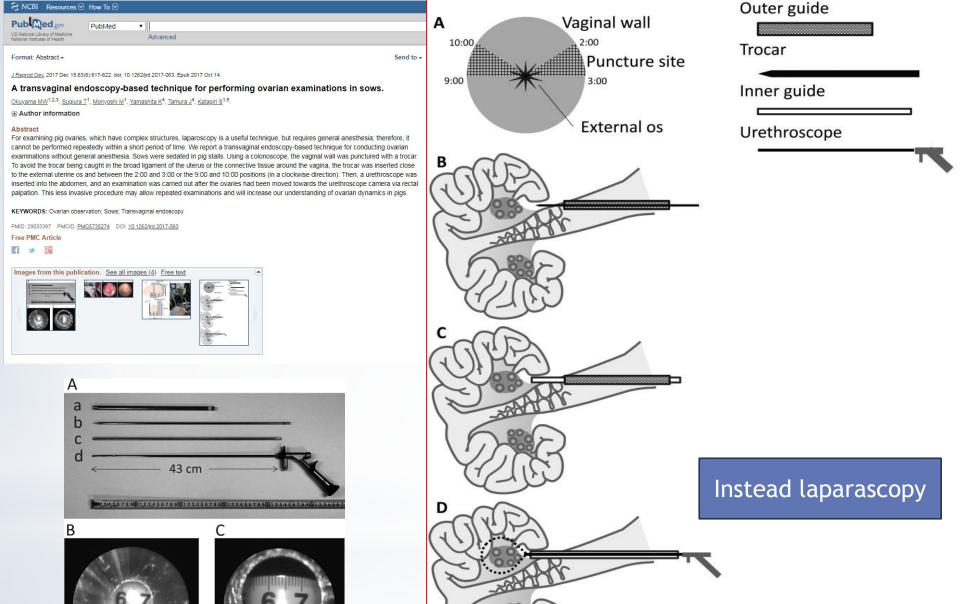


Laparoscopy

- examination of the abdominal cavity organs by an endoscope inserted through the anterior abdominal wall while creating the pneumoperitoneum in the background.



Source: Laparoscopy in Gynecology SIEGLER ALVIN M. MD FACOG; BERENYI, KALMAN J. MD, Obstetrics & Gynecology: October 1969.



Tissue biopsy and cytology

In gynecology used **excisional biopsy** (excision of a piece of tissue), **targeted biopsy** - under the visual control of an enlarged colposcopy or hysteroscope and a puncture biopsy.

Cytological examination is a screening method for conducting mass preventive examinations of women, in groups at increased risk for the development of cancer.

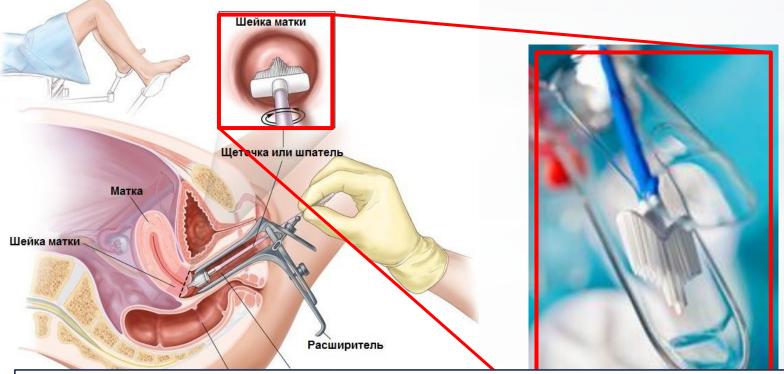


Source: [Optical biopsy in gynecology]. Deligdisch L, Bulletin de L'Academie Nationale de Medecine, [01 Mar 2011, 195(3):605-11; discussion 611-2]

Cervical brush



The brush together with the dilator Cusco is injected into the vagina. The brush is brought to the neck, twisted, and evacuated from the vagina. Then a bacterioscopic or bacteriological study is performed.

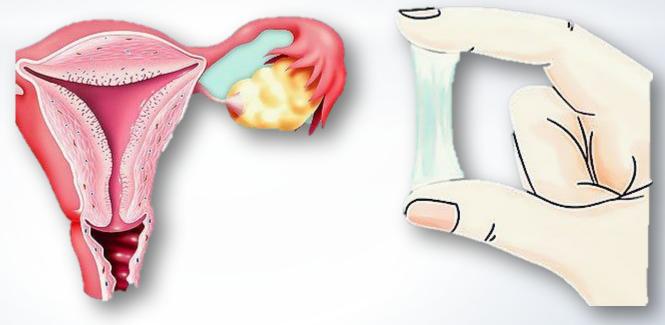


Source: The efficiency of the Cytobrush versus the cotton swab in the collection of endocervical cells in cervical smears. (PMID:3521175), Trimbos JB, Arentz NP, Acta Cytologica, [01 May 1986, 30(3):261-263]

Special examination methods



- The symptom of "pupil"
- The symptom of the extension of the cervical mucus
- KPI
- Basal temperature



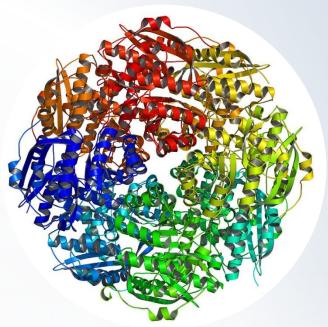
Bacteria

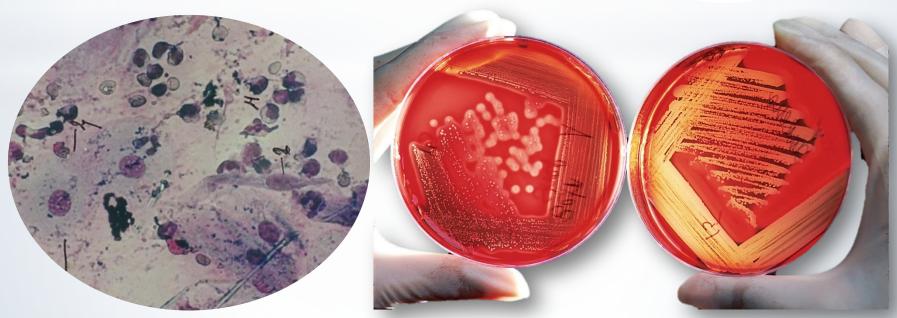
Bactrioscopic (microscopic)

The cultural method

Molecular biological methods

Bacteriological diagnosis





Source: The vaginal microbiome: new information about genital tract flora using molecular based techniques, RF Lamont, JD Sobel, RA Akins, SS Hassan, Chaiworapongsa, JP Kusanovic, R Romero.



Format: Abstract ▼ Send to ▼

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Evaluation of Serum Nidogen-2 as a Screening and Diagnostic Tool for Ovarian Cancer.

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Abstract

INTRODUCTION: Ovarian cancer is a relatively common occurrence with the formation of a tumour in the ovaries and is the leading cause of death in the gynecological field. Despite enormous efforts, there are no successful screening methods developed until now to decrease mortality in this regard.

AIM: To evaluate nidogen-2 as a new tumour marker combined with higher sensitivity, specificity and accuracy than carbohydrate antigen (CA-125) and Doppler ultrasound to improve early diagnosis of ovarian cancer.

PATIENTS AND METHODS: One hundred and forty-four qualified women with a preliminary diagnosis of adnexal mass were subjected to history, examination, transvaginal Doppler ultrasound and Quantitative assessment of serum level of CA-125 and nidogen-2 followed by the resection of the masses, which were sent for histopathological examination.

RESULTS: One-hundred and sixteen cases were benign and 28 cases were malignant. The surgical procedures ranged from limited resection to radical hysterectomy. There was a highly significant correlation between both serum nidogen-2 and CA-125 and the results of histopathological examination (p = 0.0001). Serum nidogen-2 had 91.6% sensitivity, 62% specificity, 37.1% positive predictive value, 97.9% negative predictive value and 68% accuracy (p < 0.05).

CONCLUSION: Nidogen-2 is a new promising ovarian malignancy biomarker that correlates closely with ultrasound and CA125. It did improve the accuracy of diagnosis, but further studies are needed.

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KEYWORDS: Diagnosis; Nidogen-2; Ovarian cancer; Tumour marker



1	1	2	3
2	1	2	3
3	1	2	3



Thank you for attention!

BE PASSIONATE!