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Study of clinical and morphological features of different forms of endometrioid disease

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ABSTRACT

The frequency of occurrence and morphological forms of the endometrioid disease in 148 women of reproductive age were studied at the Bukhara pathoanatomical bureau sent from the republican emergency center to the department gynecology of the Bukhara branch. The material for the study was operating materials. Histological preparations were examined under a light microscope, and the critical areas were photographed.

Morphometric studies of adenomyosis and endometriosis tissue were studied under a Leyka microscope using Avtandilov's grid, the ratio of parenchyma and glandular components. According to the study results, the following changes were identified: histologically, both in the myometrium and in the ovaries, endometrioid foci were determined, which penetrated to different depths. The lesions had two components: stromal and glandular structures. The ratio of these components varied depending on the type of these nodes.

An endometrioid ovarian cyst was found in 49 patients, retrocervical endometriosis in 24 women, uterine adenomyosis in 15, and a combination of various localization of endometrioid lesions in 60 patients.

Thus, analysis of the results of morphological studies of micro preparations of different histological variants of endometrioid disease demonstrates a significant degree of uneven distribution of tissue components and structures in different observation cases. Various forms of adenomyosis and endometriosis must be considered when choosing rational tactics for managing patients in the postoperative period to prevent relapse. Endometriosis of the uterus and ovary is characterized by a long asymptomatic or oligosymptomatic course followed by the rapid development of the clinical picture and the appearance of indications for surgical treatment. In this case, the main indications are pain syndrome

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(100%) combined with hypermenstrual syndrome (55.7%), accompanied by rapid growth in every second patient, and anemia in every third patient.

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Эндометриоид касаллигининг турли хил шаклларининг клиник ва морфологик хусусиятларини ўрганиш

АННОТАЦИЯ

Калит сўзлар: эндометриоз пайдо бўлиш частотаси, бачадон эндометриози, аденомиоз, клиник ва морфологик вариантлар, репродуктив ёш.

Республика шошилинч гинекология бўлимининг Бухоро филиалидан патологик анатомия бюросига эндометриоид касаллиги билан касалланган 148 та репродуктив ёшдаги аёлларнинг юборилган операцион материаллари ўрганилди. Тадқиқот учун биопсия материаллари олинган. Гистологик препаратлар ёруғлик микроскопида текширилиб керакли жойлар расмга олинди.

Аденомиоз ва эндометриозда тўкиманинг морфометрик хусусиятлари Leyka микроскопида Автандилов сеткасидан фойдаланилган холда. паренхима строма ўрганилди. элементларининг нисбати Тадкикот натижаларига кўра қуйидаги ўзгаришлар аниқланди: гистологик жихатдан хам миометрийга, хам эндометрийга турли чукурликда кириб борган эндометриоид ўчоклар аниқланди. Ўчоқлар иккита таркибий қисмга: яьни стромал ва безли тузилишга эга. Эндометриознинг турига қараб ушбу компонентнинг таркибий қисми ўзгариб турарди. Касалларнинг 49 тасида эндометриоид тухумдон кистаси, 24 аёлда ретроцервикал эндометриоз, 15 тасида бачадон аденомиози ва 60 беморда эса эндометриоид тугунларнинг турли комбинацияси аникланди.

Шундай қилиб, эндометриоид касаллигининг турли хил гистологик вариантларини морфологик тахлил килиш натижалари турли кузатув холатларида тўкима таркибий қисмлари ва тузилмаларнинг нотекис тақсимланганлигини кўрсатди. Операциядан кейинги даврда асоратларни олдини олишда аденомиоз ва эндометриозни турли мавжудлигини беморларни бошкаришда шаклларини оқилона тактикани танлашни тақозо этади. Бачадон ва тухумдоннинг эндометриози узоқ вакт симптомсиз ва кам симптомлар билан кечиб, сўнгра тез ривожланадиган ва жаррохлик амалиёти учун кўрсатма пайдо қиладиган патология эканлиги аникланди. Бунда беморларда асосий кўрсаткичлар (100%) холатларда оғрик синдроми, (55,7%) гиперменструал, холатларда хар иккита беморда тугунларнинг тез ўсиши ва хар учинчи беморда камқонлик белгилари билан намоён бўлди.



Изучение клинико-морфологических особенностей различных форм эндометриоидной болезни

Ключевые слова:

частота возникновения эндометриоза, ндометриоз яичников, аденомиоз, клиникоморфологические варианты, репродуктивный возраст.

RNJATOHHA

Изучены частота встречаемости и морфологические формы эндометриоидной болезни y 148 женщин репродуктивного возраста Бухарском В патологоанатомическом бюро направленное республиканского экстренного неотложного центра отделении гинекологии Бухарского филиала. Материалом для исследования служили взятые биопсии. Гистологические препараты изучали световым микроскопом и фотографировали необходимые участки.

Морфометрические исследования ткани аденомиоза и эндометриоза изучали под микроскопом Leyka с помощью сетки Автандилова соотношение паренхимы и железистых компонентов. По результатам исследования были выделены следующие изменения: гистологически, как в миометрии так и в яичниках, определили эндометриоидные очаги, которые проникли на различную глубину. Очаги имели в себе два компонента: стромальные и железистые структуры. Соотношение этих компонентов варьировали в зависимости от вида этих узлов.

У 49 больных обнаружено эндометриоидная киста яичника, у 24 женщин ретроцервикальный эндометриоз, у 15 аденомиоз матки, а у 60 больных сочетание различных локализации эндометриоидных поражений.

Таким образом, анализ результатов морфологических исследований микропрепаратов разных гистологических эндометриоидной болезни демонстрирует значительную степень неравномерностям распределения тканевых компонентов и структур в разных случаях наблюдения. Существование различных форм аденомиоза и эндометриоза необходимо учитывать при рациональной тактики ведения пациенток послеоперационном периоде для профилактики рецидивов. Для эндометриоза матки и яичника, характерно длительное бессимптомное или малосимптомное последующим быстрым развитием клинической картины и появлением показаний для хирургического лечения. При этом основными показаниями являются: болевой синдром (100%) в сочетании с гиперменструальным синдромом (55.7%), сопровождающиеся у каждой второй пациентки быстрым ростом, у каждой третьей – анемией.

THE AIM OF THE RESEARCH

Conduct a clinical and morphological analysis of ovarian endometriosis and adenomyosis, taking into account its various variants and morphofunctional forms.



MATERIALS AND METHODS

The morphological forms of adenomyosis and endometriosis of the ovaries were studied in 148 women of reproductive age in the Bukhara Patho-anatomical bureau sent from the Republican Emergency Center to the Department of Gynecology of the Bukhara branch. The material for the study was operating materials. For general morphology, 3 pieces were excised from each endometrioid node that was, 1.5×1.5 cm from the center, middle and peripheral parts, and solidified in 10% neutral formalin. After washing for 2–4 h in running water, it was dehydrated in concentrated alcohol and chloroform, then embedded in paraffin and prepared blocks. On paraffin blocks, sections of 5-8 μ m were cut, stained with hematoxylin and eosin. Semi-thin 1 μ m sections were obtained from Epon bricks on a Leyka ultramicrotomy. Histological preparations were examined under 10, 20, 40 lenses of a light microscope and the necessary areas were photographed.

RESULTS AND DISCUSSION

Surgery materials of 148 female patients of reproductive age without other gynecological diseases with various localizations of genital endometriosis, removed during surgical operations, were examined. The average age of patients was 36.8 ± 0.74 years. 40% of patients were under the age of 35; 41% - from 36 to 45 years old; 22.2% - over 46 years old. Women were hospitalized on an emergency basis. Upon admission to the clinic, the examined women indicated complaints related to various manifestations of pain syndrome and menstrual irregularities. Periodic pain was indicated by 52.6% of patients, severe pain during the menstrual cycle was in 21.4% of patients, and pain before the menstrual cycle was noted by 5.7% of women. Indications for surgical treatment were: ovarian cystoma, uterine adenomyosis, a combination of adenomyosis with uterine myoma and menstrual irregularities by the type of hyperpolymenorrhea. Scope of surgical interventions - supravaginal amputation of the uterus without or with appendages, extirpation of the uterus without or with appendages and removal of endometriotic ovarian cysts. The removed preparations were carefully examined; the sizes of the uterus, the thickness of the endometrium and ovaries, and the thickness of the endometrium and ovaries were measured. The presence of macroscopically visible pathological areas was determined. In macroscopic examination, the uterus was enlarged in all cases. This is associated with both the growth of uterine fibroids and the shape and activity of foci of adenomyosis. In focal adenomyosis, thickening of one or several walls of the uterus was observed, in diffuse, the myometrium was thickened throughout. The nodular variant did not have a capsule, with indistinct boundaries of intramural nodules of various sizes. The incidence of different forms of endometriosis was also studied.

Table 1. The incidence of different forms of endometriosis

Forms	Number of women
Endometrioid ovarian cyst	49(68 %)
Retrocervical endometriosis	24(24%)
Adenomyosis of the uterus	15(26%)
Combination of different localization of	60(74%)
endometriotic lesions	



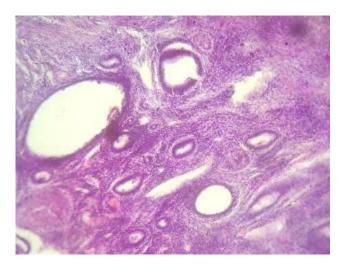


Fig. № 1. Glandular structures of various shapes, sizes from small with a narrow lumen to larger ones, endometrial hyperplasia and dilated venules. Staining with hematoxylin and eosin. 10x10.

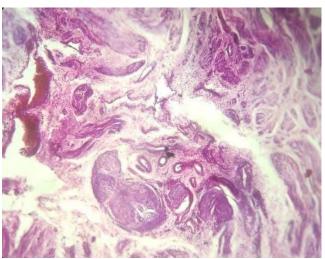


Fig. № 2. Penetration of the basal layer of the endometrium into the myometrium. Staining with hematoxylin and eosin. 10x10.

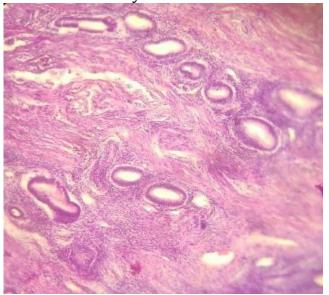


Fig № 3. Adenomyosis of the uterus, endometrial glands with the surrounding cytogenetic stroma is located in the myometrium. Staining with hematoxylin and eosin. 10x10.

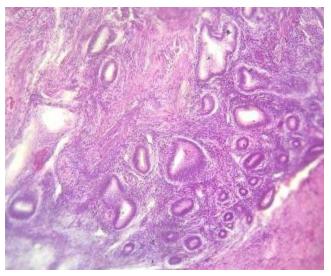


Fig. № 4. Adenomyosis of the uterus, cystic altered glands of the endometrial type with the surrounding cytogenetic stroma located in the myometrium. Stained with hematoxylin and eosin. 10x10.

Histologically, both in the myometrium and in the ovaries, endometrioid foci were determined, which penetrated to different depths. The lesions had two components, both stromal and glandular structures: the ratio of these components varied depending on the types of these nodes. In active adenomyosis, the glandular component was $33.4 \pm 17.4\%$, the share of the stromal was -66.5 \pm 16.4 %, not significantly differing from inactive focithe proportion of the glandular component and the stromal, respectively (36.5 \pm 11.4% and 63.4 \pm 11.4% at p = 0.14 and 0.32).

Thus, the results of morphological studies had shown that endometriosis in women was one of the most common pathologies. The existence of various forms of ovarian



endometriosis and adenomyosis should be taken into account when choosing a rational tactics for managing patients in the postoperative period to prevent relapse.

CONCLUSION

In patients with endometriosis against the background of inflammatory processes, the syndrome of chronic pelvic pain, various mono and multiple organ pathologies was most often observed. Endometriosis of the uterus and ovary was characterized by a long-term asymptomatic or low-symptom course, followed by a rapid development of the clinical picture and the appearance of indications for surgical treatment. In this case, the main indications were: pain syndrome (100%) in combination with hyper menstrual syndrome (55.7%), accompanied by every second patient grows rapidly, every third had anemia.

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