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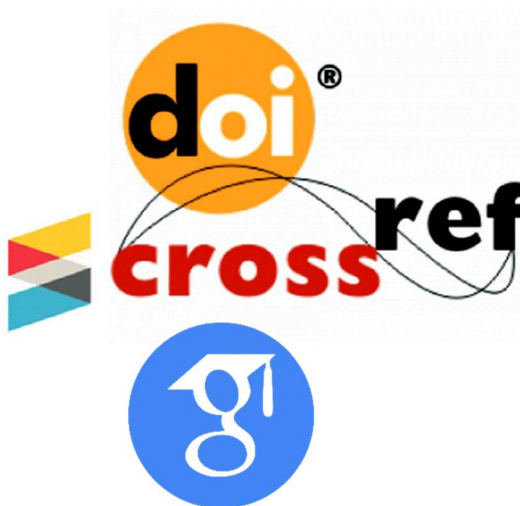
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PhD, Доцент Тошкент Давлат тиббиёт университети
Чирчиқ филиали, **ORCID ID:** 0009-0009-3959-9878

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тиббиёт фанлар доктори,
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ORCID ID: 0000-0002-6616-5428

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педиатрия тиббиёт институти Факультет болалар
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№2-сон Педиатрия, неонатология ва болалар
касаликлари пропедевтикаси кафедраси доценти.
ORCID ID: 0000-0003-2442-1523

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ORCID ID: 0000-0002-6142-7054

Ответственный за публикацию:

Шаханова Шахноза Шавкатовна
DSc, доцент кафедры онкологии Самаркандского
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хирургии Самаркандского государственного медицинского
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ORCID ID: 0000-0002-9313-4918

Очилов Улугбек Усманович
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<https://orcid.org/0000-0003-3553-8727>

Шавази Наргиз Нуралиевна
DSc, доцент, заведующая кафедрой
акушерства и гинекологии N 3 СамГМУ.
<https://orcid.org/0000-0001-7859-9955>

Юлдашев Равшан Захидович
Заведующий кафедрой Онкологии и лучевой
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<https://orcid.org/0009-0002-7165-5373>

Алимов Жалолиддин Усмои угли
PhD, Доцент Чирчикского филиала Ташкентского
Государственного медицинского университета, ORCID
ID: 0009-0009-3959-9878

Саидов Садаммир Абборович
доктор медицинских наук, Ташкентский
фармацевтический институт
ORCID ID: 0000-0002-6616-5428

Бабаджанов Ойбек Абдужаббарович
доктор медицинских наук, Ташкентский государственный
медицинский университет, доцент кафедры
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ORCID ID: 0000-0002-3022-916X

Теребаев Билим Алдамуратович
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ORCID ID: 0000-0002-5409-4327

Юлдашев Ботир Ахматович
доктор медицинских наук, доцент кафедры Педиатрии,
неонатологии и перинатологии детских болезней №2
Самаркандского государственного медицинского университета
ORCID ID: 0000-0003-2442-1523

Ибрагимова Малика Худайбергеновна
доктор медицинских наук, профессор
Ташкентский государственный
медицинский университет
ORCID ID: 0000-0002-9235-1742

Рахимов Нодир Махамматкулович
доктор медицинских наук, профессор кафедры
онкологии Самаркандского государственного
медицинского университета
ORCID ID: 0000-0001-5272-5503

Даминов Феруз Асадуллаевич
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Ташкентский государственный медицинский университет.
ORCID: 0009-0004-7661-9253.

Сайфутдинов Зайниддин Асамутдинович
PHD, Республиканский специализированный научно-
практический медицинский центр педиатрии ORCID ID: 0009-
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Samieva Gulnoza Utkurovna
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ORCID ID: 0000-0002-0615-0144

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ORCID ID: 0000-0003-2650-4445

Magzumova Nargiza Makhamovna

Doctor of Medical Sciences, Professor, Department
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Medical University. **ORCID ID:** 0000-0002-9313-4918

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DSc, Docent, Head of the Psychiatry Course at the Faculty of
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<https://orcid.org/0000-0001-7859-9955>

Yuldashev Ravshan Zakhidovich

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PhD, Associate Professor at Chirchik Branch of Tashkent State
Medical University, **ORCID ID:** 0009-0009-3959-9878

Saidov Saidamir

Doctor of Medical Sciences,
Tashkent Pharmaceutical Institute,
ORCID ID: 0000-0002-6616-5428

Babadjanov Oybek Abdurjabbarovich

Doctor of sciences in medicine, Tashkent State
Medical University, Docent the Department of
Dermatovenerology, pediatric dermatovenerology
and AIDS, **ORCID ID:** 0000-0002-3022-916X

Terebaev Bilim Aldamuratovich

Doctor of Medical Sciences, Associate Professor,
Tashkent Pediatric Medical Institute,
Faculty of Children Department of Surgery.
ORCID ID: 0000-0002-5409-4327.

Yuldashev Botir Akhmatovich

Doctor of Medical Sciences, Associate Professor of
Pediatrics, Neonatology and Propaedeutics of Pediatrics,
Samarkand State Medical University No. 2.
ORCID ID: 0000-0003-2442-1523

Ibragimova Malika Xudayberganovna

Doctor of Medical Sciences, Professor,
Tashkent State Medical University
ORCID ID: 0000-0002-9235-1742

Rahimov Nodir Maxammatkulovich

DSc, Professor of Oncology,
Samarkand State Medical University
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Professor. Tashkent, Uzbekistan
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Tagaev Sher Kabul Baykabulovich

Doctor of Medical Sciences, Associate Professor
of Surgery Department, Tashkent State Medical University
ORCID: 0009-0004-7661-9253.

Sayfutdinov Zayniddin Asamutdinovich

PHD, Republican Specialized Scientific and Practical Medical
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БИОМЕДИЦИНА ВА АМАЛИЁТ ЖУРНАЛИ

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REYMNAZAROVA Gulsara DjamalovnaPhD Associate , professor
Tashkent State Medical University

MORPHOMETRIC FEATURES OF THE CERVIX WITH BENIGN LESIONS AND EROSION IN THE PREMENOPAUSAL PERIOD

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ANNOTATION

Cervical diseases, including precancerous lesions, remain a major challenge in modern gynecology and gynecologic oncology. Despite the introduction of screening programs, cervical cancer remains a leading cause of cancer in premenopausal women. In recent years, particular attention has been paid to precancerous changes in the cervical epithelium, which are potentially reversible with timely diagnosis and treatment.

Key words: premenopause, erosion, intraepithelial neoplasia, metaplasia, hyperplasia, cervicitis, morphometry.

РЕЙМНАЗАРОВА Гулсара Джамаловна

Км.н., доцент

Ташкентский государственный медицинский университет

МОРФОМЕТРИЧЕСКИЕ ОСОБЕННОСТИ ШЕЙКИ МАТКИ ПРИ ДОБРОКАЧЕСТВЕННЫХ ПОРАЖЕНИЯХ, ЭРОЗИИ В ПРЕДМЕНОПАУЗАЛЬНЫЙ ПЕРИОД

АННОТАЦИЯ

Заболевания шейки матки, включая предраковые процессы, остаются одной из ведущих проблем современной гинекологии и онкогинекологии. Несмотря на внедрение скрининговых программ, рак шейки матки продолжает занимать одно из ведущих мест в структуре онкологической заболеваемости у женщин предменопаузального возраста. Особое внимание в последние годы уделяется преинвазивным изменениям эпителия шейки матки, которые при своевременной диагностике и лечении являются потенциально обратимыми состояниями.

Ключевые слова: предменопауза, эрозия, интраэпителиальная неоплазия, метаплазия, гиперплазия, цервицит, морфометрия.

REYMNAZAROVA Gulsara Djamalovna

dotsent, t.f.n.

Toshkent davlat tibbiyot universiteti

PREMENOPAUZAL DAVRDA BACHADON BO'YNI XAVFSIZ JARAYONI, EROZIYALARINING MORFOMETRIK XUSUSIYATLARI

ANNOTATSIYA

Bachadon bo'yni kasalliklari, shu jumladan prekanseroz jarayonlar zamonaviy ginekologiya va ginekologik onkologiyada asosiy muammo bo'lib qolmoqda. Skrining dasturlari joriy etilganiga qaramay, bachadon bo'yni saratoni premenopozal ayollarda saraton kasalligining asosiy sababi bo'lib qolmoqda. So'nggi yillarda bachadon bo'yni epiteliysida o'z vaqtida tashxis qo'yish va davolash bilan tiklanishi mumkin bo'lgan saratondan oldingi o'zgarishlarga alohida e'tibor qaratilmoqda.

Kalit suzlar: premenopauza, eroziya, intraepitelial neoplaziya, metaplaziya, giperplaziya, tservitsit, morfometriya.

Kirish. Bachadon bo'yni neoplastik jarayoni dunyoda ayollar populyatsiyasi orasida xavfli o'smalardan kasallanish va o'lim darajasi bo'yicha oxirgi o'rinda emas (Ledina A.V. va boshqalar, 2018; Manuxin I.B. va boshqalar, 2018; JSST/ICO HPV va saraton bo'yicha axborot markazi, 2020). Bachadon bo'yni shikastlanishlarining 80% dan ortig'i fon kasalliklariga bog'liq. So'nggi tadqiqotlar shuni ko'rsatadiki, xavfsiz shikastlarini erta aniqlash va samarali davolash bachadon bo'yni saratoni rivojlanishining oldini olishni ta'minlaydi [2, 5].

Bachadon bo'yni saratonining oldini olish va erta tashxis qo'yish ginekologiya xizmati faoliyatining ustuvor yo'nalishlaridan biridir.

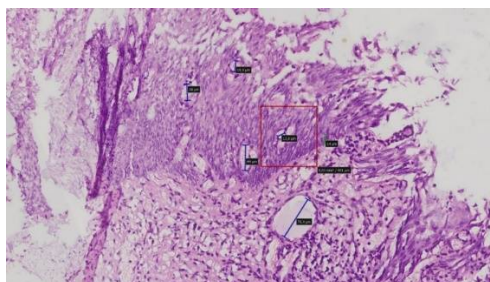
Bachadon bo'yni kasalliklarini tashxislash va davolash muammosi, ularni tasniflash va klinik baholashda yagona yondashuvning yo'qligi, natijada davolash taktikasi amaliyotchi shifokorlar o'rtasida bir qator qiyinchiliklar va kelishmovchiliklarni keltirib chiqaradi, bemorlarni asossiz radikal yoki uzoq muddatli konservativ davolashga undaydi. Bu bir qator xatolarga olib keladi, bu nafaqat jarayonning rivojlanishiga yoki kasallikning murakkab shakllarining rivojlanishiga, balki ko'plab yatrogen patologiyalarga ham olib keladi. Barcha diagnostika muammolarini turli kombinatsiyalarda an'anaviy klinik, endoskopik va morfologik usullar yordamida hal qilish mumkin [3, 8].

Bachadon bo'yni xavfsiz jarayonlarining etiologiyasi ko'p omilli bo'lib, quyidagilarni o'z ichiga oladi: gormonal nomutanosiblik, estrogen va progesteron darajasining o'zgarishi [1, 6].

Bachadon bo'yni epiteliysining yoshga bog'liq morfologik xususiyatlari, shu jumladan atrofik va regenerativ jarayonlar diagnostik qiyinchiliklarni keltirib chiqaradi, bu esa ortiqcha tashxis qo'yish yoki jarayonning og'irligini etarlicha baholamaslik xavfini oshiradi [4, 7].

Tadqiqotning maqsadi: bachadon bo'yni rakoldi jarayonlarning morfometrik xususiyatlarini, ayniqsa, premenopauza davridagi ayollardagi eroziv o'zgarishlarni o'rganish hamda mintaqamizdagi ushbu toifadagi bemorlarning saraton kasalligini oldini olish va salomatligini yaxshilash bo'yicha takliflar ishlab chiqishdan iborat.

Materiallar va tadqiqot usullari: tadqiqot ob'ekti bo'lib 2025 yildan 2026 yilgacha MTM klinikasida o'tkazilgan konizatsiyadan so'ng xavfsiz eroziv jarayonlari bo'lgan premenopauzal davrdagi 38 ayollarning bachadon bo'yni bo'laklari olingan. Materialni gistologik tekshirish uchun tayyorlagandan so'ng, morfometrik tahlil NanoZoomer «REF C13140-21. S/N000198/HAMAMATSU PHOTONICS/431-3196 JAPAN»da o'tkazildi. **Tadqiqot natijalari.** Bachadon bo'yni eroziyasi «endoservikoz» morfometriyasi



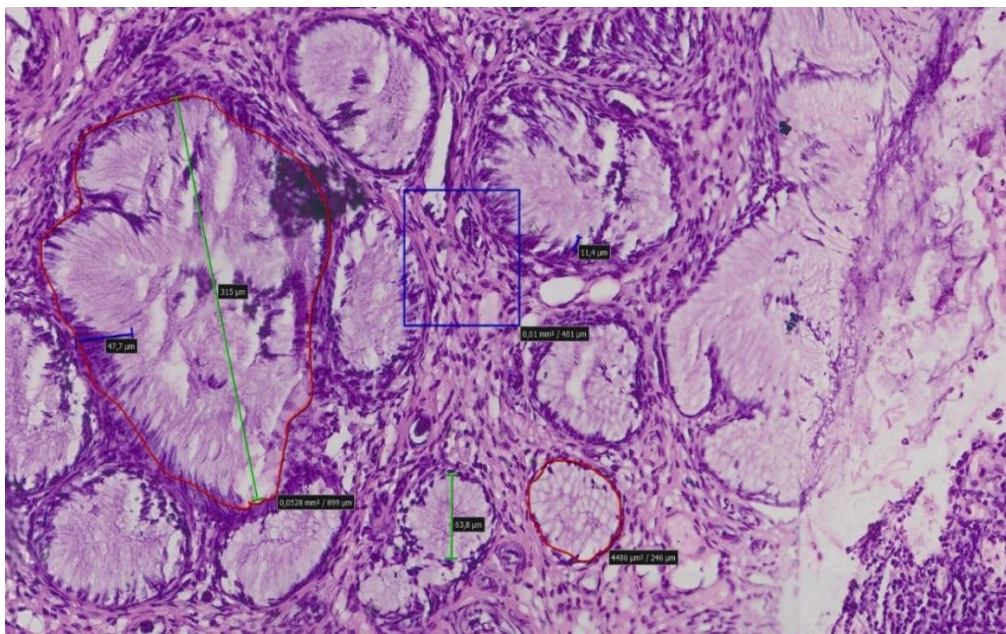
RasmX. Surunkali servitsit fonida bezli-kistoz endoservikoz va yetikgan yassi epithelial metaplazianing morfometrik tavsifi.

Bo'yash: gemataksilin va eozin. **Kattalashuv:** x200

NanoZoomer «REF C13140-21. S/N000198/HAMAMATSU PHOTONICS/431-3196 JAPAN»

Ushbu mikrofotografiyada bachadon bo'yni shilliq qavatining epiteliyal va stromal komponentlari morfometrik jihatdan tahlil qilinganda, epiteliyal qatlaminin notekis qalinlashuvi va metaplastik o'zgarishlari aniqlanadi. Epiteliyal qalinligi turli hududlarda 18,9 mkm dan 28 mkm gacha, ayrim joylarda esa 44 mkm gacha yetadi, bu esa regeneratsiya va metaplaziya jarayonlarining faolligini ko'rsatadi. Ayrim epiteliyal hujayralar o'lchami 13,8-14 mkm diapazonda bo'lib, ularning sitoplazmasi nisbatan zich, yadrolari esa markaziy yoki biroz bazal joylashgan. Hujayralarning yadrosi o'rtacha 5-6 mkm atrofida bo'lib, yadro/sitoplazma «Y/S» nisbati taxminan 0,40-0,50 ni tashkil etadi. Bu ko'rsatkich epiteliyalda proliferativ faollik mavjudligini, ammo aniq malign belgilar yo'qligini bildiradi. Epiteliyalda ko'p qavatli yoki metaplastik qayta tuzilish belgilari kuzatilib, differensiyalanish darajasi saqlangan. Stromal qatlamda yallig'lanish infiltratsiyasi yaqqol ifodalangan. 0,01 mmk vadratga maydonda hujayra zichligi o'rtacha 300-380 hujayra ni tashkil etadi. Infiltrat asosan limfotsitlar va plazmotsitlardan iborat bo'lib, ayrim joylarda diffuz joylashgan. Stromada kichik bez tuzilmalari ham aniqlanadi, ularning diametri o'rtacha 76,4 mkm bo'lib, bu bezlarning kengayganligini ko'rsatadi. Stromal komponentda shuningdek fibroz elementlar ham mavjud bo'lib, ular to'qimaning taxminan 35-45% qismini egallaydi.

Umuman olganda, morfometrik ko'rsatkichlar epiteliyalda metaplastik qayta tuzilish, stromada esa surunkali yallig'lanish jarayoni va bezlarning qisman kengayishi mavjudligini ko'rsatadi.



RasmX. Surunkali tservitsit fonida bezlarning yaqqol kistoz transformatsiyasi bilan kechuvchi bezli-kistoz endoservikozning morfometrik tavsifi.

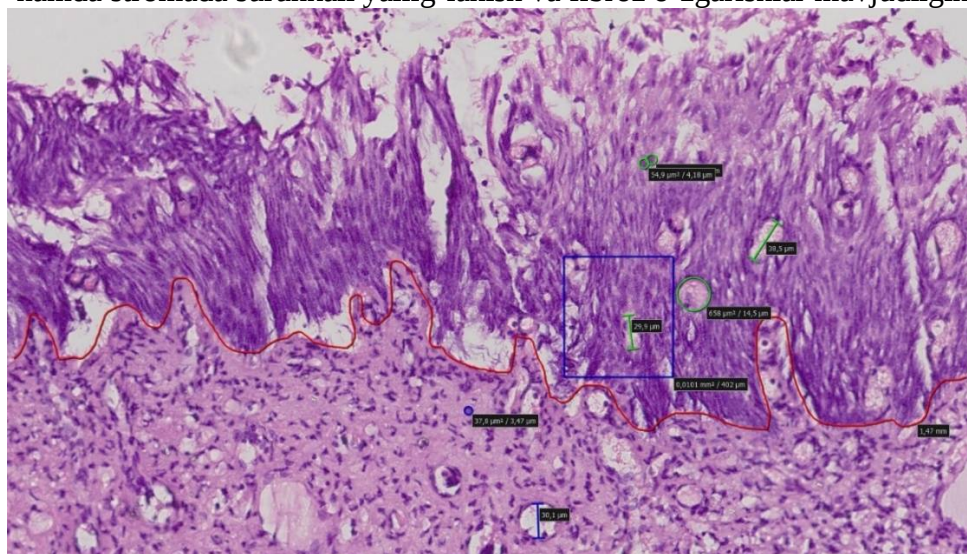
Bo'yash: gemataksilin va eozin. **Kattalashuv:** x200

NanoZoomer «REF C13140-21. S/N000198/HAMAMATSU PHOTONICS/431-3196 JAPAN»

Ushbu mikrofotografiyada bachadon bo'yni to'qimasining bezli komponenti ustun bo'lib, morfometrik tahlil endoservikal bezlarning sezilarli darajada kengayganligini ko'rsatadi. Eng yirik bez diametri 315 mkm ga yetadi, bu uning kistoz transformatsiyaga uchraganini bildiradi. Shu bezning epiteliyal qatlami qalinligi taxminan 47,7 mkm ni tashkil etadi, bu esa sekretor faol epiteliyal uchun xos ko'rsatkichdir. Kichikroq bezlar diametri 63,8 mkm atrofida bo'lib, ular ham kengayish tendensiyasini namoyon etadi. Ayrim kistoz o'zgargan bezlarning yuzasi 4486 mkmkvadratga

«diametri 246 mkm» ga teng bo'lib, bu bezlar ichida sekret to'planishi natijasida yuzaga kelgan dilatatsiyani tasdiqlaydi.

Bez epiteliy hujayralari baland prizmatik shaklda bo'lib, sitoplazmasi keng va vakuolizatsiyalangan, yadrolari bazal qismga siljigan. Hujayra o'lchami o'rtacha 14-20 mkm, yadro diametri 5-6 mkm bo'lib, yadro/sitoplazma «Y/S» nisbati 0,30-0,40 ni tashkil etadi. Bu ko'rsatkich sitoplazmaning ustunligini va sekretor faollikni ko'rsatadi hamda jarayonning benign xarakterini tasdiqlaydi. Stromada yaqqol surunkali yallig'lanish infiltratsiyasi aniqlanadi. 0,01 mmkvadratga maydonda hujayra zichligi o'rtacha 280-340 hujayra ni tashkil etadi. Infiltrat asosan limfotsit va plazmotsitlardan iborat bo'lib, ayrim joylarda stromaning katta qismini egallaydi. Shuningdek, fibroz elementlar ham rivojlangan bo'lib, stromaning taxminan 40-50% qismini tashkil etadi, bu jarayonning uzoq davom etganligini ko'rsatadi. Umuman olganda, morfometrik ko'rsatkichlar endoservikal bezlarning proliferatsiyasi, ularning kistoz kengayishi, sekretor epiteliy ustunligi «past Y/S nisbati» hamda stromada surunkali yallig'lanish va fibroz o'zgarishlar mavjudligini ko'rsatadi.



RasmX. Surunkali servitsit fonida o'rtacha darajadagi yassi epithelial metaplaziya va o'choqli endoservikozning morfometrik tavsifi.

Bo'yash: gemataksilin va eozin. **Kattalashuv:** x200

NanoZoomer «REF C13140-21. S/N000198/HAMAMATSU PHOTONICS/431-3196 JAPAN»

Ushbu mikrofotografiyada bachadon bo'yni shilliq qavati epiteliy va stromal komponentlarining morfometrik tahlili quyidagicha tavsiflanadi. Ko'p qatlamli yassi epiteliy qalinligi o'lchovlarga ko'ra 29,9-38,5 mkm oralig'ida bo'lib, o'rtacha qiymati taxminan 32-34 mkm ni tashkil etadi. Epiteliy hujayralarining o'lchami 14-18 mkm diapazonda, yadrolari esa 5-7 mkm atrofida. Shu asosda yadro/sitoplazma «Y/S» nisbati 0,55-0,65 ni tashkil etadi, bu regenerativ-metaplastik jarayonlar uchun xos bo'lib, atipiya belgilarisiz kechayotganini ko'rsatadi. Bazal membrana notekis, to'lqinsimon konturga ega bo'lib, uning umumiy uzunligi taxminan 1,47 mm ga teng. Epiteliy ostidagi stromada hujayra elementlari zich joylashgan, hujayra zichligi o'lchangan maydonda «0,01 mmkvadratga» o'rtacha 260-310 hujayra ni tashkil etadi. Stromadagi alohida hujayralarning o'lchami 10-12 mkm, yadrolari 4-5 mkm atrofida bo'lib, Y/S nisbati 0,45-0,55 darajada. Alohida bezsimon strukturalar va kengaygan lumenli shakllanishlar aniqlanadi, ularning diametri 30,1 mkm gacha yetadi. Ba'zi sekretor hujayralarda sitoplazma vakuolizatsiyasi kuzatilib, ularning yuzasi 658 mkm kvadratga «diametri 14,5 mkm» ni tashkil etadi, bu sekretor faollikni bildiradi. Epiteliy ichidagi ayrim hujayralarda sitoplazma maydoni 54,9 mkm kvadratga ga teng bo'lib, differensiyalangan hujayralar mavjudligini ko'rsatadi.

Xulosa. Umuman olganda, morfometrik ko'rsatkichlar epiteliyda o'rtacha qalinlikdagi yassi epithelial qoplama, nisbatan barqaror yadro/sitoplazma nisbati va stromada yaqqol limfotsitar infiltratsiya mavjudligini ko'rsatadi. Bez elementlarining mavjudligi va sekretor hujayralar

aniqlanishi bilan birga, bu o'zgarishlar surunkali yallig'lanish fonida kechayotgan metaplastik va bezli komponentli jarayonni aks ettiradi.

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Web: <http://www.tadqiqot.uz/>; E-mail: info@tadqiqot.uz
Тел: (+998-94) 404-0000

Editorial staff of the journals of www.tadqiqot.uz
Tadqiqot LLC The city of Tashkent,
Amir Temur Street pr.1, House 2.
Web: <http://www.tadqiqot.uz/>; E-mail: info@tadqiqot.uz
Phone: (+998-94) 404-0000