Qalqonsimon bezi o'smalarini ultratovush tekshiruvi yordamida biopsiya qilishning ahamiyati

Atayeva S.X., Akramov S.N.

Samarqand Davlat Tibbiyot universiteti, Samarqand, O'zbekiston.

Kirish

Qalqonsimon bez o'smalari endokrin tizim kasalliklarining keng tarqalgan shakllaridan biri bo'lib, ularning ko'pchiligi klinik simptomlarsiz kechadi. Ko'pgina hollarda bezdagi o'smalar yaxshi sifatli bo'ladi, ammo ba'zi hollarda ular xavfli, ya'ni yomon sifatli bo‘lib, onkologik jarayonlarning rivojlanishiga olib kelishi mumkin. O'smalarning yaxshi yoki yomonligini aniqlash uchun zamonaviy tibbiyotda ultratovush tekshiruvi ostida biopsiya usuli keng qo'llaniladi. Ushbu maqolada qalqonsimon bezi o'smalarini aniqlash va ularni biopsiya qilishda ultratovush tekshiruvi (UTT)ning ahamiyati haqida batafsil ma'lumot beriladi.

Kalit so'zlar

Qalqonsimon bez, o'smalar, biopsiya, ultratovush tekshiruvi, diagnostika, nodul, endokrin tizim, xavfli

Asosiy qism

Qalqonsimon bez o'smalari haqida umumiy ma'lumot

Qalqonsimon bez gormonlar ishlab chiqaruvchi muhim endokrin organ bo‘lib, uning to‘qimalarida hosil bo'ladigan o'smalar ko'pincha nodul yoki tugun shaklida bo'ladi. Ushbu o'smalar hajmiga, joylashuviga va xususiyatlariga qarab turli xil simptomlarni keltirib chiqarishi mumkin. Ba'zida o'smalar kattalashib, yutish yoki nafas olishda qiyinchiliklar tug'diradi, ammo ko'p hollarda ular simptomlarsiz kechadi. Qalqonsimon bezdagi o'smalarni tasniflashda asosiy maqsad – ularning xavfsiz yoki xavfliligini aniqlashdan iborat.

Biopsiyaning diagnostikadagi roli

Biopsiya – bu organizmdan to'qima namunasi olinib, uning mikroskop ostida tekshirilishiga asoslangan diagnostika usuli. Qalqonsimon bez nodullari o'smalarining xavfli yoki xavfsiz ekanligini aniq aniqlashda biopsiyaning o‘rni katta. Bu jarayon tugun tarkibini aniqlash va o‘smalarni differentsial diagnostik qilish imkonini beradi. Ko'pincha yaxshi sifatli o'smalarni operatsiya qilish talab etilmaydi, ammo xavfli o'smalar zudlik bilan jarrohlik amaliyotini talab qiladi.

Ultratovush tekshiruvi ostida biopsiyaning ahamiyati

Qalqonsimon bez nodullari uchun biopsiyani amalga oshirishda ultratovush tekshiruvi (UTT) juda muhimdir. Bu usul invaziv bo‘lmagan va xavfsiz diagnostika vositasi bo'lib, bezning ichki tuzilmasi va nodullar joylashuvi haqida batafsil tasvir olish imkonini beradi. UTT orqali biopsiya qilish (fine needle aspiration biopsy - FNAB) jarayonning aniq va to'g'ri bajarilishini ta'minlaydi.

UTTning asosiy afzalligi shundaki, u shifokorlarga bezdagi tugunlarning aniq joylashuvini va ularning kattaligini aniqlashga imkon beradi. Shunday qilib, biopsiya jarayonida igna bevosita o'smaga yo'naltiriladi va zarur to'qima namunasi olinadi. Shuningdek, bu usul kichik yoki chuqur joylashgan nodullarni ham aniq nishonga olish imkonini beradi, bu esa tasodifan sog'lom to'qimalardan namunalar olish ehtimolini kamaytiradi.

UTT orqali biopsiyaning boshqa diagnostik usullardan ustunligi

Ultratovush yordamida biopsiya qilish jarayoni o'sma tugunlarining joylashuvini aniq ko'rsatib beradi va bu operatsiyasiz to‘g‘ri tashxis qo‘yish imkonini oshiradi. UTT orqali biopsiya invaziv bo'lmagan usul bo'lgani uchun, bemorga minimal noqulaylik tug'diradi va jarrohlik aralashuvini talab qilmaydi. Bunday biopsiya boshqa turdagi diagnostik vositalar, xususan, ochiq biopsiya yoki KT nazoratidagi biopsiyalarga nisbatan xavfsizroq va kamroq invazivdir.

Shu bilan birga, UTTning afzalliklaridan yana biri – bu protsedura juda qisqa vaqt ichida amalga oshiriladi va bemor uchun minimal noqulaylik bilan o'tadi. UTT orqali biopsiya kamdan-kam hollarda asoratlarni keltirib chiqaradi va bemor bir necha soat ichida odatiy faoliyatiga qaytishi mumkin. Bunday biopsiyaning diagnostik aniqligi ham yuqori bo'lib, uning sezgirligi taxminan 95-98% ni tashkil etadi.

Material va metodlar

Materiallar

- Ultratovush tekshiruv (UTT) apparati
- Biopsiya uchun nozik igna (fine needle aspiration – FNA)
- Anesteziya vositalari (mahalliy og'riqsizlantirish uchun)
- Mikroskop va laboratoriya asboblari

Metodlar

1. **Bemor tayyorgarligi**: Bemor maxsus tayyorgarlik talab qilmaydi, ammo protseduradan oldin bemorning anamnezi o'rganiladi va mumkin bo'lgan allergik reaktsiyalar tekshiriladi.
2. **Ultratovush tekshiruvi**: Bemorning qalqonsimon bezi ultratovush orqali ko'rib chiqiladi, tugunlarning joylashuvi, hajmi va strukturasi o‘rganiladi.

3. **Biopsiya o‘tkazish**: Ultratovush apparati yordamida biopsiya ignasi aniq o'sma tuguniga yo‘naltiriladi. Nozik igna yordamida bezdan kichik miqdorda to'qima namunalari olinadi.
4. **Laboratoriyada tahlil qilish**: Olingan to'qima namunalari mikroskop ostida o‘rganiladi va patolog tomonidan xavfsiz yoki xavfli ekanligi aniqlanadi.

Xulosa

Qalqonsimon bez o'smalarini tashxislashda ultratovush tekshiruvi ostida biopsiya qilish eng xavfsiz va samarali usullardan biridir. Bu usul o'smalarni aniqlashda va ularning sifatini (xavfsiz yoki xavfliligini) aniq belgilashda katta ahamiyatga ega. Ultratovushning yuqori aniqlikdagi tasvirlari orqali biopsiya ignasi aniq o'sma tuguniga yo'naltiriladi va zarur to'qima olinadi. Bu diagnostik usul oson, noinvaziv va bemor uchun minimal noqulaylik keltiradi.

Shuningdek, UTT yordamida biopsiya qilish, o‘tkazilgan tadqiqotlar natijalariga ko'ra, yuqori sezgirlik va aniqlik ko'rsatadi. Bemorning sog‘lig‘ini himoya qilish va imkon qadar tez tashxis qo‘yish jarayonini amalga oshirishda bu usulning afzalligi katta. Shu sababli, qalqonsimon bez o'smalarini o‘z vaqtida aniqlash va davolash uchun ultratovush tekshiruvi ostida biopsiya eng muhim diagnostik usullardan biri hisoblanadi.

Adabiyotlar

1. A., Khamidov O., and Shodmanov F. J. 2023. “Computed Tomography and Magnetic Resonance Imaging Play an Important Role in Determining the Local Degree of Spread of Xavfliant Tumors in the Organ of Hearing”. Central Asian Journal of Medical and Natural Science 4 (3), 929-39.
2. Abdurakhmanovich, K. O. (2023). Options for diagnosing polycystic kidney disease. Innovation Scholar, 10(1), 32-41.
3. Abdurakhmanovich, K. O., & ugli, G. S. O. (2022). Ultrasonic Diagnosis Methods for Choledocholithiasis. Central Asian Journal Of Medical And Natural Sciences, 3(2), 43-47.
4. Abdurakhmanovich, K. O., & ugli, G. S. O. (2022). Ultrasound Diagnosis of the Norm and Diseases of the Cervix. Central Asian Journal Of Medical And Natural Sciences, 3(2), 58-63.
5. Akbarov S. et al. VALUE OF US AND DOPPLEROMETRY IN CHRONIC PYELONEPHRITIS OF PREGNANT WOMEN //Yangi O'zbekiston talabalari axborotnomasi. – 2023. – Т. 1. – №. 2. – С. 26-29.
6. Akhmedov YA, Ataeva SKh, Ametova AS, Bazarova SA, Isakov HKh THE HISTORY OF THE DEVELOPMENT OF RADIATION DIAGNOSTICS. Web of scientist: International scientific research journal. 2021;2:34-42.
7. Alimdjanovich, R.J., Obid , K., Javlanovich, Y.D. and ugli, G.S.O. 2022. Advantages of Ultrasound Diagnosis of Pulmonary Pathology in COVID-19

Compared to Computed Tomography. Central Asian Journal of Medical and Natural Science. 3, 5 (Oct. 2022), 531-546.
8. Alimdjanovich, Rizayev Jasur, et al. "Start of Telemedicine in Uzbekistan. Technological Availability." Advances in Information Communication Technology and Computing: Proceedings of AICTC 2022. Singapore: Springer Nature Singapore, 2023. 35-41.
9. Amandullaevich A. Y., Abdurakhmanovich K. O. Organization of Modern Examination Methods of Mammary Gland Diseases //Central Asian Journal of Medical and Natural Science. – 2022. – Т. 3. – №. 5. – С. 560-569.
10. Ataeva SKh, Ravshanov ZKh, Ametova AS, Yakubov DZh Radiation visualization of chronic joint diseases. Central Asian journal of medical end natural sciences. 2021;2(2):12-17
11. Atayeva S.X., Shodmanov F.J. (2024). Ultratovush va uning klinik diagnostikadagi roli. Science and Innovation, 4(2), 58–66. Retrieved from https://cyberlininka.ru/index.php/sai/article/view/83
12. Gaybullaev S. O., Fayzullayev S. A., Khamrakulov J. D. Cholangiocellular Cancer Topical Issues of Modern Ultrasound Diagnosis //Central Asian Journal of Medical and Natural Science. – 2023. – Т. 4. – №. 3. – С. 921-928.
13. Gaybullaev S.O. (2024). MRI IN TERMS OF MAGNETIC SUSCEPTIBILITY WEIGHTED IMAGES IN THE DIFFERENTIAL DIAGNOSIS OF PRIMARY LYMPHOMA OF THE CENTRAL NERVOUS SYSTEM AND ANAPLASTIC ASTROCYTOMA. CLINICAL OBSERVATION. Boffin Academy, 2(1), 313–322. Retrieved from https://boffin.su/index.php/journal/article/view/102
14. Gaybullaev Sh.O., Djurabekova A. T., & Khamidov O. A. (2023). MAGNETIC RESONANCE IMAGRAPHY AS A PREDICTION TOOL FOR ENCEPHALITIS IN CHILDREN. Boffin Academy, 1(1), 259–270.
15. Hamidov OA, Diagnostics of injuries of the soft tissue structures of the knee joint and their complications. European research. Moscow. 2020;1(37):33-36.
16. Kadirov J. F. et al. NEUROLOGICAL COMPLICATIONS OF AIDS //Journal of new century innovations. – 2022. – Т. 10. – №. 5. – С. 174-180.
17. Khamidov O. A. and Dalerova M.F. 2023. The role of the regional telemedicine center in the provision of medical care. Science and innovation. 3, 5 (Nov. 2023), 160–171.
18. Khamidov O. A., Gaybullaev S.O. (2024). The Advancements and Benefits of Radiology Telemedicine. Journal the Coryphaeus of Science, 6(1), 104–110. Retrieved from http://jtcos.ru/index.php/jtcos/article/view/202
19. Khamidov O. A., Gaybullaev S.O. (2024). The Advancements and Benefits of Radiology Telemedicine. Journal the Coryphaeus of Science, 6(1), 104–110. Retrieved from http://jtcos.ru/index.php/jtcos/article/view/202

20. Khamidov O. A., Shodmanov F. J. Computed Tomography and Magnetic Resonance Imaging Play an Important Role in Determining the Local Degree of Spread of Xavfliant Tumors in the Organ of Hearing //Central Asian Journal of Medical and Natural Science. – 2023. – T. 4. – №. 3. – C. 929-939.
21. Khamidov OA, Akhmedov YA, Ataeva SKh, Ametova AS, Karshiev BO Role of Kidney Ultrasound in the Choice of Tactics for Treatment of Acute Renal Failure. Central Asian journal of medical end natural sciences. 2021;2(4):132-134
22. Khamidov OA, Akhmedov YA, Yakubov DZh, Shodieva NE, Tukhtaev TI DIAGNOSTIC POSSIBILITIES OF USES IN POLYKYSTOSIS OFKIDNEYS. Web of scientist: International scientific research journal. 2021;2(8):27-33
23. Khamidov OA, Ataeva SKh, Ametova AS, Yakubov DZh, Khaydarov SS A Case of Ultrasound Diagnosis of Necrotizing Papillitis. Central Asian journal of medical end natural sciences. 2021;2(4):103-107
24. Khamidov OA, Ataeva SKh, Yakubov DZh, Ametova AS, Saytkulova ShR ULTRASOUND EXAMINATION IN THE DIAGNOSIS OF FETAL MACROSOMIA. Web of scientist: International scientific research journal. 2021;2(8):49-54
25. Khamidov OA, Khodzhanov IYu, Mamasoliev BM, Mansurov DSh, Davronov AA, Rakhimov AM The Role of Vascular Pathology in the Development and Progression of Deforming Osteoarthritis of the Joints of the Lower Extremities (Literature Review). Annals of the Romanian Society for Cell Biology, Romania. 2021;1(25):214 – 225
26. Khamidov OA, Mirzakulov MM, Ametova AS, Alieva UZ Multispiral computed tomography for prostate diseases. Central Asian journal of medical end natural sciences. 2021;2(2):9-11
27. Khamidov OA, Normamatov AF, Yakubov DZh, Bazarova SA Respiratory computed tomography. Central Asian journal of medical end natural sciences. 2021;2(2):1-8
28. Khamidov OA, Urozov UB, Shodieva NE, Akhmedov YA Ultrasound diagnosis of urolithiasis. Central Asian journal of medical end natural sciences. 2021;2(2):18-24
29. Khamidov OA, Yakubov DZh, Alieva UZ, Bazarova SA, Mamaruziev ShR Possibilities of Sonography in Differential Diagnostics of Hematuria. Central Asian journal of medical end natural sciences. 2021;2(4):126-131
30. Khamidov OA, Yakubov DZh, Ametova AS, Bazarova SA, Mamatova ShT Application of the Ultrasound Research Method in Otorhinolaryngology and Diseases of the Head and Neck Organs. International Journal of Development and Public Policy. 2021;1(3):33-37

31. Khamidov OA, Yakubov DZh, Ametova AS, Turdumatov ZhA, Mamatov RM Magnetic Resonance Tomography in Diagnostics and Differential Diagnostics of Focal Liver Lesions. Central Asian journal of medical end natural sciences. 2021;2(4):115-120
32. Khamidov Obid Abdurakhmanovich and Gaybullaev Sherzod Obid ugli 2023. Telemedicine in oncology. Science and innovation. 3, 4 (Aug. 2023), 36–44.
33. Khamidov Obid Abdurakhmanovich, Davranov Ismoil Ibragimovich, Ametova Alie Servetovna. (2023). The Role of Ultrasound and Magnetic Resonance Imaging in the Assessment of Musculo-Tendon Pathologies of the Shoulder Joint. International Journal of Studies in Natural and Medical Sciences, 2(4), 36–48. Retrieved from https://scholarsdigest.org/index.php/ijsnms/article/view/95
34. Khamidov Obid Abdurakhmanovich, Gaybullaev Sherzod Obid ugli 2023. COMPARATIVE ANALYSIS OF CLINICAL AND VISUAL CHARACTERISTICS OF OSTEOMALACIA AND SPONDYLOARTHRITIS. Science and innovation. 3, 4 (May 2023), 22–35.
35. Khamidov Obid Abdurakhmanovich, Gaybullaev Sherzod Obid ugli and Yakubov Doniyor Jhavlanovich 2023. Переход от мифа к реальности в электронном здравоохранении. Boffin Academy. 1, 1 (Sep. 2023), 100–114.
36. N., Nurmurzayev Z., Abduqodirov Kh. M., and Akobirov M. T. 2023. “Transabdominal Ultrasound for Inflammatory and Tumoral Diseases Intestine: New Possibilities in Oral Contrasting With Polyethylene Glycol”. Central Asian Journal of Medical and Natural Science 4 (3), 973-85. https://cajmns.centralasianstudies.org/index.php/CAJMNS/article/view/1606 .
37. O., Gaybullaev S., Fayzullayev S. A., and Khamrakulov J. D. 2023. “Cholangiocellular Cancer Topical Issues of Modern Ultrasound Diagnosis”. Central Asian Journal of Medical and Natural Science 4 (3), 921-28. https://cajmns.centralasianstudies.org/index.php/CAJMNS/article/view/1599 .
38. Obid, K., Servetovna, A. A., & Javlanovich, Y. D. (2022). Diagnosis and Structural Modification Treatment of Osteoarthritis of the Knee. Central Asian Journal of Medical and Natural Science, 3(5), 547-559.
39. P., Kim T., and Baymuratova A. C. 2023. “Fast Technology for Ultrasonic Diagnosis of Acute Coleculosis Cholecystitis”. Central Asian Journal of Medical and Natural Science 4 (3), 940-46. https://cajmns.centralasianstudies.org/index.php/CAJMNS/article/view/1601 .

40. Rustamov UKh, Shodieva NE, Ametova AS, Alieva UZ, Rabbimova MU US-DIAGNOSTICS FOR INFERTILITY. Web of scientist: International scientific research journal. 2021;2(8):55-61
41. Rustamov UKh, Urinboev ShB, Ametova AS Ultrasound diagnostics of ectopic pregnancy. Central Asian journal of medical end natural sciences. 2021;2(2):25-28
42. Yakubov , J., Karimov , B., Gaybullaev , O., and Mirzakulov , M. 2022. Ultrasonic and radiological picture in the combination of chronic venous insufficiency and osteoarthritis of the knee joints. Academic Research in Educational Sciences. 5(3), pp.945–956.
43. Yakubov D. Z., Gaybullaev S. O. The diagnostic importance of radiation diagnostic methods in determining the degree of expression of gonarthrosis //UZBEK JOURNAL OF CASE REPORTS. – С. 36.
44. Yakubov Doniyor Javlanovich, Juraev Kamoliddin Danabaevich, Gaybullaev Sherzod Obid ugli, and Samiev Azamat Ulmas ugli. 2022. “INFLUENCE OF GONARTHROSIS ON THE COURSE AND EFFECTIVENESS OF TREATMENT OF VARICOSE VEINS”. Yosh Tadqiqotchi Jurnali 1 (4):347-57.
45. Атаева С.Х., Шодманов Ф.Ж. (2024). ТИББИЁТДА СУНЪИЙ ИНТЕЛЛЕКТ. Science and Innovation, 4(2), 47–57. Retrieved from https://cyberlininka.ru/index.php/sai/article/view/82
46. Ахмедов Якуб Амандуллаевич; Гайбуллаев Шерзод Обид угли; Хамидова Зиёда Абдивахобовна. МРТ В СРАВНЕНИИ С ДИАГНОСТИЧЕСКОЙ АРТРОСКОПИЕЙ КОЛЕННОГО СУСТАВА ДЛЯ ОЦЕНКИ РАЗРЫВОВ МЕНИСКА. Tadqiqotlar 2023, 7, 105-115.
47. Гайбуллаев Ш., Усаров М., Далерова М. НОРМАЛЬНЫЕ УЛЬТРАЗВУКОВЫЕ РАЗМЕРЫ ЖЕЛЧНОГО ПУЗЫРЯ И ОБЩЕГО ЖЕЛЧНОГО ПРОТОКА У НОВОРОЖДЕННЫХ //Involta Scientific Journal. – 2023. – Т. 2. – №. 1. – С. 142-148.
48. Гайбуллаев Ш.О., Бекмуродов Ш.А. (2023). Обзор ультразвуковой диагностики рака печени: основные аспекты. Science and Innovation, 3(5), 216–229. Retrieved from https://www.cyberlininka.ru/index.php/sai/article/view/43
49. Гайбуллаев Ш.О., Туранов А.Р., Химматов И.Х. (2024). Современные методики МРТ диагностики при опухолях головного мозга. Journal the Coryphaeus of Science, 6(2), 11–15. Retrieved from http://jtcos.ru/index.php/jtcos/article/view/257
50. Жавланович, Я. Д., Амандуллаевич, А. Я., Зафаржонович, У. З., & Павловна, К. Т. (2023). Мультипараметрическая МРТ В Диагностике Рака Предстательной Железы. Central Asian Journal of Medical and Natural Science, 4(2), 577-587. https://doi.org/10.17605/OSF.IO/MQDHP

51. Кадиров Ж. Ф. и др. МАГНИТНО-РЕЗОНАНСНАЯ ТОМОГРАФИЧЕСКАЯ ОЦЕНКА ПОРАЖЕНИЙ ЦЕНТРАЛЬНОЙ НЕРВНОЙ СИСТЕМЫ У БОЛЬНЫХ, ИНФИЦИРОВАННЫХ ВИРУСОМ ИММУНОДЕФИЦИТА ЧЕЛОВЕКА //Journal of new century innovations. – 2022. – Т. 10. – №. 5. – С. 157-173.
52. Нурмурзаев, З. Н., Жураев, К. Д., & Гайбуллаев, Ш. О. (2023). ТОНКОИГОЛЬНАЯ АСПИРАЦИОННАЯ ЦИТОЛОГИЯ ПОД УЛЬТРАЗВУКОВЫМ КОНТРОЛЕМ В ДИАГНОСТИКЕ ЗАБРЮШИННЫХ ОБРАЗОВАНИЙ: ИССЛЕДОВАНИЕ 85 СЛУЧАЕВ. Academic Research in Educational Sciences, 4(4), 126–133.
53. угли, А.С.Н., Хамидович, Р.Ш. and Данабаевич, Ж.К. 2023. Кость При Остеоартрите: Визуализация. Central Asian Journal of Medical and Natural Science. 4, 3 (Jun. 2023), 895-905.
54. угли, Химматов Ислом Хайрулло, Сувонов Зуфар Кахрамон угли, and Умаркулов Забур Зафаржонович. 2023. “Визуализация Множественной Миеломы”. Central Asian Journal of Medical and Natural Science 4 (3), 906-16.
55. Хамидов , О. , Гайбуллаев , Ш. и Давранов , И. 2023. СРАВНЕНИЕ РЕЗУЛЬТАТОВ УЗИ И МРТ В ДИАГНОСТИКЕ ПОВРЕЖДЕНИЙ МЕНИСКА КОЛЕННОГО СУСТАВА. Евразийский журнал медицинских и естественных наук. 3, 4 (апр. 2023), 176–183.
56. Хамидов О. А., Гайбуллаев Ш. О., Хакимов М. Б. ОБЗОР МЕТОДОВ ОБРАБОТКИ ИЗОБРАЖЕНИЙ ДЛЯ ДИАГНОСТИКИ ПАТОЛОГИИ ГОЛОВНОГО МОЗГА: ПРОБЛЕМЫ И ВОЗМОЖНОСТИ //Journal of new century innovations. – 2022. – Т. 10. – №. 5. – С. 181-195.
57. Хамидов О. А., Гайбуллаев Ш. О., Хомидова Д. Д. РОЛЬ УЛЬТРАЗВУКА И МАГНИТНО-РЕЗОНАНСНОЙ ТОМОГРАФИИ В ОЦЕНКЕ МЫШЕЧНО-СУХОЖИЛЬНЫХ ПАТОЛОГИЙ ПЛЕЧЕВОГО СУСТАВА //Uzbek Scholar Journal. – 2023. – Т. 12. – С. 125-136.
58. Хамидов О.А. Оптимизация лучевой диагностики повреждений мягкотканных структур коленного сустава и их осложнений, Американский журнал медицины и медицинских наук. 2020;10 (11):881-884. (In Russ.)
59. Хамидов, О. А., Жураев, К. Д., & Муминова, Ш. М. (2023). СОНОГРАФИЧЕСКАЯ ДИАГНОСТИКА ПНЕВМОТОРАКСА. World scientific research journal, 12(1), 51-59.
60. Якубов Д. Ж., Гайбуллаев Ш. О. Влияние посттравматической хондропатии на функциональное состояние коленных суставов у спортсменов. Uzbek journal of case reports. 2022; 2 (1): 36-40. – 2022.