BALIQ KASALLIKLARI VA ULARGA QARSHI KURASH CHORA-TADBIRLARI

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Annotatsiya: Baliq go‘shti dunyoda sifatli oqsilga boy maxsulotlaridan biri xisoblanadi. Shuning uchun ham bugungi kunda baliqchilikni rivojlantirish Respublikamizda bo‘yicha keng olib borilmoqda. Suv havzalaridan oqilona foydalanish maqsadida juda ko‘plab baliqchilik fermer ho‘jaliklari tashkil etilmoqda. Shu bilan birgalikda baliqlarni kasalliklari ham ko‘payib bormoqda. Shundan kelib chiqib kasalliklarni keltirib chiqarayotgan omillar va shu bilan birgalikda parazitlarni o‘rganishni taqazo etmoqda.

Аннотация: Мясо рыбы считается в мире одним из высококачественных белковых продуктов. Именно поэтому сегодня в нашей республике широко осуществляется развитие рыбного хозяйства. С целью рационального использования водных объектов создается большое количество рыбных хозяйств. В то же время увеличивается заболеваемость рыб. Исходя из этого, факторы, вызывающие заболевания, и вместе с этим изучение паразитов.

Abstract: Fish meat is considered one of the world's high-quality protein-rich products. That is why today the development of fisheries is widely carried out in our Republic. A large number of fish farms are being established for the purpose of rational use of water bodies. At the same time, fish diseases are increasing. Based on this, the factors that cause diseases and, together with this, the study of parasites.

Kalit so‘zlar: Parazit, gelmint, patogen, ekstinsivlik, intensivlik, dominant, zararlanish, ekotizim, zararlanish, populyasiya.

Bugungi kunda jahon aholisi sonining keskin o’sib borishi muvofiq tarzda oziq-ovqatga, xususan, baliq mahsulotlariga mavjud talabni tobora ortishiga olib kelmoqda. Respublikamizda ovlanadigan va yetishtiriladigan tovar baliq maxsuloti oziq-ovqat sanoatidan tashqari, tibbiyot hamda qishloq xo’jaligi ehtiyojlarini qondirish uchun xizmat qiladi. Xususan, O’zbekistonda baliq resurslaridan samarali foydalanish tizimini yaratish va iste’mol bozorini to’ldirish masalasi alohida ahamiyatga kasb etib, shu bilan bir qatorda oziq-ovqat xavfsizligi chora-tadbirlarini ishlab chiqish muhim ahamiyat kasb etadi. Suv havzalaridan foydalanish bilan bevosita bog’liq antropogen ta’sirning kechishi jarayonida ekotizimlarda sifat va miqdoriy o’zgarishlar sodir bo’lmoqda.

Ov ahamiyatidagi va yetishtiriladigan baliqlarni keng miqyosda parazitlar, shu jumladan, gelmintlar tomonidan zararlanishi baliq populyatsiyalarini qisqartirib, baliq mahsuldorligini pasaytiradi va oqibatda, suv havzalaridagi epizootik holatni yomonlashtirgan holda katta iqtisodiy zarar keltirib chiqaradi.

Bu borada, suv havzalarida baliqlarga jiddiy zarar yetkazadigan gelmintlarning taksonomik tahlili, patogen turlarning aniqlanishi, ularga qarshi kurash choralarini ishlab chiqish ustuvor yo’nalishlardan biridir.

Karp ligulyozi. Qo‘zg‘atuvchisi - *Ligula intestinalis* sestodasining lichinka (pleroserkariy)lari. Pleroserkariylar tanasida segmentasiya aniq sezilmaydi, visseral qismida ichak metameriyasi aniq ajralib turadi.

Odatda baliqlarning mazkur remneslar bilan ommaviy zararlanishi suv havzalarida ro‘y berib, bu xodisa baliqlarning ko‘plab qirilib ketishiga sabab bo‘ladi. Dastlab parazitning tuxumlaridan kunning eng yorug‘ vaqtida sistiserkoidlar chiqadi. Ular ikki bosqichli oraliq xo‘jayinga ega gelmintlar hisoblanadi, bulardan birinchi oraliq ho‘jayini suvda yashovchi

bo‘g‘imoyoqlilar tipiga mansub turli vakillar bo‘lib, mazkur hayvonlarning tanasida korasidiylardan onkosfera rivojlanadi. Ikkinchi oraliq xo‘jayinlar - planktonxo‘r baliqlarning tanasida pleroserkoidlar shakllanadi. Pleroserkoidlarning o‘lchamlari ancha yirik bo‘lib, invazion bosqichgacha yetadi. Pleroserkoidlar bilan zararlangan baliqlarni suv qushlari iste’mol qilib, mazkur qushlarning ichagida 3-5 kundan so‘ng lichinkalar shakllanib, jinsiy voyaga yetadi va tashqi muxitga tuxumlarni chiqara boshlaydi.

Tabiiy suv havzalarida qamish hamda boshqa suv o‘simliklari o‘sadigan joylarda parazitlarning definitiv, ya’ni yakuniy xo‘jayinlari bo‘lmish suvda suzuvchi qushlar jamlanishi tufayli bunday joylarda mazkur kasallik tarqalishi holati tez-tezkuzatiladi.

Ligula intestinalis karpning ichaklarida parazitlik qiladi. Zararlangan baliqlarda harakatlanish sustligi, yonmachasiga yoki orqamacha suzish, qorin-ning ishishi va ishtaxaning pasayishi kabi belgi-alomatlar ko‘zga tashlanadi. Adabiyot manba’larida ko‘rsatilganidek, mazkur gelmint turining muhim patologik belgilaridan fibroz, turli tana ichki a’zolarining yallig‘lanishi yoki atrofiyasi (yemirilishi) ni ta’kidlash lozim. Bularning natijasida ichki a’zolarning bir-biriga aralashishi va o‘zaro siqilishi oqibatida tananing ichki bo‘shlig‘ida qon bilan aralash assitik suyuqlik to‘planishi sodir bo‘ladi. Aynan shu jarayon qorin qismining kattalashuviga olib keladi.

Tadqiqotimiz jarayonida Sariqamish ko‘lida sazanda larval ko‘rinishda (IE- 9,3 %, II- 2-10 dona) va G‘arbiy Farg‘ona qismida “Solijon Norbo‘tayev” baliqchilik xo‘jaligida hamda “Beshariq baliq” MCHJ hovuzlarida yetishtirilayotgan oq do‘ngipeshonaning qorin bo‘shlig‘ida voyaga yetgan individlarda (IE – 23,7 % gacha, II3-38 donagacha, IEV 0,37**)** hamda Markaziy Farg‘ona suv omboridagi oq do‘ngipeshonaning tana bo‘shlig‘ida (IE – 5,0 %, II2-10 dona) qayd qilingan.

Davolashda dronsit (Bayer prazikvanteli) hamda alben (20%) preparatlari keng qo‘llaniladi. Dronsitni baliqlarning 1 kg tana vazniga 5 mg dozada baliqlar yemiga aralashtirib yoki granulalar ko‘rinishida to‘g‘ridan- to‘g‘ri beriladi. 10 mg\litr miqdoridagi davolash vannalarida 3-48 soat davomida dezinfeksiyalanadi. Alben (20%) dori preparatini qo‘llashda, 1 tonna yemga 4 kg alьben kukini arlashtirilib tayyorlanadi. Bu aralashmani tayyorlashda, 7-10 litr suvga 1 kg alben kukini va 250 kg ozuqa solinadi va mikserda aralashtiriladi. Tayyorlangan, yemning preparat bilan aralashmasi baliqlarga kuniga 100 kg baliq vazniga 5 kg hisobidan beriladi.

Kasallangan baliqlar bezovtalanish harakatlarini qila boshlaydi. Shuning uchun ham baliqlar ligulyozi ba’zan “baliqlar quturishi” deb ham ataladi.

Baliqlarning ligulyoz va digrammozini profilaktika qilishda quyidagi jixatlarga e’tibor karatish lozim:

baliqchilik xo‘jaliklarida baliqxo‘r qushlarni, xususan, oddiy baliqchini (*Larus ridibundus*) cho‘chitib xaydashni tashkil etish va shu yo‘l bilan ularning uya qurishiga imkon bermaslik;

baliqchilik ahamiyatiga ega bo‘lgan ko‘llarda va suv havzalarida baliqchi qushlarning koloniyalarini ko‘chib kelishining oldini olish;

baliqxo‘r qushlarning uya qurishini oldini olish maqsadida suv havzalari atrofidagi baland o‘sgan o‘tlarni o‘rib tashlash;

suv havzalarida ligulidozlar bilan zararlangan baliqlar uchraganida, sun’iy ko‘llarda suv satxini pasaytirish va barcha baliqlarni tutib, boshqa suv havzasiga ko‘chirish tavsiya etiladi; suv havzasining tubi quritiladi va sanitar ishlov beriladi; kelgusi yilda sog‘lom suv havzalariga baliq chavoqlari (uvildiriqlari) tashlanadi;

kasallangan baliqlar to‘plangan joylar aniqlanadi va ularni tutish tashkil etiladi. Kasallangan baliqlar suv havzalaridan yo‘qotiladi;

Тадқиқот натижасида шундай хулосага келиш мумкинки балиқчилик фермер

хўжаликларида кўп учрайдиган касалликларни аниқлаш, балиқларга жиддий зарар келтираётган турларни аниқлаб уларга қарши антигельминтик дори препаратларини қўллаш ва ҳовузларда доимий равишда профилактика ишларини олиб бориш керакligulyoz bo‘yicha nosog‘lom xo‘jaliklarda sudak *(Stizostedion lucioperca)* ni ko‘paytirish tavsiya etiladi, chunki bu baliq turi invaziyalarga chalinmaydi.

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