TOSHKENT TIBBIYOT AKADEMIYASI «O'QUV VA ILMIY TIBBIYOT JURNALI»

TASHKENT MEDICAL ACADEMY «JOURNAL OF EDUCATIONAL AND SCIENTIFIC MEDICINE»

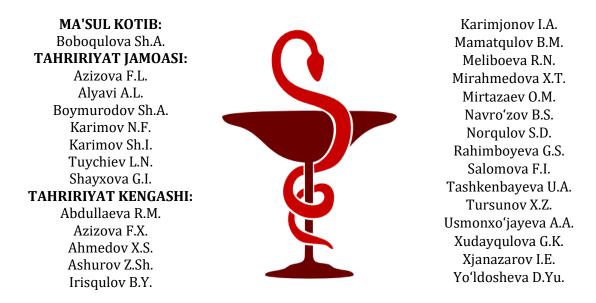
IXTISOSLASHUVI: «TIBBIYOT SOHASI»

(ISSN 2181-3175) Berilgan sanasi: 31-01-2022

Mazkur hujjat Vazirlar Mahkamasining 2017 yil i5 sentabrdagi 728-son qarori bilan tasdiqlangan O'zbekiston Respublikasi Yagona interaktiv davlat xizmatlari portali to'g'risidagi nizomga muvofiq shakllantirilgan elektron hujjatning nusxasi hisoblanadi.

№ 1 (05), 2022 (Том 1)

BOSH MUHARRIR – Shadmanov A.K. **BOSH MUHARRIR O'RINBOSARI** – Oxunov A.O.



Публикации в журнале учитываются как опубликованные работы при защите диссертаций на соискание ученых степеней Узбекистана и зарубежья.

К публикации принимаются статьи, ранее нигде не опубликованные и не представленные к печати в других изданиях. Статьи, поступившие в редакцию, рецензируются. За достоверность сведений, изложенных в статьях, ответственность несут авторы публикаций. При использовании материалов ссылка на журнал и авторов статей обязательна.

Материалы публикуются в авторской редакции.

Tahririyat manzili:

Tashkent Medical Academy 100109, Tashkent, Uzbekistan Farabi street 2 Helpline: +99878-150-7825: Fax: +998 78 1507828 Email:info@tma.uz

<i>Khasanov Kh., Alikhodjayeva G., Yakubov J., Babakhanov B., Jurakulov E., Takeuchi K.</i> Expanded endonasal transsphenoidal surgery for the resection of tuberculum sellae meningioma. Description of surgical technique and review of literature	93
<i>Alikhodjayeva G.A., Akhmediev T.M.</i> Clinical characteristics of intramedullary spinal cord tumors of various histological structures (literature review)	
<i>Navruzov_S.N., Navruzov B.S., Khodzhimukhamedova N.A., Khakimov A.M. Rakhmonov S</i> <i>Vokhidov_U.G.</i> Modern minimally invasive approaches in the surgical treatment of hemorrhoids (literature review)	
Bobokulova Sh.A. Treatment of acute purulent-destructive lung diseases considering the assessment of the degree of impairment of non-respiratory lung function	
Bilalov E.N., Oripov_O.I. Ophthalmology: yesterday, today and tomorrow	127
<i>Khudaiberganova N.Sh.</i> Long-term results of patients with deformation of the anterior abdominal wall after abdominoplasty	133
Matmurotov K.J., Sattarov I.S. Critical ishcemic attack of arterial basin in type 2 diabetes mellitus	137
<i>Alikhodjayeva G.A., Akhmediev_T.M.</i> State-of-the-art in the treatment of extradural spinal tumors	142
Okhunov A.O., Khudaibergenova N.Sh., Kasimov U.K., Atakov S.S., Bobabekov A.R., Boboev K., Abdurakhmanov F.M. Optimization of the educational process at the department of general surgery	148

TREATMENT OF ACUTE PURULENT-DESTRUCTIVE LUNG DISEASES CONSIDERING THE ASSESSMENT OF THE DEGREE OF IMPAIRMENT OF NON-RESPIRATORY LUNG FUNCTION

Bobokulova Shokhista Abdualimovna

Program of pre-operative preparation was developed based on examination and treatment of patients with acute purulent destructive pulmonary diseases (APDPD) with regard to process phase (Group 1 - septic process flow, Group 2 - stabilization, Group 3 - remission), endotoxemia severity, and non-respiratory function of lungs (NRFL). Group I patients under basic long-term intra-arterial catheter-based therapy (LIACT) followed our developed NRFL correction scheme and treated suppurative focuses with electrolyzed sodium hypochlorite solution. It has proven to be efficient for 202 (79,9%) out 254 Group 1 patients, enabling withdrawal from surgery, while only 52 (40.6%) of Group 2 patients and 26 (31.3%) of Group 3 patients have not undergone surgery. Simultaneously, clear NRFL malfunction degree correction augmenting impact was achieved accompanied by limiting and stabilizing the process. It has enabled to limit lung resection numbers to 109 (60.9%) out of 179 Group 1 patients who undergone surgery with 8,7% of surgical complications comparing to 18.4% for Group 2 and 24,6% for Group 3, emphasizing the efficiency of the pre-operative preparation strategy we proposed.

В процессе обследования и лечения 465 больных с острыми гнойно-деструктивными заболеваниями легких (ОГДЗЛ) разработана программа предоперационной подготовки, учитывающая фазу процесса (I группа - септическое течение процесса, II - стабилизация, III - ремиссия), выраженность эндотоксикоза и нереспираторную функцию легких (НФЛ). Больным I группы на фоне базовой длительной внутриартериальной катетерной терапии (ДВАКТ) применяли разработанную нами схему коррекции НФЛ, санировали гнойные очаги электролизированным раствором гипохлорита натрия. Эффективной, позволившей отказаться от операции, она оказалась у 202 (79,9%) из 254 больных I группы, тогда как во II не оперированы только 52 (40.6%), а в III - 26 (31.3%) пациентов. Параллельно достигнут выраженный нормализующий эффект коррекции степени нарушения НФЛ (СННФЛ) на фоне отграничения и стабилизации процесса. Это позволило у 109 (60.9%) из 179 прооперированных больных ограничиться резекцией легких с 8.7% послеоперационных осложнений в I группе против 18.4% во II и 24,6% в III, что подчеркивает эффективность предложенный нами предоперационной подготовки.

O'pkaning o'tkir yiringli-destruktiv kasalliklari (O'PYD) bilan og'rigan 465 nafar bemorni tekshirish va davolash jarayonida jarayonning fazasini (I guruh - jarayonning septik yo'nalishi, II barqarorlashtirish) hisobga olgan holda operatsiyadan oldingi tayyorgarlik dasturi ishlab chiqildi. , III - remissiya), endotoksikozning og'irligi va o'pkaning norespirator funktsiyasi (O'NF).). I guruh bemorlari asosiy uzoq muddatli arterial kateter terapiyasi (DVACT) fonida biz tomonidan ishlab chiqilgan O'NF tuzatish sxemasidan foydalandilar, yiringli o'choqlar natriy gipoxloritning elektrolizlangan eritmasi bilan sanitarizatsiya qilindi. I guruhdagi 254 nafar bemordan 202 nafarida (79,9%) samarali bo'lib, bu operatsiyani rad etish imkonini berdi, II guruhda esa atigi 52 (40,6%) bemor operatsiya qilinmagan, III guruhda esa 26 nafar bemor operatsiya qilinmagan. (31,3%) bemorlar. Shu bilan birga, jarayonni chegaralash va barqarorlashtirish fonida O'NF buzilish darajasini (O'NFBD) tuzatishning aniq normallashtiruvchi ta'siriga erishildi. Bu operatsiya qilingan 179 nafar bemorning 109 nafariga (60,9%) o'pka rezektsiyasi bilan cheklanishiga imkon berdi, I guruhda operatsiyadan keyingi asoratlarning 8,7% ga, II guruhda 18,4% va III guruhda 24,6%, bu biz taklif qilgan operatsiyadan oldingi tayyorgarlik samaradorligini ta'kidlaydi. Surgeons' dissatisfaction with the outcomes of acute purulent destructive pulmonary diseases (APDPD) treatment is determined by sustainably high mortality rates (up to 70%) in its gangrenous forms spurred numerous researches on various aspects of pathogenesis and treatment of this disease [1,2,3,4].

With the progress in resuscitation and intensive care recently a combination of features of various bodies and systems malfunction is noted while APDPD treatment, defined by practicing clinicians as multiple organ failure [5,6,7].

We think that non-respiratory malfunction of lungs (NRFL) remains underestimated comparing to the other mechanisms of this syndrome development, though the lungs are the main protective barrier preventing spread of infection and intoxication with further disruptions in critical systems of an organism [8,9,10].

APDPD treatment is complex, long-term process accompanied by a number of complications. Moreover, there is still a lack of consensus on treatment of APDPD. Usually, treatment starts with intensive comprehensive therapy with antibacterial medicines, non-specific anti-inflammatory drugs, detoxification therapy, tracheobronchial tree suction, correction of metabolism dysfunctions [11,12]. Lack of effect obtained from such treatment made within 3 weeks, process chronicity occurring, according to various authors, within 6-14 weeks term from the beginning of the disease, life-threating complications are considered as indications for surgery [18,19]. Significance the researchers attach to these criteria is far from being unambiguous.

The above determined a purpose and tasks of this research, which is a clarification of indications for conservative pre-operative treatment for patients with APDPD with the regard to NRFL malfunctions in order to improve direct and long-term outcomes of invasive treatment.

465 APDPD patients (age 28-60) were examined divided by clinic groups. Group I included 254 (54.6%) patients with clear clinic manifestation of inflammatory lung destruction process. These patients underwent targeted correction of NRFL as per the method we developed alongside with long-term selective intra-arterial catheter therapy (LIACT).

Group II was composed of 128 (27.5%) patients on stabilized path treated using conventional LIACT scheme with commonly accepted metabolism dysfunctiobs correction [13,14].

Group III included 83 (17.9%) patients underwent conventional treatment in other hospitals and transferred to our clinic to proceed with the treatment due to inflammatory process remission. Such disbursement of APDPD patients reflects different stages of developing and introduction of these diseases diagnostics and treatment methods in the clinic of Tashkent Medical Academy.

Overwhelming majority of the patients -341 (73,3%) persons were hospitalized within 2,5 months since the beginning of a disease, 119 (25,6%) patients were exposed to it up to 3 months and only 5 (1.1%) patients experienced it for a longer time.

A group of researchers from our Academy developed quantitative NRFL dysfunction extent assessment method - NRFLDE (compensatory, subcompensatory and de-compensatory degree of NRFL) for patients with chronic non-specific inflammatory lungs diseases based on integral indicators of albumen, globulin, general phospholipid and lipids, phosphatidylcholine and sphingomyelin blood content. We used this method with minor supplements and modifications, reflecting an extent of inflammatory process in bronchopulmonary system, mainly of bacteria-induced origin, while treatment of APDPD patients.

Formalized research data we're integrated into a following formula, describing NRFLDE in APDPD patients:

NRFLDE = ((AGR/2,3)-0,12) + (FLR/0,6)+(PCER/2,4)+(LII/0,8)+(3/R)+(3/S)

with AGR - Albumen-globulin ratio FLR - Phospholipid and lipid ratio PCER - Phosphatidylcholine-ethanol ratio LII - Leukocytal intoxication index R - Radiography examination data

S - Amount and features of sputum.

Comprehensive clinic and biochemical examination in APDPD patients at conservative and invasive treatment stages enabled to conclude that they were initially exposed to a certain NRFLDE, complicated at early post-invasive stage due to apostem in pulmonary parenchyma, impact of surgical invasion and general anaesthesia factors.

The major rule in treatment of patients with APDPD is early endobronchial or transthoracic drainage and purulonecrotic lung focus sanation fulfilled in proper manner. In 54,3% cases these sanation methods were employed simultaneously.

Intravenous infusion of fatty emulsions (Nirpid) and protein synthesis enhancing drugs (PSED) was prescribed for Group I patients due to NRFLDE by means of daily intra-arterious drip injections of 100 ml of 10% albumen or alvezin solution with intramuscular injection of Retabolil. 286 (61,5%) of patients with APDPD were treated based on conventional method obtaining certain positive results, 179 (38,5%) patients underwent surgery.

163 (78,4%) out of 208 Group I patients fully recovered, clinic remission was observed in 39 (18,7%) APDPD patients. Only 6 (2.9%) patients showed further progress of a disease.

Only 4 (15.4%) out of 26 Group III patients fully recovered without surgery and 8 (30.8%) patients demonstrated clinic remission. Noteworthy, positive impact was achieved mostly in patients in severe condition. So far, 202 (97,1%) Group I patients fully recovered and showed sustainable clinic remission. Treatment proved to be ineffecient for 6 (2.9%) hospitalized with extensive course of a disease, clearly observed endotoxification and respiratory failure; the disease extended further resulting in their death of septic shock. Conventional treatment brought modest results in Group II: only 16 (30.8%) patients fully recovered. Clinic remission was observed in 20 (38.5%) patients, treatment produced no impact on 14 (26.9%) patients, while 2 (3.8%) patients faced further advancement of a disease, resulting in death. 12 (46.1%) patients undergone treatment in Group III fully recovered and demonstrated clinic remission, while for 14 (53.8%) patients treatment proved to be ineffecient. In general, conventional treatment was efficient for 250 (87.4%) patients. 183 (64%) of them fully recovered, 67 (23.4%) withdrew from surgery upon achieving clinic remission. 28 (2,8%) patients showed no results from treatment, while 8 (2,8%) patients saw extension of pathological process with treatment measures producing no impact, and patients died due to various causes.

179 (38,5%) APDPD patients underwent surgery. 46 (18,1%) of them were from Group I, 76 (59.4%) from Group II and 57 (68.7%) from Group III. Lobectomy was a main type of surgery being performed in 109 (60,9%) patients. Extended surgeries such as pneumonectomy, bilobectomy and lobectomy with segment resection were made in 70 patients. Prevailing number of organ-saving surgeries we explain with LIACT ensuring limitation and stabilization of destructive process in lungs [15].

Noteworthy, all the invasive treatment undertaken were complex and traumatic determining post-operational complications for 32 patients. Majority of complications were related to bronchial patency dysfunction, causing atelectasis and pneumonia for the remaining part of a lung (13 and 5 respectively).

Empyema alongside with bronchial stump fistula occurred in 2 patients. Excessive cavity in early post-operstional period emerged in 4 (2.23%) patients as an outcome of incomplete spread of the remaining part of a lung. Post-operstional bleeding were recorded in 1 (0,56%) patient.

Pulmonary Artery Thromboembolism was a cause of death for 3(1,7%) patients underwent surgery. Complications caused by post-operational wound were rare, encountered in 2 (1.12%) patients. Recording number and type of post-operational complications, we emphasize that they were observed in 14(24.6%)examined patients from Group III, 14 (18.4%) patients from Group II and 4 (8.7%) patients from Group I. Analyzing and explaining the outcomes of conventional and invasive treatment in APDPD patients we examined dynamics of clinic manifestations of inflammatory process at all major stages of treatment. 46 (25,7%) out of 179 patients underwent surgery in the clinic were hospitalized with clear clinic manifestations of inflammatory process, which required intensive preparatory treatment with the regard to NRFLDE.

Employing conservative corrective methods the disease course was stabilized and remission was achieved in 171 (95,5%) patients. Disease course was stabilized in 42 (23,46%) Group I patients, remission was recorded in 3 (1,68%) Group I and 14 (7,82%) Group II patients, pre-treatment produced no impact only in 1 Group I patient, while 7 patients with stabilized course experienced advancement of a disease. These patients underwent emergency surgery. So, by the time of surgery number of APDPD patients with clear manifestations of inflammatory process reduced to 4.47% as an outcome of conventional treatment, while stabilization number increased to 54.19%, remission was achieved in 41.3% patients, proving efficiency of proposed conventional treatment actions, though the explanation is still lacking on why pre-treatment outcomes in Group II and Group III APDPD patients were relatively worse comparing your those with clear clinic manifestation of a disease. As we as stated above, APDPD patients have a certain NRFLDE which is reflected in various combinations of dysfunction in systemic homeostasis and local protective reactions. Considering that compensatory and subcompensatory NRFLDE is usually a dynamic and reversible process [16] and pulmonary dysfunctions can vary across APDPD patients we examined NRFLDE within clinic groups.

We identified that 179 (38,5%) Group I patients had severe and moderate pulmonary compensatory dysfunctions specific to changes, while 75 (16,1%) patients had subcompensatory dysfunctions. Decompensatory NRFL dysfunctions were not recorded in Group I patients. 98 (21,1%) Group II patients were revealed to have compensatory NRFL dysfunctions, subcompensatory dysfunctions were rarely observed, recorded in 18 (3,9%) patients, decompensatory changes were even more rare, identified in 12 (2,58%) examined patients.

Decompensatory and subcompensatory types were specific to Group III APDPD patients recorded in 56 (12%) and 27 (5,8%) persons respectively. Data provided prove that clinically defined stabilization and remission of a process in APDPD patients in majority of cases are not accompanied with pulmonary dysfunction normalization. This requires appropriate treatment for APDPD patients considering the NRFLDE as per rehabilitation requirements [17].

As such, it ensure a growing number of fully recovered patients and patients experienced remission, and in staged invasive treatment facilitates reducing number of pyoinflammatory complications in post-operational period, improves direct and long-term outcomes of a treatment.

Conclusions:

1. Conventional treatment was efficient for 250 (53,76%) APDPD patients. 183 (64%) of patients fully recovered;

2. Conventional corrective pre-treatment we proposed enabled to stabilize process and achieve pre-surgery remission in 171 (95,6%) APDPD patients underwent surgery;

3. Efficient pre-treatment based on NRFLDE provide limitation and stabilization if inflammatory process, enabling organ-saving lung resection in 109 (60,9%) APDPD patients with 17,9% of complications in post-operational period;

4. Clinic stabilization and process remission is not always accompanied by pulmonary dysfunction normalization, requiring further rehabilitation of the patients considering their NRFLDE.

REFERENCES:

1. Shoikhet Ya.N. Treatment of acute abscess and gangrene of the lung. Pulmonology. 2002. No. 3. S. 18-27.

2. Grigoriev G. acute abscess and gangrene of the lung. Sib Med Zhurn. 2013; (8): 123-29. https: // cyberleninka.ru/article/v/ostryy-abstsess-i-gangrenalegkogo

3. Marra A, Hillejan L, Ukena D. Management of Lung Abscess. Zentralbl Chir. 2015 Oct; 140 (Suppl 1): S47-53. doi: 10.1055 / s-0035-1557883 [Article in German]

4. Zhang JH, Yang SM, How CH, Ciou YF. Surgical management of lung abscess:

from open drainage to pulmonary resection. J Vis Surg (JOVS). 2018; 4: 224. doi: 10.21037 / jovs.2018.10.14 4. Azorin JF, Francisci MP, Tremblay B, Larmignat P, Carvaillo D. Closure of a postpneumonectomy main bronchus fistula using video-assisted mediastinal surgery. Chest. 1996 Apr; 109 (4): 1097-98. doi: 10.1378 / chest.109.4.1097

5.Piksin I.N. Ozone therapy, heparin cryoprecipitate pheresis and AUFOK in the treatment of purulent-destructive diseases of the lungs and pleura. Materials of the V All-Russian scientific and practical conference "Ozone in biology and medicine". Nizhny Novgorod. 2003.S. 32-33.

6. Khrupkin V.I., Gostishchev V.K., Zolotarev D.V., Degtyareva E.V. Thoracoscopic methods in the complex treatment of nonspecific pleural empyema and purulent-destructive lung diseases // Surgery. Journal them. N.I. Pirogova. - 2014. -№10. - S. 15-20.

7. Gorokhova N. Yu. Pathogenesis of lung injuries in turnstile shock and ways of their correction / N. Yu. Gorokhova, V. Z. Kharchenko, A. K. Zagorulko, A. V. Kubyshkin // Experimental and clinical medicine. 2001. No. 1. P. 52–54

8. Trizno N.N., Golubkina E.V., Trizno M.N., Dyukareva O.S. The state of the hemostasis system in rats after chronic intoxication with hydrogen sulfide gas // Modern problems of science and education. 2017. No. 4. URL: http://scienceeducation.ru/ru/article/viewid = 26683 (date of access: 23.07.2018).

9. Lambrecht B.N. Hammad H. Asthma and coagulation // N. Engl. J. Med. 2013. Vol.369, No. 20. P.1964-1966. doi: 10.1056 / NEJMcibr1311045

10 Bont L., Kimpen J. L. Immunological mechanisms of severe respiratory syncytial virus bronchiolitis. Intensive Care Med. 2002; 28 (2): 616-21. ...

11. Semykin S.Yu., Postnikov S.S., Polikarpova S.V., Dubovik L.G., Saghatelyan M.A. Problems and prospects of antibiotic therapy for chronic Pseudomonas aeruginosa infection in patients with cystic fibrosis. Questions of modern pediatrics. 2010; 9 (2): 94-8. 12. Acute Respiratory Distress Syndrome Network. Ventilation with lower tidal volumes as compared with traditional tidal volumes for acute lung injury and the acute respiratory distress syndrome. N. Engl. J. Med. 2000; 342: 1301-8.

13. Okhunov A.O., Khamdamov Sh.A., Okhunova D.A. Differentiated approach to the treatment of lung abscesses. An innovative step towards solving a problem. / Publishing house LAP LAMBERT Academic Publishing RU, 2018.104 p.

14.Neto A.S., Hemmes S.N., Barbas C.S., Beiderlinden M., Fernandez-Bustamante A., Futier E. et al. PROVE Network Investigators. Association between driving pressure and development of postoperative pulmonary complications in patients undergoing mechanical ventilation for general anesthesia: a meta-analysis of individual patient data. Lancet Respir. Med. 2016. pii: S2213-2600 (16) 00057-6. [Epub ahead of print]

15. Okhunov A.O., Pulatov U.I., Okhunova D.A. A case of clinical features of a purulent-inflammatory soft tissue disease associated with diabetes mellitus // XLI International correspondence scientific and practical conference "European research: innovation in science, education and technology", 2018. P. 88-92. ...].

16. Serpa Neto A., Nagtzaam L., Schultz M.J. Ventilation with lower tidal volumes for critically ill patients without the acute respiratory distress syndrome: a systematic translational review and metaanalysis. Curr. Opin. Crit. Care. 2014; 20: 25–32

17. Canet J., Gallart L., Gomar C., Paluzie G., Valles J. et al. ARISCAT Group. Prediction of postoperative pulmonary complications in a population-based surgical cohort. Anesthesiology. 2010; 113: 1338-50.

18. Slutsky A.S., Ranieri V.M. Ventilator-induced lung injury. N. Engl. J. Med. 2013; 369: 2126-36

19. Beloborodova N.V. Algorithms for antibacterial therapy of severe infections // Method. Recommendations. Ed. M., 2002.30p.

OPHTHALMOLOGY: YESTERDAY, TODAY AND TOMORROW

Erkin N. Bilalov, Okilkhon I. Oripov Department of Ophthalmology Tashkent Medical Academy

Реферат. Наполнение копилки научных знаний, касающихся новых аспектов этиопатогенеза, методов диагностики, медикаментозного и хирургического лечения заболеваний глаз, не прерывается ни на один день. Внешние обстоятельства, включая и ту эпидемиологическую обстановку, в которой мы живем на настоящий момент, могут лишь затруднить, но никак не остановить данный процесс. Одним из непреложных постулатов офтальмологии, как, впрочем, и всей медицинской специальности, является необходимость непрерывного совершенствования врача-специалиста, основанного на обмене накопленной информацией и внедрении полученного опыта в клиническую практику.

Abstract. The filling of the piggy bank of scientific knowledge concerning new aspects of etiopathogenesis, diagnostic methods, medical and surgical treatment of eye diseases is not interrupted for a single day. External circumstances, including the epidemiological situation in which we currently live, can only complicate, but in no way stop this process. One of the immutable postulates of ophthalmology, as, indeed, of the entire medical specialty, is the need for continuous improvement of a specialist doctor based on the exchange of accumulated information and the implementation of the experience gained in clinical practice.

Xulosa. Ko'z kasalliklarini etiopatogenezning yangi jihatlari, diagnostika usullari, tibbiy va jarrohlik davolash bo'yicha ilmiy bilimlar fondini to'ldirish bir kunga ham to'xtatilmaydi. Tashqi sharoitlar, jumladan, biz hozir yashayotgan epidemiologik vaziyat faqat murakkablashtirishi mumkin, ammo bu jarayonni hech qanday tarzda to'xtata olmaydi. Oftalmologiyaning o'zgarmas postulatlaridan biri, haqiqatan ham, butun tibbiy mutaxassislik kabi, to'plangan ma'lumotlar almashinuvi va klinik amaliyotda to'plangan tajribani amalga oshirish asosida shifokorni doimiy ravishda takomillashtirish zarurati.

> «Of all the human sense organs, the eye has always been recognized as the best gift and most wonderful work of the creative power of nature. Poets have sung about it, orators have praised it, philosophers have glorified it as a measure of what organic forces are capable of, and physicists have tried to imitate it as an unattainable model of optical instruments».

G. Helmholtz

Brief outline of the history of ophthalmology. The beginnings of the ancient science of eye diseases existed in Egypt, India, China for 5000 years BC. The Bible, medical papyri, and written records contain information about a number of eye diseases - strabismus, exophthalmos, thorns, cataracts, trachoma, etc. Pepi Ank Iri, who was born around 1600 BC, is considered the first oculist. The greatest physician of antiquity, Hippocrates, "the father of medicine:" (460-372 BC), pointed out in his writings such eye diseases as glaucoma, cataracts, nystagmus, mentioning a total of twenty eye diseases [1,2].