

ЛД-21 ИН

Federal State Budgetary Educational Institution of Higher Education "North-Ossetian State Medical Academy" of the Ministry of Healthcare of the Russian Federation
(in abbreviated form- FSBEI HE NOSMA MOH Russia)

APPROVED

Rector of the Federal State Budgetary
Educational Institution of Higher
Education "North-Ossetian State Medical
Academy" the Ministry of Health of the
Russian Federation (in abbreviated form-
NOSMA MOH Russia)



O.Remizov

May, 2023

Programme of state educational certification

31.00.00 Clinical Medicine

Specialties 31.05.01 General Medicine

Graduate qualification Medical doctor

Full-time form education

Duration of study 6 years

Vladikavkaz 2023

Programme of state educational certification in the specialty 31.05.01 General Medicine was composed by:

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Gudiev A.O. - Acting Chairman of the Council of Students of the Federal State Educational Institution in SOGMA of the Ministry of Health of Russia
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Programme of state educational certification in specialty 31.05.01 General Medicine was approved at the meeting of the Central Medical Department on May, 23 2023, protocol № 5.

Programme of state educational certification in specialty 31.05.01 General Medicine was approved at the meeting of the Academic Council on May, 24 2023, protocol №8.

Programme of state educational certification is developed on the basis of documents:

Federal law of Russian Federation “Education in Russian Federation” dated 29 of December 2012 N 273- FL

State Federal educational standard of higher education (FSES HE) on preparation (speciality) 31.05.01 General medicine, was approved by the order of the Ministry of Education and Science dated 12th of August 2020 N988

Order of Ministry of Education and Science dated 06.04.2021 № 245 On approval of the Order of organization and implementation of the higher educational programme – Bachelor of Degree programme, Speciality programme, Master’s Degree programme

Order FSBET HE NOSMA Healthcare ministry of Russian Federation “On approval of the Order of organization and implementation of the higher educational programme – Speciality programme of Federal state educational institution of Higher education “North-Ossetia state medical Academy” of the Ministry Of Healthcare of the Russian Federation dated 28.12. 2020 N415

Order of the FSBET HE NOSMA Healthcare ministry of Russian Federation “On approval of the Regulations on the Procedure for Current Monitoring of Academic Performance and Intermediate Certification of the Federal Budgetary Educational Institution VO SOGMA of the Ministry of Health of the Russian Federation”(Appendix 2 to Order № 427/o dated 30.12.2021);

Order of the FSBET HE NOSMA Healthcare ministry of Russian Federation (On approval of the Regulations on independent work of students) dated December 30.12.2021 № 437/o;

Order of the FSBET HE NOSMA Healthcare ministry of Russian Federation “On approval of the Regulations on the point-rating system for assessing the progress of students of the Federal State Educational Institution of the Ministry of Health of Russia” (Appendix 1 to Order № 427/o dated 30.12.2021);

Order № 423/o of the FSBET HE NOSMA Healthcare ministry of Russian Federation dated 30.12.2021 “On approval of the Procedure for the state final certification of educational programs of higher education – speciality programs in the FSBET HE NOSMA Healthcare ministry of Russian Federation;

Order of the FSBET HE NOSMA Healthcare ministry of Russian Federation “On approval of the Regulations on the practice of the Federal State Educational Institution of the

Ministry of Health of the Russian Federation mastering educational programs of higher education – speciality programmes” dated 30.12.2021 № 442/o;

Order of the FSBET HE NOSMA Healthcare ministry of Russian Federation “On approval of the Regulations on conducting a state exam with the use of distance education technologies in the Federal state educational institution of higher educational education “North-Ossetian State Medical Academy” of the Ministry Of Health of the Russian Federation” dated 30.12.2021 № 435/o;

Order of ministry of Health of the Russian Federation N 378 and the Ministry Of Science and Higher Education N 619 dated April 27, 2020;

Regulation of Federal State Budgetary Educational Institution SOGMA of the Ministry Of Health of Russia

In accordance with the Federal Law of the Russian Federation of December 29, 2012 N 273-FZ “On Education in the Russian Federation”, the state final certification of graduated completing higher education programmes is obligatory. The Aim of the certification is to determine the compliance of the graduate’s professional training level with the requirements of the federal state educational standard of higher education, followed by the issuance of a state issued diploma of higher education.

A graduate doctor who has mastered the basic professional educational programme in the speciality 31. 05. 01 “Medical affair” should be able to examine a patient, make a

preliminary diagnosis of a general somatic disease, make a decision to refer him to the appropriate specialists, as well as to perform basic medical diagnostic and therapeutic measures providing first aid in urgent and life threatening situations.

The programme of the state final certification was developed in accordance with the current educational programmes within the framework of curriculum in the speciality. It includes a list of general medical problems, a list of conditions and diseases and a list of practical skills on the basis of which certification tasks and situational clinical tasks are formed.

The list of conditions and diseases is presented in accordance with the educational programmes based on the international Statistical Classification of Diseases and Health-related (ICD -10) problems. The sections of the list of conditions and diseases are built on a systemic principle and combine all pathology related to this organ system in different clinical disciplines.

According to the condition and disease, the graduate must know:

- etiology and pathogenesis;
- modern classification;
- clinical picture, peculiarities of the course and possible complications of disease in different age groups;
- the syndromology of the lesion of various organs and systems using knowledge gained in applied disciplines;
- diagnostic methods enabling to make a diagnose;
- substantiation of patient management tactics, methods of treatment and prevention, determine the prognosis in medicine;

Knowledge of therapeutic measures should include all types of effects: regimen, diet, elimination of causal factors; medical, surgical, physiotherapeutic treatment, radiation therapy, detoxification methods, transfusion treatment, electro-impulse therapy methods, organ transplantation. In relation to all special methods of treatment, including surgical, it is necessary to know the essence of the principles of their carrying and indications for them.

In addition, the graduate should know:

- the basic of organizing outpatient care to the population, inpatient treatment of patients; assistance to victims in the centers of mass losses in the modern healthcare system of Russia;
- basis of insurance medicine organization;
- questions of disability examination organization and medical and legal assistance to the population ;
- the main indicators of medico- diagnostic work of medical prophylactic institutions;
- questions of specific and nonspecific organization and prevention of the main infectious and non-infectious diseases;
- foundation of law concerning health protection of people and providing sanitary - epidemiological welfare in the country;
- organization of medical control over the population health condition.

A graduate doctor must follow the rules of medical ethics, moral and ethical norms of the relationship between health workers and patients.

GENERAL MEDICAL PROBLEMS

Public health and healthcare

Criteria (indicators) of public health and their definition. The main factors determining the health of the population. Types of prevention, main tasks and indicators of its effectiveness.

Methods for studying the health of the population. The role of medical statistics in the study of the state of health of various age and sex groups of the population and the activities of the main medical and preventive health care institutions.

Legal bases of activity of bodies and establishments of health care.

Health care systems, features of health care in Russia.

Basic principles of organization of healthcare institutions, structure and performance indicators. Features of the doctor's work in outpatient and inpatient institutions.

1.2. medical ethics

Moral and ethical standards of relationships doctor-patient, doctor-doctor, doctor-medium and junior medical staff, doctor-patient's relatives. Medical secrecy. Responsibility of a doctor for professional violations.

1.3. Age-sex features of the functioning of the body.

1.4. Sanitary and epidemiological patterns of occurrence, development and spread of diseases.

1.5. The role of immune disorders in the pathogenesis of various diseases, humoral and cellular immunity.

LIST OF CONDITIONS AND DISEASES

I. Infectious and parasitic diseases

Intestinal infections and invasions: typhoid fever, paratyphoid fever, dysentery, salmonellosis, food poisoning, cholera, botulism, viral hepatitis, yersiniosis, amoebiasis, giardiasis, helminthiases.

Airborne infections: ARVI, ARVI croup syndrome, influenza, adenovirus infection, herpes infection, rubella, measles, chicken pox, whooping cough, diphtheria, scarlet fever, mumps, meningococcal infection, infectious mononucleosis, mycoplasma infection, poliomyelitis, tuberculosis.

Transmissible infections: typhus, malaria.

Anthropozoonotic infections: brucellosis, plague, tularemia, anthrax, hemorrhagic fever with renal syndrome, rabies.

Infections of the external integument: erysipelas, tetanus.

Sexually transmitted infections: gonorrhea, syphilis, AIDS (HIV infection), chlamydia, trichomoniasis.

Fungal infections.

II. Neoplasms (for all organ systems, malignant and benign)

III. Diseases of the blood and blood-forming organs

Anemia: posthemorrhagic, iron deficiency, B and folate deficiency, aplastic, hemolytic congenital and acquired (immune and non-immune).

Pancytopenia, agranulocytosis.

Hemorrhagic syndromes: thrombocytopenia, hemophilia, Rendu-Osler disease, hemorrhagic vasculitis, DIC, hemolytic disease of the newborn, radiation sickness.

Hemoblastosis: acute leukemia in children and adults, chronic leukemia, myeloma, polycythemia vera (erythremia); lymphomas (lymphogranulomatosis and others). leukemoid reactions.

transfusion reactions.

Eosinophilia.

IV. Diseases of the endocrine system and metabolic disorders.

Thyroid diseases: endemic goiter, diffuse toxic goiter, adenomas, cancer, thyroiditis, hypothyroidism, myxedema. Hyper- and hypoparathyroidism.

Pituitary-hypothalamic disorders: acromegaly, dwarfism, Itsenko-Cushing's disease, diabetes insipidus.

Diabetes mellitus type 1 and 2, ketoacidosis, hyperosmolar coma, macro- and microangiopathies. Hypoglycemia, hyperinsulinism.

Diseases of the adrenal glands: glucosteroma (Itsenko-Cushing's syndrome), aldosteroma (Conn's syndrome), pheochromocytoma, adrenogenital syndrome, adrenal insufficiency.

Ovarian diseases: hyperestrogenism, hypogonadism, sclerocystic ovarian syndrome (Stein-Leventhal). Mastopathy.

Metabolic disorders: obesity, dyslipidemia, hepatolenticular degeneration (Wilson-Konovalov's disease), hemochromatosis.

V. mental illness

Neuroses (neurasthenia, hysteria), phobias, anxiety, mood disorders.

Disorders related to alcoholism and drug addiction. Alcoholic psychosis, acute alcohol intoxication.

Schizophrenia, manic-depressive psychosis. Involutionary psychosis.

Sexual disorders: vaginismus, hypersexuality, impotence, frigidity.

VI. Diseases of the nervous system

Neuritis and neuralgia, polyneuropathy, discogenic radiculopathy in diseases of the spine.

Vascular diseases of the brain: acute disorders of cerebral circulation (stroke, thrombosis, embolism), subarachnoid bleeding, increased intracranial pressure syndrome; discirculatory encephalopathy, perinatal encephalopathy.

Infectious diseases: meningitis, encephalitis, AIDS (HIV infection), abscess, neurosyphilis, myelitis.

Slow infections: Parkinson's disease, Huntington's chorea.

Miscellaneous: myasthenia gravis, cerebral palsy, migraine, epilepsy.

Enuresis.

VII. Eye diseases

Acute conjunctivitis, dacryocystitis, blepharitis, barley; retinopathy in diseases of internal organs; myopia, hyperopia, strabismus, astigmatism, cataract, glaucoma, keratitis, retinal detachment, blindness.

VIII. Diseases of the ear and mastoid process

Deafness, hearing loss, otitis media, mastoiditis, otosclerosis, acoustic neuritis, Meniere's disease.

IX. Diseases of the circulatory system

Diseases of the endocardium: rheumatic and infective endocarditis, acquired heart defects.

Congenital malformations: patent ductus arteriosus, atrial and ventricular septal defects, tetralogy of Fallot, coarctation of the aorta.

Myocardial diseases: myocarditis, cardiomyopathy, myocardial dystrophy.

Diseases of the pericardium: fibrinous, exudative, constrictive pericarditis, cardiac tamponade, traumatic injuries of the heart.

Arterial hypertension: essential (hypertensive disease), symptomatic. Cardiopsychoneurosis.

Atherosclerosis, dyslipidemia. Ischemic heart disease: angina pectoris, myocardial infarction. Dissecting aortic aneurysm.

Circulatory failure: acute (cardiac asthma, pulmonary edema, shock), chronic congestive.

Violation of the rhythm and conduction of the heart: extrasystole, atrial fibrillation and flutter, paroxysmal tachycardia, ventricular fibrillation, asystole, blockade.

Diseases of peripheral arteries: endarteritis, atherosclerosis, thrombosis, embolism. Diseases of the veins: varicose veins, thrombosis, thrombophlebitis, chronic venous insufficiency, cellulite.

Diseases of the vessels of the lungs: thrombosis and embolism of the pulmonary artery; lung infarction, pulmonary hypertension, cor pulmonale.

X. Respiratory diseases

Diseases of the nose, paranasal sinuses, pharynx, larynx, trachea: rhinitis, sinusitis, pharyngitis, tonsillitis, tonsillitis, peritonsillar abscess; acute laryngotracheitis; obstruction of the larynx, pharynx; injury.

Lung infections: acute bronchitis, pneumonia, abscess, tuberculosis.

Obstructive pulmonary diseases: chronic bronchitis, bronchiectasis; bronchial asthma, pulmonary emphysema; atelectasis, aspiration.

Pneumoconiosis (silicosis, asbestosis and others) and fibrosing diseases (alveolitis, sarcoidosis).

Respiratory failure acute and chronic, incl. acute respiratory distress syndrome in children and adults.

Diseases of the pleura: pleurisy, pneumothorax, hemothorax.

XI. Diseases of the digestive system

Diseases of the oral cavity, teeth, salivary glands, oropharynx. Diseases of the esophagus: reflux esophagitis, diaphragmatic hernia, cardiospasm.

Diseases of the stomach: gastritis, stomach ulcer.

Intestinal diseases: enterocolitis, duodenal ulcer, irritable bowel syndrome, terminal ileitis (Crohn's disease), ulcerative colitis, malabsorption syndrome, appendicitis, intestinal obstruction, thrombosis of mesenteric vessels, diverticulosis, hemorrhoids, anal fissures, paraproctitis. Dysbacteriosis. Gastrointestinal bleeding.

Hernia: esophageal part of the diaphragm, white line of the abdomen, femoral, inguinal, umbilical, postoperative.

Peritonitis.

Diseases of the pancreas: pancreatitis, cystic fibrosis, gastrinoma (Zollinger-Ellison syndrome).

Diseases of the liver and biliary tract: hepatitis, cirrhosis, echinococcosis, abscess, liver failure, jaundice; portal hypertension, ascites. Cholelithiasis, cholecystitis, cholangitis. Postcholecystectomy syndrome. Dyskinesia of the biliary tract.

XII. Diseases of the skin and subcutaneous tissue

Infections of the skin and subcutaneous tissue: furuncle, carbuncle, felon, hydradenitis, abscesses, herpes simplex, herpes zoster; pyoderma, acne; dermatophytosis (trichophytosis).

Inflammatory diseases of the skin and subcutaneous tissue: exogenous dermatitis, eczema, psoriasis, lichen, erythema, urticaria, pemphigus.

Trophic ulcers, gangrene.

XIII. Diseases of the musculoskeletal system and connective tissue

Inflammatory diseases: rheumatism (acute rheumatic fever-ARF, chronic rheumatic heart disease (CRHD), rheumatoid arthritis, ankylosing spondylitis, systemic lupus erythematosus, systemic scleroderma, dermatomyositis/polymyositis, polymyalgia rheumatica, periarteritis nodosa; bursitis, psoriatic arthropathy.

Infectious: osteomyelitis, septic arthritis, tuberculosis of the joints, bones.

Degenerative: deforming osteoarthritis (osteoarthritis), osteochondrosis of the spine,

Dupuytren's contracture, scapular-shoulder syndrome.

Metabolic: osteoporosis, chondrocalcinosis, gout, rickets.

Congenital malformations and developmental defects: congenital hip dislocation; torticollis, scoliotic disease, flat feet, aseptic necrosis of the femoral head, myopathy.

XIV. Diseases of the genitourinary system

Diseases of the urinary system: acute and chronic glomerulonephritis, kidney amyloidosis, nephrotic syndrome; acute and chronic renal failure. Acute and chronic pyelonephritis, urolithiasis, paranephritis, nephroptosis, polycystic, kidney infarction.

Pyelitis, cystitis, urethritis, urinary tract obstruction, hydronephrosis, urinary incontinence, enuresis. Urethral stricture, ureterolithiasis.

Diseases of the male genital organs: prostatitis, adenoma, orchiepididymitis, varicocele, dropsy of the testicle and spermatic cord. Seminoma, cryptorchidism, phimosis, paraphimosis, balanoposthitis, impotence, male infertility.

Diseases of the mammary gland.

Inflammatory and non-inflammatory diseases of the female pelvic and genital organs: vulvitis, Bartholinitis, colpitis, endometritis, salpingo-oophoritis, tubo-ovarian tumors, parametritis, pelvioperitonitis, peritonitis; endometriosis, uterine fibroids, background and precancerous diseases of the female genital organs; amenorrhea, dysfunctional uterine bleeding, algomenorrhea, infertility, acute abdomen in gynecology.

XV. Pregnancy, childbirth, postpartum and neonatal periods Features of the management of pregnancy, childbirth and the postpartum period in their physiological course and in cases of complications. Family planning. Contraception, sterilization.

XVII. Congenital anomalies (malformations), deformities and chromosomal disorders (for all organ systems)

XVIII. Symptoms, signs and abnormalities, not elsewhere classified (Extreme and terminal conditions)

Coma, delirium, dementia, syncope, ataxia, sleep disturbances.

XIX. Injuries

Injuries of various localization. Foreign bodies. Electric shock, frostbite of various localization.

Drowning, hanging; aspiration, compression and other types of asphyxia.

Bites and stings. Anaphylactic shock.

Poisoning with medicinal and toxic substances.

Effects of exposure to heat, light and chemicals.

LIST OF SKILLS OF A GRADUATE DOCTOR

General medical skills

Collection and evaluation of anamnesis:

- social;
- biological;
- genealogical.

Anthropometric examination of the patient:

- measurement of body weight and length, chest circumference, head circumference;
- assessment of the patient's physical development based on the use of data from anthropometric standards and indices.

Psychometric examination and assessment of the neuropsychic development (state) of the patient.

Conducting and evaluating the results of functional stress tests according to Shalkov, Shtanga-Gencha.

Measurement and evaluation of blood pressure, heart rate and breaths per minute in a patient.

Determination of the patient's health group based on a comprehensive assessment of the state of health.

Clinical examination of a healthy and sick patient: examination, auscultation, percussion, palpation.

Collection of material for laboratory research in case of somatic and infectious pathology in a patient: blood, urine, feces, bone marrow, cerebrospinal fluid.

Evaluation of test results:

- general blood test, general urinalysis, according to Nechiporenko, Addis-Kakovsky, Amburzhe, samples according to Zimnitsky, coprograms;

biochemical blood tests for somatic and infectious diseases:

- rheumatological complex (total protein, protein fractions, sialic acid, Veltman test, C-reactive protein, formol test); rheumatological profile (C-reactive protein (CRP); rheumatoid factor (RF); antinuclear antibodies (ANA); antibodies to double-stranded, native DNA (anDNA);

antibodies to Scl-70; anticentromere antibodies (ACA); myositis-specific antibodies; antibodies to cyclic citrullinated peptide (ACCP), antineutrophil cytoplasmic antibodies (ANCA), uric acid;

- renal complex (total protein, protein fractions, cholesterol, urea, residual nitrogen, endogenous creatinine clearance, electrolytes - potassium, calcium, phosphorus, sodium, chlorine);

- hepatic complex (total protein, protein fractions, cholesterol, total bilirubin, its fractions, Veltman test, sublimate test, thymol test, ALT, ACT, alkaline phosphatase);

- acid-base state of the blood;

- fasting blood sugar, blood amylase, urine diastase;

- serological marker spectrum in patients with viral hepatitis A, B, C;

- studies of the immune status in various forms of infectious diseases in a patient;

- research on serum markers for rubella, HIV infection, CMV infection, toxoplasmosis, infectious mononucleosis, etc.;

- samples of Mantoux, Pirquet.

Determination of the blood group according to the ABO and Rh system. Performing a test for:

- individual compatibility of the blood of the donor and the patient;

- suitability of blood, blood substitutes, other solutions for transfusion.

Coagulogram evaluation: clotting time, bleeding duration, heparin tolerance, prothrombin index, prothrombin time, recalcification time.

Evaluation of the results of instrumental research methods:

- ultrasonic scanning;

- gastric and duodenal sounding;

- X-ray examination;

- electrocardiographic study;

- bronchoscopy and bronchography;

- lumbar, sternal, pleural punctures.

Preparation of the patient for X-ray and ultrasound examination of the gastrointestinal tract, urinary system; to endoscopic examination of the gastrointestinal tract and respiratory organs.

Performing a digital examination of the rectum.

Carrying out postural drainage of the bronchi.

Conducting external and internal examination of pregnant women in early and late pregnancy.

Determination of the reaction of pupils to light.

Evaluation of pathological changes identified during the examination of the patient and the formulation of a preliminary diagnosis.

Substantiation of etiological, pathogenetic and post-syndromic therapy in various pathological conditions in patients.

Treatment of the mouth, ears, nose.

Washing eyes.

Foreign body removal:

- from the conjunctiva;
- from the external auditory canal, from the nasal cavity;
- from the oral cavity.

Eye treatment for burns.

Carrying out an anterior tamponade for nosebleeds.

Stop external bleeding by:

- finger pressing of the vessel;
- applying a pressure bandage;
- tourniquet application.

Gastric lavage.

Statement of cleansing siphon and medicinal enemas.

Suction of the contents from the upper respiratory tract (using electrical and mechanical suction).

The imposition of a colostomy bag.

Treatment of bedsores.

Performing drug injections (intramuscularly, subcutaneously, intradermally, intravenously), calculating doses and dilutions of drugs.

Preparation of the system for intravenous infusion and administration of intravenous fluids.

Air duct installation.

Preparation of a set of tools, materials, medicines and primary surgical treatment of the wound.

Bandaging on all areas of the body.

Bandaging of a clean and purulent wound. The imposition of bactericidal dressings.

Use of an individual dressing package.

The imposition of an elastic bandage on the lower limb.

Immobilization for dislocations and fractures of the upper and lower extremities by using:

- improvised means;
- transport tires.

Determination of the correctness of the imposition of a plaster splint.

Performing chest compressions. Demonstration of the technique of working with a defibrillator.

Performing mechanical ventilation by mouth-to-mouth, mouth-to-nose, Ambu bag.

Providing emergency care for:

- burns, frostbite and electrical injury;
- acute respiratory failure at the prehospital and hospital stages;
- acute pulmonary edema;
- poisoning and intoxication;
- burns of the esophagus;
- acute dehydration;
- shock of various origins;
- hyperthermia;
- acute violation of cerebral circulation;
- hypertensive crisis;
- cerebral edema;
- convulsions;
- epileptiform seizure;
- DIC;
- fainting, collapse;
- sun and heat stroke;
- drowning;
- acute allergic reactions;
- an attack of bronchial asthma;
- anginal status;
- diabetic coma;
- an attack of renal colic;
- acute intestinal and respiratory infections;

- Bites by animals, snakes and insects.

Issuance and execution of prescriptions, including preferential ones, for narcotic and equivalent drugs.

Maintain standard medical records.

Organization of nursing work.

Drawing up a plan and conducting sanitary and educational work.

Carrying out anti-epidemic measures in the foci of infection.

Conducting an analysis of the performance of doctors and medical institutions.

CRITERIA FOR ASSESSING THE RESULT OF THE STATE FINAL CERTIFICATION

The results of the state attestation test are determined by the marks "excellent", "good", "satisfactory", "unsatisfactory".

- Excellent - the examinee demonstrates a systematic, deep knowledge of the program material necessary for solving professional problems, knows the scientific language, carries out the presentation of the program material at various levels of its presentation. Correctly diagnoses, taking into account the accepted classification, fully and reasonably answers questions.

- Good - the examinee demonstrates complete knowledge of the program material, is able to justify the conclusions and explain them in a logical sequence, but makes general errors. Correctly diagnoses, but allows inaccuracies in its justification and minor errors in answering questions.

- Satisfactory - the examinee demonstrates a sufficient level of knowledge of the main program material, but makes significant errors in its presentation and / or when answering questions. Oriented in the disease, but cannot make a diagnosis in accordance with the classification.

- Unsatisfactory - the examinee makes multiple mistakes of a fundamental nature when answering questions. Cannot correctly answer most of the questions of the task and additional questions. Unable to formulate a diagnosis or incorrectly diagnoses.

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