

Humanitarian Project of
the State Health Care Institution “Vitebsk City Central Outpatient Clinic”
“On the Way to Health”



X-ray vehicle (Pulmoexpress)

Every year 1.5 million people die from tuberculosis in the world. Tuberculosis and mortality from it continue to pose a serious problem for humanity. Therefore, in the fight against the disease, the main focus is an early detection of tuberculosis and malignant neoplasms in the lungs. The only way to reveal the disease in the early stages of development is still a chest X-ray.

The mobile digital X-ray system is designed to obtain digital X-ray images of the chest organs for the purposes of screening and diagnostic pulmonology, that is, for the early diagnosis of tuberculosis, oncological and other diseases of the chest organs.

Pulmoexpress is ideal for on-site X-ray screening at enterprises, remote settlements and any hard-to-reach regions.

Advantages of an X-ray vehicle are the following:

- high quality and diagnostic value of the digital X-ray image;
- extremely low radiation exposure to the patient and medical staff;
- low operating costs;
- high productivity medical examination;
- the ability to work in computer networks;
- high resistance to transport overloads and vibrations;
- safe working conditions and comfort for medical staff and patients due to the convenient layout of the X-ray room and the admission room;

- high life support system through the use of modern ventilation, air conditioning, lighting, heating systems;
- autonomous water supply system;
- high isothermal properties of the vehicle body for various climatic conditions;
- high radiation safety as the level of radiation around the X-ray room, at the operator's workplace and in the wardrobe does not exceed the natural radiation background.

Mobile Pulmoexpress is designed to solve the following tasks:

- scheduled examination, carrying out preventive measures to prevent diseases and injuries;
- detection of infectious diseases at early stages;
- provision of medical and preventive care and implementation of sanitary and anti-epidemiological measures in rural areas;
- prophylactic medical examination of the rural population.

Mobile X-ray room layout:



- a low-dose digital photofluorograph PULMOSCAN;
- an operator workstation;
- a waiting place;
- a changing room for patients / a washbasin;
- a wardrobe for the medical staff.

Project aim is timely provision of medical care to the population of Vitebsk region, increasing life expectancy.

Project tasks are:

1. To preserve and strengthen the health of all segments of the population;
2. To prevent exacerbations and complications of chronic diseases;
3. To provide the population of Vitebsk region with affordable and high-quality X-ray diagnostics of various diseases, neoplasms, respiratory diseases;

4. To carry out screening programs for the purpose of early diagnosis of malignant neoplasms.

Project description: “Healthy People are the Basis of the Nation”

Purchase of an X-ray vehicle costing 230 000 c.u.

Target group: population of Vitebsk region.

Project expectation effect: Reducing mortality, disability of the population, increasing the quality of life.

1. Project name: “On the Way to Health”	
2. Project implementation schedule: 2026-2027 yrs	
3. Organization-applicant, offering the project: State Health Care Institution “Vitebsk City Central Outpatient Clinic”	
4. Project aims: timely provision of medical care to the population of Vitebsk region, increasing life expectancy	
5. Tasks planned for implementation within the framework of the project: -maximum coverage of residents of Vitebsk region, living in remote settlements, primarily in which there are no medical institutions, dispensaries and preventive care; - timely provision of medical care, taking into account the results of examination, follow-up dynamic monitoring of patients with treatment correction; - conducting screening programs for the purpose of early diagnosis of malignant neoplasms.	
6. Target group: population of Vitebsk region	
7. Brief description of activities within the framework of the project: 1. Purchase of an X-ray vehicle costing 230 000 c.u.	
8. Total funding (in US dollars): 230 000	
Source of funding	Funding allocation (in US dollars)
Contributor’s funds	220 000
Co-funding	10 000
9. Place of project implementation (region/district, city): Vitebsk region, Vitebsk district	
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