

Sumy | Flame of Life

Sumy. Flame of Life
as part of non-profit enterprise
«Sumy Regional Clinical Hospital»
of the Sumy Regional Council

"FLAME OF LIFE"

Sumy Regional Clinical Hospital is a leading medical institution with the highest accreditation category, providing care to one-fifth of the region's population.

The hospital includes highly specialized centers such as the Interventional Radiology Center with an X-ray Surgery Unit, the Joint Endoprosthesis Center, the Nephrology and Hemodialysis Center, and the Endocrinology Center.

The treatment and diagnostic process is supported by paraclinical services, including the Clinical Diagnostic Laboratory, the Department of Functional Diagnostics, the Department of Radiology, the Endoscopy Department, and the Physiotherapy Department.



The Burn Center of the Non-Profit Enterprise of Sumy Regional Council “Sumy Regional Clinical Hospital” is the unical center in the Sumy region providing treatment for patients with thermal injuries using modern European methods of diagnosis, treatment, and rehabilitation.

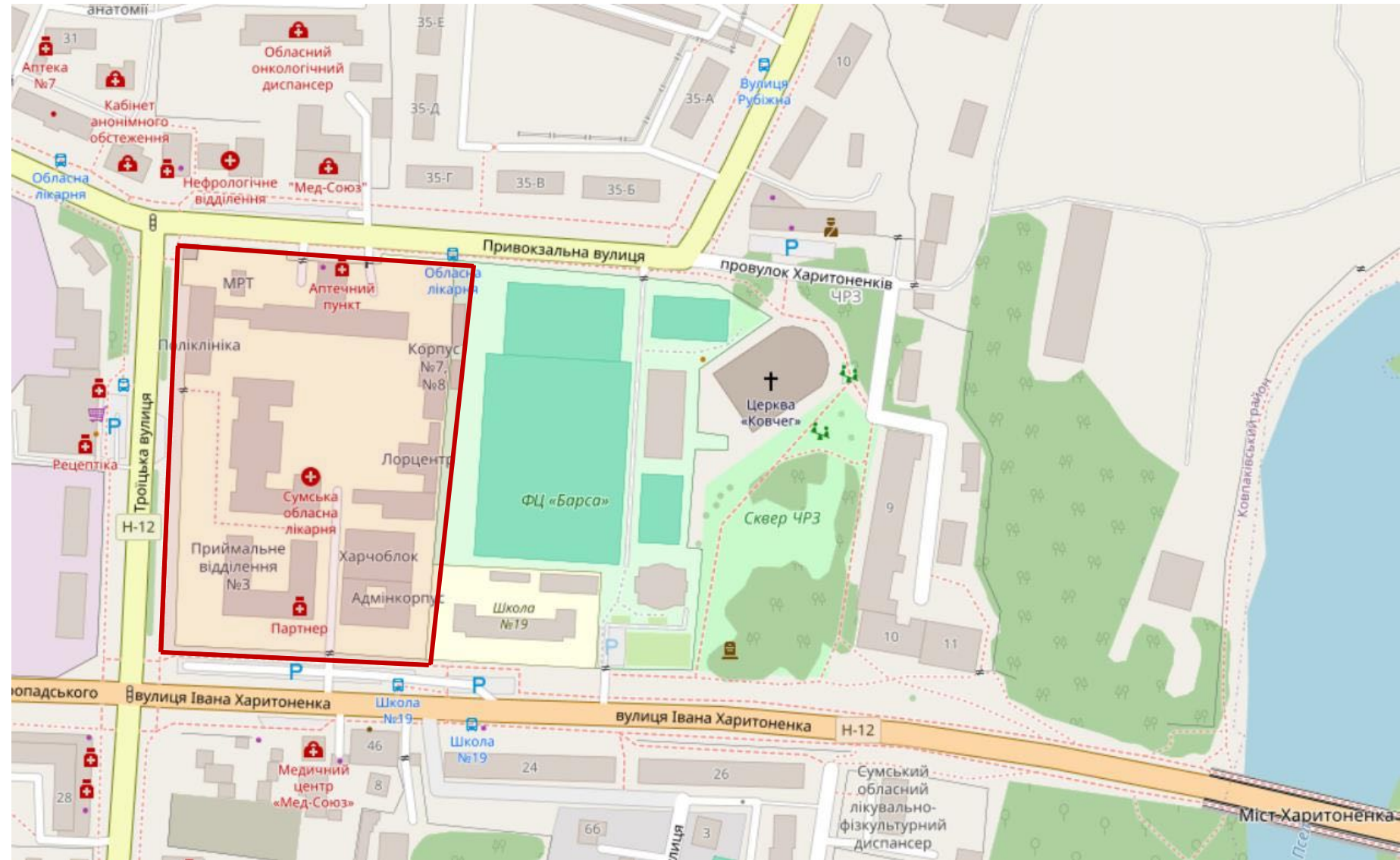
The department applies early surgical treatment of burns, especially in children: early necrectomy and dermabrasion with simultaneous xenodermoplasty and autodermoplasty.

Patients with almost all types of skin loss receive surgical care. The department also treats patients with frostbite, trophic ulcers, and bedsores.

Currently, the Burn Center has 8 wards with 2 to 6 beds each, three dressing rooms, one manipulation room, and an operating theater with one surgical table.

Each bed is allocated 5.75 m².

The department staff includes 2 full-time burn surgeons and 2 part-time specialists, 10 nurses, and 9 nurse assistants.







The physical deterioration of the building: brick wall damage, destroyed porches, damaged roof joints, corroded drainage system, deformed window frames, lack of glazing, partial destruction of reinforced concrete staircases.



Worn-out utility systems (sewage, water supply, electrical networks, ventilation and air conditioning.

Non-compliance with thermal insulation requirements under DBN V.2.6-31:2021 “Thermal insulation and energy efficiency of buildings”: the thermal conductivity of a 680 mm brick wall does not meet modern standards.

Lack of major repairs since time of building construction: aging and damage of floor coverings, deterioration of wall finishes, partitions, and ceilings.
Absence of a ramp and elevator for barrier-free access to the Burn Center.



Burn injuries are considered among the most severe traumas in global medical practice. In Ukraine, due to the war, the number of people with burn injuries is constantly increasing. Before the war, most burn cases were related to domestic accidents. The war has radically changed this statistic.

In 2024-2025, more than 35% of patients sustained injuries during attacks. Mine-explosion injuries require highly qualified care, urgent surgical interventions, and long-term rehabilitation. In 2024, up to 270 patients, including 10 children, receive inpatient care in the department.

The department performs up to 450 surgical interventions annually, of which more than 50% are autodermplasty and combined skin grafting, 5% are amputations and total osteonecrotomies, and 3% are reconstructive surgeries. The surgical activity of burn surgeons reached 66.8%.

In 2025, high-complexity procedures (level III-IV) accounted for 60%.

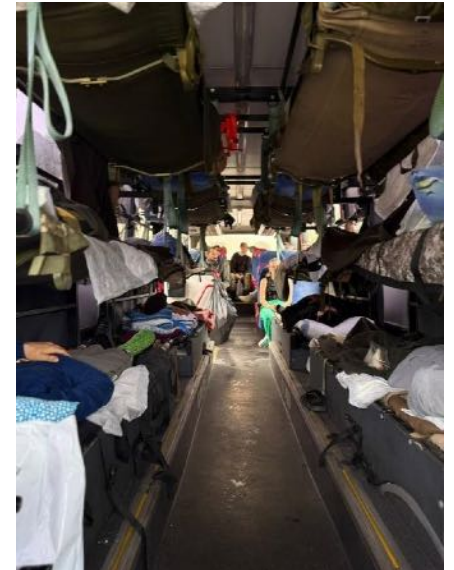
In 2025, the average length of hospital stay decreased to 21.8 days due to the implementation of early rehabilitation and evacuation of patients to safer medical facilities outside the region.



Due to the limited equipment capacity of the burn department and the tense military situation, up to 20% of patients, including military personnel with severe injuries, are evacuated to the Kyiv city clinical hospital №2, and St. Panteleimon's hospital in Lviv (10 patients in 2023, 51 patients in 2024).

Today, the fundamental principles remain unchanged: the first 48 hours are “golden” for ensuring proper conditions of stay, adequate pain management, and restoration of the function of organs and systems affected by damaging factors.

The accuracy of patient management strategies at all stages of treatment directly affects survival, recovery quality, and subsequent reintegration into society.



The continuity of all stages of treatment in one place will help reduce mortality and restore quality of life.

Modern equipment and a multidisciplinary team will ensure the highest standards of care.

The accumulation of additional facilities will allow the separation of patient flows between children and adults, creating comfortable conditions both for patients and for medical staff.

The establishment of a modern Burn Center in Sumy Region **will significantly improve access to specialized care by:**

- doubling the number of treated patients and corresponding surgical interventions (500 patients; 900 surgical procedures)
- expand the scope of surgical operations, with up to 20% (180 cases) being reconstructive surgeries

In case of modernization, the **Burn Center “Sumy. Flame of Life”** will provide higher-quality treatment for patients with thermal injuries — including civilians, military personnel, workers in hazardous industries, and children — using advanced methods of diagnosis, treatment, and rehabilitation, and applying the achievements of modern science and technology as well as the best practices of leading medical institutions.

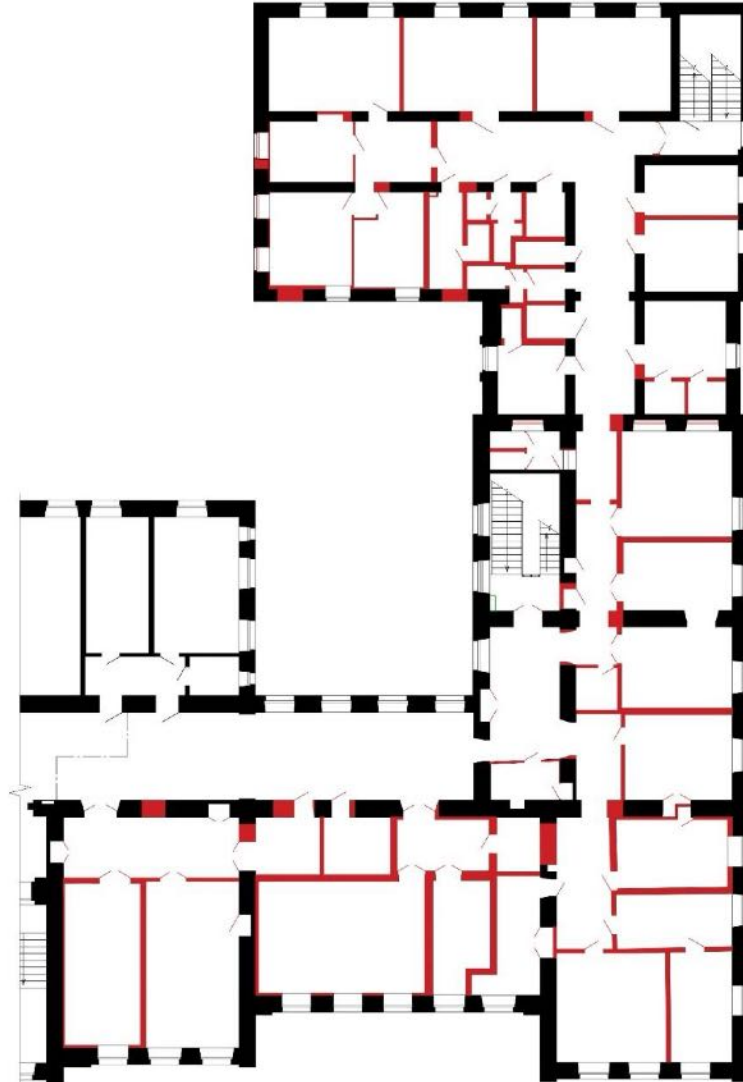


Burn Center “Sumy. Flame of Life” will become a place for comprehensive support: medical, psychological, and social:

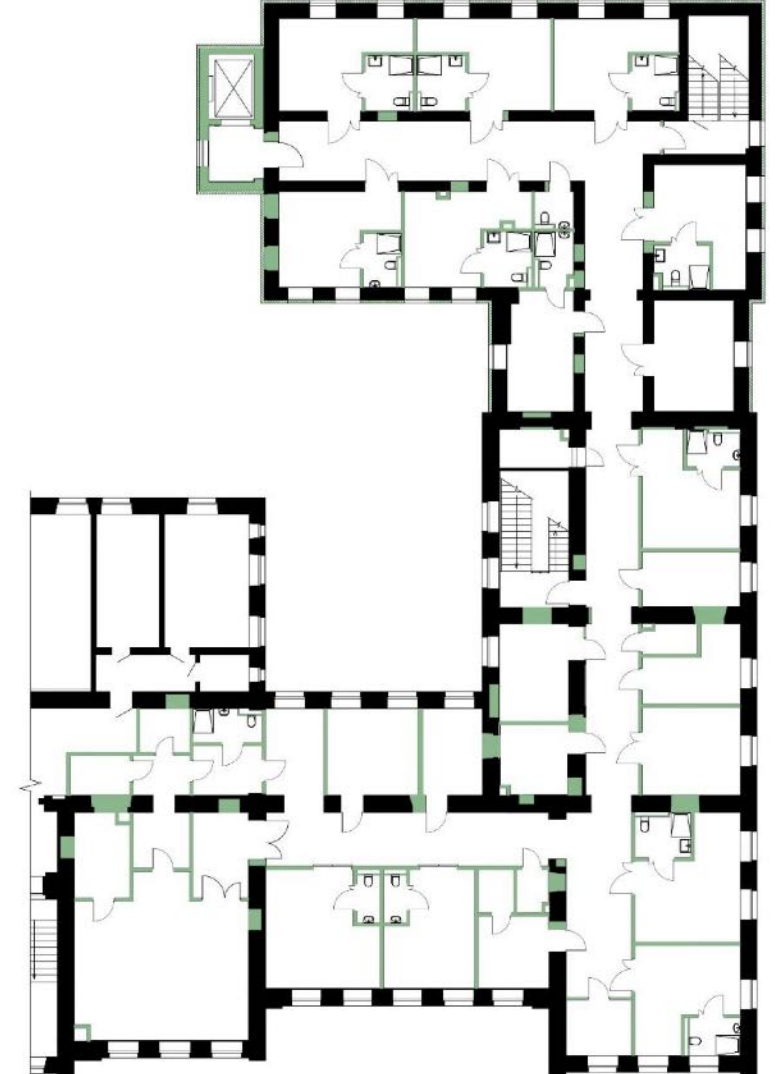
- Saving lives and reducing disability
- Modern equipment and methods allow rapid provision of care, increasing the chances of recovery
- Reduction in complications and mortality from severe burns
- Improved access to specialized care for residents of Sumy Region and neighboring areas
- Shortened time to the start of treatment, which is critical for burn patients
- Support for military personnel and victims of the war
- The modern center will provide specialized conditions for treating young patients and psychological support for their families
- Reconstructive and plastic surgeries will help patients avoid severe deformities and social isolation
- Development of the region’s medical infrastructure, the center will serve as a hub for staff training, education, and implementation of modern technologies
- Strengthening the vision of Sumy as a city with high-quality healthcare
- Psychological and humanitarian support for society, as people feel that the state and community care about their safety and health



Before Replanning



After Replanning



The project provides for:

- Thermal modernization of the building
- Construction of a porch with a ramp
- Extension of the elevator shaft
- Replanning of premises, and finishing of walls, ceilings, and floors in accordance with modern requirements and standards
- Replacement of damaged engineering networks with new ones
- Creation of conditions for the future implementation and use of alternative energy systems (solar power plant with a capacity of up to 30 kW)

As a result of the major renovation, a convenient and functional layout has been designed, including the following rooms:

- 8 double wards, each with a universal restroom
- 2 intensive care wards with toilets (designed for 3 beds each)
- operating unit with an operating room, preoperative room, sterilization room, washing room, and changing room with restroom for medical staff
- doctors' office
- head of the department office
- head nurse's office
- physiotherapist's office
- staff lounge
- dressing room
- dressing room for infectious patients
- manipulations room
- procedure room
- storage room for supplies and medications
- cleaning equipment room

- | | |
|---|--|
|  | - Операційний блок |
|  | - Палати інтенсивної терапії |
|  | - Двомісні палати пацієнтів |
|  | - Палата для сумісного перебування дитини та мами |
|  | - Кабінети лікарів (ординаторська, кабінет завідуючого відділенням, кабінет фізіотерапевта, кімната прийому їжі та відпочинку) |
|  | - Кабінет старшої медичної сестри, пост чергової медичної сестри |
|  | - Перев'язувальні |
|  | - Допоміжні приміщення (інвентарні, комори, матеріальна, мийна посуду) |



Design Proposal for the Building Facades



Design Proposal for the Building Facades





Nurse Station



Two-Bed Patient Room



Operating Room



Operating Room

SURGICAL EQUIPMENT



Fractional CO2 laser Pixel Plus



Electrosurgical unit BOWA ARC 400



Medical suction unit NEW
HOSPIVAC 350 BASIC 2



Shadowless operating lamp (double-dome)



Ultrasonic cavitator Sonoca 300



Linear electrodermatome
with disposable cutting
head DK-717.0.00



Disk electrodermatome DK 717.0.02



Perforator PMR-3 (perforation step 1:3)

EQUIPMENT FOR THE DRESSING ROOM



Shadowless operating lamp (single-dome)



Electric medical bathtub Rhapsody



Adjustable bathtub lift

EQUIPMENT FOR PHYSIOTHERAPY, REHABILITATION AND OTHER



Universal LED DERMALUX Tri Wave device



Electric rotary trainer for upper and lower extremities



Mobile X-ray system



Specialized beds for patients (with burns) Soft 2 (for adults)



Specialized beds for patients (with burns) Soft 2 (for children)

BURN TREATMENT ROOMS AND INTENSIVE CARE UNITS



Patient heating system 3M



Infusion solution heating complex



Lung ventilation device



Patient monitoring system



Hearls fluidized air care system



Mobile patient lift



We have set the goal of creating a modern Burn and Plastic Surgery Center that will provide medical care according to European standards.

The establishment of the Burn Center in Sumy is a strategically important project for the development of the region's healthcare infrastructure.



The Burn Center will improve the quality and accessibility of specialized care for patients with burn injuries and create proper conditions for comprehensive treatment and rehabilitation of the affected people.

The reconstructed Center will become an important hub for saving lives, restoring health and working capacity, generating significant social and economic benefits for the entire Sumy region and neighboring areas.



Letter of Support

To whom it may concern

On behalf of St George's University of London, I am writing to express our strong support for the renovation and modernization of the Burn Unit at the Sumy Regional Clinical Hospital.

The Burn Unit provides critical and often life-saving care for patients with severe burn injuries. Its services are indispensable not only for the local community but also for the broader region. However, the current infrastructure, equipment, and facilities require significant renewal to meet modern medical standards and ensure the highest quality of treatment.

In the context of the ongoing war, the importance of this initiative cannot be overstated. The number of patients with severe burn injuries and complex trauma has increased considerably, placing an unprecedented burden on the healthcare system. Upgrading the Burn Unit will therefore directly strengthen the hospital's capacity to save lives and provide high-quality emergency and long-term care to those most affected by the war.

Modernization of the Unit will:

- Improve patient outcomes through access to advanced diagnostic and therapeutic technologies;
- Enhance the working conditions and efficiency of medical staff;
- Enable the introduction of innovative rehabilitation programs for burn survivors;
- Ensure the hospital's resilience and readiness to respond to the urgent healthcare needs caused by wartime challenges.

We fully endorse this initiative and are confident that its implementation will bring substantial benefits to both patients and healthcare professionals. We strongly encourage all relevant stakeholders to support this vital project.

Thank you in advance, I remain,

Yours sincerely,



Terry Poulton
Professor of Medical Education
St George's University of London



Ihor Duzhyi, Academician of the Academy of Sciences of the Higher School of Ukraine, Doctor of Medical Sciences, Professor, Head of the Department of Surgery, Traumatology, Orthopedics, and Phthisiology, Honored Doctor of Ukraine, and Chairman of the Association of Surgeons of Sumy region

**SUMY STATE UNIVERSITY
ACADEMIC AND RESEARCH MEDICAL INSTITUTE
DEPARTMENT OF SURGERY, TRAUMATOLOGY, ORTHOPEDICS AND
PHTHISIOLOGY**

Dear colleagues!

We live in a time when all agreements of a global scale, at whatever level they are concluded (EU, UN, NATO, not to mention agreements between states) are not worth a penny of the value of the paper on which they are concluded. Historians will find a justification for this in the near future. In general, the reason is quite simple. The rf was a member of most world organizations, although it had nothing to do with their founding, except for the title of "winner in World War II". Without discussions, without "for" and "against". And at the same time, in all world organizations, in addition to "participation" in them, the rf was "awarded" with the right to "veto" on everything that does not correspond to the plans of these organizations. And since then, the world community on all continents began to regularly encounter various military clashes. Up to the use of biological and chemical weapons. And the organizers of these actions were the rf. Today, there are 183 major or minor military conflicts taking place around the world. In all of them, the leaders of the rf prevail. Any military conflict is accompanied by mass burn injuries.

Among the causes of death in all countries of the world, among injuries of various genesis, the proportion of burns is 5% (Echinard c.). According to the national information bank, up to 2 million burns are registered in the USA annually, 100,000 of whom are hospitalized, and 30,000 of whom are children. The cost of treating these burns exceeds 2 million dollars. In Ukraine, the number of burns annually is 21.3 per 10,000 population.

According to a burn center in the Czech Republic, with a skin deficit of 30%, the treatment of one burn costs \$26,000.

It is known that when 15% or more of the skin is affected, the vascular bed is involved in the pathological process, mainly of a microcirculatory nature, which requires treatment in specialized departments. Specialized centers should exist for the treatment of such patients. The medical staff of such departments should be

fundamentally trained in the treatment of individual regions (organs) of the human body. A feature of burn disease is that the majority of victims are people of working age and children. This is what is now standing before us in full growth, standing up and demanding to solve the issue of the future of our and your children, our and your relatives. No one has and will never have "guarantees" from any subsequent "instant", but we must remember that tomorrow and subsequent moments create the future not only for our and your children, but perhaps, if someone is lucky, for you too. I am personally convinced that the creation of the Regional Burn Center at the municipal non-profit enterprise of the Sumy Regional Council "Sumy Regional Clinical Hospital" will allow for high-quality and rapid provision of highly qualified medical care to patients with burn wounds. For such patients, time is precious and can cost them their lives.

Concluding the introduction to the possible presentation of the burn center, I would like to take a step back, into the past, recalling that burn trauma has accompanied humanity throughout its existence. Even the Old Testament contains references to burns.

Today, specialized burn centers are a requirement of the times, without which talking about the future of the nation is empty talk.

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doctor of medical sciences, professor,
the head of the Department of Surgery,
Traumatology, Orthopedics and Phthisiology,
Honored Doctor of Ukraine,
Chairman of the Association
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