

VIDRODZHENNYA  
center for strategic development



CONGER HIGGINS

# Proposals for the implementation of the project to renovation THE REGIONAL REHABILITATION CENTRE



# Rehabilitation center

Treatment of post-traumatic stress disorder (PTSD) with a focus on comprehensive recovery and rehabilitation

Center area – 16,1 thousand sq.m.

Number of beds – 190

Project budget – \$101,3 million

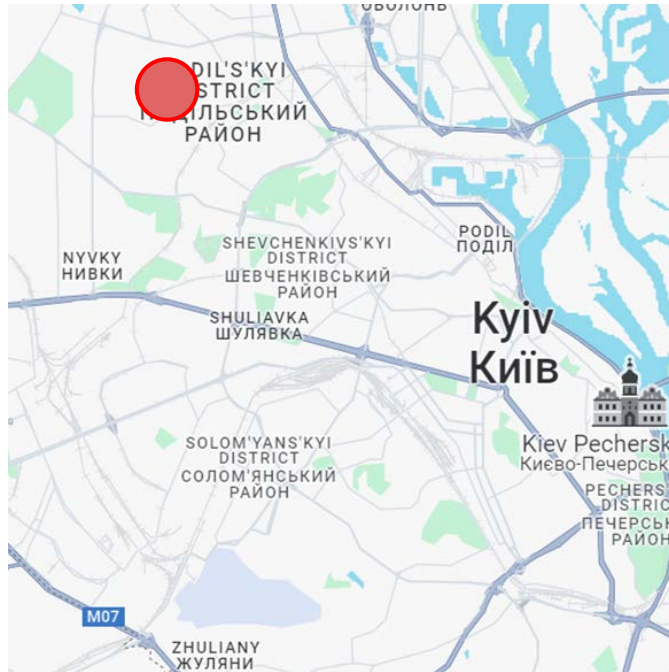


# Municipal Enterprise "Kyiv Regional Center for Rehabilitation Medicine"

Kyiv Regional Hospital No. 2 (KRH No. 2) was established in 1991 on the basis of a special hospital of the Kyiv Regional Medical and Sanatorium Department to provide services to victims of the Chernobyl accident.

In June 2023, KRH No. 2 was reorganized into a municipal non-profit enterprise of the Kyiv Regional Council "KYIV REGIONAL CENTER FOR REHABILITATION MEDICINE".

The main building of the center is located in the Podil district of Kyiv in the Syretsky Grove. The buildings are located on a separate land plot of 5.2 hectares.



## Advantages:

- Location in the "green" zone of Kyiv;
- Good transport accessibility, including by public transport;
- The size of the plot meets the needs of medical institutions.

## Opportunities:

- Development of a multifunctional medical rehabilitation center;
- Providing a wide range of comprehensive medical services to both military and civilians.

## Challenges:

- Demolition of the building's capital structures and utilities;
- Outdated medical equipment;
- Lack of modern equipment for rehabilitation, diagnostics, laboratory tests;
- Non-compliance with modern energy efficiency standards.

# Concept of renovation a rehabilitation medical center in Ukraine

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KARNAUKH M.I.



## Rehabilitation center:

Specialization: basic medical departments with an emphasis on comprehensive recovery and rehabilitation.

Location: Kyiv region. Territory: 5.2 hectares

Number of departments: 8

Number of beds: 190

Number of staff: 250

### Medical directions:

1. Rehabilitation center
2. Diagnostic center
3. Socialization

### Infrastructure objects:

1. Park area
2. Sports complex, swimming pool
3. Associated infrastructure: cafe, shops
4. Educational space

## Departments of the Rehabilitation Center:

1. Mental Health Center (PTSD treatment) for 10 beds
2. Medical and physical rehabilitation department for 40 beds
3. Neurological department for 40 beds
4. Cardiology department for 20 beds
5. Therapeutic department for 20 beds
6. Spinal unit for 20 beds
7. Surgical department for 20 beds
8. Intensive care anesthesiology department for 20 beds

## Diagnostic center

## Laboratory center

## Prosthetic laboratory



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**Implementation of the Rehabilitation Center project requires:**

1. Renovation of the main building of the rehabilitation center with modernization of engineering networks.
2. Equipping the diagnostic and laboratory center with modern equipment:
  - MRI
  - Biochemical analyzer
  - Automatic coagulator
  - Blood gas and electrolyte analyzer
  - Electrocardiographs
  - ENT combine
  - And more
3. Equipping the departments with modern medical equipment:
  - Physical rehabilitation
  - Verticalizers
  - Simulators
  - Rehabilitation of upper and lower limbs
  - Devices for restoring walking skills
  - Lifts
  - Robotic locomotive
  - And more

**The Rehabilitation Center renovation project is under development.**

**A detailed work plan and equipment list are being worked out.**

*We plan to use modern engineering and medical equipment from leading Japanese manufacturers*



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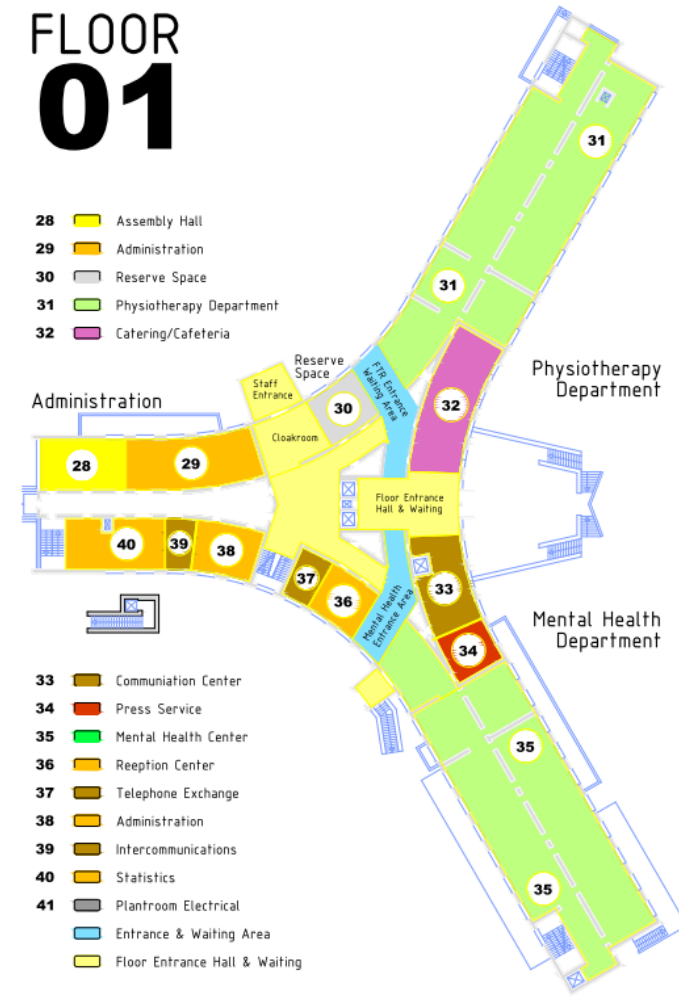
## FLOOR 1B



- 42 Central Sterilization
- 43 Housekeeping Preparation
- 44 Hydrotherapy Pool
- 45 Workshop Electrical/Plumbing
- 46 Workshop Mechanical

- 47 Warehouse Medical Waste
- 48 Laboratory Prosthetics
- 49 Utility Services
- 50 Reserve Space
- 51 Reserve Space
- 52 Warehouse
- 53 Reserve Space
- 54 Utility Services
- 55 Utility Services
- 56 Archive
- 57 Warehouse
- 58 Warehouse
- 59 Archive
- 60 Cable Entry
- 61 Electrical Distribution Room
- 62 Plantroom Elevator
- 63 Housekeeping
- 64 Warehouse Pharmacy
- 65 Plantroom Mechanical
- Floor Entrance Hall & Waiting

## FLOOR 01



- 28 Assembly Hall
- 29 Administration
- 30 Reserve Space
- 31 Physiotherapy Department
- 32 Catering/Cafeteria

- 33 Communication Center
- 34 Press Service
- 35 Mental Health Center
- 36 Reception Center
- 37 Telephone Exchange
- 38 Administration
- 39 Intercommunications
- 40 Statistics
- 41 Plantroom Electrical
- Entrance & Waiting Area
- Floor Entrance Hall & Waiting



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## FLOOR 02

Neurology Department  
40 Beds, including:

20 Beds Neurology  
12 Beds Neurosurgery  
08 Beds Psychosomatic

Radiographical Diagnosis  
Department

Radiology  
Diagnostics

- 23 Radiographical Diagnostics
- 24 Ultrasonography Polyclinic
- 25 Neurology Ward
- 26 Neurology Ward
- 27 Dopplerography Polyclinic
- Ward Entrance & Waiting Area
- Floor Entrance Hall & Waiting



## FLOOR 03

Rehabilitation Department  
40 Beds, including:

20 Beds Post-Acute Rehabilitation  
20 Beds Long-Term Rehabilitation

Rehabilitation  
Equipment

Rehabilitation  
Equipment

- 017 Rehabilitation Equipment
- 018 Chaplain
- 019 Rehabilitation Gait Analysis
- 020 Post-Acute Rehabilitation
- 021 Long-Term Rehabilitation
- 022 Central Telemedicine
- Ward Entrance & Waiting Area
- Floor Entrance Hall & Waiting



## FLOOR 04

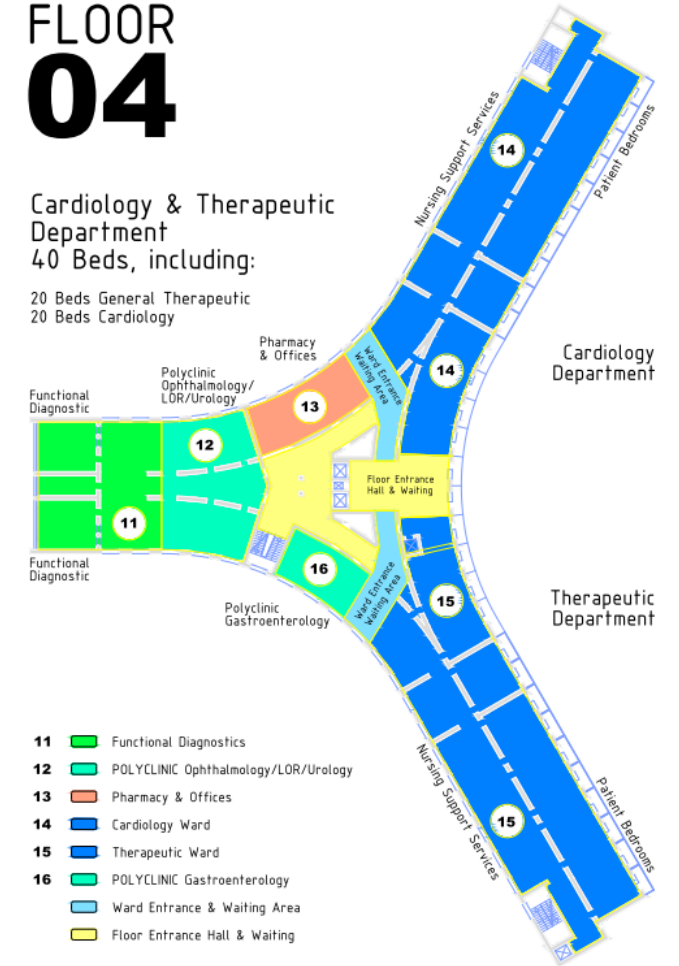
Cardiology & Therapeutic  
Department  
40 Beds, including:

20 Beds General Therapeutic  
20 Beds Cardiology

Functional  
Diagnostic

Functional  
Diagnostic

- 11 Functional Diagnostics
- 12 POLYCLINIC Ophthalmology/LOR/Urology
- 13 Pharmacy & Offices
- 14 Cardiology Ward
- 15 Therapeutic Ward
- 16 POLYCLINIC Gastroenterology
- Ward Entrance & Waiting Area
- Floor Entrance Hall & Waiting



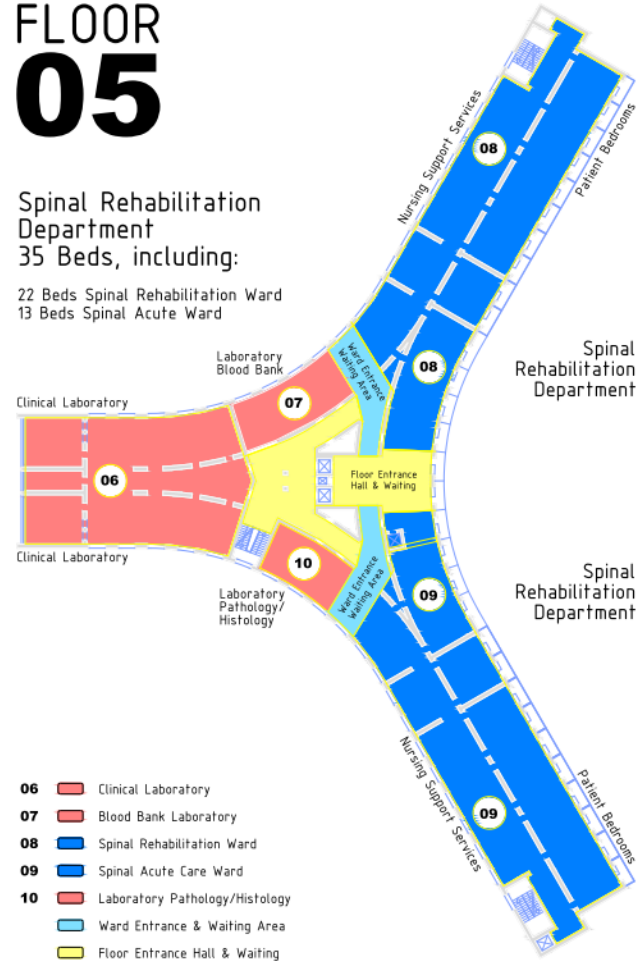
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## FLOOR 05

Spinal Rehabilitation Department  
35 Beds, including:

22 Beds Spinal Rehabilitation Ward  
13 Beds Spinal Acute Ward

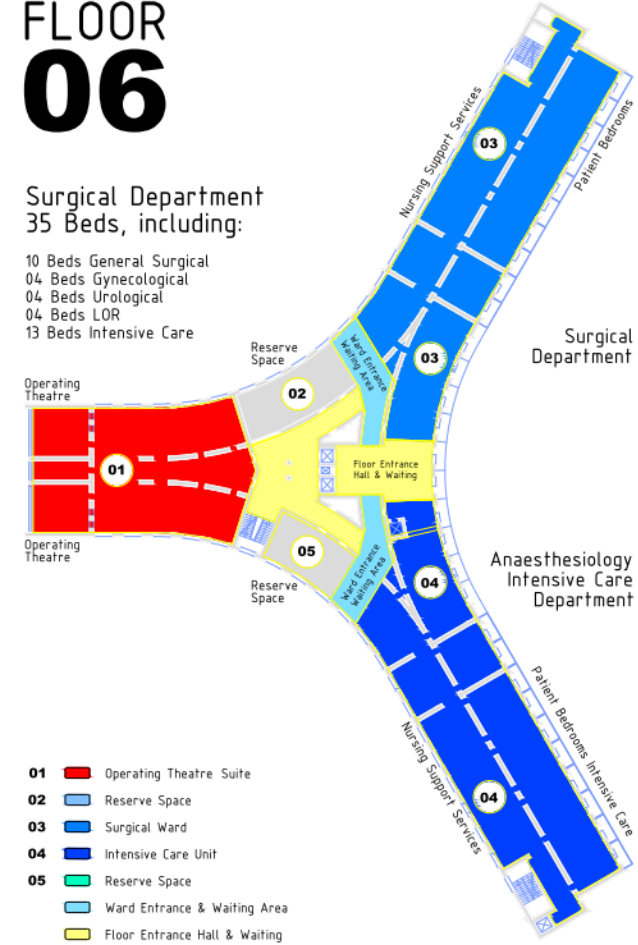


- 06 Clinical Laboratory
- 07 Blood Bank Laboratory
- 08 Spinal Rehabilitation Ward
- 09 Spinal Acute Care Ward
- 10 Laboratory Pathology/Histology
- Ward Entrance & Waiting Area
- Floor Entrance Hall & Waiting

## FLOOR 06

Surgical Department  
35 Beds, including:

10 Beds General Surgical  
04 Beds Gynecological  
04 Beds Urological  
04 Beds LOR  
13 Beds Intensive Care



- 01 Operating Theatre Suite
- 02 Reserve Space
- 03 Surgical Ward
- 04 Intensive Care Unit
- 05 Reserve Space
- Ward Entrance & Waiting Area
- Floor Entrance Hall & Waiting





## Budget of renovation a rehabilitation medical center in Ukraine

Realization period:  
**36** months

Terms of implementation:  
with partial closure

| OBJECT  | AREA, sq.m | WORK   | AMOUNT, \$<br>million |
|---|------------|--|-----------------------|
| Multidisciplinary<br>rehabilitation<br>medical center | 16 100     | 1.1. Land Plot (5,2 ha)                                      |                       |
|   |            | 1.2. Designing   | \$1,0                 |
|   |            | 1.3. Renovation  | \$40,3                |
|   |            | 1.4. Operational<br>maintenance of the<br>center for 5 years | \$60,0                |
| <b>TOTAL:</b>   |            |  | <b>\$101,3</b>        |



## Recommendations for expanding the functional content of a Rehabilitation center in Ukraine

Functions and tasks of the multifunctional rehabilitation center  
(VIDRODZHENNYA, Karnaukh M.I., ECC, Conger&Higgins):

1. Diagnosis of injuries, diseases and pathological conditions which require rehabilitation in future.
2. Provision of extensive inpatient rehabilitation care in expanded departments after long-term rehabilitation in conditions of round-the-clock stay or stay in a day hospital.
3. Provision of rehabilitation assistance on an outpatient basis (outpatient consultations and rehabilitation of patients).
4. Provision of home rehabilitation (rehabilitation assistance provided at the place of residence (stay) of a person who needs rehabilitation, during post-acute and long-term rehabilitation periods outside the center).
5. Provision of periodic supportive rehabilitation assistance (rehabilitation assistance that can be provided during a long - term rehabilitation period with the aim of preventing loss, slowing loss, improving or maintaining the functioning of a person who needs rehabilitation)
6. The possibility of providing rehabilitation assistance in a mobile mode (the work model of a multidisciplinary rehabilitation team or individual rehabilitation specialists of inpatient or outpatient departments of post-acute and long-term rehabilitation, which consists in providing rehabilitation care during the acute rehabilitation period at the patient's place of residence (stay) in non-rehabilitation departments of health care facilities or in other health care facilities, in educational institutions in the field of health care, in special institutions of general secondary education, which do not have rehabilitation departments, subdivisions)
7. Provision of rehabilitation in the territorial community (a strategy within the framework of the overall development of territorial communities regarding rehabilitation, equalization of opportunities and social integration of all persons in need of rehabilitation, which is ensured by the joint efforts of the persons in need of rehabilitation, their families, organizations, local executive bodies and local self-government bodies in spheres of health care, education, social protection, etc)
8. Provision of rehabilitation care using telerehabilitation, through telerehabilitation consultation and examination, telerehabilitation meetings of the multidisciplinary rehabilitation team, telemetry, control, home teleconsultation and patient education, remote supervision and in other forms that do not contradict the law in case of technical possibility.





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# Information about the specialists who participated in the development of the Rehabilitation center project



Vidrodzhennya is a structural unit of the large DCH holding. **DCH** is one of the largest Ukrainian business groups, which is developing extremely dynamically and has a 20-year history. The business group's priority areas of activity today are finance, industry, mining, transport, development, production of building materials, etc.



**Mykhailo Ivanovich Karnaukh**  
Brigadier General of the Medical Service, Honored Doctor of Ukraine, Head of the Health Department of the Administration of the State Border Service of Ukraine..



As a leading construction and renovation contractor, **ECC** has the technical and management capacity and experience to execute a variety of large-scale, simultaneous projects around the world. ECC annually participates in the construction of state-of-the-art facilities for the military, rebuilds war-torn regions, builds capacity in underdeveloped countries, restores the environment, and revives communities after natural disasters.



**Piontkovska Oksana Volodymyrivna**  
Professor, Doctor of Medicine, Honored Doctor of Ukraine.



A leading international company specializing in the design and organization of hospitals. For more than 30 years, hospital projects have been implemented in Europe, the Middle East, Africa, and the Republic of Turkey with a total of 10,000 hospital beds, including military hospitals.



**Shekman Vadim**  
CEO of Dobrobut Medical Network, Co-Chair of the Healthcare Providers Committee of the American Chamber of Commerce in Ukraine.

