*MOBILE SURGICAL - TYPE HOSPITAL*

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*Characteristic of the Hospital*

The hospital is designed to admit, sort and temporarily hospitalize wounded persons with mild to severe injury. It provides professional surgical aid. Its equipment makes it possible to carry out major operations on limbs and chest and minor operations on head.

The maximum hospital capacity is 300 beds, and the hospital is placed in tents or appropriate buildings in various combinations.

The performance of the main workplace of the hospital - the surgery-dressing unit - is 40 to 59 surgeries, of which 11 major and 24 medium or 39 minor ones.

*Possible Structure of the Hospital*

*A/ Health equipment*

- special cleaning treatment department
- admission department
- resuscitation
- anaerobic department
- surgery-dressing unit (main workplace of the hospital)
- X-ray department
- pharmacy department with dispensary and preparation of infusion solutions
- laboratory with out-patient department
- hospital department
- administration section
- accommodation for staff

b/ Technical equipment

- accommodation for hospital (tents,

*Optimum Staff for the Hospital*

11 medical doctors specialize in surgery
2 pharmaceutical chemists

50 paramedical staff

50 other staff in charge of running the hospital

To unfold the hospital of this type in winter or summer takes 10 - 12 hours or 5 - 6 hours, respectively.

The material of the hospital comprises cca 29 tons.

The composition of the material and its packing permit to transported by all means of transport

/ truck, railway car, ship, plane. /

Hospitals of this type can also operate in the so-called declared zones, according to the Geneva Convention, provided they are visibly marked with the symbol of red cross as requested by the Convention.

The responsibility of the resuscitation department is treatment of shock of injured patients and resuscitation and post-operative care until the patients may be re-located to the hospital ward. There is some basic equipment in this department: The set N - 7 "Medical Items", hand-operated resurgent apparatus RK - 32 - V, resurgent apparatus SPIRETA - V and equipment for oxygen treatment for ten persons. The department is also equipped with sinks, pails, tables for medical instruments, rests and stands for stretchers and other instruments necessary for the function of the department.

The responsibility of the anaerobic department is to admit patients, provide aid and hospitalise those patients who are suspected of having an anaerobic infection. This department fulfils the function of a quarantine for the surgical hospital. The precondition for the functioning of this working place is a strict separation of the anaerobic material from the matrerial of other departments. The basic equipment of this working place consists of sets of aseptic bandage material B - 1, bandage material B - 3, a set of splints B - 2, and a table for re-bandaging patients. The equipment is further supplemented with stands for stretchers, universal racks and other necessary material.

The principal working place of the surgical field hospital is the operation rebandaging block. Operation - rebandaging block consists of surgery room re-bandaging room and sterilization room. The responsibility of the operation - rebandaging block is to perform all kinds of surgery upon admitted patients.

The surgery room is designed to provide highly skilled treatment for very seriously injured patients. It is equipped with two operating tables that make it possible to position particular parts of the
operating tables into different positions according to requirements of the surgeon.

The operating lamp provides enough light for the medical personnel even during the most demanding surgery. The basic equipment of the surgery room consists, besides others, of sets of surgical instruments end items N - 7 and N - 8, anaesthesia apparatus NHM, aseptic material in barrels, pedal-operated suction O - 69, and apparatus ENDOKAUSTIK, CHIROTON and others. The surgery room is supplied with tables for surgical instruments, hangers, sinks, buckets, stands for stretchers, stretchers and other material.

The re-rebandaging room of the operation - rebandaging block is the working place where less demanding treatment takes place, especially in the limbs injuries and minor burns. The re-bandaging room usually has four re-bandaging tables and operating lamps. The set ZAREPO, a part of the re-bandaging room, is an exquisite equipment for repositioning bone fragments. There is also a set of surgical instruments N-15, hand-operated resurgent apparatus RK-32-V, suction apparatus O - 69, and a number of other pieces of hygienic and other equipment.

The sterilisation room of the operation - rebandaging block is the working place where the surgical instruments are washed and sterilised, and where the aseptic material for the surgery room and re-rebandaging room is sterilised. The material intended to be sterilised is put into barrels. All the work is done in large sterilisation apparatus AUT - 41.

The x-ray room is designed to specify surgical diagnoses, to locate foreign bodies and to perform other x-ray diagnostical examinations of patients. The x-ray room is divided into two parts. The examination room is equipped with a floating x-ray apparatus ARTEX II, which makes it possible to perform both sciascopic and scigraphic examinations in vertical as well as horizontal positions. The cartridges with exposed films are developed in the dark room, the other part of the X-RAY ROOM. The dark room is divided into a "DRY" and "WET" working place. These include films, foils cartridges, tanks with developer, fixer, drier, and other instruments and material.

The pharmacy department consists of a pharmacy and the manufactory of infusion solutions, and of the stock of medical material. The pharmacy ensures and carries out the supply with mass-produced pharmaceuticals, distilled water, medical oxygen, nursing and other medical material. It prepares medicines according to individual prescriptions of physicians. The basic equipment of the pharmacy is a set N-5, a set for the operation of the pharmacy and a distiller for preparation of distilled water. The manufactory of infusion solutions has two parts: a wash room and the manufactory of solutions itself. The wash room is designed to wash transfusion bottles and containers used in the pharmacy. The basic equipment of the
The manufactory of infusion solutions is a set N-6. The manufactory must ensure maximal sterility of produced solutions. It is therefore appropriately equipped with sterilisation appliance LA-60.

The dialy capacity of the manufactory of infusion solutions is approximately 150 litres. The stock of medical material stock all necessary medical material to supply all the expert departments of the hospital. A part of the pharmacy department is equipment for preparing - transferring oxygen from pressure tanks containing 40 litres into tanks for 10 or 2 litres.

The responsibility of the ambulance is to maintain the readiness of a working place for minor surgery and re-bandaging and a working place for ambulatory treatment. The basic equipment of the ambulance is a re-bandaging table, a set for ambulatory examination V-8, a set of surgical instruments V-1 and other necessary material. The laboratory is divided into a biochemical working place and a hematology working place. Its responsibility is to perform various examinations of samples prepared by other departments. It is equipped with a set L-1, sterilisation apparatus LA-60 and other material necessary for the operation of a clinical laboratory.

In the surgical field hospital there are usually three hospital departments, each with a capacity of 100 beds. The responsibility of the hospital department is to hospitalise and treat injured and sick patients. The basic equipment of these departments are cots. Their number corresponds to the capacities of particular hospital departments. As a part of the equipment there are also tables, chairs and hygienic requisites and equipment.

An integral part of a surgical field hospital is also the maintenance support. It serves to supply all the departments with electricity, cares for small repairs and maintenance of equipment of the field hospital and last, but not least, it secures food and prepares day - long food for patients and for the personnel of the hospital. Naturally, it is properly equipped to serve this need. There are three electricity stations for the production of electric energy. These stations capacity is 1 kVA, 3 kVA and 7.5 kVA, possibly 15 kVA. The power distribution is provided by illuminating systems. For the preparation of food there is a field kitchen. A complete system of eating utensils and a reservoir for 800 litres of water are parts of maintenance support.

The hospital is located in tents or in suitable buildings in various combinations. Moreover, there are 3 large medical tents and 17 small medical tents in the delivered set. The composition of the material and the way it is packaged makes it possible to implement the transportation of the surgical field.

The surgical field hospital is designed for admittance, classification and temporary hospitalisation of moderately injured patients. It provides expert surgical medical aid. The equipment of the hospital makes it possible to perform major surgery of limbs, thorax, and minor surgery of
head. The capacity is 300 beds. The system of the field hospital consists of the department of special purification of the admitting department, of resuscitation department, and anaerobic department. The principal working place is the operation - rebandaging block. There are also a pharmacy department with a pharmacy and the manufactory of infusion solutions, an x-ray department, a laboratory with an ambulance and three hospital departments, each with a capacity of 100 beds. There is a maintenance section to ensure the operation of the hospital. Hospitals of this kind can work in so-called "declared conditions" under the Geneva convention, provided they are visibly marked with an emblem of The Red Cross.

The responsibility of the admitting department is to admit and record injured people, to determine their diagnoses and above all to provide immediate first aid. The basic equipment of this working place consists of stretchers that are, according to available conditions, placed on the consoles for stretchers or are laid on stands. The set N - 7 "Medical items" serves for necessary treatment of patients, as well as sets B - 1 and B - 2. A part of these sets is also a bandage material and splints for immobilisation of limbs. The equipment of the department of entries is complete with the first aid kit and necessary hygienic instruments.

The responsibility of the department of special purification is to provide a complete special purification of patients. It is divided into three working-places: disrobing room, wash room, and dressing room. The basic equipment of this department consists of the bathing set MKS and field washing room. Part of the bathing set is also the shower extensions and a hand shower for washing seriously injured patients. Disinfection set V - 5 contains all the necessary instruments for disinfection and purification. Moreover, the department of special purification is equipped with stretchers, benches, and with other material necessary for activities of the department. Hospital by automobile, by train, by air as well as by sea.

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*List of material for 1 complete unit of field hospital of surgery nature*

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*Material Quantity Note - contents*

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Set B - 1 60 P 6 cartones - dressing cotton wool package
Set B - 2 60 P 3 cartones - splints
Set B - 3 60 P 11 cartones - unsterilized dressing package
Set N - 10 60 P 3 cartones - anaesthetical material
Set LA 60 P 1 - small autoclave
Set N - 7 80 4 - medical objects
Set N - 8 60 P REX 1 - large operating theatre
Set N - 13 60 P 11 - hospital requisites (for bedridden patients at medical transfers)
Set Š - 1 60 P 1 - shock articles (for injured and burned patients)
Set V - 1 80 2 - large dressing unit (surgical instruments and medical article)
Set N - 15 80 2 - small operating unit (for small size surgical operations)
Set V - 8 80 1 - ambulance unit (for out-patient examination)
Set V - 5 80 1 - disinfection unit
Set V - 7 80 1 - oxygen set
Medical bag Z VZ 80 6 - first aid equipment
Set N - 5 70 1 - medicine chest (consumption material)
Set N - 6 70 1 - pharmaceutical unit (prepare section of sterilized drugs)
Set L - 1 60 P 1 - basic laboratory (clinical laboratory diagnostic)
Set LCH - 1 70 2 - washroom (for the operation of field pharmaceutical unit)
AUTOCLAVE AUT 41 VZ 65 1 - sterilization unit
Sterilizing drum 390x195 mm 26
Operating lamp, standing type SKL 2

Vessel for disinfection solution 6

Vessel for blood transfer 30

Base for stretcher – store 16

Bracket for 3 stretchers 6

Distillation apparatus DP 5 2

Anaesthetizer NHM 1

Table for instruments – store 9

Operating table - field type 59, pos. 2

Dressing table - field type 7

Plastic bottle - capacity 25 litres 12

Vessel for stool dispatch 20

Vessel for smear dispatch 20

Vessel for sputa dispatch 20

NTS bottle, complete

0.5 litre capacity 600

Anaesthetizer NMP – V 3

White operating rubber shoes 25 pairs

Sanitary stretcher – store 150

SET SKCM 60 P 1 - commercial material for the execution of auxiliary tasks

Set NZ 60 F 1 - fitter’s tools

Plastic operating aoron 60

Set NT 60 F 1 - joiner’s tools

Oxygen bottle, capacity 2 liters 14

Oxygen cylinder, capacity 10 litres 10

Oxygen cylinder, capacity 40 litres 5
Medical equipment for treatment of 10 persons - oxygen 1

Set PSX 60 P 1 - repumping station for oxygen (from 40 litres capacity cylinders to 2 litres capacity vessels)

Manual resuscitation apparatus

RK - 32 – V 6

Resuscitation apparatus

SPIRETA – V 4

Suction flask O - 69, pedal type 5

Universal holder 3

Back support on stretcher 5

Two - part trestle 17

Universal stand 15

Plate for instruments 2

Vessel for disinfection solution with holder 5

Holder for 1 wash basin 3

Holder for 2 wash basins 4

Rack head 2

Bottle holder NTS 5

Bracket for tent division 4

Showe unit MKS 1 - small showet set for hygienic washing up of 30 persons / hour

X - ray apparatus ARTEX 2 1

Dark room for X - ray apparatus 1

The set of medical material is without medicaments and chemicals. The
operation of pressure vessels requires to carry out regular revisions and attendance by trained and instructed personnel.

Pressure vessels for oil-fired trailer field kitchens were not subjected to inspection by professional technical supervision. The military administration does not undertake any responsibility for contingent technical defects on these pieces of equipment.

*List of housing and construction supplies*

material number per

1 hospital

field stove 20
Oil lamp 30
Field bed 150
Field folding stool 10
Field folding table 10
Field washroom 2 Straddle trench
Enamelled wash bowl 80
Water tub 60

*List of tentage (Class II supplies)*

material number per

1 hospital

Large medical tent
ZS - 23
Small medical tent

ZS - 117

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*List of field engineer supplies*

material number per
1 hospital

Electric generating set 3 kVA
single-phase 1 set

Electric generating set 1 kVA
single-phase 1 set

Electric generating set 15 kVA
three-phase 1 set

or

Electric generating
set, 7,5 kVA

Lighting set, 1 kVA 1 set

Lighting set, 3 kVA 1 set