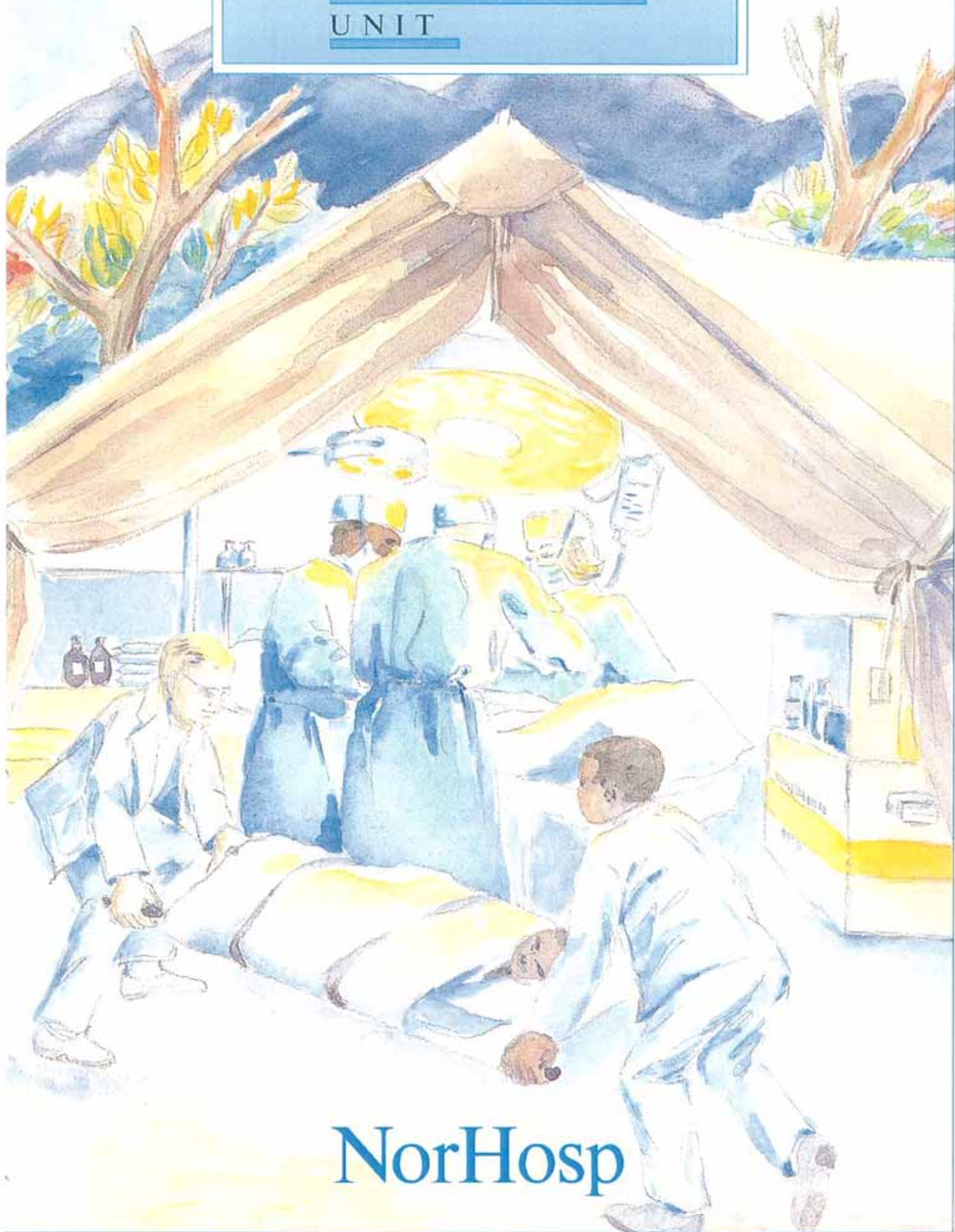
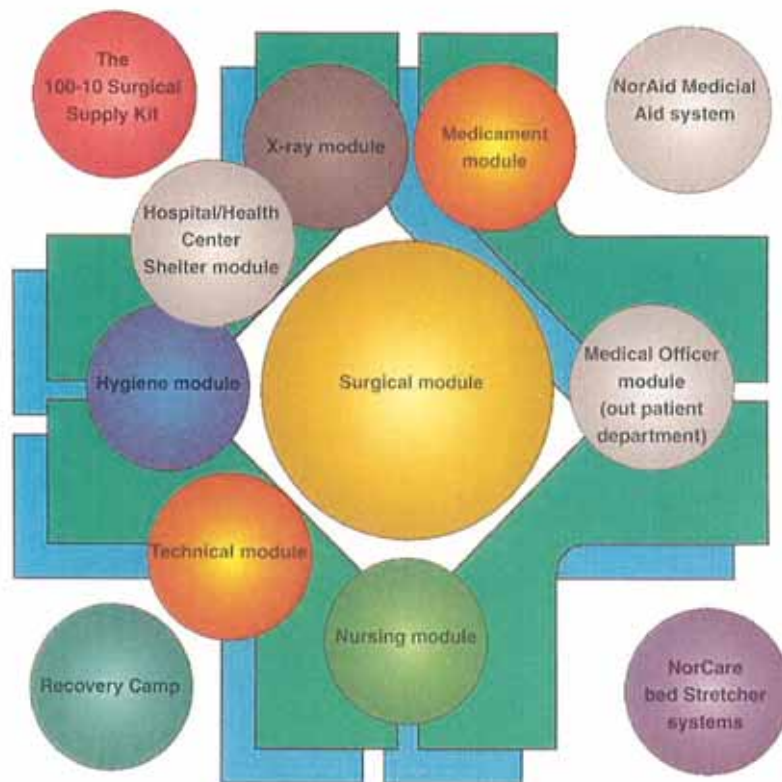


**N**ORWEGIAN  
MOBILE HOSPITAL  
AND DISASTER  
UNIT



NorHosp

# INTRODUCTION



## NorHosp® Norwegian Mobile Hospital and Disaster Unit

**T**he Norwegian Mobile Hospital and Disaster Unit is a flexible medical emergency unit composed of different modules. The unit is specially designed to meet demands in connection with surgical injuries as a result of various disasters and armed conflicts. NorHosp can also be used for other purposes such as the introduction of health services in rural areas, or commercial health preparedness. Nor Hosp is a highly rated field hospital, built in close cooperation with the Norwegian health authorities and several aid organizations.

NorHosp was first designed in 1982 and was reorganized in 1989 and 1992 in order to improve its function in the field. This had led to alterations in the original module system. The various modules in NorHosp fit into most kinds of tents and buildings. However, a shelter module, as well as a technical module containing a generator, lighting equipment, etc., can be provided. NorHosp contains all the medical equipment necessary for the rapid establishing of a field hospital of considerable size. NorHosp can be used one place, packed up and used again in other places. Most of the equipment is smartly packed in lightweight, durable, splashpro-

of plywood cases. Maximum storage time is more or less unlimited. To facilitate classification and organization in the field, all the cases are clearly marked with different numbers and colors, identical to those in the NorHosp catalogue. The cases have measurements that allow them to fit onto euro pallets. They can therefore easily be transported on jeeps, trucks, boats and aircrafts in standard containers and holds.



# INTRODUCTION



The module system makes it possible to split up the complete unit and use the various modules in different combinations. In this way NorHosp can be tailored to meet particular needs.

NorHosp contains all the instruments and equipment necessary for the treatment of adults and children.

Our company can also assist with plans for manning the hospital and coordination of the startup.

## **NorHosp storage**

A total of five complete NorHosps are stored in our warehouse in Oslo. Whenever a Norhosp is released, it will be replaced by a new hospital in the warehouse.

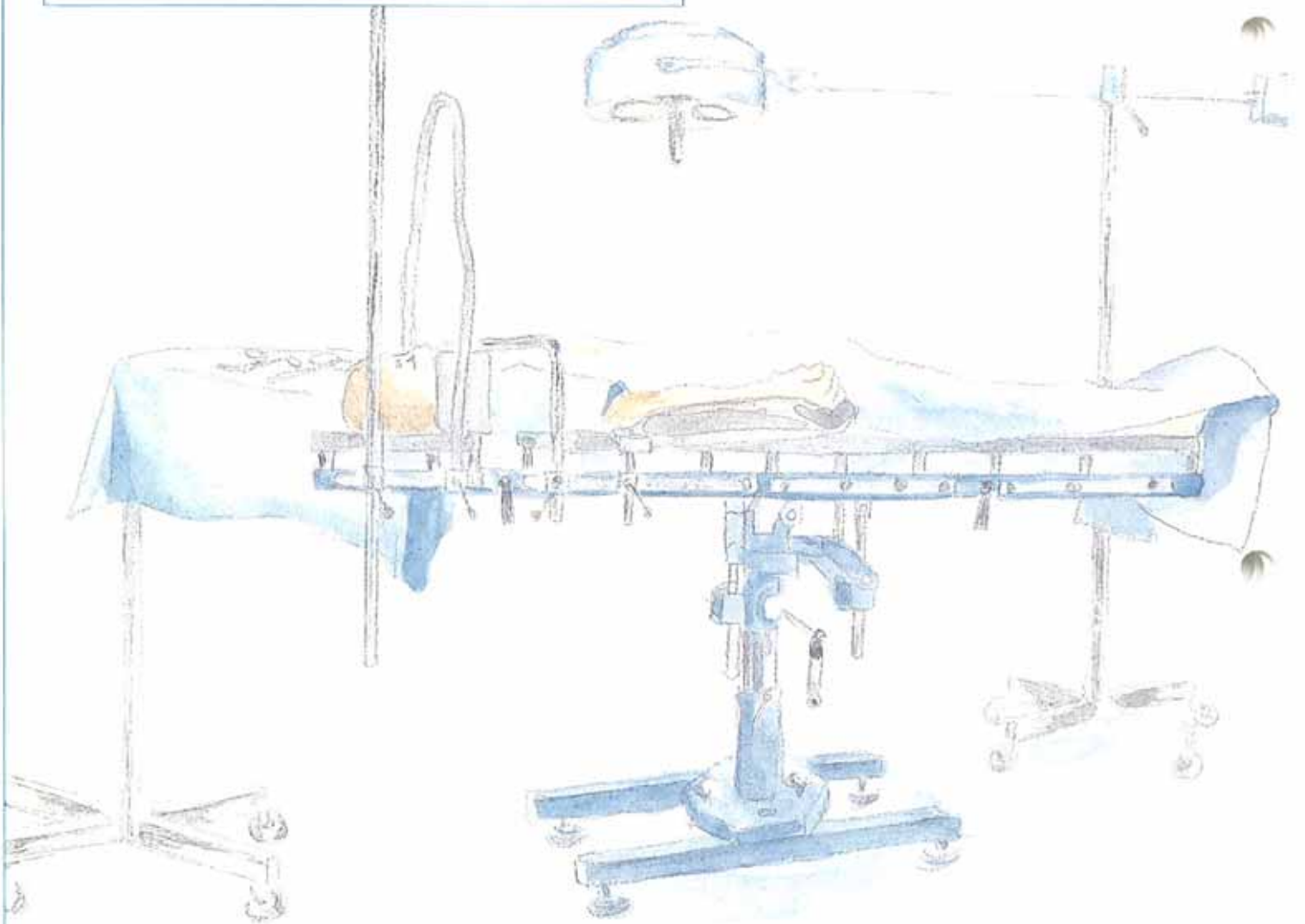
Our logistical department makes it possible to ship a NorHosp to the nearest international airport within 6 hours. A complete NorHosp can be transported to any place in the world, and be fully operational within 72 hours if the flight connections are adequate.

## **How to obtain a NorHosp**

Nor Hosp is available for regular commercial sales purposes, and interested clients should contact as Apotekernes Fællesindkjøp.

Our company is also a member of NOREPS (Norwegian Emergency Preparedness System). This makes it possible to apply for a NorHosp through the Norwegian Ministry of Foreign Affairs.

# SURGICAL MODULE



**E**ach surgical module contains sufficient medical equipment to establish an operating theatre with two operating tables. This is the only module containing lighting equipment. This consists of two operation and two examination lamps.

Two autoclaves allow for continuous sterilization of instruments and textiles. The autoclaves, can be heated either electrically, or with kerosene, gas, etc.

The module also contains electrical suction apparatus, microscope and centrifuge.

The multi-way equipment in the module has a durability of several years.

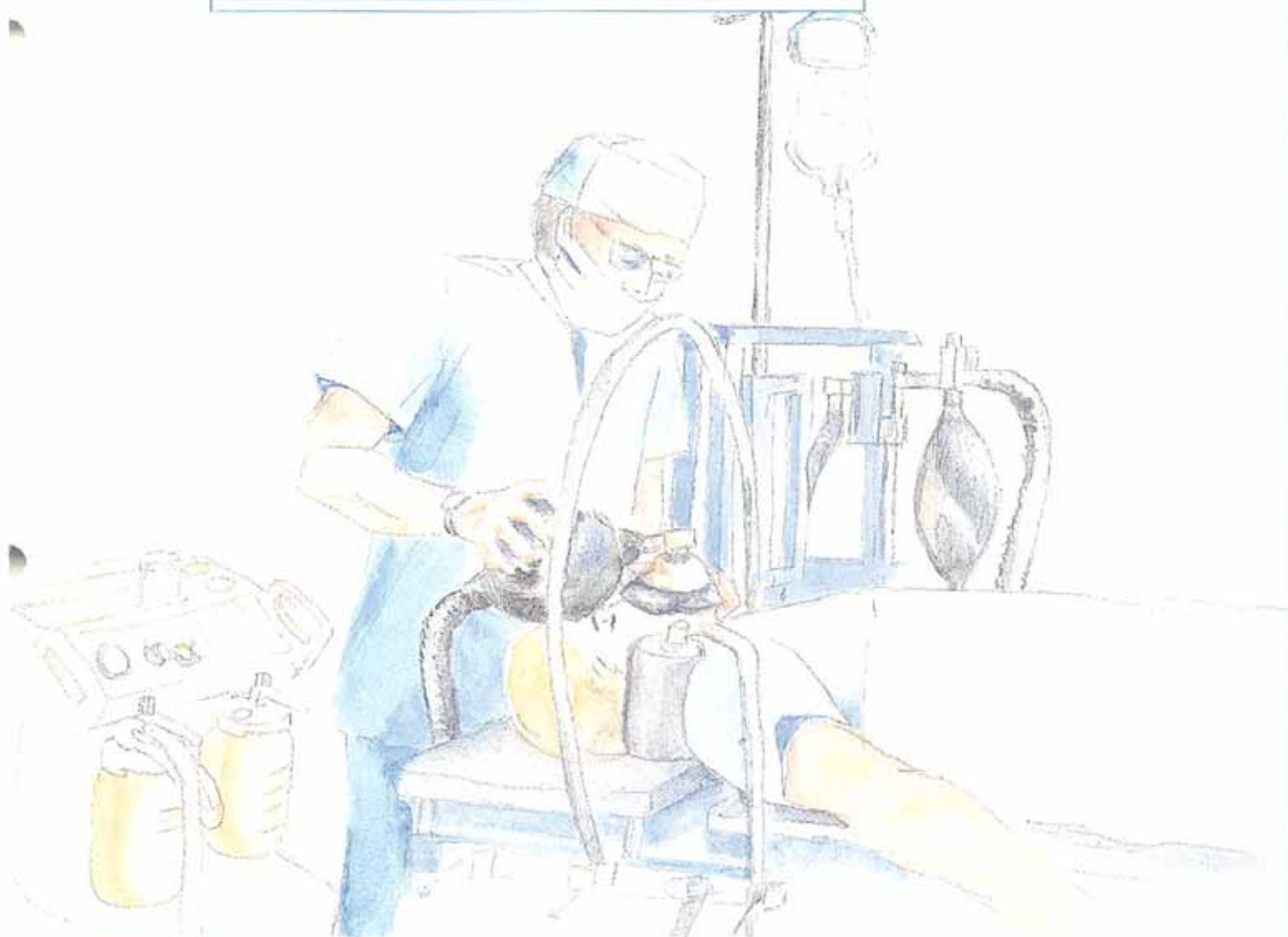
60 80 m<sup>2</sup> (700-900 square feet) of floor space is needed for efficient utilization of the module.

Table of contents for Surgical module

Case No	Contents
1-2	Autoclaves
3	Sterilizer drums
4-7	Operating tables
8	Boiling equipment
9	Boiling equipment, suction apparatus, tools
10	Instrument table, infusion stand, Thomas splint
11	Suction apparatus
12	Anaesthesia apparatus
13	Anaesthesia equipment
14	Operating lamps, examination lamps
15	Microscope, centrifuge

- 16-17 Surgical instruments
- 18-19 Equipment, external fixation
- 20 Splints
- 21 Laboratory equipment
- 22 Needles, scalpel blades, syringes, ligature
- 23 Ostomy bags, oxygen equipment, sterilization paper
- 24 Nursing equipment
- 25 Operating gowns
- 26 Operating gowns, disposable
- 27 Textiles
- 28 Textiles, disposable
- 29 Office equipment, patient cards

# SURGICAL SUPPLY KIT



**T**he 100-10 Surgical Supply Kit is a backup system, that can be ordered in addition to NorHosp. The unit contains sufficient disposable medical equipment necessary for the treatment of 100 surgical patients for 10 days, particularly in the post-operative phase.

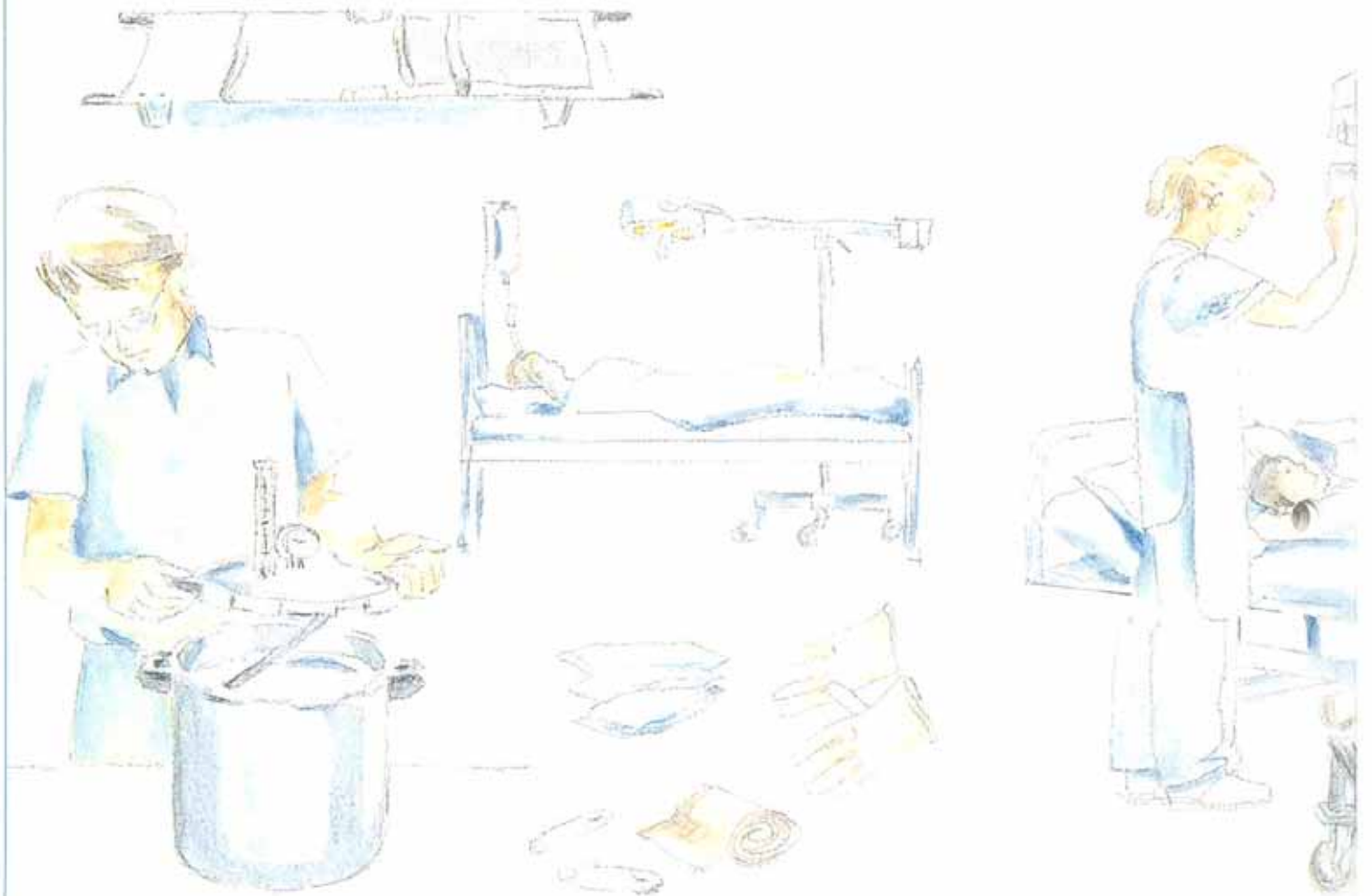
Table of contents  
for 100-10 Surgical Supply Kit

Case No	Contents
1	Catheters / drains
2	Various needles / infusion, spinal puncture equipment
3	Infusion sets / pressure bags, infusion
4-5	Syringes, various sizes
6	Adhesive tape
7	Plastic bags, razors, howls, plastic bags, spatulas, thermometers
8	Burn compresses, paraffin compresses, forceps, gauze swabs
9	Compresses, gauze
10	Sterilization paper

11-14	Compresses, absorbent
15-16	Cellulose, absorbent
17	Urine / colostomy bags / gloves
18	Various tubes and drains
19-20	Thorax drainage, double seal, disposable
21-22	Gloves, surgical
23-25	Gauze bandages
26	Scalpels, sutures, various sizes
27	Compresses, gauze / first aid dressings
28	Adhesive tape / surgical equipment / triangular and tubular bandages
29	Diapers / sanitary towels
30-33	Plaster of Paris



# NURSING MODULE



**E**ach nursing module contains all the necessary nursing equipment to establish and maintain a surgical ward with 50 inpatients, and has sufficient disposables for 14 days. The minimum floor space needed is 180 m<sup>2</sup> (2000 square feet). The number of staff will vary, depending on the condition of the patients and the level of nursing care.

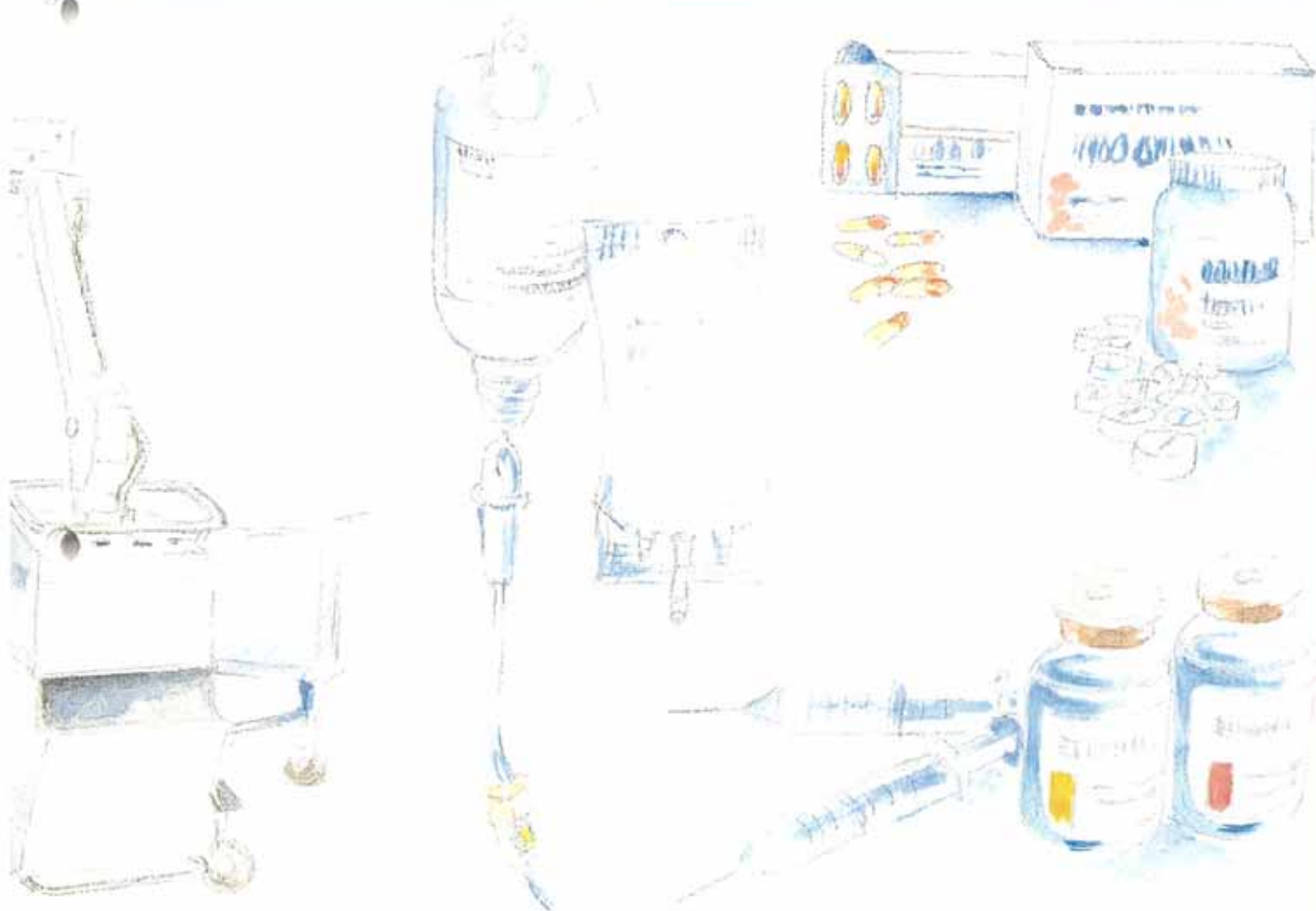
Table of contents for Nursing module

Case No	Contents
1	Medical equipment
2	Catheters, rebreathing equipment etc.
3	Suction apparatus
4	Autoclave, stove, lamp etc.
5	Infusion stands, laundry stands etc.
6	Examination lamp, soaps, disinfectants, etc.
7	Nursing equipment
8	Bedpans
9	Waste bags, cellulose, toilet paper, etc.
10	Wash basins, pitchers
11	Wash tubs, buckets
12	Buckets, kettles, plates
13	Kitchen utensils
14	Towels, washcloths
15	Dressing gowns
16	Sweat suits
17	Gowns, sweat suits
18	Pyjamas
19	Clothing, briefs, socks, sweaters, T-shirts
20	Sweaters
21-25	Blankets, pillows, mattress covers

26-35	Blankets
36-38	Pillows
39-40	Cellulose
41	Chairs
42-43	Tables
44-45	Matresses
46-47	Stretchers
48-51	Stretcher legs
52	Stretcher legs w/wheel

# X-RAY MODULE

# MEDICAMENT MODULE



**T**he X-ray module contains a complete X-ray department including X-ray machine, manual developing equipment, darkroom equipment, chemicals, films, light boxes and protection equipment. Minimum floorspace needed is 10 m<sup>2</sup> (110 square feet) plus 5 m<sup>2</sup> (55 square feet) for the darkroom.

Table of contents for X-ray module

Case No	Contents
1	X-ray machine
2	Light boxes
3	Processing/tank set, etc.
4	Chemicals, films, spare parts

**T**he medicament module contains medicaments and infusion fluids sufficient for treatment of 300 surgical patients (intravenously and orally), half of them with abdomen/ chest injuries. The module is designed to meet the standard WHO and ICRC drug lists. The module can be adjusted according to special needs and conditions.



**Normeca**<sup>AS</sup>

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