## Aid for Ukraine

## Indicative list of mandatory medical equipment for emergency departments for adults and children

|  |  |  |
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| Neck bandage (splint) | Adults | units |
| Kids | units |
| Loads soft type | units |
| Splints | portable | kit |
| vacuum with mechanical aspirator | units |
| Bag valve mask (Ambu bag) | units |
| Oxygen tank | 10 liter | units |
| 10 liter (portable) | units |
| Non-rebreather mask | units |
| Anaesthetic machine portable | units |
| Intubation kit | units |
| Changeable blades (Laryngoscope) | kit |
| Intubation tubes different sizes | units |
| Laryngoscope | units |
| Tubes (airways) | kit |
| Trocar | units |
| Aspirator (medical) | units |
| Pocket mask one-way valve different types | units |
| Mouth dilator | units |
| Tongue holder | units |
| Portable automatic defibrillator | units |
| Electrocardiograph with the possibility of telemetric transmission of electrocardiographic signal | units |
| Sphygmomanometer manual | units |
| Phonendoscope combined | units |
| Neurological hammer | units |
| Glucometer and test strips | units |
| GLOVES | LATEX SURGICAL STERILE GLOVES | pair |
| SURGICAL STERILE GLOVES | pair |
| Medical non-sterile nitrile or neoprene gloves | pair |
| Stomach tube | size 8, 10, 12, 14, 16, 18, 20 | kit |
| size 32 | units |
| Catheter | urological elastic | units |
| for peripheral veins of different sizes | units |
| for suction | units |
| Tweezers | anatomical | units |
| surgical | units |
| Pipette | units |
| Syringe | 2 ml | units |
| 5 ml | units |
| 10 ml | units |
| 20 ml | units |
| Hemostatic clamp | units |
| Kornzang straight | units |
| Scissors | paramedic scissors | units |
| straight | units |
| System for transfusion of infusion solutions and blood substitutes | units |
| Sharp end scalpel medium | units |
| Spatula disposable | units |
| Catheter for infusion into small veins (butterfly type) | units |
| Sterile conicotomy set (2 units) | napkins (5×5 сm) | units |
| scalpel | units |
| intubation tube (10×4 сm) | units |
| surgical gloves | pair |
| Bandage | for intravenous injection | units |
| HAEMOSTATIC ESMARCH BANDAGE | units |
| Medical thermometer | units |
| Rapid tests to determine cardiomarkers | units |
| Test strips for the determination of ketones in urine | units |
| Gauze bandage medical sterile | 5×7 сm | units |
| 5×10 сm | units |
| 7×14 сm | units |
| Medical bandage | elastic tubular | kit |
| elastic  | units |
| Cotton wool hygroscopic (400 gr) | units |
| Non-woven adhesive plaster,5 m long, 3 cm wide  | units |
| Napkins | sterile | 5×5 сm | units |
| 15×15 сm | units |
| with chlorhexidine | 6×10 сm | units |
| with furagin | units |
| **III. Medicines** |
| 1. Heart vessel and hypotensive |
| Epinephrinum hydrochloridum (0,1%, 1 ml) | amp. |
| Atropinum (0,1%, 1 ml) | amp. |
| Nikethamidum (2 ml) | amp. |
| Mesatonum (Phenylephrinum) (1%, 1 ml) | amp. |
| Norepinephrinum (0,2%, 1 ml) | amp. |
| Procainamidum (10%, 5 ml) | amp. |
| Validol |  | tab. |
| Tinct. Valerianae  |  | ml |
| Dopaminum (4%, 5 ml) | amp. |
| Nitroglicerinum (0,0005 g) | tab. |
| Coffeinum natrii benzoas (Coffeinum natrio benzoicum) (20%, 2 ml) | amp. |
| Strophanthinum (0,025%, 1 ml) | amp. |
| Nifedipinum / Phenihidinum (0,01―0,02 mg) | tab. |
| Corgliconum (0,06%, 1 ml) | amp. |
| Magnesii sulfas (25%, 10 ml) | amp. |
| Clonidinum (0,01%, 1 ml) | amp. |
| Propranololum (0,04 g) | tab. |
| Enalaprilum (0,1 g) |  | tab. |
| 2.Antispasmodic |
| Papaverinum hydrochloridum (2%, 2 ml) | amp. |
| Platyphyllini hydrotartras (0,2%, 1 ml) | amp. |
| Drotaverinum (0,04 mg) | amp. |
| 3.Painkillers |
| Metamizolum natricum (50%, 2 ml) | amp. |
| Butorphanolum tartras (0,2%, 1 ml) | syringe tube |
| Lidocainum (2%, 2 ml) | amp. |
| Procainum (0,5%, 5 ml) | amp. |
| Droperidolum (2,5 ml) | amp. |
| Morphinum hydrochloridum (1%, 1 ml) | amp. |
| Trimeperidinum (2%, 1 ml) | amp. |
| Omnoponum (2%, 1 ml) | amp. |
| Diclofenacum (2,5%, 3 ml) | amp. |
| Ketorolacum (3%, 1 ml) | amp. |
| 4. Sorbents and antidote |
| Carbo activatis |  | tab. |
| Acidum methylsilicicum (225 g) | tub. |
| Unithiol (5%, 5 ml) |  | amp. |
| Acidum lipoicum (0,5%, 2 ml) | amp. |
| Methylthioninii chloridum / Methylenum coeruleum (1%, 10 ml) | amp. |
| Natrii thiosulfas (30%, 5 ml) | amp. |
| 5. Blood dispensers |
| Sol. Glucosae (5%, 200 ml) | 5x200 ml |
| Polyglucinum (400 ml) | 4x400 ml |
| Hydroxyethylamylum / Refortan (6%, 250 ml) | 3x250 ml |
| Reosorbilactum (200 ml) | 2x200 ml |
| Natrii chloridum (0,9%, 200 ml) | 5x200 ml |
| 6. Bronchodilators |
| Aminophyllinum (2,4%, 10 ml) | amp. |
| Ephedrinum (5%, 1 ml) | amp. |
| Salbutamolum |  | aer. |
| 7. Antihistamines |
| Diphenhydraminum (1%, 1 ml) | amp. |
| Clemastinum / Tavegyl (1 ml) | amp. |
| Chloropyraminum (2%, 1 ml) | amp. |
| 8. Other drugs |
| Chlorpromazinum (2,5%, 2 ml) | amp. |
| Calcii gluconas (10%, 10 ml) | amp. |
| Furosemidum (1%, 2 ml) | amp. |
| Prednisolonum (30 мг, 1 ml) | amp. |
| Diazepamum (0,5%, 2 ml) | amp. |
| Hydrocortisonum (125 ml) | 5x125 ml |
| Iod solution spirtuosa (5%, 10 ml) | 7x10 ml |
| Insulinum, 200 ОД (5 ml) | 2x5 ml |
| Hydrogenii peroxidum (3%, 30 ml) | 10x30 ml |
| Spiritus aethylicus (70%) | 3x100 ml |
| Solutio Ammonii Caustic (30 ml) | 2x30 ml |
| Acidum ascorbinicum (5%, 1 ml) | amp. |
| Thiaminum (5%, 1 ml) | amp. |
| Piracetamum (20%, 5 ml) | amp. |
| Acidum aminocaproicum (5%, 200 ml) | 2x200 ml |
| Sulfacetamidum / Sulfacylum natrium, guttae ophthalmici (30%, 10 ml) | 1x10 ml |
| Pentaminum (5%, 5 ml) | amp. |
| Natrii oxybutyras (20%, 10 ml) | amp. |
| Disinfectant solution for hand treatment (100 ml) | 3x100 ml |

1. **Medical aid for Territorial Defense units**

|  |
| --- |
| Combat Application Tourniquet (CAT) |
| COMBAT GAUZE Z-FOLD HEMOSTATIC |
| (Israeli bandage) 6″ |
| Thermal blankets  |
| Decompression needles  |
| Trauma shears  |
| Tourniquets for intravenous infusion |
| Venflons of various sizes 14g x 0.45mm (Orange), 16g x 0.45mm (Grey), 18g x 0.45mm (Green), 20g x 0.32mm (Pink), 22g x 0.25mm (Blue)) |
| Saline Solution. Plastic bottle. 200 ml, 250 ml, 400 ml/  |
| IV solution bags  |
| Glucose 5% |
| Adhesive bandage (medical plaser) |
| Ringer's solution |
| Voluven |
| Tranexamic acid |
| Analgin, diphenhydramine |
| Adrenaline |
| Atropine |
| Dicynene |
| Vikasol (Antihemorrhagic agent) |
| nabumetone  |
| Naubufin |
| [Butorphanol](https://en.wikipedia.org/wiki/Butorphanol) |
| Gelofusine (Gelatin agents )  |
| Hydroxyethyl starch (HES/HAES) |

1. **Other**

|  |
| --- |
| bullet-proof vests (class 3 class 4, class 5, class 6)  |
| kevlar helmets |
| night vision binoculars & goggles |
| head torch lights  |
| camouflage nets |
| raincoats |
| kevlar shirts (L) |
| military clothing |
| military boots (sizes 42 and up) |
| tents |
| field beds |
| sleeping bags |
| sleeping mats |
| thermal blankets |
| torches |
| field cookers |
| batteries |
| powerbanks |
| radios  |
| walkie-talkies (Motorola dp 4400 , baofeng bf-888s) |
| flares |
| fuel generators (various types)  |
| electrolytes for batteries |
| dry food packs |

**Fuel Generator for Hospital - Technical specification**

KJ POWER KJDD 825 ATSB generator in a galvanized, noise-reducing casing with automatic transfer switch

|  |  |
| --- | --- |
| Max power (cos φ = 0.8) | 825 kVA, 660 kW |
| Rated power (cos φ = 0.8) | 750 kVA, 660 kW |
| Output voltage stabilization | <1% |
| Rated frequency | 50 Hz |
| Power factor | 0,8 |
| Rated voltage | 230/400 V |
| Number of phases | 3 |
| Engine mark | DOOSAN |
| Engine model | DP222LC |
| Engine capacity | 21,927 L |
| Rated power | 699 kW |
| Type | Turbo CAC |
| Number of engine cylinders and their location | 12 V |
| Number of revolutions | 1500 r/min |
| Cylinder bore X stroke | 128\*142 mm |
| Compression ration | 15:1 |
| Control accuracy | $\leq $1% |
| 100% load fuel consumption | 161,0 Lt/h |
| 75% load fuel consumption | 119,1 Lt/h |
| 50% load fuel consumption | 79,3 Lt/h |
| Exhaust temperature | $\leq $ 600 °С |
| Fuel tank | Integrated, full-metal, galvanized |
| Fuel tank capacity | 1020 L |
| Energy efficiency | 94.3 % |
| Voltage control | ≤±0.5 |
| Length-width-high | 4900\*1700\*2700 mm |
| Dry weight | 5536 kg |