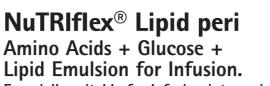
Composition

individual chambers

B. Braun Melsungen AG · 34209 Melsungen, Germany



This product must not be administered in the following conditions

Contraindications

and pulmonary oedema.

serum triglycerides is mandatory.

the level normalizes.

the product.

administered.

nutrition.

disturbances of amino acid metabolism,
 disturbances of lipid metabolism,

Lipid Emulsion for Infusion. Especially suitable for Infusion into peripheral veins.

Supply of energy, essential fatty acids, amino acids, electrolytes and fluids during parenteral nutrition for patients with mild to moderately severe catabolism when oral or enteral nutrition is impossible, insufficient or contraindicated.

Active ingredients – from the upper, left chamber Glucose monohydrate equivalent to anhydrous glucose Sodium dihydrogen phosphate dihydrate Zinc acetate dihydrate		in 125 88.0 80.0 1.170 6.625	0 ml g g g mg	13 12	1875 n 2.0 g 0.0 g 755 g 9.9 mg	17 16 2.3	2500 ml 6.0 g 0.0 g 340 g 3.2 mg	
– from the upper, right chamber Soya-bean oil Medium-chain triglycerides		in 125 25.0 25.0	0 ml g g	3	1875 n 7.5 g 7.5 g	5	2500 ml 0.0 g 0.0 g	
- from the lower chamber Isoleucine Leucine Lysine hydrochloride eq. to Lysine Methionine Phenylalanine Threonine Tryptophan Valine Arginine		in 1250 2.34 3.13 2.84 2.26 1.96 3.51 1.82 0.57 2.60 2.70	a a a a a a a a a a a a a a a a a a a	3 4 3 2 5 2 2 0 3 4	1875 n 8.51 g 4.70 g 4.26 g 3.39 g 4.94 g 5.27 g 4.73 g 5.86 g 5.90 g 4.05 g	4 5 4 3 7 3 1 5 5	2500 ml .68 g .26 g .68 g .52 g .92 g .02 g .64 g .14 g .20 g .40 g	
Histidin hydrochloride monohydrate eq. to Histidine Alanine Aspartic acid Glutamic acid Glycine Proline Serine Sodium hydroxide Sodium chloride Sodium acetate trihydrate Potassium acetate tetrahydrate Calcium chloride dihydrate		1.69 1.25 4.85 1.50 3.50 1.65 3.40 3.00 0.800 1.081 0.544 2.943 0.644 0.441	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1 7 2 5 2 5 4 1.2 1.6 0.8 0.8	2.54 g 1.88 g 7.28 g 2.25 g 2.48 g 5.10 g 4.50 g 1.200 g 1.622 g 0.816 g 4.415 g 0.966 g 0.662 g		3.38 g 2.50 g 9.70 g 3.00 g 7.00 g 3.30 g 6.80 g 6.80 g 1.600 g 2.162 g 1.088 g 5.886 g 1.288 g 0.882 g	
Total nitrogen content Carbohydrate content	[g] [g] [g] [g]	5. 8	0 7 0		60 8.6 120 75		80 11.4 160 100	
Energy in the form of lipid [kJ/(kca Energy in the from of carbohydrate [kJ/(kca Energy in the from of amino acids [kJ/(kca Non-protein energy [kJ/(kca Total energy [kJ/(kca	al)] 13 al)] 6 al)] 33 al)] 40	990 (479 340 (320 670 (160 330 (799 900 (959)))) 5) 5)	6000	(715) (480) (240) (1195) (1435)	8000	(950) (640) (320) (1590) (1910)	
Osmolality [mOsm/l pH Electrolyte content (mmol) Sodium Potassium Magnesium Calcium Zinc Chloride Acetate Phosphate	kg]	3 3. 3. 0.0 4	20 .0 D ml 0 0 0 0 0 3 8 0	5.	1875 n 920 0 - 6.0 1875 n 75 4.5 4.5 4.5 0.045 72 60 11.25	5.	2500 ml 920 0 - 6.0 2500 ml 100 60 6.0 6.0 6.0 0.06 96 80 15	

The ready to use emulsion for infusion contains after mixing of the contents of the

Excipients:

Citric acid monohydrate, egg lecithin, glycerol, sodium oleate, water for injections

Pharmaceutical form

Emulsion for infusion in three-chamber bags containing 1250 ml, 1875 ml and 2500 ml.

Pharmaco-therapeuic group

Emulsion for intravenous supply of amino acids, carbohydrates, fat and electrolytes.

distarbances of hpra metabolism,
 hyperkalaemia; hypernatraemia,
- unstable metabolism (e.g. severe postaggression syndrome, unstabilized diabetic
metabolic situation, coma of unknown origin),
- hyperglycaemia not responding to insulin doses of up to 6 units insulin/hour,
– acidosis,
– intrahepatic cholestasis,
– severe hepatic insufficiency,
– severe renal insufficiency,
– manifest cardiac insufficiency,
 aggravating haemorrhagic diatheses,
 acute phases of cardiac infarction and stroke,
 acute thrombo-embolic events, lipid embolism.
- known hypersensitivity to egg or soya-bean protein, peanut oil or to any of the
excipients.
On account of its composition NuTRIflex® Lipid peri should not be used for neonates,
infants and children under 2 years of age.
General contra-indications to parenteral nutrition are:
 unstable circulatory status with vital threat (states of collapse and shock),
 inadequate cellular oxygen supply,
 states of hyperhydration,
- disturbances of the electrolyte and fluid balance, acute pulmonary oedema, de-
compensated cardiac insufficiency
Special Warnings and Special Precautions for Use
Due to the individual needs of paediatric patients, NuTRIflex® Lipid peri may not
cover sufficiently the total energy requirements. In such cases carbohydrates and / or
lipids must be provided in addition, as appropriate.
Caution should be exercised in cases of increased serum osmolarity.
As for all large-volume infusion solutions NuTRIflex® Lipid peri should be adminis-
tered with caution to patients with impaired cardiac or renal function. Disturbances
of the fluid, electrolyte or acid-base balance, e.g. hyperhydration, hyperkalaemia,
acidosis, should be corrected before the start of infusion. Too rapid infusion can lead
actuosis, should be confected before the start of infusion. Too rapid infusion can lead

to fluid overload with pathological serum electrolyte concentrations, hyperhydration

The serum triglyceride concentration should be monitored when infusing NuTRIflex® Lipid peri. Fasting lipaemia should be excluded in patients with suspected disturbances of lipid metabolism before starting infusion. The administration of lipids is contra-indicated if there is fasting lipaemia. The presence of hypertriglyceridaemia 12 hours after lipid administration also indicates a disturbance of lipid metabolism NuTRIflex® Lipid peri should be administered cautiously to patients with disturbances of lipid metabolism, e.g. renal insufficiency, diabetes mellitus, pancreatitis, impaired hepatic function, hypothyroidism (with hypertriglyceridemia) and sepsis. If NuTRIflex® Lipid peri is given to patients with these conditions, close monitoring of

Any sign or symptom of anaphylactic reaction (such as fever, shivering, rash or dys-

Depending on the patient's metabolic condition, occasional hypertriglyceridaemia or increases of the blood glucose concentration may occur. If the plasma triglyceride concentration rises to more than 3 mmol/l during administration of lipid it is recommended that the infusion rate should be reduced. Should the plasma triglyceride concentration remain above 3 mmol/l the administration should be stopped until

A dose reduction or interruption of administration is also indicated if the blood glucose concentration rises to more than 14 mmol/l (250 mg/dl) when administering

As with all solutions containing carbohydrates the administration of NuTRIflex® Lipid

peri can lead to hyperglycaemia. The blood glucose level should be monitored. If

there is hyperglycaemia the rate of infusion should be reduced or insulin should be

Intravenous infusion of amino acids is accompanied by increased urinary excre-

tion of the trace elements, especially copper and, in particular, zinc. This should be

considered in the dosing of trace elements, especially during long-term intravenous

NuTRIflex® Lipid peri should not be given simultaneously with blood in the same

Moreover controls of the serum electrolytes, the water balance, the acid-base

pnoea) should lead to immediate interruption of the infusion.

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infusion set due to the risk of pseudoagglutination.

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balance and - during long-term administration - of blood cell counts, coagulation status and hepatic function are necessary.

The fat content may interfere with certain laboratory measurements (e.g. bilirubin lactate dehydrogenase, oxygen saturation). if blood is sampled before fat has been adequately cleared from the blood stream.

Substitution of electrolytes, vitamins and trace elements may be necessary as reauired

As NuTRIflex® Lipid peri contains zinc and magnesium, care should be taken when it is coadministered with solutions containing these elements.

As with all intravenous solutions strict aseptic precautions are necessary for the infusion of NuTRIflex® Lipid peri.

NuTRIflex® Lipid peri is a preparation of complex composition. It is, therefore, strongly advisable not to add other solutions.

Pregnancy and Lactation

Preclinical studies have not been performed with NuTRIflex® Lipid peri. The prescriber should consider the benefit/ risk relationship before administering NuTRIflex® Lipid peri to pregnant women.

Breast-feeding is not recommended if women need parenteral nutrition in that time.

Interactions

Some drugs, like insulin, may interfere with the body's lipase system. This kind of interaction seems, however, to be of only limited clinical importance.

Heparin given in clinical doses causes a transient release of lipoprotein lipase into the circulation. This may result initially in increased plasma lipolysis followed by a transient decrease in triglyceride clearance

Soya-bean oil has a natural content of vitamin K,. This may interfere with the therapeutic effect of coumarin derivatives which should be closely monitored in patients treated with such drugs.

Dosage

The dosage is adapted to the individual patients' requirements.

Adults:

The maximum daily dose is 40 ml per kg body weight, corresponding to – 1.28 g amino acids /kg body weight per day

- 2.56 g glucose /kg body weight per day
- 1.6 g fat /kg body weight per day

It is recommended that NuTRIflex® Lipid peri be administered continuously. A stepwise increase of the infusion rate over the first 30 minutes up to the desired infusion rate avoids possible complications

The maximum infusion rate is 2.5 ml/kg body weight per hour, corresponding to

- 0.08 g amino acids /kg body weight per hour

- 0.16 g glucose /kg body weight per hour

/kg body weight per hour – 0.1 g fat

For a patient weighing 70 kg this corresponds to an infusion rate of 175 ml/hour. The amount of amino acid administered is then 5.6 g/hour, of glucose 11.2 g/hour and of lipid 7 g/hour.

Children over 2 years of age:

The given dosage recommendations are guiding data based on average requirements. The dosage should be individually adapted, according to age, development stage and illness. For calculation of dosage account must be taken of the hydration status of the paediatric patient.

For children, it might be necessary to start the nutritional therapy with half of the target dosage. The dosage should be increased stepwise according to the individual metabolic capacity up the maximum dosage.

Daily dose during 3rd - 5th year of life:

- 45 ml/kg body weight, corresponding to
- 1.44 g amino acids /kg body weight per day
 2.88 g glucose /kg body weight per day
- 1.8 g lipid /kg body weight per day.

Daily dose during 6th - 14th year of life: 30 ml/kg body weight, corresponding to

- 0.96 g amino acids /kg body weight per day
- 1.92 g glucose1.2 g lipid
- /kg body weight per day /kg body weight per day.
- The maximum rate of infusion is 2.5 ml/kg body weight per hour, corresponding to
- 0.08 g amino acids /kg body weight per hour
- 0.16 g glucose /kg body weight per hour
- 0.1 g lipid /kg body weight per hour.
- Additional energy that may be required for paediatric patients should be adminis-tered in the form of glucose solutions or fat emulsions, as appropriate.

Method of administration

For intravenous infusion. Especially suitable for infusion into peripheral veins. Preparation of the mixed solution:

Remove the bag from its protective pack and proceed as follows:

• open out the bag and lay on a solid surface

- open the peel seals to the two upper chambers by using pressure with both hands
- briefly mix the contents of the bag together

Preparation for infusion:

fold the two empty chambers backwards

- hang the mixing bag on the infusion stand by the centre hanging loop
- · remove the protective cap from the run-out port and carry out infusion using the normal technique

Duration of use

he duration of treatment for the indications stated should not exceed 7 days

Overdose

Overdose of NuTRIflex[®] Lipid peri is not to be expected on proper administration. Symptoms of fluid and electrolyte overdose

Hypertonic hyperhydration, electrolyte imbalance and pulmonary oedema

Symptoms of amino acid overdose:

Renal amino acid losses with consecutive amino acid imbalances, sickness, vomiting and shivering

Symptoms of glucose overdose:

Hyperglycaemia, glucosuria, dehydration, hyperosmolality, hyperglycaemic and hyperosmolar coma.

Symptoms of lipid overdose:

Lipid overdose may lead to the overload syndrome, characterised (for example) by fever, headache, abdominal pain, fatigue, hyperlipaemia, hepatomegaly with or without jaundice, splenomegaly, pathological disturbances of liver function, anaemia, reduction in platelet count, reduction in white cell count, haemorrhagic diathesis and haemorrhage, alteration or depression of blood coagulation factors (bleeding time, coagulation time, prothrombin time etc.). The plasma triglyceride concentration should not exceed 3 mmol/l during infusion.

Emergency treatment, antidotes,

Immediate cessation of infusion is indicated for overdose. Further therapeutic measures depend on the particular symptoms and their severity. When infusion is recommenced after the symptoms have declined it is recommended that the infusion rate be raised gradually with monitoring at frequent intervals.

Undesirable effects

Possible early reactions on the administration of lipid emulsions are: slight increase in temperature, flush, cold feeling, shivering, loss of appetite, nausea, vomiting, respiratory distress, headache, pain in the back, bones, chest and lumbar region, fall or increase in blood pressure (hypotension, hypertension), hypersensitivity reactions (e.g. anaphylactic reactions, dermal eruptions). Hot flushes or bluish discoloration of the skin due to reduced oxygen content of the

blood (cvanosis) can occur as side effects.

If these side effects occur the infusion should be discontinued or, if appropriate, the infusion should be continued at a lower dose level.

Attention should be paid to the possibility of an overloading syndrome This can occur as a result of individually varying, genetically determined metabolic conditions and can occur at different rates and after differing doses depending on previous disorders.

Overloading syndrome is associated with the following symptoms: enlargement of the liver (hepatomegaly) with and without jaundice (icterus), enlargement of the spleen (splenomegaly), fatty infiltration of the organs, pathological hepatic function parameters, anaemia, reduction of white cell count (leucopenia), reduction of platelet count (thrombocytopenia), a tendency to haemorrhage and haemorrhages, alterations or reduction in the blood coagulation factors (bleeding time, coagulation time, prothrombin time etc.), fever, hyperlipaemia, headache, stomache-ache, fatigue.

If signs of vein wall irritation, phlebitis, or thrombophlebitis occur, change of the infusion site should be considered.

Please inform your doctor or pharmacist if you notice any undesirable effect that is not mentioned in this leaflet.

Instructions for storage / use / handling Do not use the product beyond the expiry date stated on the labelling.

The emulsion is to be used immediately after mixing. It can be stored at 2 - 8 °C over 4 days, plus 48 hours at 25 °C.

The ready-to-use emulsion can be stored for 4 days at 2 – 8 $^\circ$ C plus 48 hours at 25 $^\circ$ C. The emulsion is to be used immediately after connecting the container to the giving set

NuTRIflex® Lipid peri is supplied in single dose containers. Unused residues must be discarded.

If filters are used they must be lipid-permeable

Do not store above 25°C.

Do not freeze. If accidentally frozen, discard the bag. Only use bags that are undamaged and in which the amino acid and glucose solutions are clear. Do not use bags where there is discernible phase separation (oil drops) in the chamber containing lipid emulsion.

B. Braun Melsungen AG 34209 Melsungen, Germany

Keep bags in the outer carton in order to protect from light.

Date of last revision 01.2006

- Presentation : NuTRIflex® Lipid peri 1250 ml, 1875 ml, 2500 ml 3 chamber compartment bag Reg. No.: DKI1386701849A1
- Harus dengan resep dokter Licence Holder
- PT. Phapros Tbk., Indonesia
- Imported by:
- PT. B. Braun Medical Indonesia Jakarta, Indonesia. Manufactured by:

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