Parenteral nutrition (PN) Intravenous for Adults (Kabi) (FRIDGE PREPARATION)

Who can administer

May be administered by registered competent doctor or nurse/midwife

Important information

- **Not routinely stocked in GUH- must be discussed between Dietietics and Pharmacy on an individual patient basisÂ**
- A **terminal FILTER should be used** for all patients receiving parenteral nutrition. Unless otherwise instructed by the dieticians use a **1.2micron Intrapur Braun filter REF 4099702. ORDER from SURGICAL STORESÂ ITEM CODE FTC326 (Updated 3 Dec 2024)**
- **Strict aseptic technique** isÂ vitalÂ when preparing PN - use a clean trolley with a sterile surgical sheet
- A DEDICATED CVC lumenÂ must be used
- Excessively fast administration rate can lead to nausea, vomiting, shivering and electrolyte disturbances
- **PNÂ must be prescribed** on the drug kardex
- Addition of **electrolytes can be fatal**, **DO NOT add unless on written advice of** an experienced PN pharmacist

Â	**Kabi 6c**Â	**Kabi 8C**	**Kabi 11C**	**Kabi 19C**	**Kabi 25C (fat free)**	**Kabi 5C**Â
Route of administration	**Central line**	**Central line**	**Central line**	**Central line**	**Central line**	**Central line**Â
Â	**Content per bag**	**Content per bag**	**Content per bag**	**Content per bag**	**Content per bag**	**Content per bag**
Total bag volume	2000mlÂ	2000mlÂ	2302ml	1000mlÂ	Â 2000ml	Â 1536ml
Nitrogen (g)	15	18	Â 18	11Â	Â 15	Â 9
Amino acids (g)	87.5Â	Â 105.1	Â 105.1	64.2Â	Â 87.5	Â 52.5
Total calories (kcal)	Â 2211	Â 1731	2211	1278Â	Â 1950	Â 1521
Non-protein calories (kcal)	Â 1861	Â 1311	1791	1021Â	Â 1600	Â 1311
Glucose calories (kcal)	Â 1000	Â 800	1060	500Â	Â 1600	Â 800
Lipid calories (kcal)	Â 861	Â 511	731	521Â	Â nil	Â 511
Non-protein calories/nitrogen ratio (kcal/g N)	Â 124	Â 73	Â 99.5	93Â	Â 107	Â 147.5

Sodium (mmol)	Â 80	Â 60	84.3	40Â	Â 72	Â 72
Potassium (mmol)	Â 80	Â 80	84	40Â	Â 60	Â 10
Magnesium (mmol)	Â 12	Â 12	12.2	5Â	Â 5	Â 1.5
Calcium (mmol)	Â 5	Â 5	7	2.5Â	Â 5	Â 5
Phosphate (mmol) (inclusive of SMOFLipid and Vitlipid)	Â 27.7	Â 30	25	15Â	Â 25	Â 7.7
Acetate (mmol) (from Aminoven 25)	Â 87.6	Â 105	Â 105	66.5Â	Â 87.6	Â 52.53
Chloride (mmol)	Â 127	Â 97	142.3	62Â	Â 92	Â 83.39
pH	Â no data	Â no data	Â no data	no dataÂ	Â no data	Â no data
Osmolarity (mOsm/L)(approx)	Â 1374	1274Â	Â 1302	Â 1596	Â 1678	Â 1255

Methods of intravenous administration

Continuous intravenous infusion (administer using an electronically controlled infusion device)

- Administer at a rate specified by dietitican - via Central Line only for regimens with 'C' in regimen name, e.g.Â Kabi 5C, 6C, 8C, 11C, 19C, 25C

Dose in adults

1: Normal dose

- The dose and rate of administration varies - consult dietician for guidance for each individual patient
- Normally the rate is increased gradually during the first 24 to 48 hours, and is then adjusted depending on total volume to be given and the time over which it is to be administered

Monitoring

- Monitor water and electrolyte balance, serum osmolarity, trigylcerides, acid/base balance, blood glucose, U&E's and LFT's throughout treatment
- Serum triglyceride concentrations must be checked twice weeklyÂ - see Parenteral Nutrition guidelines 2015 (Q pulse: CLN-DIET-054)Â

Further information

- Allergens:Â **Egg** protein,Â **fish, soya, nuts -** contact pharmacy for further details
- **Other formulations**:Â are available if requested by the Nutrition Department
- Erroneous information supplied by manufacturer yet to be confirmed in writing (*C non-protein energy 1321 kcal not 1311)

Storage

- Light protection recommended when in use -Â Red plastic covers provided
- Store in refrigerator

- If the bag has been out of the refrigerator **for more thanÂ 2 hours-** it must be discarded
- If it has been out of the refrigerator **for less thanÂ 2 hours before hanging**- it may be put back into the fridge
- Do not freeze

References

(1) Data on file fromÂ Kabi November 2017(2) Communication with Dietetics Department UHG

Therapeutic classification

Intravenous nutrition