

JOULIE'S SOLUTION

(JOULIE'S SOLUTION = 1 MMOL PHOSPHATE/ML, 0.76 MMOL SODIUM/ML)

CONTENT: ⁽¹⁾

Drug Name : Joulie's Solution (13.6 g/100 ml)
Volume of preparation : 100 ml

Ingredients:	
Disodium Hydrogen Phosphate	13.6 g
Acid Phosphoric 85%	5.88 g
Raspberry Essence	0.2 ml
Syrup	25 ml
Chloroform Water Conc. 10%	1.5 ml
Distilled Water to	100 ml

DOSE:

Hypophosphataemia⁽³⁾

Neonate: 1mmol/kg daily in 1-2 divided doses, dose adjusted as necessary.

Child 1month-4years: 2-3mmol/kg daily in 2-4 divided doses (maximum initial dose 48mmol per day), dose adjusted as necessary.

Child 5-17 years: 2-3mmol/kg/daily in 2-4 divided doses (maximum initial dose 96mmol per day), dose adjusted as necessary.

Oral replacement: ⁽²⁾

1-2mmol/kg per day in divided doses with feeds.

Consider this route if the baby is on half oral feeds

Maximum dose daily not to exceed 2mmol/kg

References

- 1) Unit Pemonitoran Drug Terapeutik dan Penyediaan Farmaseutikal, Jab. Farmasi, Hosp. USM.
- 2) Canterbury District Health Board-Sodium Dihydrogen Phosphate. Retrieved on 12/8/2020 from: <https://cdhb.health.nz/wp-content/uploads/2913a2d1-sodium20dihydrogen20phosphate.pdf>
- 3) LHT Paediatric Administration Guide Oral Phosphate. Retrieved on 12/8/2020 from: <http://www.leedsformulary.nhs.uk/docs/PaediatricPhosphateOralMonograph.pdf>

INDICATIONS: ⁽²⁾

- Hypophosphatemia (including rickets and osteomalacia)
- Hyponatraemia – oral supplement when the phosphate is also low, the ALP is elevated and Human Milk Fortifier (HMF) is contraindicated

CONTRAINDICATIONS:⁽²⁾

Hyperphosphataemia, hyperkalemia, hypocalcaemia, hypomagnesaemia, hypernatraemia.

Caution in impaired renal function, cardiac disease, adrenal insufficiency and dehydration.

MONITORING:⁽²⁾

Serum calcium, phosphate, potassium, sodium, magnesium and urine output should be monitored

If HMF and sodium dihydrogen phosphate are used concurrently, the baby needs monitoring of the phosphate and calcium levels and a change to monotherapy should occur as soon as possible. ⁽²⁾

Calcium should not be given at the same time as phosphate. At least two hours should be left between doses of calcium and phosphate. ⁽²⁾

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