



ESPEN Congress Glasgow 2002

Key Issues in Paediatric Nutritional Support

Children are not just little Adults

Peter Milla

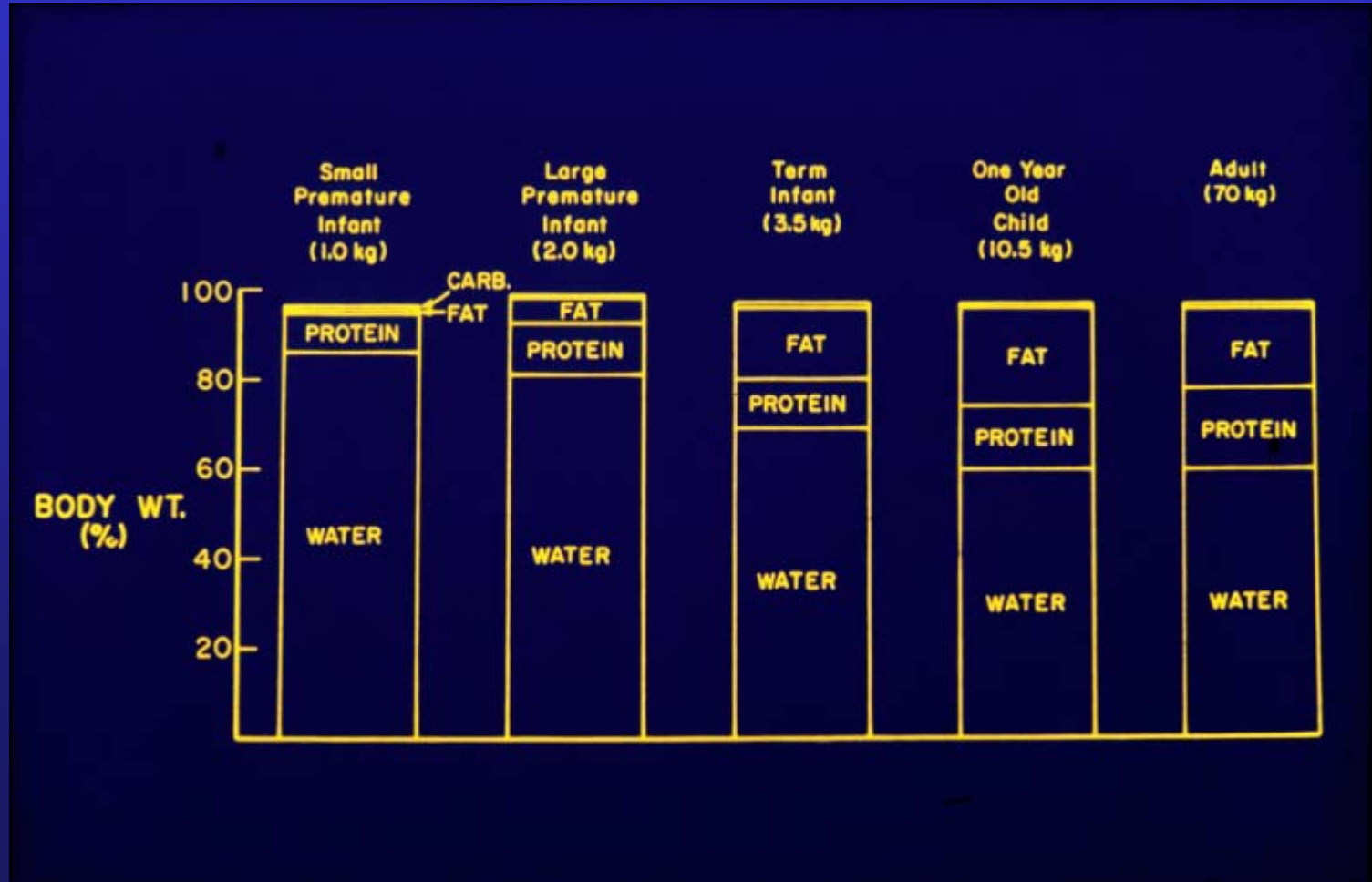
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Children are not just little Adults

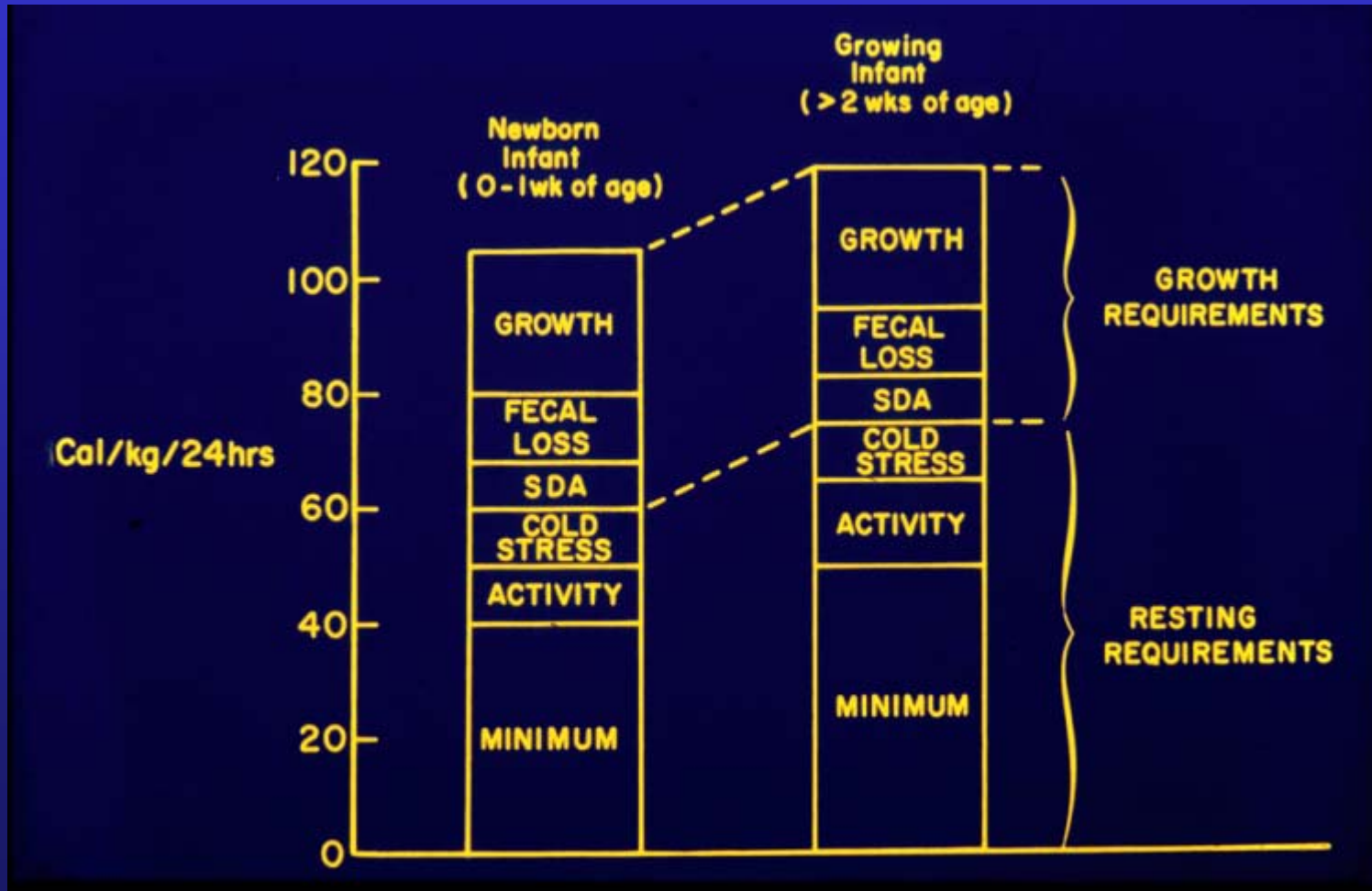
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Calories requirements - conditionally essential amino acids
manganese toxicity

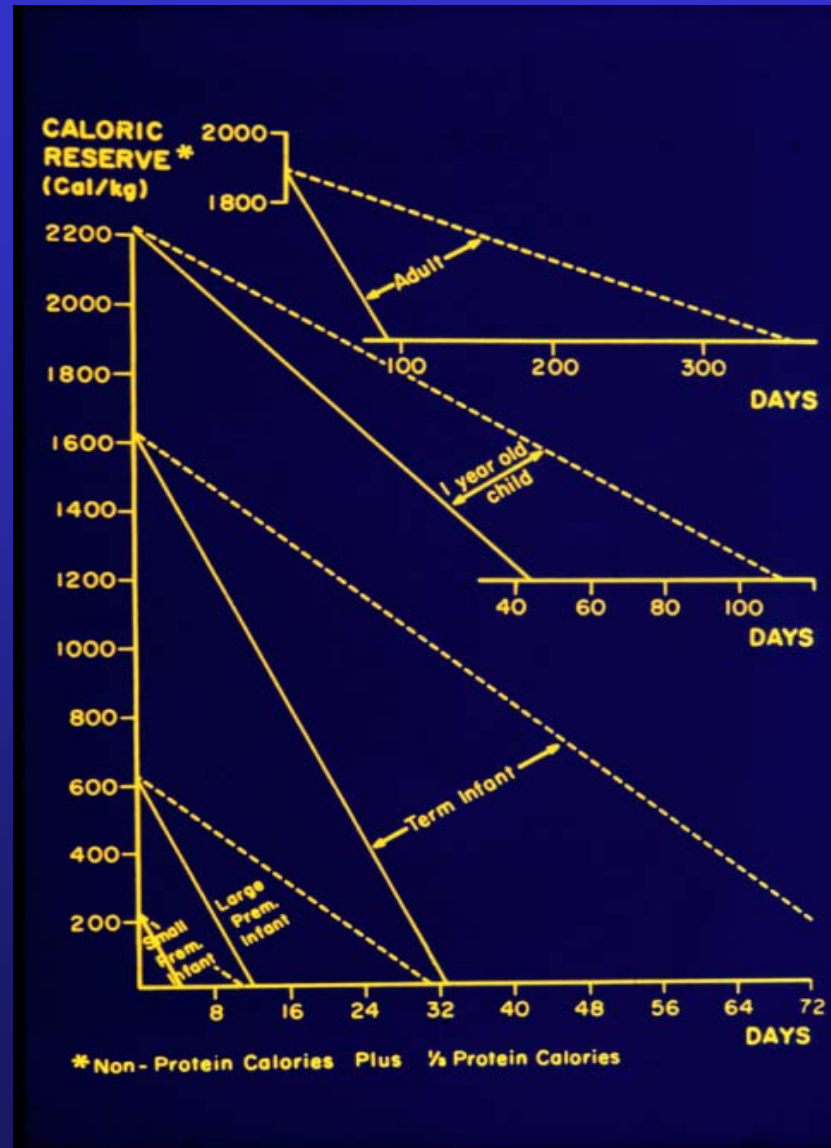
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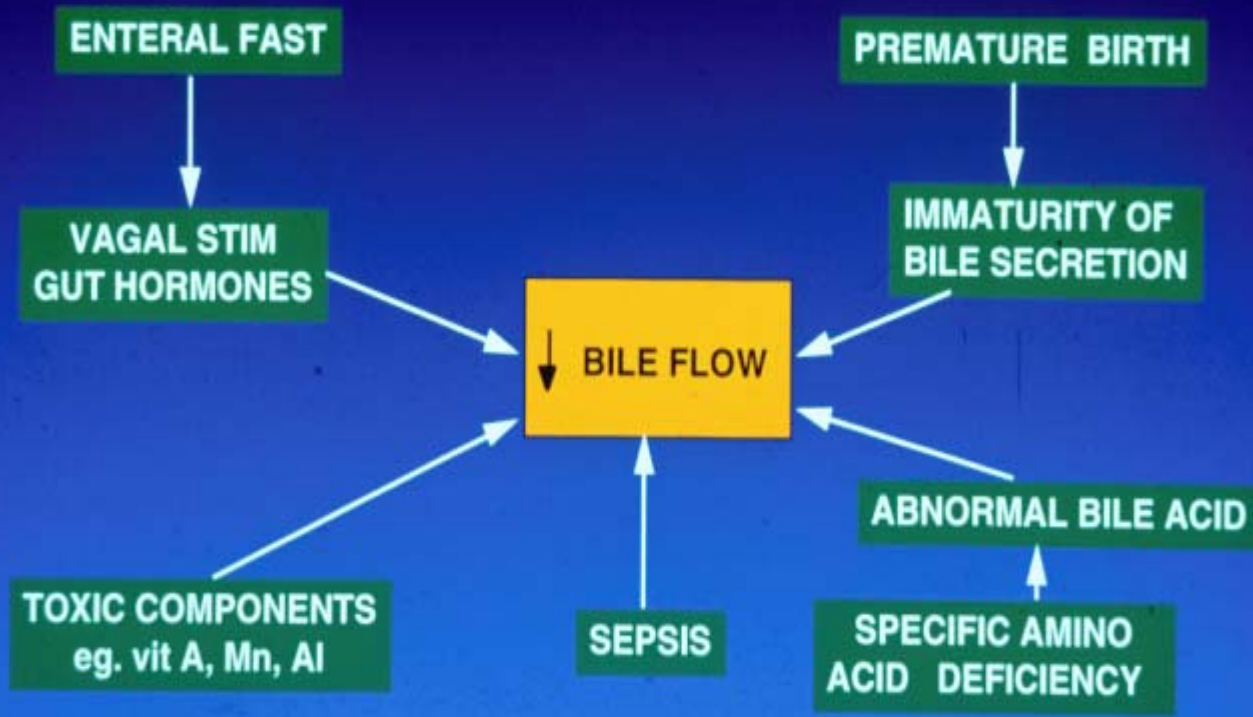
Conditionally essential amino acids

- Taurine
- Glutamine
- Cystine
- Alanine
- Histidine

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TPNAC - MODEL

(Sinatra, F R 1982)



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Manganese Toxicity

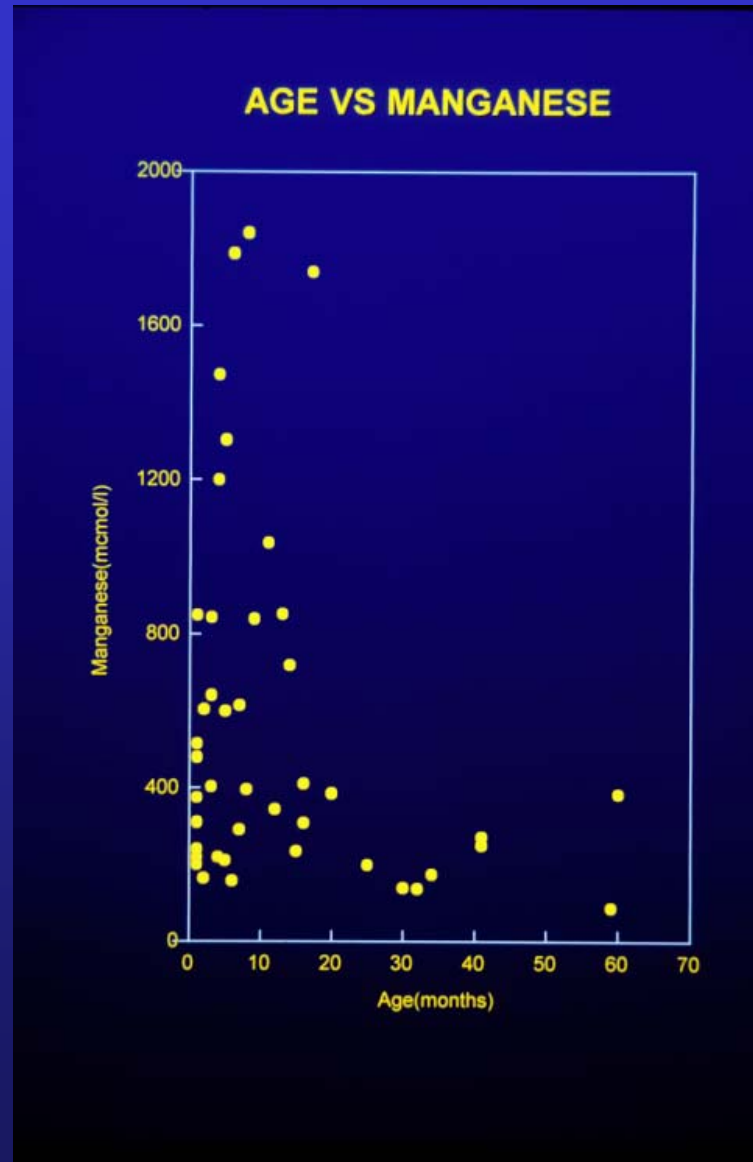
Long Term PN

63pts (0 - 5 yrs)

11/63 cholestasis Mn 600nmol/L

6/63 basal ganglion depositions
2 dystonia

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Conclusions

- Limited survival capacity
- Rapid growth
- High nutrient requirements
- Developmental factors
 - Organ development - brain, liver
 - Organ immaturity - conditionally essential nutrients
 - toxicity - nutrients, sepsis.

No references provided by the author(s)