

Implementation of a standardised parenteral nutrition solution on a neonatal ward



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What was done?

- Multidisciplinary development of a standardised neonatal parenteral nutrition (PN)
- Manufacturing of the ready-to-use double-chamber infusion bag by an industrial partner.
- Implementation as "standard-of-care" for newborn term and preterm infants requiring nutritional treatment within their first days of life

Why was it done?

Composed of about 14 different ingredients, PN is essential for a good cerebral and neurologic development as well as a postnatal weight gain

Medication errors are often related to PN including prescription, transcription, preparation and administration

→ PN is a complex and high-risk fabrication

→ ME can result in growth retardation, developmental disturbances and infections



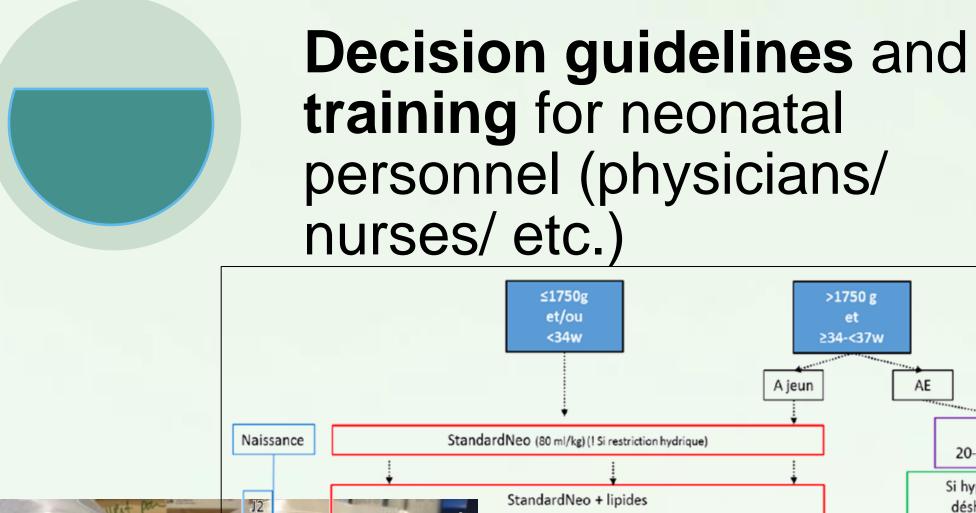


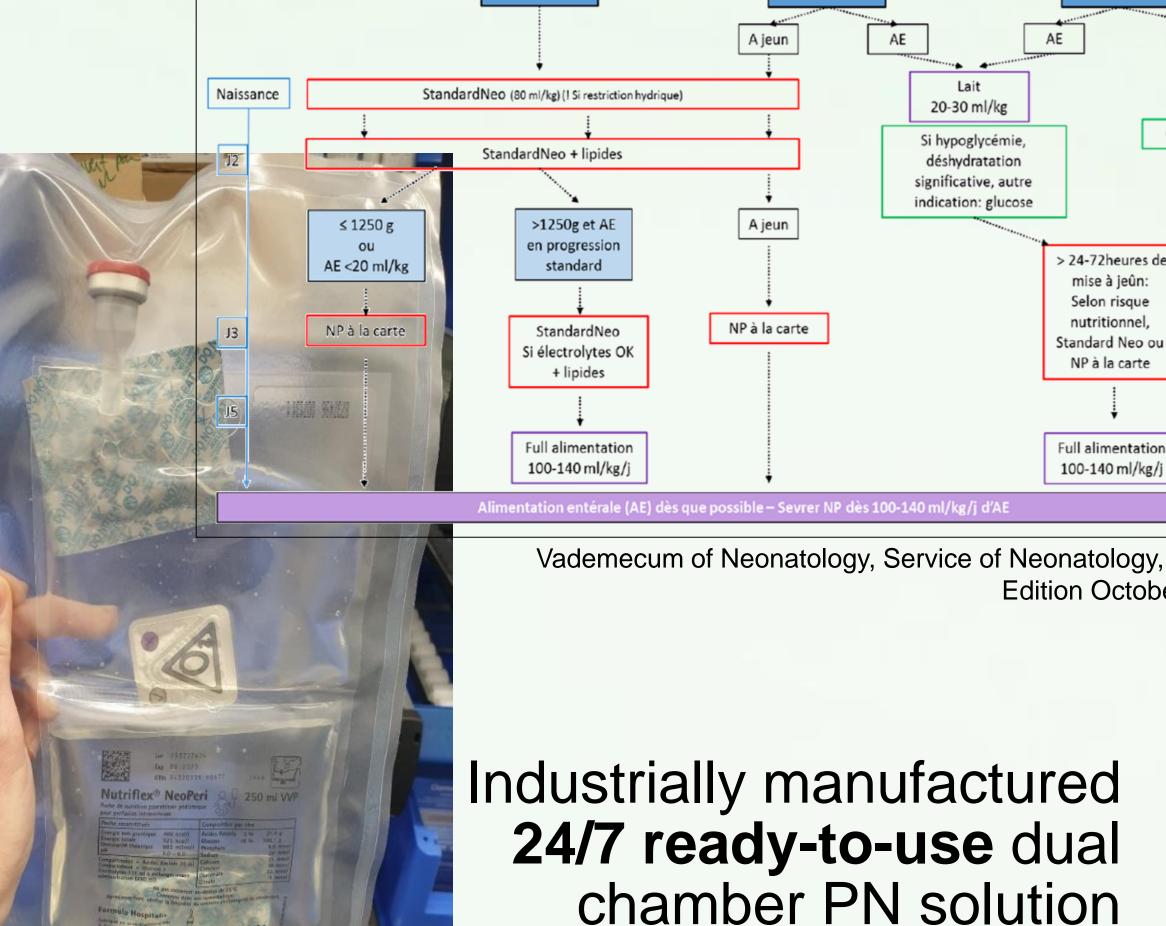




In accordance with applicable guidelines







solution and standard Vademecum of Neonatology, Service of Neonatology, CHUV, procedures Edition October 2022

Glucose



Including standard PN

Standard of Care

on neonatal ward

24/7 ready-to-use dual chamber PN solution

What has been achieved?



reduction of on-ward PN preparations by nurses

of individual PN prepared at the hospital's pharmacy replaced

reduced and patient safety raised by standardised PN management

~ Development of further standardised PN for newborn infants -> Safe nutritional treatment.

<u>comes</u> ~ Expansion to other Swiss hospitals > National standardisation of nutritional treatment for neonates.

~ Prohibition of on-ward PN preparations and takeover at the pharmacy -> Prevention of undetectable ME.





