Patient started on invasive mechanical ventilation in the ICU within the past 24 h or, if mechanically ventilated before ICU admission, admitted to the ICU within the past 24 h, given vasoactive amine therapy, and having none of the exclusion criteria.

**RANDOMIZATION = D0**

**PN group** (ternary admixture used routinely in the study center)
Start at 20-25 Kcal/Kg/d + trace elements and vitamins

**EN group** (isocaloric preparation used routinely in the study center)
Start at 20-25 Kcal/Kg/d + trace elements and vitamins

**EVALUATION AFTER 72 H OF PN**

No vasoactive amines for 24 consecutive hours AND lactic acid <2 mmol/L AND patient eligible for enteral nutrition

**NO**

Daily reevaluation

Continue PN (20 Kcal/Kg/d)

**YES**

Stop PN and start EN 20 Kcal/Kg/d

**D7**

**D8**

Stop PN

- E: 25-30 Kcal/Kg/d
- Supplemental PN possible if persistent intolerance to EN

**Monitor EN**
(see protocol for managing intolerance, Figure 2)

D Extubation = End of study