

Comparison of Respiratory Support After Delivery in Infants Born Before 28 Weeks' Gestational Age: The CORSAD Randomised Clinical Trial



Objective

To compare the use of the Inspire rPAP™ system with a standard T-piece system with a face mask (Fisher & Paykel Neopuff™) for initial respiratory support and stabilisation in the Delivery Room (DR).

Methods

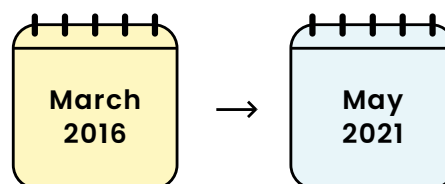
A multi-centre randomised trial led by investigators from The Karolinska Institute, Stockholm.

Setting

7 Neonatal intensive care units in 5 European countries - Iceland, Lithuania, Norway, Poland and Sweden.



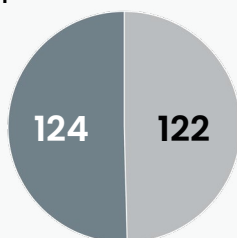
Duration



Randomisation

Performed in a 1:1 ratio to one of the two systems when birth was imminent.

Participants



■ New system
■ Standard T-Piece

Mean gestational age = 25.9 (1.3) weeks



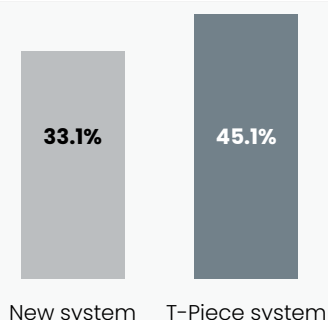
Female (51.6%)



Male (48.4%)

Results

12% fewer babies (33.1%) on the new system met the primary outcome of intubation or death compared to 45.1% of those managed with the standard T-piece system.



Conclusion

Reducing the need for intubation in preterm infants is a key part of international neonatal stabilisation guidelines (ILCOR) as it can save lives and reduce complications such as IVH and BPD. The CORSAD study demonstrates that using the Inspire rPAP system for stabilising extremely preterm infants reduces delivery room intubation.

References:

Donaldsson, S. et al (2021) Comparison of Respiratory Support After Delivery in Infants Born Before 28 Weeks' Gestational Age – The CORSAD Randomized Clinical Trial. JAMA Pediatrics, published online June 14, 2021

Gaertner VD, Rüegger CM, O'Curraín E, et al Physiological responses to facemask application in newborns immediately after birth Archives of Disease in Childhood – Fetal and Neonatal Edition 2021;106:381–385

*The Neopuff is a trademark of Fisher and Paykel Healthcare Limited

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