Another Approach to Assisted Ventilation in the Treatment of Hyaline Membrane Disease (HMD)

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Thirty-six infants (mean birthweight 1709 g) with severe HMD were treated with intermittent mask and bag ventilation as an alternative to the mechanical respirator. Previous therapy with oxygen, NaHCO₃, glucose infusion and thermoregulation was judged to have failed when the infant attained a score > 3 on the following table.

0

1 2

3

Two periods of apnea

PaO₂(100%)

mm Hg

> 70

50–70

< 50

pH

> 7.30

7.20–7.30 7.0–

7.19

< 7.0

> 45 sec=3

PaCO₂ mm Hg

a z σ

< 60

60–70 71–
–80
> 80