

# Bronchopulmonary Dysplasia

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## Statements

*Belonging to the PhD thesis*

### Bronchopulmonary Dysplasia:

#### New Developments in Treatment and Prevention

1. The arrest of lung development is key feature of Bronchopulmonary dysplasia (BPD). Arrested lung development is characterized by fewer alveoli and lung vessel, hampering neonatal gas exchange (*this thesis*)
2. The disruption of lung development is the main reason why standard therapies are not effective in treating BPD . Regenerative medicine can be a game-changer in the history of BPD. Mesenchymal stem cells and their precursors (Pericytes) seem able to restore the arrest in lung development in the animal model of BPD (*this thesis*)
3. BPD is a multifactorial disease that occurs in the youngest and sickest preterm infants. Prenatal and post-natal insults, including infections, can worsen the BPD picture and increase the risk of developing BPD (*this thesis*)
4. Infection prevention by probiotics does not affect the risk of developing BPD in preterm infants (*this thesis*)
5. An exclusive diet with mother own's milk, may reduce the incidence of BPD (*this thesis*)
6. Human milk is not just a food; it also complements the immaturity of organs in infants (*Peter Hartmann*)
7. Stem cell research can revolutionize medicine, more than anything since antibiotics (*Ronald Reagan*)
8. Working in the NICU is like playing in an orchestra: the sound of the orchestra is tuned by the oboe; the harmony of the NICU team is tuned by its little patients.
9. Reality is the most honest and stubborn teacher
10. A few observation and much reasoning lead to error; many observations and a little reasoning to truth (*Alexis Carrel*)
11. The important thing is not to stop questioning. Curiosity has its own reason for existing (*A. Einstein*)