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Treatment of microalbuminuria in Metabolic Syndrome (survey)

Author: Blagica Panova

Co-authors: G.Panova, N.Velickova, N.Panov, L.Nikolovska, V.Dzidrova

Mentor: Prof. Dr. Gordana Panova **Faculty:** Faculty of Medicine Shtip

Abstract Body: Background:

During the years, the definition of bronchopulmonary dysplasia (BPD) differs. That makes comparing the results difficult.

Aim:

To evaluate the frequency by birthweight and gestational age according to the new diagnostic criteria for BPD, and the main risk factors.

Methods:

563 very-low-birth-weight infants (\1,500 g) were admitted to NICU from 01.2008 to 06.2010. 485 survived more than 28 days and were included in this study. BPD was diagnosed if supplemental O2 for the first 28 days was necessary. O2-requirements at 36 gestational weeks (gw) determine the severity level.

Results:

26.8% from the infants developed BPD. 13.6% were with supplemental O2 at 36 gw (the classical diagnostic criteria for BPD). 10.9% were with moderate BPD, 2.7%—with severe BPD. The BPD frequency reduced progressively: from 100% at 23 gw or birthweight\600 g to 0% at 33 gw and 7% at birthweight 1,401-1,500 g. Mild BPD was more likely if gestational age was[27 gw. The need for ventilator support increased from 1.5 (± 2.8) days (non-BPD group) to 50.2 (± 20.1) days (severe BPD), p\0.05. Patient ductus arteriosus was diagnosed in 25.4%; pneumothorax in 3% of the BPD infants compared with 1.7% and 0.5% of non-BPD infants respectively,p\0.05. Sepsis and pulmonary hemorrhage were found more frequently in the BPD group too.

Conclusion:

According to the new diagnostic criteria, the frequency of BPD is about 2 times higher compared to the classical definition. The main risk factors are ELBW, ELGA, and duration of the assisted ventilation, patient ductus arteriosus and air leak syndrome.

Keywords: birthweight, bronchopulmonary dysplasia