



***Association of Bronchopulmonary Dysplasia With
Polymorphisms of Tumor Necrosis Factor (α) Gene
Among Premature, Low Birth Weight Infants***

Thesis

**For Fulfillment Of PhD in Childhood Studies
Child Health and Nutrition**

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List of Abbreviations

AA	Arachidonic acid
ALT	Alanin aminotransferas
AOE	Antioxidant enzyme
AOS	Antioxidants
APC	Antigen presenting cell
AST	Asprtit aminotransferas
BAL	Bronchoalveolar lavage
BCG	Bacille Calmette Guerin
BPD	Bronchopulmonary dysplasia
BW	Birth weight
CBc	Complete blood counte
CD	Cluster of differentiation
CI	Confidence interval
CLD	Chronic lung disease
CMV	Conventional mechanical ventilation
CO ₂	Carbon dioxide
COX	Cyclo oxygenase
CP	Cerebral palsy
CPAP	Continuous positive air pressure
CPR	Cardiopulmonary resuscitations
CRP	C reactive protein
CT	Computerized tomography
CTL	Cytolytic T lymphocyte

Cu	Copper
d	Day
DEHP	Dizethylhexy phthalate
DNA	Deribo nucleic acid
ELBW	Extremely low birth weight
FEF	Forced expiratory flow
FEV ₁	Forced expiratory volume in one second
FIO ₂	Fraction of inspired oxygen
FIRs	Fetal inflammatory response syndrome
FRC	Functional residual capacity
FVC	Forced vital capacity
GA	Gestational age
H ₂ O ₂	Hydrogen peroxide
HFOV	High frequency oscillatory ventilation
HFV	High frequency ventilation
HRCT	High resolution computed tomography
IGF-I	Insulin growth factor. I
IL	Interleukins
IM	Intra muscular
INF	Interferon
INO	Inhaled nitric oxide
IV	Intra venous
IVH	Intra ventricular hemorrhage
Kb	Kappa b

KD	Kappa D
KL	Krebs Lung
LCPUFAs	Long chain Poly unsaturated fatty acids
LOO	Peroxide radical
LOOH	Hydroperoxyl radical
LPs	Lipopolysaccharide
LT	Lymphotoxin
LT α	Lymphotoxin alpha
MHC	Major histocypatibility complex
mRNA	messenger ribosomal nucleic acid
MV	Mechanical ventilation.
nCPAP	nasal continuous positive air pressure
NEC	Necrotizing enterocolities
NF-KB	Nuclear factor kappa B
NICHD	Neonatal institute of child health and human development
NICU	Neonatal intensive care unite
NK	Natural killer
No	Nitric oxide
O ₂	Super oxide anion
O ₂	Singlet oxygen
OH	Hydroxyl radical
ONOO	Peroxy nitrite
OR	Odd ratio

PAH	Pulmonary artery hypertension
PBS	Phosphate buffered saline
PCO ₂	Pressure of carbon dioxide
PCR	Polymaris chain reaction
PDA	Patent ductus arrierioses
PEEP	Positive end expiratory pressure
PFT	Pulmonary function teast
PIE	Pulmonary interstitial emphysema
PMA	Post menstrual age.
PPV	Positive pressure ventilation
PRom	Premature rupture of membranes
PVL	Periventriular lucomalicia
r	Pearson correlation coefficient
RA	Room air
RASTA	Room air transcutases
RBCs	Red blood cells
RDS	Respiratory distress syndrome
RIP	Receptor interacting protein
ROP	Retinopathy of prematurty
RSV	Respiratory syncytial virus
RV	Residual volume
S ₂	Second heart sound
SC	Subcutaneous
SD	Stander deviation

SIMV	Synchronized intermittent mandatory ventilation
SNPs	Single nucleotide polymorphisms
SP-A	Surfactant protein- A
SPSS	Statistical package of social science
TLC	Total lung capacity
TNF α	Tumor necrosis factor alpha.
TNF R	Tumor necrosis factor receptor
TNP	Tumor necrosis factor polymorphism
TRADD	TNF- receptor associated death domain
TRAFs	TNF receptor associated factors
UV	Ultraviolet
VEGF	Vascular endothelial growth factor
VG	Volume guarantee
VLBW	Very low birth weight.
V _T	Ventilatory time
WBC	White blood cell
X	Mean
X ²	Chi square
Zn	Zinc

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