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**Study of Plasma Endothelin-1 and Interleukin-8 in
Neonates with Respiratory Distress Syndrome
and in Infants and Children with
Bronchial Asthma**

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THESIS

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وَمَا تَشَاءُونَ إِلَّا أَنْ يَشَاءَ اللَّهُ
إِنَّ اللَّهَ كَانَ عَلِيمًا حَكِيمًا

صَلَّى
الْعِظَمَاءُ

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TO THE SPIRIT OF MY FATHER

He taught me all my principles.

TO MY MOTHER

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TO MY WIFE

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LIST OF ABBREVIATIONS

<i>A/a-ratio</i>	: Arteriolar/alveolar oxygenation ratio.
<i>ANP</i>	: Atrial natriuretic peptide.
<i>ARDS</i>	: Adult respiratory distress syndrome.
<i>BAL</i>	: Broncho-alveolar lavage.
<i>BALF</i>	: Broncho-alveolar lavage fluid.
<i>BHR</i>	: Bronchial hyper-responsiveness.
<i>BPD</i>	: Broncho-pulmonary dysplasia.
<i>CBC</i>	: Complete blood count.
<i>CF</i>	: Cystic fibrosis.
<i>CLD</i>	: Chronic lung disease.
<i>CPAP</i>	: Continuous positive airway pressure.
<i>CS</i>	: Cesarean section.
<i>DIC</i>	: Disseminated intravascular coagulation.
<i>DNA</i>	: Deoxy ribonucleic acid.
<i>ECE</i>	: Endothelin converting enzyme.
<i>ECM</i>	: Extra-cellular matrix.
<i>EDRF</i>	: Endothelin derived relaxing factor.
<i>EDTA</i>	: Ethylene diamine tetra-acetate.
<i>ELISA</i>	: Enzyme linked immunosorbent assay.
<i>ENAP</i>	: Endothelial neutrophil activating peptide.
<i>ET-1</i>	: Endothelin-1.
<i>ETT</i>	: Endotracheal tube.
<i>FDA</i>	: Food and drug administration.
<i>FEV1</i>	: Forced expiratory volume in one second.
<i>Fio₂</i>	: Fraction of inspired oxygen.
<i>FRC</i>	: Functional residual capacity.
<i>fmol/ml</i>	: femtomol/ml.

LIST OF ABBREVIATIONS_(CONTINUED)

<i>G-CSF</i>	: Granulocyte-colony stimulating factor.
<i>GM-CSF</i>	: Granulocyte macrophage-colony stimulating factor.
<i>Gm</i>	: Gram.
<i>Hb</i>	: Haemoglobin.
<i>Hr</i>	: hour.
<i>HMD</i>	: Hyaline membrane disease.
<i>IDM</i>	: Infant of diabetic mother.
<i>IFN-γ</i>	: Interferon-gamma.
<i>IgA</i>	:Immunoglobulin A.
<i>IL-8</i>	:Interleukin-8 .
<i>IL-1b</i>	:Interleukin-1beta .
<i>IPPV</i>	: Intermittent positive pressure ventilation.
<i>IVH</i>	: Intraventricular hemorrhage.
<i>LBW</i>	: Low birth weight.
<i>LPS</i>	: Lipopolysaccharid.
<i>L/S</i>	: Lecithin/Sphingomyelin.
<i>M-CSF</i>	: Macrophage-colony stimulating factor.
<i>MD NCF</i>	: Monocyte derived neutrophil chemotactic factor.
<i>NAP</i>	: Neutrophil activating peptide.
<i>NCF</i>	: Neutrophil chemotactic factor.
<i>NEIN</i>	: Neuroendocrine immunologic network.
<i>NO</i>	: Nitric oxide.
<i>O₂</i>	: Oxygen.
<i>PDA</i>	: Patent ductus arteriosus.
<i>PEEP</i>	: Positive end expiratory pressure.
<i>PEFR</i>	: Peak expiratory flow rate.
<i>PG</i>	: Phosphatidyl glycerol.

LIST OF ABBREVIATIONS_(CONTINUED)

<i>Pgm</i>	: Picogram.
<i>PGE₂</i>	: Prostaglandin E ₂ .
<i>Pmol/l</i>	: Picomol/litre.
<i>PROM</i>	: Prolonged rupture of membranes.
<i>PVL</i>	: Periventricular leukomalecia.
<i>RBCs</i>	: Red blood cells.
<i>RDS</i>	: Respiratory distress syndrome.
<i>RNA</i>	: Ribonucleic acid.
<i>RR</i>	: Respiratory rate.
<i>TGF-β</i>	: Transforming growth factor-beta.
<i>TNF-α</i>	: Tumor necrosis factor-alpha.
<i>TTN</i>	: Transient tachypnea of newborn.
<i>TxA₂</i>	: Thromboxan A ₂ .
<i>UI</i>	: Microlitre.
<i>WBCs</i>	: White blood cells.
<i>WK</i>	: Week.

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