

THE EFFECT OF GESTATIONAL AGE ON POSTNATAL TOTAL FREE RADICALS

Thesis
Submitted for partial fulfillment
of master degree in paediatrics



By

Sherine Mohamed Hamdy Saced
(M.B., B. Ch.)

5/10/99

Supervised by

Prof. Dr. Hoda Lotfy El-Sayed

Prof. of Paediatrics

Ain Shams University

Prof. Dr. Omnia Fathey El-Rasheidy

Lecturer of Paediatrics

Ain Shams University

Ass. Prof. Dr. Mona Mohamed Zaki

Assistant Prof. of clinical pathology

Ain Shams University

Faculty of Medicine
Ain Shams University

1999



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

﴿وَلَقَدْ خَلَقْنَا الْإِنْسَانَ مِنْ سُلَالَةٍ مِّن طِينٍ (١٢) ثُمَّ
جَعَلْنَاهُ نُطْفَةً فِي قَرَارٍ مَّكِينٍ (١٣) ثُمَّ خَلَقْنَا النُّطْفَةَ عَلَقَةً
فَخَلَقْنَا الْعَلَقَةَ مُضْغَةً فَخَلَقْنَا الْمُضْغَةَ عِظَامًا فَكَسَوْنَا
الْعِظَامَ لَحْمًا ثُمَّ أَنْشَأْنَاهُ خَلْقًا آخَرَ فَتَبَارَكَ اللَّهُ أَحْسَنُ
الْخَالِقِينَ (١٤)﴾

صدق الله العظيم

سورة المؤمنون

Acknowledgement

First, Thanks are all to God for blessing this work until it has reached its end as a little part of his generous help throughout our life.

*I would like to express my grateful appreciation to **Prof. Dr. Hoda Lotfy El-Sayed**, Professor of Pediatrics, Faculty of Medicine, Ain Shams University, for her continuous encouragement and support that she gave me throughout the whole work. It is a great honour to work under her guidance and supervision.*

*Also, I would like to express my cardial thanks and appreciation to **Dr. Omnia Fathy El-Rasheidy**, Lecturer of Pediatrics, Faculty of Medicine, Ain Shams University for her great support, careful supervison and continuous advices which helped me to overcome many difficulties.*

*I am also deeply grateful and would like to express my sincere thanks and gratitude to **Prof. Dr. Mona Mohamed Zaki**, Assistant Professor of clinical pathology, Ain Shams University, for her great help and continuous encouragement in the practical part of this work.*

I am also very grateful to the doctors, the nursing staff,

the mothers and their newborns who participated in our work for their valuable unlimited help that without it this work would have never been fulfilled.

My thanks also go to my family and also my dear sister Dr. Neveen Yosef, for their valuable help , support and encouragement all the time.

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List of Abbreviations

ADP	Adenosine Di-Phosphate
ARDS	Adult Respiratory Distress Syndrome
AS ₁	Apgar Score at 1 minute
AS ₅	Apgar Score at 5 minutes.
ATP	Adenosine tri-phosphate
BAL	Broncho-Alveolar Lavage
BPD	Broncho-Pulmonary Dysplasia
C	Complement
Ca ²⁺	Calcium ions
CAT	Catalase enzyme
CCL ₄	Carbon tetra chloride
cGMP	Cyclic Guanosine Monophosphate
CH ₃ CL ₃	Trichloromethyl radical
C ₂ H ₂ H=N	Phenyldiazine radical
CNS	Central Nervous System
(-C = O)	Carbonyl group.
CT	Computerized Tomography
Cu ⁺	Copper ions
Cu ⁺⁺	Cuprous ions
Cu/Zn SOD	Copper Zinc Superoxide dismutase
CVD	Cardio-vascular Distress.
DHBA	Dihydroxybenzoic acid
DNA	Deoxyribonucleic acid
e ⁻	Electron transfer
EDRF	Endothelium derived relaxing factor

Fe ²⁺	Ferrous ion
Fe ³⁺	Ferric ion
FIO ₂	Oxygen flow
GP	Glutathione peroxidase
GSH	Reduced form of glutathione
GSH-PX	Glutathione peroxidases.
GSSG	Oxidised form of glutathione.

H ⁺	Hydrogen atom
Hb	Haemoglobin
Hg	Mercury
HO [•]	Hydroxyl radical
H ₂ O	Water
H ₂ O ₂	Hydrogen peroxide
HPLC	High performance liquid Chromatography
hr.	Hour
HX	Hypoxanthine
ICAM-1	Intracellular adhesion molecule-1
IL	Interleukin
I.M	Intramuscular injection
IU/d	International unit per day
IUGD	Intrauterine Growth Retardation
I.V	Intravenous injection
Kg	Kilograms
KWO	Kwashiorkor

L	Lipids
LO	Alkoxy radical
LO ₂	Peroxy radical
LTB ₄	Leukotriene B ₄
MAD	Malondialdehyde
mg	milligram
µg/dl	microgram per decilitre
ml	millilitre
mmol/l	millimole per litre
min	minutes
MRI	Magnetic Resonance Imaging
NAD ⁺	Nicotine Adenine dinucleotide
NADP	Nicotine Adenine dinucleotide phosphate
NADPH	Reduced form of NADP
NEC	Necrotizing Enterocolitis
NO	Nitric oxide
NO ₂	Nitrous dioxide
NO [•]	Nitric oxide radical
NSAID	Non steroidal anti-inflammatory drug.
O ₂	Oxygen
O ₂ ⁻	Superoxide anion
¹ O ₂	Singlet oxygen
³ O ₂	Triplet oxygen
O ₃	Ozone

Pd	Lead
PDA	Patent ductus arteriosus
PEM	Protein energy malnutrition
PGE ₂	Prostaglandin E ₂
PO	Per oral
PUFA	Poly unsaturated fatty acids.
RBCs	Red blood cells
RDS	Respiratory distress Syndrome
ROP	Retinopathy of prematurity
SOD	Superoxide dismutase
TAS	Total antioxidant status
UQ	Ubiquinone
UQH	Reduced form of Ubiquinone
VLBW	Very lowbirth weight.
XO	Xanthine oxidase

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