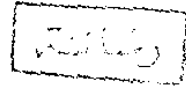


**DELAYED UMBILICAL CORD SEPARATION IN
RELATION TO NUMBER AND FUNCTION OF
NEUTROPHIL**

THESIS



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Master Degree in Pediatrics

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بسم الله الرحمن الرحيم

"ذلك فضل الله يؤتيه من يشاء والله ذو الفضل العظيم"

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To ...

My family



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LIST OF ABBREVIATIONS

CN	Cyclic neutropenia
F	Female
FT	Full term
G-CSF	Granulocyte-colony stimulating factor
GM-CSA	Granulocyte macrophage-colony stimulating activity
GM-CSF	Granulocyte macrophage-colony stimulating factor
HIM	Haemotopoietic inductive microenvironment
HIV	Human immunodeficiency virus
HMP	Hexose monophosphatase shunt
M	Male
NSP	Neutrophil storage pool
PHA-M	Phytohaemoagglutinin-M
PMN	Polymorphic neutrophil
PMN	Polymorphonuclear neutrophil
PT	Preterm
RER	Rough-surfaced endoplasmic reticulum
TLC	Total leucocytic count

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